MULTI V™ WATER IV

Heat Pump 220V
R410A(60Hz)
6CVW0-02D(Replaces 6CVW0-02C)

# LG TOTAL HVAC SOLUTION PROVIDER

## ENGINEERING PRODUCT DATA BOOK

LG
Life's Good

P/No. : MFL61741622

MULTI V™ WATER IV

# General Information

1. Model Names
2. External Appearance
3. Combination of Outside Units
4. Nomenclature
5. Indoor Unit and Outside Unit Capacity Index
6. Outside Unit Function

# 1. Model Names



| Power Supply | 8HP | 10HP | 14HP | 16HP | 18HP |
|---|---|---|---|---|---|
| 3Ø, 220V, 60Hz | 080BAS4 | 100BAS4 | 140BAS4 | 160BAS4 | 180BAS4 |

| Power Supply | 20HP | 22HP | 24HP | 26HP | 28HP |
|---|---|---|---|---|---|
| 3Ø, 220V, 60Hz | 200BAS4 | 220BAS4 | 240BAS4 | 260BAS4 | 280BAS4 |

| Power Supply | 30HP | 32HP | 34HP | 36HP | 38HP |
|---|---|---|---|---|---|
| 3Ø, 220V, 60Hz | 300BAS4 | 320BAS4 | 340BAS4 | 360BAS4 | 380BAS4 |

| Power Supply | 40HP | 42HP | 44HP | 46HP | 48HP |
|---|---|---|---|---|---|
| 3Ø, 220V, 60Hz | 400BAS4 | 420BAS4 | 440BAS4 | 460BAS4 | 480BAS4 |

| Heat Pump | ARWN |
|---|---|

# 2. External Appearance



## ■ Heat Pump (220V)

| Chassis | Model Name | Model |
|---|---|---|
| UWC | ARWN080BAS4<br>ARWN100BAS4<br>ARWN140BAS4<br>ARWN160BAS4 | |
| UWC<br>UWC | ARWN180BAS4<br>ARWN200BAS4<br>ARWN220BAS4<br>ARWN240BAS4<br>ARWN260BAS4<br>ARWN280BAS4<br>ARWN300BAS4<br>ARWN320BAS4 | |
| UWC<br>UWC<br>UWC | ARWN340BAS4<br>ARWN360BAS4<br>ARWN380BAS4<br>ARWN400BAS4<br>ARWN420BAS4<br>ARWN440BAS4<br>ARWN460BAS4<br>ARWN480BAS4 | |

# 3. Combination of Outside Units

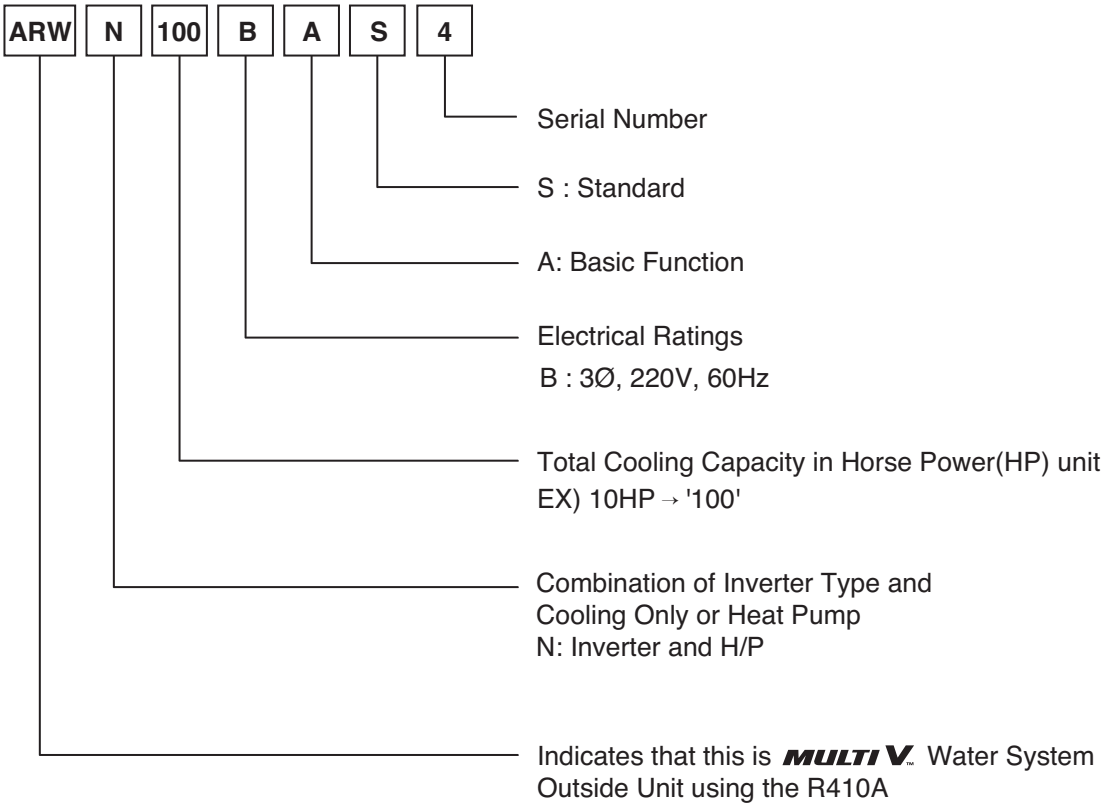


## ■ Heat Pump (220V)

| System Capacity (HP) | Model Name | Number of Units | Module Capacity (HP) | | | |
|---|---|---|---|---|---|---|
| | | | 8 | 10 | 14 | 16 |
| 8 | ARWB080BAS4 | 1 | 1 | | | |
| 10 | ARWB100BAS4 | 1 | | 1 | | |
| 14 | ARWB140BAS4 | 1 | | | 1 | |
| 16 | ARWB160BAS4 | 1 | | | | 1 |
| 18 | ARWB180BAS4 | 2 | 1 | 1 | | |
| 20 | ARWB200BAS4 | 2 | | 2 | | |
| 22 | ARWB220BAS4 | 2 | 1 | | 1 | |
| 24 | ARWB240BAS4 | 2 | 1 | | | 1 |
| 26 | ARWB260BAS4 | 2 | | 1 | | 1 |
| 28 | ARWB280BAS4 | 2 | | | 2 | |
| 30 | ARWB300BAS4 | 2 | | | 1 | 1 |
| 32 | ARWB320BAS4 | 2 | | | | 2 |
| 34 | ARWB340BAS4 | 3 | | 2 | 1 | |
| 36 | ARWB360BAS4 | 3 | 1 | | 2 | |
| 38 | ARWB380BAS4 | 3 | | 1 | 2 | |
| 40 | ARWB400BAS4 | 3 | 1 | | | 2 |
| 42 | ARWB420BAS4 | 3 | | | 3 | |
| 44 | ARWB440BAS4 | 3 | | | 2 | 1 |
| 46 | ARWB460BAS4 | 3 | | | 1 | 2 |
| 48 | ARWB480BAS4 | 3 | | | | 3 |

# 4. Nomenclature





# 5. Indoor Unit and Outside Unit Capacity Index



## 5.1 Outside Unit Selection

See the indoor unit capacity tables for given Indoor and outside(outdoor) temperature. Select the unit whose capacity is the nearest to or greater than given load.

**Note:**
Individual Indoor Unit capacity is subject to change by combination. Actual capacity has to be calculated according to the combination by using outside unit capacity table.

## 5.2 Outside Unit Selection

Allowable combinations are indicated below. In general, outside unit can be selected depending on the location of the unit, zoning and usage of the rooms.
The indoor and outside unit combination is determined by comparing the sum of indoor unit capacity index with each Outside Unit. It is recommended to be the nearest to 100% combination ratio or to be smaller than that. Refer the table below. To manage cooling/heating load properly, it's better to be selected the bigger capacity outside unit rather than the nearest, if the installation space is large enough.

### Allowable Total Capacity Index Table of Combined Indoor Units

| Outside Unit Capacity(HP) | Indoor Unit Combination Ratio | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50% | 60% | 70% | 80% | 90% | 100% | 110% | 120% | 130% | 160% | 200% |
| 8 | 11.2 | 13.4 | 15.7 | 17.9 | 20.2 | 22.4 | 24.6 | 26.9 | 29.1 | 35.8 | 44.8 |
| 10 | 14.0 | 16.8 | 19.6 | 22.4 | 25.2 | 28.0 | 30.8 | 33.6 | 36.4 | 44.8 | 56.0 |
| 14 | 19.6 | 23.5 | 27.4 | 31.4 | 35.3 | 39.2 | 43.1 | 47.0 | 51.0 | 62.7 | 78.4 |
| 16 | 22.4 | 26.9 | 31.4 | 35.8 | 40.3 | 44.8 | 49.3 | 53.8 | 58.2 | 71.7 | 89.6 |
| 18 | 25.2 | 30.2 | 35.3 | 40.3 | 45.4 | 50.4 | 55.4 | 60.5 | 65.5 | 80.6 | - |
| 20 | 28.0 | 33.6 | 39.2 | 44.8 | 50.4 | 56.0 | 61.6 | 67.2 | 72.8 | 89.6 | - |
| 22 | 30.8 | 37.0 | 43.1 | 49.3 | 55.4 | 61.6 | 67.8 | 73.9 | 80.1 | 98.6 | - |
| 24 | 33.6 | 40.3 | 47.0 | 53.8 | 60.5 | 67.2 | 73.9 | 80.6 | 87.4 | 107.5 | - |
| 26 | 36.4 | 43.7 | 51.0 | 58.2 | 65.5 | 72.8 | 80.1 | 87.4 | 94.6 | 116.5 | - |
| 28 | 39.2 | 47.0 | 54.9 | 62.7 | 70.6 | 78.4 | 86.2 | 94.1 | 101.9 | 125.4 | - |
| 30 | 42.0 | 50.4 | 58.8 | 67.2 | 75.6 | 84.0 | 92.4 | 100.8 | 109.2 | 134.4 | - |
| 32 | 44.8 | 53.8 | 62.7 | 71.7 | 80.6 | 89.6 | 98.6 | 107.5 | 116.5 | 143.4 | - |
| 34 | 47.6 | 57.1 | 66.6 | 76.2 | 85.7 | 95.2 | 104.7 | 114.2 | 123.8 | - | - |
| 36 | 50.4 | 60.5 | 70.6 | 80.6 | 90.7 | 100.8 | 110.9 | 121.0 | 131.0 | - | - |
| 38 | 53.2 | 63.8 | 74.5 | 85.1 | 95.8 | 106.4 | 117.0 | 127.7 | 138.3 | - | - |
| 40 | 56.0 | 67.2 | 78.4 | 89.6 | 100.8 | 112.0 | 123.2 | 134.4 | 145.6 | - | - |
| 42 | 58.8 | 70.6 | 82.3 | 94.1 | 105.8 | 117.6 | 129.4 | 141.1 | 152.9 | - | - |
| 44 | 61.6 | 73.9 | 86.2 | 98.6 | 110.9 | 123.2 | 135.5 | 147.8 | 160.2 | - | - |
| 46 | 64.4 | 77.3 | 90.2 | 103.0 | 115.9 | 128.8 | 141.7 | 154.6 | 167.4 | - | - |
| 48 | 67.2 | 80.6 | 94.1 | 107.5 | 121.0 | 134.4 | 147.8 | 161.3 | 174.7 | - | - |

❊ Capacity Index is same as the capacity(kW).

# 5. Indoor Unit and Outside Unit Capacity Index



## Indoor unit capacity index

| Unit Capacity (Btu/h) | 5k | 7k | 9k | 12k | 15k | 18k | 21k | 24k | 28k | 36k | 42k | 48k | 54k | 76k | 96k |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity Index | 1.6 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 6.2 | 7.1 | 8.2 | 10.6 | 12.3 | 14.1 | 15.8 | 22.4 | 28.0 |

❉ Capacity Index is same as the capacity(kW).

## ⚠CAUTION

- **Ratio of the running Indoor Units to the Outside: Within 10 ~ 100%**
- **A combination operation over 100% cause to reduce each indoor unit capacity.**

■ **Combination ratio (50~200%)**

| Number of Outside units | Combination Ratio |
|---|---|
| Single Unit | 200 % |
| Two Units combination | 160 % |
| Three Units combination | 130 % |

**Notes :**

**1) We can guarantee the operation only within 130% Combination Ratio.**
**If you want to connect more than 130% combination Ratio, please contact us and discuss the requirement.**

**2) In case that operating indoor units ratio to rated capacity of Outside unit is more than 130%, the air-flow should be operated as low step in the all indoor units.**

# 6. Outside Unit Function



| Category | Functions | Multi V Water IV |
|---|---|---|
| Reliability | Defrost / Deicing | X |
| | High pressure switch | O |
| | Phase protection | O |
| | Restart delay (3-minutes) | O |
| | Self diagnosis | O |
| | Soft start | O |
| | Test Run function | O |
| CAC network function | Network soluation(LGAP) | O |

**Note :**
O : Applied, X : Not applied
Accessory model name : Installed at field, ordered and purchased separately by the corresponding model name, supplied with separate package.

| Category | | Product | Etc | Multi V Water IV |
|---|---|---|---|---|
| Central Controller | AC EZ | PQCSZ250S0 | - | O |
| | AC Ez Touch | PACEZA000 | - | O |
| | AC Smart | PACS4B000 | AC Smart IV | O |
| | | PACS5A000 | AC Smart 5 | O |
| | ACP | PACP4B000 | ACP IV | O |
| | | PACP5A000 | ACP 5 | O |
| | AC Manager | PACM4B000 | AC Manager IV | O |
| | | PACM5A000 | AC Manager 5 | O |
| Gateway | Cool/Heat Selector | PRDSBM | Dry Contact For ODU | O |
| | Low Ambient Kit | PRVC2 | From MULTI V 4 series | X |
| | AHU Comm. Kit | PAHCMR000 | Return / Room Air Control | O |
| | | PAHCMS000 | Supply Air Control by DDC | O |
| | BACnet | PQNFB17C0 | ACP BACnet(DC 12V Adapter) | O |
| | | PQNFB17C1 | ACP BACnet(AC 24V) | O |
| | Lonworks | PLNWKB000 | ACP Lonworks(DC 12V Adapter) | O |
| | | PLNWKB100 | ACP Lonworks(AC 24V) | O |
| | Lon Translator | PLNTRN000 | Lon Translator(For Chiller) | X |
| | Modbus RTU | PMBUSB00A | Modbus Gateway(For Multi V 5, ERV) | X |
| ETC | PDI | PPWRDB000 | PDI Standard | O |
| | | PQNUD1S40 | PDI Premium | O |
| | ACS IO Module | PEXPMB000 | - | O |
| | Variable Water Flow Valve Control KIT | PWFCKN000 | - | O |
| | ODU Dry Contact | PVDSMN000 | - | O |

**Note :**
O : Applied, X : Not applied
Accessory : Ordered and purchased separately the accessory package referring to the model name provided and install at field. Accessory line-ups varies by region, so check your local catalogue or local sales material.

MULTI V™ WATER IV

## Outside Units


1. Specifications
2. Dimensions
3. Piping Diagrams
4. Wiring Diagrams
5. Field Wiring
6. Electric Characteristics
7. Capacity Tables
8. Operation Limits
9. Sound Levels
10. Head loss by Water flow

# 1. Specifications

## ■ Heat Pump (220V)

**[60Hz]**

| System Capacity | | HP | 8 | 10 |
|---|---|---|---|---|
| Model Name | | Combination Unit | ARWN080BAS4 | ARWN100BAS4 |
| | | Independent Unit | ARWN080BAS4 | ARWN100BAS4 |
| | | | | |
| | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 |
| | | kcal/h | 19,300 | 24,100 |
| | | Btu/h | 76,400 | 95,500 |
| | Heating | kW | 25.2 | 31.5 |
| | | kcal/h | 21,700 | 27,100 |
| | | Btu/h | 86,000 | 107,500 |
| Input | Cooling | kW | 4.15 | 5.38 |
| | Heating | kW | 4.34 | 5.63 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 1 | (Inverter) x 1 |
| | Piston Displacement | $cm^3/rev$ | 43.8 | 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 | 4.2 |
| | Starting Method | | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 |
| | Head Loss | kPa | 10.7 | 15.8 |
| | Rated Water Flow | LPM | 77 | 96 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 9.52(3/8) | 9.52(3/8) |
| | Gas Pipes | mm(inch) | 22.2(7/8) | 22.2(7/8) |
| Water Connecting Pipes | Inlet | mm | PT 40 (Internal) | PT 40 (Internal) |
| | Outlet | mm | PT 40 (Internal) | PT 40 (Internal) |
| | Drain Outlet | mm | PT 20 (External) | PT 20 (External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 1 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 1 | (29-23/32 x 39-1/4 x 19-11/16) x 1 |
| Net Weight | | kg | 127 x 1 | 127 x 1 |
| | | lbs | 280 x 1 | 280 x 1 |
| Sound Pressure Level [3] | Cooling | dB(A) | 47 | 50 |
| | Heating | dB(A) | 51 | 53 |
| Sound Power Level [4] | Cooling | dB(A) | 59 | 62 |
| | Heating | dB(A) | 63 | 65 |
| Communication Cable | | $No.xmm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A |
| | Charge Amount | kg | 5.8 | 5.8 |
| | | lbs | 12.8 | 12.8 |
| | Control Device | | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 13(20) | 16(25) |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications

**[60Hz]**

| System Capacity | | HP | 14 | 16 |
|---|---|---|---|---|
| Model Name | | Combination Unit | ARWN140BAS4 | ARWN160BAS4 |
| | | Independent Unit | ARWN140BAS4 | ARWN160BAS4 |
| | | | | |
| | | | | |
| Capacity | Cooling | kW | 39.2 | 44.8 |
| | | kcal/h | 33,700 | 38,500 |
| | | Btu/h | 133,800 | 152,900 |
| | Heating | kW | 44.1 | 50.4 |
| | | kcal/h | 37,900 | 43,300 |
| | | Btu/h | 150,500 | 172,000 |
| Input | Cooling | kW | 8.17 | 9.33 |
| | Heating | kW | 8.48 | 9.69 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 1 | (Inverter) x 1 |
| | Piston Displacement | $cm^3/rev$ | 43.8 | 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 | 4.2 |
| | Starting Method | | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 |
| | Head Loss | kPa | 28.6 | 36.5 |
| | Rated Water Flow | LPM | 135 | 154 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 12.7(1/2) | 12.7(1/2) |
| | Gas Pipes | mm(inch) | 25.4(1) | 25.4(1) |
| Water Connecting Pipes | Inlet | mm | PT 40 (Internal) | PT 40 (Internal) |
| | Outlet | mm | PT 40 (Internal) | PT 40 (Internal) |
| | Drain Outlet | mm | PT 20 (External) | PT 20 (External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 1 | (755 x 997 x 500) x 1 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 1 | (29-23/32 x 39-1/4 x 19-11/16) x 1 |
| Net Weight | | kg | 127 x 1 | 127 x 1 |
| | | lbs | 280 x 1 | 280 x 1 |
| Sound Pressure Level [3] | Cooling | dB(A) | 58 | 59 |
| | Heating | dB(A) | 57 | 59 |
| Sound Power Level [4] | Cooling | dB(A) | 70 | 71 |
| | Heating | dB(A) | 69 | 71 |
| Communication Cable | | No.x$mm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A |
| | Charge Amount | kg | 5.8 | 5.8 |
| | | lbs | 12.8 | 12.8 |
| | Control Device | | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 23(35) | 26(40) |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications

**[60Hz]**

| System Capacity | | HP | 18 | 20 |
|---|---|---|---|---|
| Model Name | | Combination Unit | **ARWN180BAS4** | **ARWN200BAS4** |
| | | Independent Unit | **ARWN100BAS4** | **ARWN100BAS4** |
| | | | **ARWN080BAS4** | **ARWN100BAS4** |
| | | | | |
| Capacity | Cooling | kW | 50.4 | 56.0 |
| | | kcal/h | 43,400 | 48,200 |
| | | Btu/h | 171,900 | 191,000 |
| | Heating | kW | 56.7 | 63.0 |
| | | kcal/h | 48,800 | 54,200 |
| | | Btu/h | 193,500 | 215,000 |
| Input | Cooling | kW | 9.53 | 10.76 |
| | Heating | kW | 9.97 | 11.26 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 2 | (Inverter) x 2 |
| | Piston Displacement | $cm^3/rev$ | 43.8 + 43.8 | 43.8 + 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 + 4.2 | 4.2 + 4.2 |
| | Starting Method | | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 |
| | Head Loss | kPa | 15.8 + 10.7 | 15.8 + 15.8 |
| | Rated Water Flow | LPM | 96 + 77 | 96 + 96 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 12.7(1/2) | 12.7(1/2) |
| | Gas Pipes | mm(inch) | 28.58(1-1/8) | 28.58(1-1/8) |
| Water Connecting Pipes | Inlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) |
| | Outlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) |
| | Drain Outlet | mm | PT 20 (External) | PT20 (3/4, External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 2 | (29-23/32 x 39-1/4 x 19-11/16) x 2 |
| Net Weight | | kg | 127 x 2 | 127 x 2 |
| | | lbs | 280 x 2 | 280 x 2 |
| Sound Pressure Level [3] | Cooling | dB(A) | 52 | 53 |
| | Heating | dB(A) | 55 | 56 |
| Sound Power Level [4] | Cooling | dB(A) | 65 | 66 |
| | Heating | dB(A) | 68 | 70 |
| Communication Cable | | $No.xmm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A |
| | Charge Amount | kg | 5.8 + 5.8 | 5.8 + 5.8 |
| | | lbs | 12.8 + 12.8 | 12.8 + 12.8 |
| | Control Device | | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 29(36) | 32(40) |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications



**[60Hz]**

| System Capacity | | HP | 22 | 24 |
|---|---|---|---|---|
| Model Name | | Combination Unit | **ARWN220BAS4** | **ARWN240BAS4** |
| | | Independent Unit | **ARWN140BAS4** | **ARWN160BAS4** |
| | | | **ARWN080BAS4** | **ARWN080BAS4** |
| | | | | |
| Capacity | Cooling | kW | 61.6 | 67.2 |
| | | kcal/h | 53,000 | 57,800 |
| | | Btu/h | 210,200 | 229,300 |
| | Heating | kW | 69.3 | 75.6 |
| | | kcal/h | 59,600 | 65,000 |
| | | Btu/h | 236,500 | 258,000 |
| Input | Cooling | kW | 12.31 | 13.48 |
| | Heating | kW | 12.83 | 14.03 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 2 | (Inverter) x 2 |
| | Piston Displacement | $cm^3/rev$ | 43.8 + 43.8 | 43.8 + 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 + 4.2 | 4.2 + 4.2 |
| | Starting Method | | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 |
| | Head Loss | kPa | 28.6 + 10.7 | 36.5 + 10.7 |
| | Rated Water Flow | LPM | 135 + 77 | 154 + 77 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 19.05(3/4) | 19.05(3/4) |
| | Gas Pipes | mm(inch) | 34.9(1-3/8) | 34.9(1-3/8) |
| Water Connecting Pipes | Inlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) |
| | Outlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) |
| | Drain Outlet | mm | PT 20 (External) | PT20 (External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 2 | (29-23/32 x 39-1/4 x 19-11/16) x 2 |
| Net Weight | | kg | 127 x 2 | 127 x 2 |
| | | lbs | 280 x 2 | 280 x 2 |
| Sound Pressure Level [3] | Cooling | dB(A) | 58 | 59 |
| | Heating | dB(A) | 58 | 60 |
| Sound Power Level [4] | Cooling | dB(A) | 71 | 72 |
| | Heating | dB(A) | 71 | 73 |
| Communication Cable | | $No.x mm^2(VCTF-SB)$ | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A |
| | Charge Amount | kg | 5.8 + 5.8 | 5.8 + 5.8 |
| | | lbs | 12.8 + 12.8 | 12.8 + 12.8 |
| | Control Device | | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 35(44) | 39(48) |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications

**[60Hz]**

| System Capacity | | HP | 26 | 28 |
|---|---|---|---|---|
| Model Name | | Combination Unit | **ARWN260BAS4** | **ARWN280BAS4** |
| | | Independent Unit | **ARWN160BAS4** | **ARWN140BAS4** |
| | | | **ARWN100BAS4** | **ARWN140BAS4** |
| | | | | |
| Capacity | Cooling | kW | 72.8 | 78.4 |
| | | kcal/h | 62,600 | 67,400 |
| | | Btu/h | 248,400 | 267,600 |
| | Heating | kW | 81.9 | 88.2 |
| | | kcal/h | 70,400 | 75,800 |
| | | Btu/h | 279,500 | 301,000 |
| Input | Cooling | kW | 14.71 | 16.33 |
| | Heating | kW | 15.32 | 16.96 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 2 | (Inverter) x 2 |
| | Piston Displacement | $cm^3/rev$ | 43.8 + 43.8 | 43.8 + 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 + 4.2 | 4.2 + 4.2 |
| | Starting Method | | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 |
| | Head Loss | kPa | 36.5 +15.8 | 28.6 + 28.6 |
| | Rated Water Flow | LPM | 154 + 96 | 135 + 135 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 19.05(3/4) | 19.05(3/4) |
| | Gas Pipes | mm(inch) | 34.9(1-3/8) | 34.9(1-3/8) |
| Water Connecting Pipes | Inlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) |
| | Outlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) |
| | Drain Outlet | mm | PT20 (3/4, External) | PT 20 (External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 2 | (29-23/32 x 39-1/4 x 19-11/16) x 2 |
| Net Weight | | kg | 127 x 2 | 127 x 2 |
| | | lbs | 280 x 2 | 280 x 2 |
| Sound Pressure Level [3] | Cooling | dB(A) | 60 | 61 |
| | Heating | dB(A) | 60 | 60 |
| Sound Power Level [4] | Cooling | dB(A) | 72 | 74 |
| | Heating | dB(A) | 74 | 73 |
| Communication Cable | | $No.x mm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A |
| | Charge Amount | kg | 5.8 + 5.8 | 5.8 + 5.8 |
| | | lbs | 12.8 + 12.8 | 12.8 + 12.8 |
| | Control Device | | EEV | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 42(52) | 45(56) |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications

**[60Hz]**

| System Capacity | | HP | 30 | 32 | 34 |
|---|---|---|---|---|---|
| Model Name | | Combination Unit | **ARWN300BAS4** | **ARWN320BAS4** | **ARWN340BAS4** |
| | | Independent Unit | **ARWN160BAS4** | **ARWN160BAS4** | **ARWN140BAS4** |
| | | | **ARWN140BAS4** | **ARWN160BAS4** | **ARWN100BAS4** |
| | | | | | **ARWN100BAS4** |
| Capacity | Cooling | kW | 84.0 | 89.6 | 95.2 |
| | | kcal/h | 72,200 | 77,000 | 81,900 |
| | | Btu/h | 286,700 | 305,800 | 324,800 |
| | Heating | kW | 94.5 | 100.8 | 107.1 |
| | | kcal/h | 81,200 | 86,600 | 92,100 |
| | | Btu/h | 322,500 | 344,000 | 365,500 |
| Input | Cooling | kW | 17.50 | 18.66 | 18.94 |
| | Heating | kW | 18.17 | 19.38 | 19.73 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 2 | (Inverter) x 2 | (Inverter) x 3 |
| | Piston Displacement | $cm^3/rev$ | 43.8 + 43.8 | 43.8 + 43.8 | 43.8 + 43.8 + 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 + 4.2 | 4.2 + 4.2 | 4.2 + 4.2 + 4.2 |
| | Starting Method | | Direct On Line | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 | 45 |
| | Head Loss | kPa | 36.5 + 28.6 | 36.5 + 36.5 | 28.6 + 15.8 + 15.8 |
| | Rated Water Flow | LPM | 154 + 135 | 154 + 154 | 154 + 96 + 96 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 19.05(3/4) | 19.05(3/4) | 19.05(3/4) |
| | Gas Pipes | mm(inch) | 34.9(1-3/8) | 34.9(1-3/8) | 34.9(1-3/8) |
| Water Connecting Pipes | Inlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Outlet | mm | PT40 + PT40 (Internal) | PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Drain Outlet | mm | PT20 (External) | PT20 (External) | PT20 (External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 2 | (755 x 997 x 500) x 3 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 2 | (29-23/32 x 39-1/4 x 19-11/16) x 2 | (29-23/32 x 39-1/4 x 19-11/16) x 3 |
| Net Weight | | kg | 127 x 2 | 127 x 2 | 127 x 3 |
| | | lbs | 280 x 2 | 280 x 2 | 280 x 3 |
| Sound Pressure Level [3] | Cooling | dB(A) | 62 | 62 | 59 |
| | Heating | dB(A) | 61 | 62 | 60 |
| Sound Power Level [4] | Cooling | dB(A) | 75 | 75 | 73 |
| | Heating | dB(A) | 74 | 75 | 74 |
| Communication Cable | | $No.xmm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A | R410A |
| | Charge Amount | kg | 5.8 + 5.8 | 5.8 + 5.8 | 5.8 + 5.8 + 5.8 |
| | | lbs | 12.8 + 12.8 | 12.8 + 12.8 | 12.8 + 12.8 + 12.8 |
| | Control Device | | Electronic expansion valve | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 49(60) | 52(64) | 55 |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications

**[60Hz]**

| System Capacity | | HP | 36 | 38 | 40 |
|---|---|---|---|---|---|
| Model Name | | Combination Unit | **ARWN360BAS4** | **ARWN380BAS4** | **ARWN400BAS4** |
| | | Independent Unit | **ARWN140BAS4** | **ARWN140BAS4** | **ARWN160BAS4** |
| | | | **ARWN140BAS4** | **ARWN140BAS4** | **ARWN160BAS4** |
| | | | **ARWN080BAS4** | **ARWN100BAS4** | **ARWN080BAS4** |
| Capacity | Cooling | kW | 100.8 | 106.4 | 112.0 |
| | | kcal/h | 86,700 | 91,500 | 96,300 |
| | | Btu/h | 344,000 | 363,100 | 382,200 |
| | Heating | kW | 113.4 | 119.7 | 126.0 |
| | | kcal/h | 97,500 | 102,900 | 108,300 |
| | | Btu/h | 387,000 | 408,500 | 430,000 |
| Input | Cooling | kW | 20.48 | 21.72 | 22.81 |
| | Heating | kW | 21.31 | 22.59 | 23.72 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 3 | (Inverter) x 3 | (Inverter) x 3 |
| | Piston Displacement | $cm^3/rev$ | 43.8 + 43.8 + 43.8 | 43.8 + 43.8 + 43.8 | 43.8 + 43.8 + 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 + 4.2 + 4.2 | 4.2 + 4.2 + 4.2 | 4.2 + 4.2 + 4.2 |
| | Starting Method | | Direct On Line | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 | 45 |
| | Head Loss | kPa | 28.6 + 28.6 + 10.7 | 28.6 + 28.6 + 15.8 | 36.5 + 36.5 + 10.7 |
| | Rated Water Flow | LPM | 135 + 135 + 77 | 135 + 135 + 96 | 154 + 154 + 77 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 19.05(3/4) | 19.05(3/4) | 19.05(3/4) |
| | Gas Pipes | mm(inch) | 41.3(1-5/8) | 41.3(1-5/8) | 41.3(1-5/8) |
| Water Connecting Pipes | Inlet | mm | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Outlet | mm | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Drain Outlet | mm | PT 20 (External) | PT20 (External) | PT20 (External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 3 | (29-23/32 x 39-1/4 x 19-11/16) x 3 | (29-23/32 x 39-1/4 x 19-11/16) x 3 |
| Net Weight | | kg | 127 x 3 | 127 x 3 | 127 x 3 |
| | | lbs | 280 x 3 | 280 x 3 | 280 x 3 |
| Sound Pressure Level [3] | Cooling | dB(A) | 61 | 61 | 62 |
| | Heating | dB(A) | 61 | 61 | 62 |
| Sound Power Level [4] | Cooling | dB(A) | 75 | 75 | 76 |
| | Heating | dB(A) | 75 | 75 | 76 |
| Communication Cable | | $No.xmm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A | R410A |
| | Charge Amount | kg | 5.8 + 5.8 + 5.8 | 5.8 + 5.8 + 5.8 | 5.8 + 5.8 + 5.8 |
| | | lbs | 12.8 + 12.8 + 12.8 | 12.8 + 12.8 + 12.8 | 12.8 + 12.8 + 12.8 |
| | Control Device | | Electronic expansion valve | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 58 | 61 | 64 |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications

**[60Hz]**

| System Capacity | | HP | 42 | 44 |
|---|---|---|---|---|
| Model Name | | Combination Unit | **ARWN420BAS4** | **ARWN440BAS4** |
| | | Independent Unit | **ARWN140BAS4** | **ARWN160BAS4** |
| | | | **ARWN140BAS4** | **ARWN140BAS4** |
| | | | **ARWN140BAS4** | **ARWN140BAS4** |
| Capacity | Cooling | kW | 117.6 | 123.2 |
| | | kcal/h | 101,200 | 105,900 |
| | | Btu/h | 401,200 | 420,500 |
| | Heating | kW | 132.3 | 138.6 |
| | | kcal/h | 113,800 | 119,100 |
| | | Btu/h | 451,500 | 473,000 |
| Input | Cooling | kW | 24.50 | 25.66 |
| | Heating | kW | 25.44 | 26.65 |
| Casing Color | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | (Inverter) x 3 | (Inverter) x 3 |
| | Piston Displacement | $cm^3/rev$ | 43.8 + 43.8 + 43.8 | 43.8 + 43.8 + 43.8 |
| | Number of revolution | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | kW | 4.2 + 4.2 + 4.2 | 4.2 + 4.2 + 4.2 |
| | Starting Method | | Direct On Line | Direct On Line |
| | Oil Type | | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | $kgf/cm^2$ | 45 | 45 |
| | Head Loss | kPa | 28.6 + 28.6 + 28.6 | 36.5 + 28.6 + 28.6 |
| | Rated Water Flow | LPM | 135 + 135 + 135 | 154 + 135 + 135 |
| Temp. range of Circulation water | Cooling | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | mm(inch) | 19.05(3/4) | 19.05(3/4) |
| | Gas Pipes | mm(inch) | 41.3(1-5/8) | 41.3(1-5/8) |
| Water Connecting Pipes | Inlet | mm | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Outlet | mm | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Drain Outlet | mm | PT 20 (External) | PT20 (External) |
| Dimensions(WxHxD) | | mm | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 |
| | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 3 | (29-23/32 x 39-1/4 x 19-11/16) x 3 |
| Net Weight | | kg | 127 x 3 | 127 x 3 |
| | | lbs | 280 x 3 | 280 x 3 |
| Sound Pressure Level [3] | Cooling | dB(A) | 63 | 63 |
| | Heating | dB(A) | 62 | 63 |
| Sound Power Level [4] | Cooling | dB(A) | 77 | 77 |
| | Heating | dB(A) | 76 | 77 |
| Communication Cable | | $No.x mm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | R410A | R410A |
| | Charge Amount | kg | 5.8 + 5.8 + 5.8 | 5.8 + 5.8 + 5.8 |
| | | lbs | 12.8 + 12.8 + 12.8 | 12.8 + 12.8 + 12.8 |
| | Control Device | | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | 64 | 64 |

**Notes:**

1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

# 1. Specifications

**[60Hz]**

| System Capacity | | | HP | 46 | 48 |
|---|---|---|---|---|---|
| Model Name | | | Combination Unit | **ARWN460BAS4** | **ARWN480BAS4** |
| | | | Independent Unit | **ARWN160BAS4** | **ARWN160BAS4** |
| | | | | **ARWN160BAS4** | **ARWN160BAS4** |
| | | | | **ARWN140BAS4** | **ARWN160BAS4** |
| Capacity | Cooling | | kW | 128.8 | 134.4 |
| | | | kcal/h | 110,700 | 115,500 |
| | | | Btu/h | 439,600 | 458,700 |
| | Heating | | kW | 144.9 | 151.2 |
| | | | kcal/h | 124,500 | 129,900 |
| | | | Btu/h | 494,500 | 516,000 |
| Input | Cooling | | kW | 26.83 | 27.99 |
| | Heating | | kW | 27.86 | 29.07 |
| Casing Color | | | | Warm Gray , Mornig Gray | Warm Gray , Mornig Gray |
| Compressor | Type | | | Hermetically Sealed Scroll | Hermetically Sealed Scroll |
| | Combination | | | (Inverter) x 3 | (Inverter) x 3 |
| | Piston Displacement | | $cm^3/rev$ | 43.8 + 43.8 + 43.8 | 43.8 + 43.8 + 43.8 |
| | Number of revolution | | rev/min | Inverter 3,600 at 60Hz | Inverter 3,600 at 60Hz |
| | Motor Output | | kW | 4.2 + 4.2 + 4.2 | 4.2 + 4.2 + 4.2 |
| | Starting Method | | | Direct On Line | Direct On Line |
| | Oil Type | | | FVC68D(PVE) | FVC68D(PVE) |
| Heat Exchanger | Type | | | Stainless Steel Plate | Stainless Steel Plate |
| | Maximum Pressure Resistance | | $kgf/cm^2$ | 45 | 45 |
| | Head Loss | | kPa | 36.5 + 36.5 + 28.6 | 36.5 + 36.5 + 36.5 |
| | Rated Water Flow | | LPM | 154 + 154 + 135 | 154 + 154 + 154 |
| Temp. range of Circulation water | Cooling | | | 10°C ~ 45°C(50°F ~ 113°F) | 10°C ~ 45°C(50°F ~ 113°F) |
| | Heating | | | -5°C ~ 45°C(23°F ~ 113°F) | -5°C ~ 45°C(23°F ~ 113°F) |
| Refrigerant Connecting Pipes | Liquid Pipes | | mm(inch) | 19.05(3/4) | 19.05(3/4) |
| | Gas Pipes | | mm(inch) | 41.3(1-5/8) | 41.3(1-5/8) |
| Water Connecting Pipes | Inlet | | mm | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Outlet | | mm | PT40 + PT40 + PT40 (Internal) | PT40 + PT40 + PT40 (Internal) |
| | Drain Outlet | | mm | PT20 (External) | PT20 (External) |
| Dimensions(WxHxD) | | | mm | (755 x 997 x 500) x 3 | (755 x 997 x 500) x 3 |
| | | | inch | (29-23/32 x 39-1/4 x 19-11/16) x 3 | (29-23/32 x 39-1/4 x 19-11/16) x 3 |
| Net Weight | | | kg | 127 x 3 | 127 x 3 |
| | | | lbs | 280 x 3 | 280 x 3 |
| Sound Pressure Level [3] | Cooling | | dB(A) | 63 | 64 |
| | Heating | | dB(A) | 63 | 64 |
| Sound Power Level [4] | Cooling | | dB(A) | 77 | 78 |
| | Heating | | dB(A) | 77 | 78 |
| Communication Cable | | | $No.x mm^2$(VCTF-SB) | 1.0 ~1.5 x 2C | 1.0 ~1.5 x 2C |
| Refrigerant | Name | | | R410A | R410A |
| | Charge Amount | | kg | 5.8 + 5.8 + 5.8 | 5.8 + 5.8 + 5.8 |
| | | | lbs | 12.8 + 12.8 + 12.8 | 12.8 + 12.8 + 12.8 |
| | Control Device | | | Electronic expansion valve | Electronic expansion valve |
| Power Supply | | | V, Ø, Hz | 220, 3, 60 | 220, 3, 60 |
| Maximum Connectable Number of Indoor Units | | | | 64 | 64 |

**Notes:**

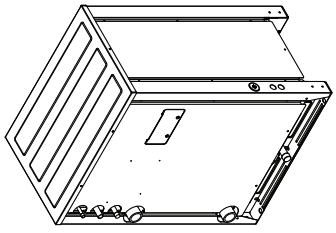
1. Capacities and Inputs are based on the following conditions
   Cooling : Indoor temp. 27°C [80.6°F]DB/19°C[66.2°F]WB
   Water inlet temp. 30°C[86°F]
   Heating : Indoor temp. 20°C[68°F]DB
   Water Inlet temp. 20°C[68°F]
   * Interconnecting Piping Length 7.5m (25 ft.)
   * Level Difference of Zero
2. Capacities are net capacities.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
4. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard.
5. Wiring cable size must comply with the applicable local and national code.
6. Due to our policy of innovation some specifications may be changed without prior notification.
7. Add an anti freeze to circulation water when outside units is operating under 10°C(50°F), and change the DIP switch on main PCB. (For more information, refer a installation manual.)

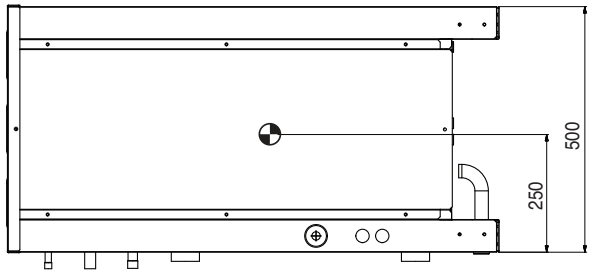
# 2. Dimensions

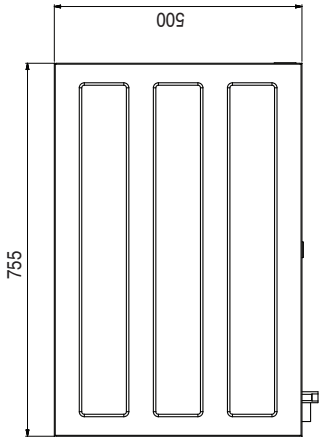


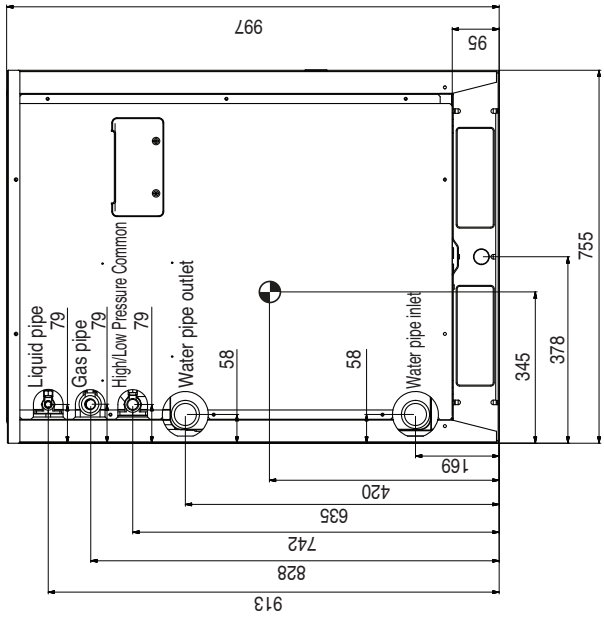
| UWC |
| --- |
| ARWN080BAS4<br>ARWN100BAS4<br>ARWN140BAS4<br>ARWN160BAS4 |

◒ Gravity point
[Unit : mm]



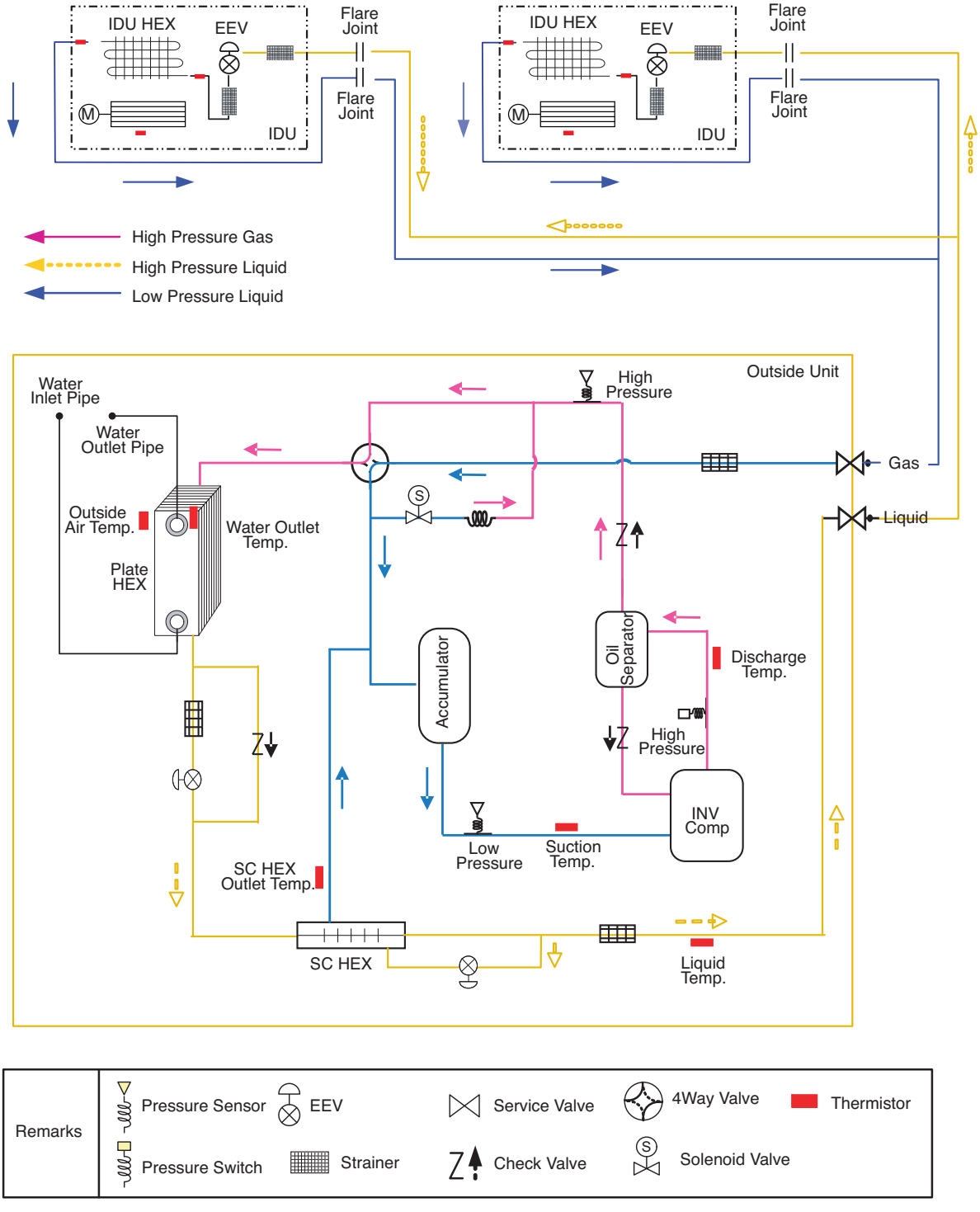


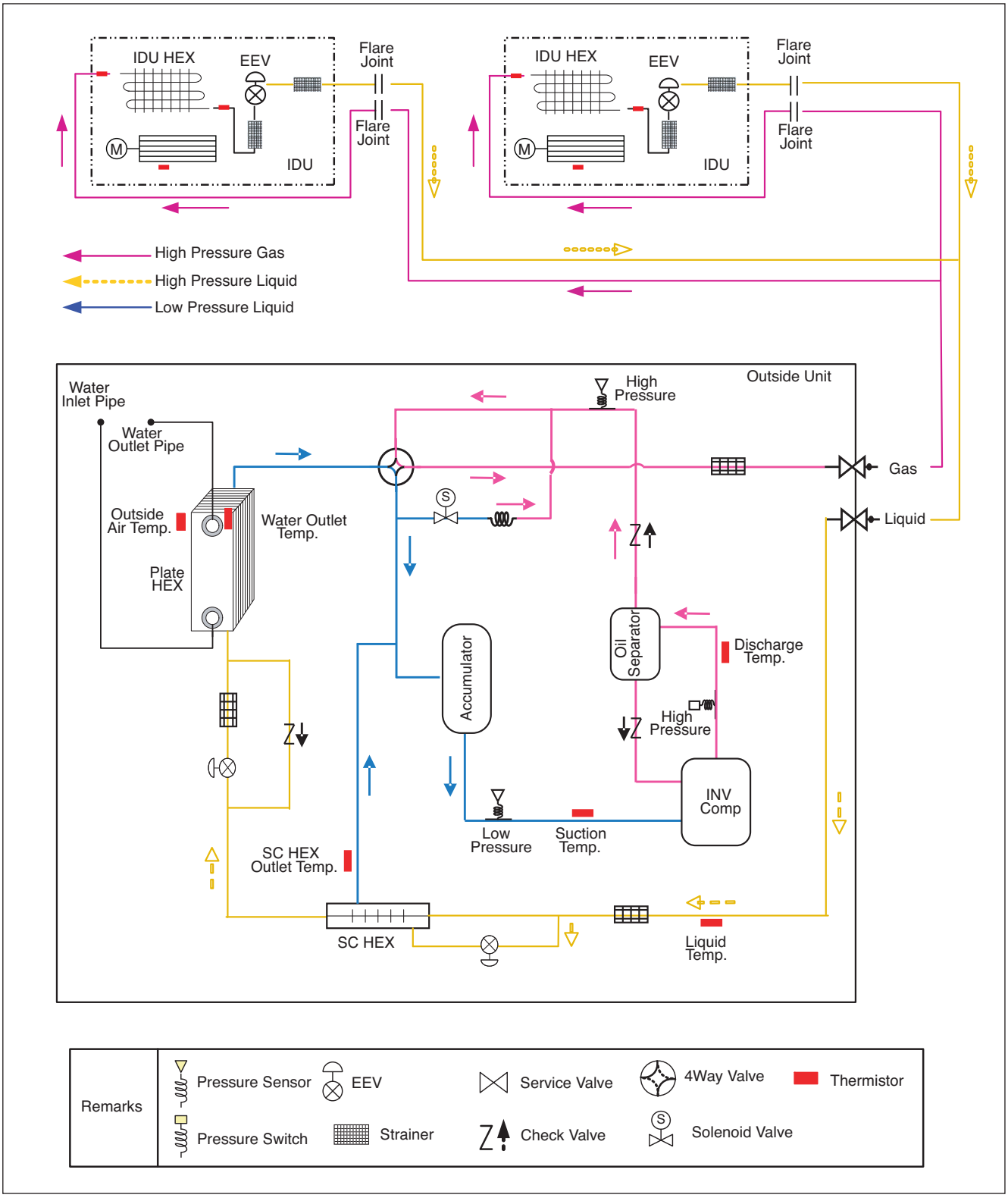



## ■ ARWN080BAS4, ARWN100BAS4, ARWN140BAS4, ARWN160BAS4

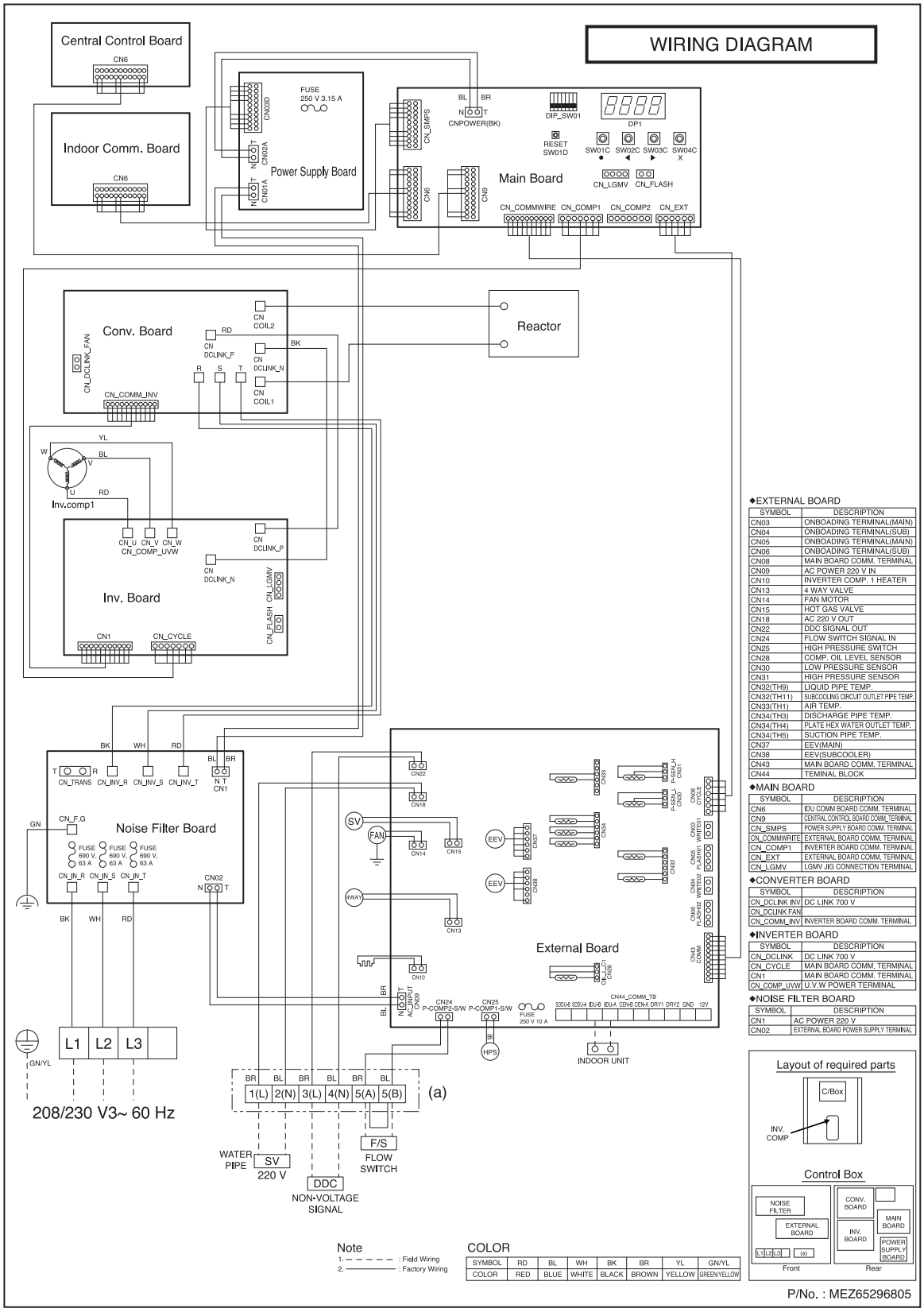
### Cooling Operation



## Heating Operation



## ■ ARWN080BAS4, ARWN100BAS4, ARWN140BAS4, ARWN160BAS4




◆EXTERNAL BOARD

| SYMBOL | DESCRIPTION |
|---|---|
| CN03 | ONBOADING TERMINAL(MAIN) |
| CN04 | ONBOADING TERMINAL(SUB) |
| CN05 | ONBOADING TERMINAL(MAIN) |
| CN06 | ONBOADING TERMINAL(SUB) |
| CN08 | MAIN BOARD COMM. TERMINAL |
| CN09 | AC POWER 220 V IN |
| CN10 | INVERTER COMP. 1 HEATER |
| CN13 | 4 WAY VALVE |
| CN14 | FAN MOTOR |
| CN15 | HOT GAS VALVE |
| CN18 | AC 220 V OUT |
| CN22 | DDC SIGNAL OUT |
| CN24 | FLOW SWITCH SIGNAL IN |
| CN25 | HIGH PRESSURE SWITCH |
| CN28 | COMP. OIL LEVEL SENSOR |
| CN30 | LOW PRESSURE SENSOR |
| CN31 | HIGH PRESSURE SENSOR |
| CN32(TH9) | LIQUID PIPE TEMP. |
| CN32(TH11) | SUBCOOLING CIRCUIT OUTLET PIPE TEMP. |
| CN33(TH1) | AIR TEMP. |
| CN34(TH3) | DISCHARGE PIPE TEMP. |
| CN34(TH4) | PLATE HEX WATER OUTLET TEMP. |
| CN34(TH5) | SUCTION PIPE TEMP. |
| CN37 | EEV(MAIN) |
| CN38 | EEV(SUBCOOLER) |
| CN43 | MAIN BOARD COMM. TERMINAL |
| CN44 | TEMINAL BLOCK |

◆MAIN BOARD

| SYMBOL | DESCRIPTION |
|---|---|
| CN6 | IDU COMM BOARD COMM. TERMINAL |
| CN9 | CENTRAL CONTROL BOARD COMM_TERMINAL |
| CN_SMPS | POWER SUPPLY BOARD COMM. TERMINAL |
| CN_COMMWRITE | EXTERNAL BOARD COMM. TERMINAL |
| CN_COMP1 | INVERTER BOARD COMM. TERMINAL |
| CN_EXT | EXTERNAL BOARD COMM. TERMINAL |
| CN_LGMV | LGMV JIG CONNECTION TERMINAL |

◆CONVERTER BOARD

| SYMBOL | DESCRIPTION |
|---|---|
| CN_DCLINK INV | DC LINK 700 V |
| CN_DCLINK FAN | |
| CN_COMM_INV | INVERTER BOARD COMM. TERMINAL |

◆INVERTER BOARD

| SYMBOL | DESCRIPTION |
|---|---|
| CN_DCLINK | DC LINK 700 V |
| CN_CYCLE | MAIN BOARD COMM. TERMINAL |
| CN1 | MAIN BOARD COMM. TERMINAL |
| CN_COMP_UVW | U.V.W POWER TERMINAL |

◆NOISE FILTER BOARD

| SYMBOL | DESCRIPTION |
|---|---|
| CN1 | AC POWER 220 V |
| CN02 | EXTERNAL BOARD POWER SUPPLY TERMINAL |

Note
1. - - - - - : Field Wiring
2. ——— : Factory Wiring

COLOR

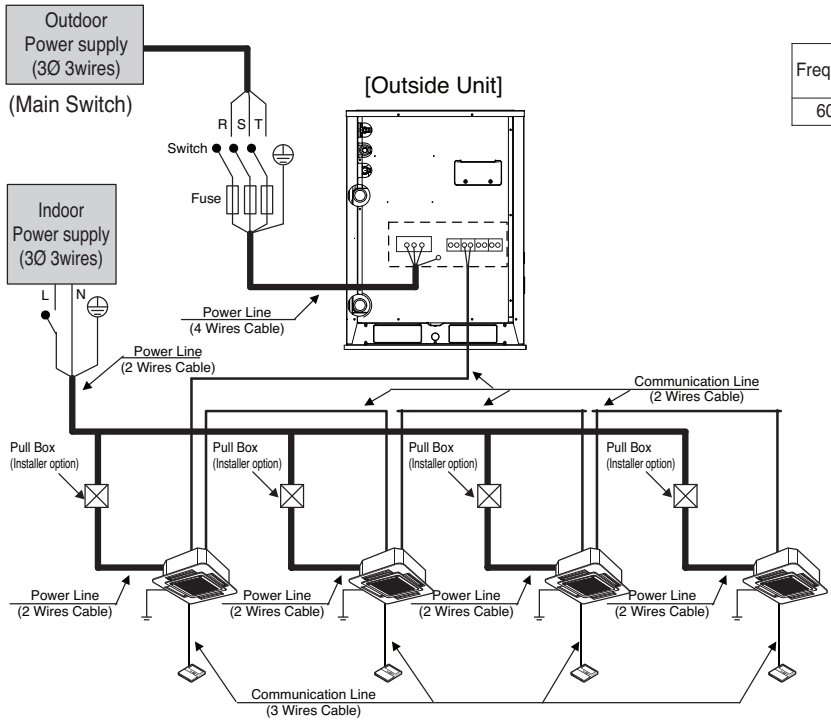
| SYMBOL | RD | BL | WH | BK | BR | YL | GN/YL |
|---|---|---|---|---|---|---|---|
| COLOR | RED | BLUE | WHITE | BLACK | BROWN | YELLOW | GREEN/YELLOW |

P/No. : MEZ65296805

Outside Units

## ◆ Example Connection of Communication Cable

### ■ Single Outside Unit - 3Ø, 220V

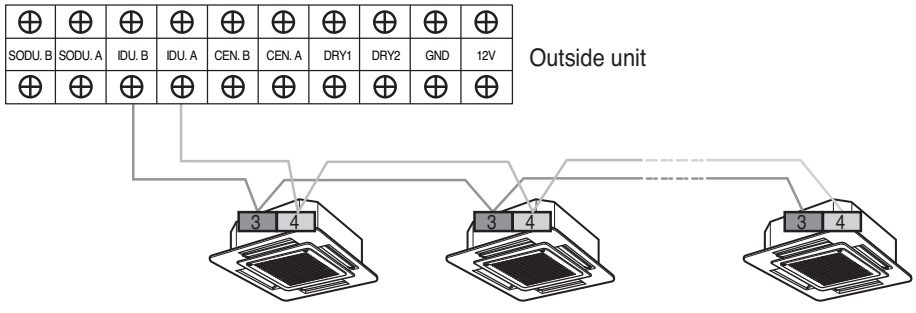



[Indoor Units]

| Frequency | Voltage range(V) | |
|---|---|---|
| | Outdoor | Indoor |
| 60Hz | 220V | 220V |

**⚠ WARNING**

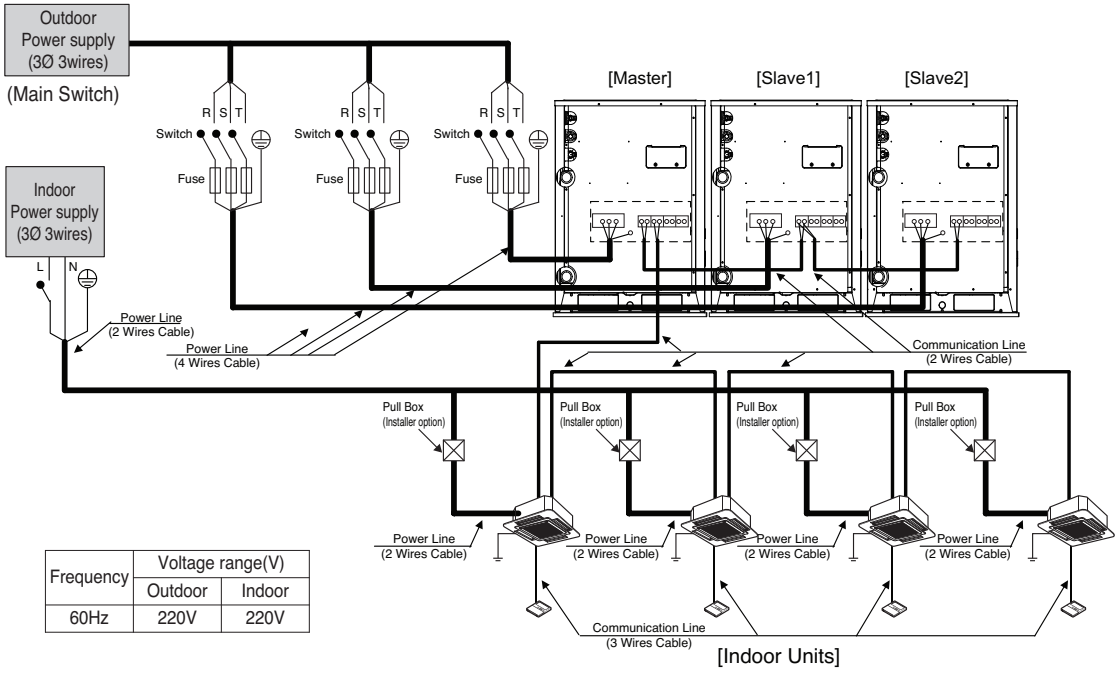
- **All installation site must require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.**
- **Indoor Unit ground Lines are required for preventing electrical shock accident during current leakage, Communication disorder by noise effect and motor current leakage (without connection to pipe).**
- **Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.**
- **Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.**
- **If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.**




The GND terminal is a '–' terminal for the central controller, not ground line

## ■ Series Outside Unit - 3Ø, 220V

■ When the power source is supplied to Each outside unit individually. (Don't' install the power source connection in series between the units.)



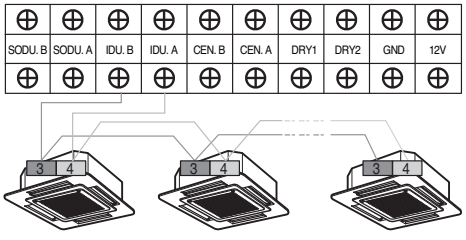

| Frequency | Voltage range(V) | |
|---|---|---|
| | Outdoor | Indoor |
| 60Hz | 220V | 220V |

## ⚠ WARNING

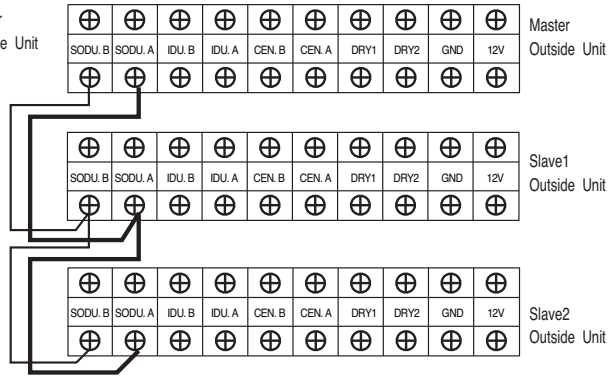
- **All installation site must require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.**
- **Indoor Unit ground Lines are required for preventing electrical shock accident during current leakage, Communication disorder by noise effect and motor current leakage (without connection to pipe).**
- **Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.**
- **Install the main switch that can interrupt all the power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.**
- **If there exists the possibility of reversed phase, lose phase, momentary blackout or the power goes on and off while the product is operating, attach a reversed phase protection circuit locally. Running the product in reversed phase may break the compressor and other parts.**

**[Heat Pump]**

Between Indoor and Master Outside unit




Master
Outside Unit



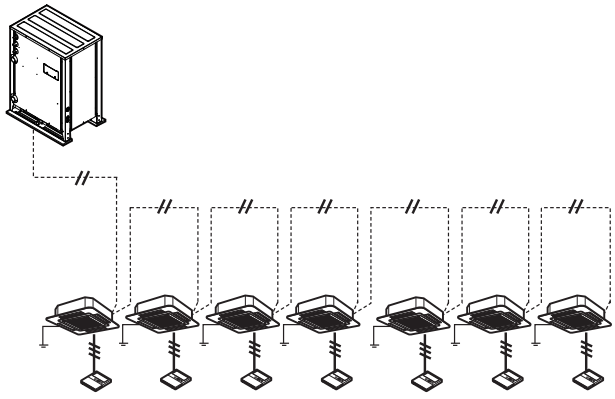

The GND terminal at the main PCB is a '-' terminal for dry contact.
It is not the point to make ground connection.

- Make sure that terminal number of master and slave Outside units are matched.(A-A,B-B)

## ◆ Example Connection of Communication Cable

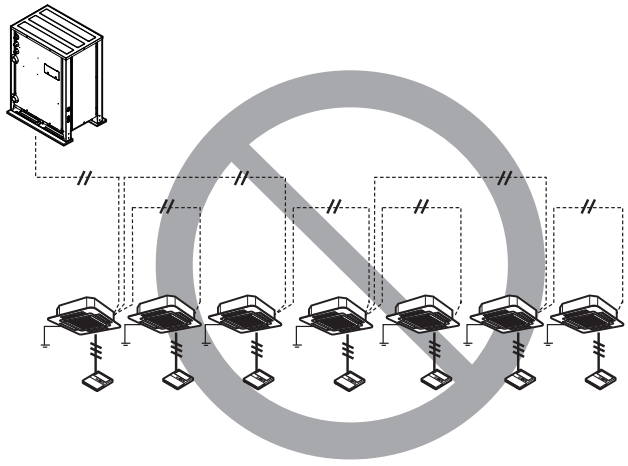
**[BUS type]**

- Connection of communication cable must be installed like below figure between indoor unit to outside unit.



**[STAR type]**

- Abnormal operation can be caused by communication defect, when connection of communication cable is installed like below figure(STAR type).



# 6. Electric Characteristics

## ◆ Wiring of Main Power Supply and Equipment Capacity

1. Use a separate power supply for the Outside Unit and Indoor Unit.
2. The wire size is the minimum value for metal conduit wiring. The power cord size should be 1 rank thicker taking into account the line voltage drops. Make sure the power-supply voltage does not drop more than 10%.
3. Specific wiring requirements should adhere to the wiring regulations of the region.
4. Power supply cords of parts of appliances for outside use should not be lighter than polychloroprene sheathed flexible cord.
5. Don't install an individual switch or electrical outlet to disconnect each of indoor unit separately from the power supply.

### ⚠ WARNING

- **Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.**
- **Make sure to use specified wires for connections so that no external force is imparted to terminal connections. If connections are not fixed firmly, it may cause heating or fire.**
- **Make sure to use the appropriate type of overcurrent protection switch. Note that generated overcurrent may include some amount of direct current.**

### ⚠ CAUTION

- **All installation site must require attachment of an earth leakage breaker. If no earth leakage breaker is installed, it may cause an electric shock.**
- **Do not use anything other than breaker and fuse with correct capacity. Using fuse and wire or copper wire with too large capacity may cause a malfunction of unit or fire.**

# 6. Electric Characteristics

## ■ Heat Pump (220V)

| Model | Unit | | | Power supply | | | Comp | |
|---|---|---|---|---|---|---|---|---|
| | Hz | Volts | Voltage-range | MCA | MFA | TOCA | RLA(Cooling) | RLA(Heating) |
| 8 HP | 60 | 220 | Min:198,Max:242 | 31.4 | 40.0 | 35.0 | 12.0 | 12.6 |
| 10 HP | 60 | 220 | Min:198,Max:242 | 32.0 | 40.0 | 35.0 | 16.4 | 16.4 |
| 14 HP | 60 | 220 | Min:198,Max:242 | 36.1 | 40.0 | 35.0 | 26.0 | 30.1 |
| 16 HP | 60 | 220 | Min:198,Max:242 | 38.3 | 45.0 | 35.0 | 29.0 | 31.9 |
| 18 HP | 60 | 220 | Min:198,Max:242 | 32.0 + 31.4 | 40.0 + 40.0 | 35.0 + 35.0 | 16.4 + 12.0 | 16.4 + 12.6 |
| 20 HP | 60 | 220 | Min:198,Max:242 | 32.6 + 31.4 | 40.0 + 40.0 | 35.0 + 35.0 | 20.0 + 12.0 | 22.2 + 12.6 |
| 22 HP | 60 | 220 | Min:198,Max:242 | 36.1 + 31.4 | 40.0 + 40.0 | 35.0 + 35.0 | 26.0 + 12.0 | 30.1 + 12.6 |
| 24 HP | 60 | 220 | Min:198,Max:242 | 38.3 + 31.4 | 45.0 + 40.0 | 35.0 + 35.0 | 29.0 + 12.0 | 31.9 + 12.6 |
| 26 HP | 60 | 220 | Min:198,Max:242 | 36.1 + 32.6 | 40.0 + 40.0 | 35.0 + 35.0 | 26.0 + 20.0 | 30.1 + 22.2 |
| 28 HP | 60 | 220 | Min:198,Max:242 | 36.1 + 36.1 | 40.0 + 40.0 | 35.0 + 35.0 | 26.0 + 26.0 | 30.1 + 30.1 |
| 30 HP | 60 | 220 | Min:198,Max:242 | 38.3 + 36.1 | 45.0 + 40.0 | 35.0 + 35.0 | 29.0 + 26.0 | 31.9 + 30.1 |
| 32 HP | 60 | 220 | Min:198,Max:242 | 38.3 + 38.3 | 45.0 + 45.0 | 35.0 + 35.0 | 29.0 + 29.0 | 31.9 + 31.9 |
| 34 HP | 60 | 220 | Min:198,Max:242 | 36.1 + 32.0 + 32.0 | 40.0 + 40.0 + 40.0 | 35.0 + 35.0 + 35.0 | 26.0 + 16.4 + 16.4 | 30.1 + 16.4 + 16.4 |
| 36 HP | 60 | 220 | Min:198,Max:242 | 36.1 + 36.1 + 31.4 | 40.0 + 40.0 + 40.0 | 35.0 + 35.0 + 35.0 | 26.0 + 26.0 + 12.0 | 30.1 + 30.1 + 12.6 |
| 38 HP | 60 | 220 | Min:198,Max:242 | 36.1 + 36.1 + 32.0 | 40.0 + 40.0 + 40.0 | 35.0 + 35.0 + 35.0 | 26.0 + 26.0 + 16.4 | 30.1 + 30.1 + 16.4 |
| 40 HP | 60 | 220 | Min:198,Max:242 | 38.3 + 38.3 + 31.4 | 45.0 + 45.0 + 40.0 | 35.0 + 35.0 + 35.0 | 29.0 + 29.0 + 12.0 | 31.9 + 31.9 + 12.6 |
| 42 HP | 60 | 220 | Min:198,Max:242 | 36.1 + 36.1 + 36.1 | 40.0 + 40.0 + 40.0 | 35.0 + 35.0 + 35.0 | 26.0 + 26.0 + 26.0 | 30.1 + 30.1 + 30.1 |
| 44 HP | 60 | 220 | Min:198,Max:242 | 38.3 + 36.1 + 36.1 | 45.0 + 40.0 + 40.0 | 35.0 + 35.0 + 35.0 | 29.0 + 26.0 + 26.0 | 31.9 + 30.1 + 30.1 |
| 46 HP | 60 | 220 | Min:198,Max:242 | 38.3 + 38.3 + 36.1 | 45.0 + 45.0 + 40.0 | 35.0 + 35.0 + 35.0 | 29.0 + 29.0 + 26.0 | 31.9 + 31.9 + 30.1 |
| 48 HP | 60 | 220 | Min:198,Max:242 | 38.3 + 38.3 + 38.3 | 45.0 + 45.0 + 45.0 | 35.0 + 35.0 + 35.0 | 29.0 + 29.0 + 29.0 | 31.9 + 31.9 + 31.9 |

**Notes:**

1. Voltage range
   Voltage supplied to the unit terminals should be within the minimum and maximum range.
2. Maximum allowable voltage unbalance between phase is 2 %
3. Select wire spec. based on the larger value of MCA or TOCA.
4. TOCA means the total over current value of each outside unit.
5. MSC means the Max. current during the starting of compressor.
6. MFA is used to select the circuit breaker and ground fault circuit interrupter, and all installation site must require attachment of an earth leakage breaker. [circuit breaker type is ELCB(Earth Leakage Circuit Breaker)]

MCA : Minimum Circuit Amperes (A)
MSC : Maximum Starting Current
RLA : Rated Load Amperes (A)
FLA : Full Load Amperes (A)
MFA: Maximum Fuse Amperes(A)
TOCA: Total Over Current Amperes(A)

# 7.1 Heat Pump

## 7.1.1 Cooling Capacity

**Cooling Capacity(8HP)**

### ARWN080BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 30.8 | 20.8 | 1.39 | 22.5 | 1.63 | 24.6 | 1.90 | 26.7 | 2.14 | 27.5 | 2.20 | 28.5 | 2.24 | 29.3 | 2.26 |
| | | 38.5 | 20.8 | 1.37 | 22.5 | 1.60 | 24.6 | 1.87 | 26.7 | 2.11 | 27.5 | 2.16 | 28.5 | 2.21 | 29.3 | 2.23 |
| | | 77.0 | 20.8 | 1.27 | 22.5 | 1.50 | 24.6 | 1.75 | 26.7 | 1.97 | 27.5 | 2.00 | 28.5 | 2.07 | 29.3 | 2.12 |
| | | 96.3 | 20.8 | 1.23 | 22.5 | 1.47 | 24.6 | 1.71 | 26.7 | 1.92 | 27.5 | 1.98 | 28.5 | 2.02 | 29.3 | 2.06 |
| | | 115.5 | 20.8 | 1.21 | 22.5 | 1.45 | 24.6 | 1.70 | 26.7 | 1.90 | 27.5 | 1.97 | 28.5 | 2.00 | 29.3 | 2.03 |
| | 15 | 30.8 | 20.5 | 1.84 | 22.2 | 2.14 | 24.2 | 2.49 | 26.3 | 2.81 | 27.0 | 2.88 | 28.1 | 2.94 | 28.9 | 2.99 |
| | | 38.5 | 20.5 | 1.80 | 22.2 | 2.10 | 24.2 | 2.45 | 26.3 | 2.76 | 27.0 | 2.83 | 28.1 | 2.90 | 28.9 | 2.94 |
| | | 77.0 | 20.5 | 1.66 | 22.2 | 1.97 | 24.2 | 2.29 | 26.3 | 2.58 | 27.0 | 2.64 | 28.1 | 2.72 | 28.9 | 2.77 |
| | | 96.3 | 20.5 | 1.61 | 22.2 | 1.92 | 24.2 | 2.24 | 26.3 | 2.53 | 27.0 | 2.59 | 28.1 | 2.66 | 28.9 | 2.71 |
| | | 115.5 | 20.5 | 1.59 | 22.2 | 1.90 | 24.2 | 2.22 | 26.3 | 2.50 | 27.0 | 2.57 | 28.1 | 2.63 | 28.9 | 2.67 |
| | 20 | 30.8 | 20.2 | 2.23 | 21.9 | 2.59 | 23.8 | 3.02 | 25.9 | 3.40 | 26.7 | 3.48 | 27.7 | 3.56 | 28.5 | 3.63 |
| | | 38.5 | 20.2 | 2.19 | 21.9 | 2.55 | 23.8 | 2.97 | 25.9 | 3.35 | 26.7 | 3.42 | 27.7 | 3.51 | 28.5 | 3.57 |
| | | 77.0 | 20.2 | 2.01 | 21.9 | 2.39 | 23.8 | 2.77 | 25.9 | 3.13 | 26.7 | 3.21 | 27.7 | 3.29 | 28.5 | 3.36 |
| | | 96.3 | 20.2 | 1.95 | 21.9 | 2.33 | 23.8 | 2.72 | 25.9 | 3.07 | 26.7 | 3.14 | 27.7 | 3.23 | 28.5 | 3.28 |
| | | 115.5 | 20.2 | 1.92 | 21.9 | 2.30 | 23.8 | 2.69 | 25.9 | 3.03 | 26.7 | 3.11 | 27.7 | 3.19 | 28.5 | 3.24 |
| | 25 | 30.8 | 20.2 | 2.75 | 21.9 | 3.19 | 23.8 | 3.72 | 25.9 | 4.19 | 26.7 | 4.29 | 27.7 | 4.40 | 28.5 | 4.47 |
| | | 38.5 | 20.2 | 2.70 | 21.9 | 3.14 | 23.8 | 3.66 | 25.9 | 4.12 | 26.7 | 4.23 | 27.7 | 4.33 | 28.5 | 4.40 |
| | | 77.0 | 20.2 | 2.48 | 21.9 | 2.94 | 23.8 | 3.42 | 25.9 | 3.86 | 26.7 | 3.95 | 27.7 | 4.06 | 28.5 | 4.14 |
| | | 96.3 | 20.2 | 2.41 | 21.9 | 2.88 | 23.8 | 3.36 | 25.9 | 3.78 | 26.7 | 3.88 | 27.7 | 3.98 | 28.5 | 4.05 |
| | | 115.5 | 20.2 | 2.38 | 21.9 | 2.84 | 23.8 | 3.32 | 25.9 | 3.74 | 26.7 | 3.84 | 27.7 | 3.94 | 28.5 | 4.00 |
| | 30 | 30.8 | 20.2 | 3.30 | 21.9 | 3.83 | 23.8 | 4.47 | 25.9 | 5.03 | 26.7 | 5.15 | 27.7 | 5.28 | 28.5 | 5.36 |
| | | 38.5 | 20.2 | 3.24 | 21.9 | 3.77 | 23.8 | 4.40 | 25.9 | 4.95 | 26.7 | 5.06 | 27.7 | 5.20 | 28.5 | 5.28 |
| | | 77.0 | 20.2 | 2.97 | 21.9 | 3.53 | 23.8 | 4.11 | 25.9 | 4.63 | 26.7 | 4.74 | 27.7 | 4.87 | 28.5 | 4.97 |
| | | 96.3 | 20.2 | 2.90 | 21.9 | 3.45 | 23.8 | 4.03 | 25.9 | 4.54 | 26.7 | 4.66 | 27.7 | 4.77 | 28.5 | 4.86 |
| | | 115.5 | 20.2 | 2.86 | 21.9 | 3.41 | 23.8 | 3.99 | 25.9 | 4.49 | 26.7 | 4.62 | 27.7 | 4.73 | 28.5 | 4.80 |
| | 35 | 30.8 | 18.2 | 3.34 | 19.7 | 3.88 | 21.4 | 4.51 | 23.3 | 5.09 | 24.0 | 5.20 | 24.9 | 5.34 | 25.6 | 5.43 |
| | | 38.5 | 18.2 | 3.27 | 19.7 | 3.82 | 21.4 | 4.44 | 23.3 | 5.01 | 24.0 | 5.12 | 24.9 | 5.25 | 25.6 | 5.35 |
| | | 77.0 | 18.2 | 3.01 | 19.7 | 3.57 | 21.4 | 4.16 | 23.3 | 4.68 | 24.0 | 4.80 | 24.9 | 4.92 | 25.6 | 5.02 |
| | | 96.3 | 18.2 | 2.92 | 19.7 | 3.49 | 21.4 | 4.07 | 23.3 | 4.58 | 24.0 | 4.71 | 24.9 | 4.83 | 25.6 | 4.91 |
| | | 115.5 | 18.2 | 2.88 | 19.7 | 3.45 | 21.4 | 4.03 | 23.3 | 4.54 | 24.0 | 4.66 | 24.9 | 4.78 | 25.6 | 4.86 |
| | 40 | 30.8 | 16.1 | 3.52 | 17.5 | 4.09 | 19.0 | 4.76 | 20.7 | 5.37 | 21.3 | 5.49 | 22.2 | 5.62 | 22.8 | 5.73 |
| | | 38.5 | 16.1 | 3.45 | 17.5 | 4.03 | 19.0 | 4.69 | 20.7 | 5.28 | 21.3 | 5.40 | 22.2 | 5.54 | 22.8 | 5.64 |
| | | 77.0 | 16.1 | 3.17 | 17.5 | 3.76 | 19.0 | 4.39 | 20.7 | 4.93 | 21.3 | 5.06 | 22.2 | 5.20 | 22.8 | 5.30 |
| | | 96.3 | 16.1 | 3.08 | 17.5 | 3.68 | 19.0 | 4.29 | 20.7 | 4.84 | 21.3 | 4.96 | 22.2 | 5.09 | 22.8 | 5.18 |
| | | 115.5 | 16.1 | 3.04 | 17.5 | 3.64 | 19.0 | 4.24 | 20.7 | 4.79 | 21.3 | 4.91 | 22.2 | 5.04 | 22.8 | 5.12 |
| | 45 | 30.8 | 14.1 | 3.71 | 15.3 | 4.30 | 16.6 | 5.01 | 18.1 | 5.65 | 18.6 | 5.78 | 19.4 | 5.91 | 19.9 | 6.02 |
| | | 38.5 | 14.1 | 3.63 | 15.3 | 4.23 | 16.6 | 4.93 | 18.1 | 5.56 | 18.6 | 5.69 | 19.4 | 5.82 | 19.9 | 5.93 |
| | | 77.0 | 14.1 | 3.33 | 15.3 | 3.96 | 16.6 | 4.61 | 18.1 | 5.19 | 18.6 | 5.31 | 19.4 | 5.47 | 19.9 | 5.58 |
| | | 96.3 | 14.1 | 3.24 | 15.3 | 3.87 | 16.6 | 4.51 | 18.1 | 5.09 | 18.6 | 5.22 | 19.4 | 5.36 | 19.9 | 5.44 |
| | | 115.5 | 14.1 | 3.20 | 15.3 | 3.82 | 16.6 | 4.46 | 18.1 | 5.05 | 18.6 | 5.17 | 19.4 | 5.30 | 19.9 | 5.37 |
| 120 | 10 | 30.8 | 19.7 | 1.33 | 21.3 | 1.54 | 23.2 | 1.81 | 25.3 | 2.03 | 26.0 | 2.09 | 27.0 | 2.13 | 27.8 | 2.17 |
| | | 38.5 | 19.7 | 1.30 | 21.3 | 1.51 | 23.2 | 1.78 | 25.3 | 1.99 | 26.0 | 2.05 | 27.0 | 2.09 | 27.8 | 2.13 |
| | | 77.0 | 19.7 | 1.19 | 21.3 | 1.41 | 23.2 | 1.65 | 25.3 | 1.87 | 26.0 | 1.90 | 27.0 | 1.96 | 27.8 | 1.98 |
| | | 96.3 | 19.7 | 1.18 | 21.3 | 1.38 | 23.2 | 1.63 | 25.3 | 1.83 | 26.0 | 1.87 | 27.0 | 1.92 | 27.8 | 1.95 |
| | | 115.5 | 19.7 | 1.17 | 21.3 | 1.37 | 23.2 | 1.62 | 25.3 | 1.81 | 26.0 | 1.85 | 27.0 | 1.90 | 27.8 | 1.93 |
| | 15 | 30.8 | 19.5 | 1.76 | 21.1 | 2.04 | 23.0 | 2.39 | 25.0 | 2.68 | 25.7 | 2.75 | 26.7 | 2.82 | 27.5 | 2.87 |
| | | 38.5 | 19.5 | 1.73 | 21.1 | 2.01 | 23.0 | 2.35 | 25.0 | 2.64 | 25.7 | 2.71 | 26.7 | 2.77 | 27.5 | 2.82 |
| | | 77.0 | 19.5 | 1.58 | 21.1 | 1.88 | 23.0 | 2.19 | 25.0 | 2.47 | 25.7 | 2.53 | 26.7 | 2.59 | 27.5 | 2.64 |
| | | 96.3 | 19.5 | 1.55 | 21.1 | 1.84 | 23.0 | 2.15 | 25.0 | 2.42 | 25.7 | 2.48 | 26.7 | 2.55 | 27.5 | 2.58 |
| | | 115.5 | 19.5 | 1.53 | 21.1 | 1.82 | 23.0 | 2.13 | 25.0 | 2.40 | 25.7 | 2.46 | 26.7 | 2.52 | 27.5 | 2.56 |
| | 20 | 30.8 | 19.3 | 2.15 | 20.9 | 2.49 | 22.7 | 2.91 | 24.7 | 3.27 | 25.4 | 3.34 | 26.4 | 3.43 | 27.2 | 3.49 |
| | | 38.5 | 19.3 | 2.10 | 20.9 | 2.45 | 22.7 | 2.86 | 24.7 | 3.22 | 25.4 | 3.29 | 26.4 | 3.38 | 27.2 | 3.43 |
| | | 77.0 | 19.3 | 1.93 | 20.9 | 2.29 | 22.7 | 2.67 | 24.7 | 3.01 | 25.4 | 3.08 | 26.4 | 3.16 | 27.2 | 3.23 |
| | | 96.3 | 19.3 | 1.88 | 20.9 | 2.24 | 22.7 | 2.61 | 24.7 | 2.95 | 25.4 | 3.03 | 26.4 | 3.10 | 27.2 | 3.15 |
| | | 115.5 | 19.3 | 1.85 | 20.9 | 2.22 | 22.7 | 2.58 | 24.7 | 2.92 | 25.4 | 3.00 | 26.4 | 3.07 | 27.2 | 3.11 |
| | 25 | 30.8 | 19.3 | 2.64 | 20.9 | 3.06 | 22.7 | 3.57 | 24.7 | 4.02 | 25.4 | 4.11 | 26.4 | 4.22 | 27.2 | 4.29 |
| | | 38.5 | 19.3 | 2.58 | 20.9 | 3.01 | 22.7 | 3.51 | 24.7 | 3.95 | 25.4 | 4.05 | 26.4 | 4.15 | 27.2 | 4.23 |
| | | 77.0 | 19.3 | 2.38 | 20.9 | 2.82 | 22.7 | 3.28 | 24.7 | 3.70 | 25.4 | 3.78 | 26.4 | 3.89 | 27.2 | 3.96 |
| | | 96.3 | 19.3 | 2.31 | 20.9 | 2.75 | 22.7 | 3.22 | 24.7 | 3.62 | 25.4 | 3.72 | 26.4 | 3.81 | 27.2 | 3.87 |
| | | 115.5 | 19.3 | 2.28 | 20.9 | 2.72 | 22.7 | 3.18 | 24.7 | 3.58 | 25.4 | 3.68 | 26.4 | 3.77 | 27.2 | 3.82 |
| | 30 | 30.8 | 19.3 | 3.18 | 20.9 | 3.70 | 22.7 | 4.31 | 24.7 | 4.86 | 25.4 | 4.98 | 26.4 | 5.10 | 27.2 | 5.18 |
| | | 38.5 | 19.3 | 3.12 | 20.9 | 3.64 | 22.7 | 4.24 | 24.7 | 4.78 | 25.4 | 4.90 | 26.4 | 5.02 | 27.2 | 5.10 |
| | | 77.0 | 19.3 | 2.88 | 20.9 | 3.40 | 22.7 | 3.97 | 24.7 | 4.47 | 25.4 | 4.57 | 26.4 | 4.70 | 27.2 | 4.79 |
| | | 96.3 | 19.3 | 2.79 | 20.9 | 3.33 | 22.7 | 3.89 | 24.7 | 4.38 | 25.4 | 4.49 | 26.4 | 4.61 | 27.2 | 4.68 |
| | | 115.5 | 19.3 | 2.75 | 20.9 | 3.29 | 22.7 | 3.84 | 24.7 | 4.33 | 25.4 | 4.45 | 26.4 | 4.57 | 27.2 | 4.62 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 30.8 | 17.6 | 3.26 | 19.1 | 3.80 | 20.8 | 4.42 | 22.6 | 4.97 | 23.3 | 5.10 | 24.2 | 5.22 | 24.9 | 5.32 |
| | | 38.5 | 17.6 | 3.20 | 19.1 | 3.74 | 20.8 | 4.35 | 22.6 | 4.90 | 23.3 | 5.02 | 24.2 | 5.14 | 24.9 | 5.23 |
| | | 77.0 | 17.6 | 2.94 | 19.1 | 3.49 | 20.8 | 4.07 | 22.6 | 4.58 | 23.3 | 4.70 | 24.2 | 4.82 | 24.9 | 4.90 |
| | | 96.3 | 17.6 | 2.87 | 19.1 | 3.41 | 20.8 | 3.98 | 22.6 | 4.49 | 23.3 | 4.60 | 24.2 | 4.73 | 24.9 | 4.79 |
| | | 115.5 | 17.6 | 2.83 | 19.1 | 3.38 | 20.8 | 3.94 | 22.6 | 4.44 | 23.3 | 4.56 | 24.2 | 4.68 | 24.9 | 4.74 |
| | 40 | 30.8 | 16.0 | 3.51 | 17.3 | 4.08 | 18.9 | 4.75 | 20.5 | 5.36 | 21.1 | 5.48 | 22.0 | 5.62 | 22.6 | 5.72 |
| | | 38.5 | 16.0 | 3.44 | 17.3 | 4.02 | 18.9 | 4.68 | 20.5 | 5.27 | 21.1 | 5.40 | 22.0 | 5.53 | 22.6 | 5.63 |
| | | 77.0 | 16.0 | 3.17 | 17.3 | 3.75 | 18.9 | 4.38 | 20.5 | 4.93 | 21.1 | 5.05 | 22.0 | 5.18 | 22.6 | 5.28 |
| | | 96.3 | 16.0 | 3.08 | 17.3 | 3.68 | 18.9 | 4.29 | 20.5 | 4.83 | 21.1 | 4.95 | 22.0 | 5.08 | 22.6 | 5.16 |
| | | 115.5 | 16.0 | 3.04 | 17.3 | 3.64 | 18.9 | 4.25 | 20.5 | 4.78 | 21.1 | 4.90 | 22.0 | 5.04 | 22.6 | 5.10 |
| | 45 | 30.8 | 14.4 | 3.76 | 15.6 | 4.37 | 17.0 | 5.09 | 18.4 | 5.74 | 18.9 | 5.87 | 19.7 | 6.01 | 20.3 | 6.12 |
| | | 38.5 | 14.4 | 3.69 | 15.6 | 4.30 | 17.0 | 5.01 | 18.4 | 5.65 | 18.9 | 5.77 | 19.7 | 5.91 | 20.3 | 6.03 |
| | | 77.0 | 14.4 | 3.40 | 15.6 | 4.02 | 17.0 | 4.69 | 18.4 | 5.28 | 18.9 | 5.40 | 19.7 | 5.54 | 20.3 | 5.66 |
| | | 96.3 | 14.4 | 3.30 | 15.6 | 3.94 | 17.0 | 4.60 | 18.4 | 5.17 | 18.9 | 5.30 | 19.7 | 5.44 | 20.3 | 5.53 |
| | | 115.5 | 14.4 | 3.25 | 15.6 | 3.90 | 17.0 | 4.56 | 18.4 | 5.11 | 18.9 | 5.25 | 19.7 | 5.40 | 20.3 | 5.46 |
| 110 | 10 | 30.8 | 18.6 | 1.26 | 20.1 | 1.46 | 21.9 | 1.69 | 23.8 | 1.91 | 24.5 | 1.94 | 25.5 | 2.01 | 26.2 | 2.03 |
| | | 38.5 | 18.6 | 1.24 | 20.1 | 1.44 | 21.9 | 1.66 | 23.8 | 1.88 | 24.5 | 1.92 | 25.5 | 1.97 | 26.2 | 2.00 |
| | | 77.0 | 18.6 | 1.14 | 20.1 | 1.34 | 21.9 | 1.56 | 23.8 | 1.76 | 24.5 | 1.81 | 25.5 | 1.83 | 26.2 | 1.87 |
| | | 96.3 | 18.6 | 1.10 | 20.1 | 1.31 | 21.9 | 1.53 | 23.8 | 1.73 | 24.5 | 1.76 | 25.5 | 1.80 | 26.2 | 1.85 |
| | | 115.5 | 18.6 | 1.08 | 20.1 | 1.30 | 21.9 | 1.51 | 23.8 | 1.71 | 24.5 | 1.74 | 25.5 | 1.78 | 26.2 | 1.83 |
| | 15 | 30.8 | 18.5 | 1.68 | 20.0 | 1.96 | 21.8 | 2.27 | 23.7 | 2.56 | 24.4 | 2.62 | 25.4 | 2.68 | 26.0 | 2.73 |
| | | 38.5 | 18.5 | 1.65 | 20.0 | 1.92 | 21.8 | 2.24 | 23.7 | 2.52 | 24.4 | 2.57 | 25.4 | 2.64 | 26.0 | 2.69 |
| | | 77.0 | 18.5 | 1.52 | 20.0 | 1.79 | 21.8 | 2.09 | 23.7 | 2.36 | 24.4 | 2.41 | 25.4 | 2.47 | 26.0 | 2.52 |
| | | 96.3 | 18.5 | 1.47 | 20.0 | 1.75 | 21.8 | 2.05 | 23.7 | 2.31 | 24.4 | 2.37 | 25.4 | 2.42 | 26.0 | 2.46 |
| | | 115.5 | 18.5 | 1.45 | 20.0 | 1.74 | 21.8 | 2.02 | 23.7 | 2.29 | 24.4 | 2.34 | 25.4 | 2.40 | 26.0 | 2.43 |
| | 20 | 30.8 | 18.4 | 2.06 | 19.9 | 2.40 | 21.7 | 2.79 | 23.6 | 3.13 | 24.3 | 3.21 | 25.2 | 3.29 | 25.9 | 3.35 |
| | | 38.5 | 18.4 | 2.02 | 19.9 | 2.36 | 21.7 | 2.74 | 23.6 | 3.08 | 24.3 | 3.16 | 25.2 | 3.24 | 25.9 | 3.30 |
| | | 77.0 | 18.4 | 1.86 | 19.9 | 2.20 | 21.7 | 2.57 | 23.6 | 2.89 | 24.3 | 2.95 | 25.2 | 3.04 | 25.9 | 3.09 |
| | | 96.3 | 18.4 | 1.80 | 19.9 | 2.15 | 21.7 | 2.51 | 23.6 | 2.83 | 24.3 | 2.91 | 25.2 | 2.98 | 25.9 | 3.01 |
| | | 115.5 | 18.4 | 1.77 | 19.9 | 2.13 | 21.7 | 2.48 | 23.6 | 2.80 | 24.3 | 2.88 | 25.2 | 2.95 | 25.9 | 2.97 |
| | 25 | 30.8 | 18.4 | 2.52 | 19.9 | 2.93 | 21.7 | 3.41 | 23.6 | 3.84 | 24.3 | 3.93 | 25.2 | 4.02 | 25.9 | 4.10 |
| | | 38.5 | 18.4 | 2.47 | 19.9 | 2.89 | 21.7 | 3.36 | 23.6 | 3.78 | 24.3 | 3.87 | 25.2 | 3.96 | 25.9 | 4.04 |
| | | 77.0 | 18.4 | 2.27 | 19.9 | 2.70 | 21.7 | 3.14 | 23.6 | 3.54 | 24.3 | 3.62 | 25.2 | 3.72 | 25.9 | 3.78 |
| | | 96.3 | 18.4 | 2.21 | 19.9 | 2.64 | 21.7 | 3.07 | 23.6 | 3.46 | 24.3 | 3.56 | 25.2 | 3.64 | 25.9 | 3.69 |
| | | 115.5 | 18.4 | 2.17 | 19.9 | 2.61 | 21.7 | 3.04 | 23.6 | 3.42 | 24.3 | 3.52 | 25.2 | 3.60 | 25.9 | 3.64 |
| | 30 | 30.8 | 18.4 | 3.07 | 19.9 | 3.58 | 21.7 | 4.16 | 23.6 | 4.69 | 24.3 | 4.79 | 25.2 | 4.92 | 25.9 | 5.00 |
| | | 38.5 | 18.4 | 3.01 | 19.9 | 3.52 | 21.7 | 4.09 | 23.6 | 4.61 | 24.3 | 4.72 | 25.2 | 4.84 | 25.9 | 4.92 |
| | | 77.0 | 18.4 | 2.77 | 19.9 | 3.28 | 21.7 | 3.83 | 23.6 | 4.31 | 24.3 | 4.41 | 25.2 | 4.53 | 25.9 | 4.61 |
| | | 96.3 | 18.4 | 2.70 | 19.9 | 3.22 | 21.7 | 3.74 | 23.6 | 4.23 | 24.3 | 4.33 | 25.2 | 4.44 | 25.9 | 4.50 |
| | | 115.5 | 18.4 | 2.66 | 19.9 | 3.18 | 21.7 | 3.70 | 23.6 | 4.18 | 24.3 | 4.29 | 25.2 | 4.40 | 25.9 | 4.44 |
| | 35 | 30.8 | 17.1 | 3.20 | 18.5 | 3.71 | 20.2 | 4.32 | 22.0 | 4.87 | 22.6 | 4.98 | 23.5 | 5.11 | 24.1 | 5.20 |
| | | 38.5 | 17.1 | 3.13 | 18.5 | 3.65 | 20.2 | 4.25 | 22.0 | 4.79 | 22.6 | 4.90 | 23.5 | 5.03 | 24.1 | 5.12 |
| | | 77.0 | 17.1 | 2.88 | 18.5 | 3.41 | 20.2 | 3.98 | 22.0 | 4.48 | 22.6 | 4.59 | 23.5 | 4.71 | 24.1 | 4.79 |
| | | 96.3 | 17.1 | 2.80 | 18.5 | 3.34 | 20.2 | 3.90 | 22.0 | 4.40 | 22.6 | 4.50 | 23.5 | 4.62 | 24.1 | 4.68 |
| | | 115.5 | 17.1 | 2.76 | 18.5 | 3.30 | 20.2 | 3.85 | 22.0 | 4.35 | 22.6 | 4.45 | 23.5 | 4.58 | 24.1 | 4.62 |
| | 40 | 30.8 | 15.9 | 3.51 | 17.2 | 4.07 | 18.7 | 4.76 | 20.3 | 5.35 | 20.9 | 5.47 | 21.8 | 5.61 | 22.4 | 5.71 |
| | | 38.5 | 15.9 | 3.44 | 17.2 | 4.01 | 18.7 | 4.68 | 20.3 | 5.26 | 20.9 | 5.39 | 21.8 | 5.52 | 22.4 | 5.62 |
| | | 77.0 | 15.9 | 3.16 | 17.2 | 3.75 | 18.7 | 4.37 | 20.3 | 4.92 | 20.9 | 5.04 | 21.8 | 5.17 | 22.4 | 5.27 |
| | | 96.3 | 15.9 | 3.07 | 17.2 | 3.67 | 18.7 | 4.28 | 20.3 | 4.83 | 20.9 | 4.94 | 21.8 | 5.07 | 22.4 | 5.14 |
| | | 115.5 | 15.9 | 3.03 | 17.2 | 3.63 | 18.7 | 4.24 | 20.3 | 4.78 | 20.9 | 4.90 | 21.8 | 5.03 | 22.4 | 5.07 |
| | 45 | 30.8 | 14.6 | 3.83 | 15.8 | 4.44 | 17.3 | 5.19 | 18.7 | 5.83 | 19.3 | 5.96 | 20.1 | 6.10 | 20.6 | 6.21 |
| | | 38.5 | 14.6 | 3.75 | 15.8 | 4.37 | 17.3 | 5.10 | 18.7 | 5.73 | 19.3 | 5.87 | 20.1 | 6.01 | 20.6 | 6.12 |
| | | 77.0 | 14.6 | 3.44 | 15.8 | 4.09 | 17.3 | 4.75 | 18.7 | 5.37 | 19.3 | 5.48 | 20.1 | 5.63 | 20.6 | 5.75 |
| | | 96.3 | 14.6 | 3.35 | 15.8 | 4.00 | 17.3 | 4.67 | 18.7 | 5.26 | 19.3 | 5.39 | 20.1 | 5.53 | 20.6 | 5.60 |
| | | 115.5 | 14.6 | 3.30 | 15.8 | 3.95 | 17.3 | 4.63 | 18.7 | 5.21 | 19.3 | 5.34 | 20.1 | 5.48 | 20.6 | 5.53 |
| 100 | 10 | 30.8 | 17.5 | 1.17 | 18.9 | 1.38 | 20.6 | 1.59 | 22.4 | 1.78 | 23.1 | 1.83 | 24.0 | 1.89 | 24.6 | 1.93 |
| | | 38.5 | 17.5 | 1.15 | 18.9 | 1.35 | 20.6 | 1.57 | 22.4 | 1.76 | 23.1 | 1.81 | 24.0 | 1.86 | 24.6 | 1.90 |
| | | 77.0 | 17.5 | 1.06 | 18.9 | 1.25 | 20.6 | 1.47 | 22.4 | 1.66 | 23.1 | 1.71 | 24.0 | 1.74 | 24.6 | 1.76 |
| | | 96.3 | 17.5 | 1.04 | 18.9 | 1.22 | 20.6 | 1.44 | 22.4 | 1.61 | 23.1 | 1.66 | 24.0 | 1.71 | 24.6 | 1.73 |
| | | 115.5 | 17.5 | 1.04 | 18.9 | 1.21 | 20.6 | 1.43 | 22.4 | 1.59 | 23.1 | 1.64 | 24.0 | 1.69 | 24.6 | 1.72 |
| | 15 | 30.8 | 17.5 | 1.60 | 18.9 | 1.86 | 20.6 | 2.17 | 22.4 | 2.43 | 23.1 | 2.49 | 24.0 | 2.56 | 24.6 | 2.61 |
| | | 38.5 | 17.5 | 1.57 | 18.9 | 1.83 | 20.6 | 2.13 | 22.4 | 2.40 | 23.1 | 2.45 | 24.0 | 2.52 | 24.6 | 2.57 |
| | | 77.0 | 17.5 | 1.44 | 18.9 | 1.71 | 20.6 | 1.99 | 22.4 | 2.24 | 23.1 | 2.30 | 24.0 | 2.36 | 24.6 | 2.40 |
| | | 96.3 | 17.5 | 1.41 | 18.9 | 1.67 | 20.6 | 1.95 | 22.4 | 2.20 | 23.1 | 2.25 | 24.0 | 2.31 | 24.6 | 2.34 |
| | | 115.5 | 17.5 | 1.39 | 18.9 | 1.65 | 20.6 | 1.93 | 22.4 | 2.17 | 23.1 | 2.23 | 24.0 | 2.29 | 24.6 | 2.31 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 30.8 | 17.5 | 1.97 | 18.9 | 2.29 | 20.6 | 2.68 | 22.4 | 3.01 | 23.1 | 3.08 | 24.0 | 3.15 | 24.6 | 3.21 |
| | | 38.5 | 17.5 | 1.93 | 18.9 | 2.25 | 20.6 | 2.63 | 22.4 | 2.96 | 23.1 | 3.03 | 24.0 | 3.10 | 24.6 | 3.16 |
| | | 77.0 | 17.5 | 1.78 | 18.9 | 2.11 | 20.6 | 2.45 | 22.4 | 2.76 | 23.1 | 2.83 | 24.0 | 2.91 | 24.6 | 2.96 |
| | | 96.3 | 17.5 | 1.73 | 18.9 | 2.07 | 20.6 | 2.41 | 22.4 | 2.72 | 23.1 | 2.78 | 24.0 | 2.85 | 24.6 | 2.88 |
| | | 115.5 | 17.5 | 1.70 | 18.9 | 2.04 | 20.6 | 2.38 | 22.4 | 2.69 | 23.1 | 2.76 | 24.0 | 2.82 | 24.6 | 2.83 |
| | 25 | 30.8 | 17.5 | 2.41 | 18.9 | 2.80 | 20.6 | 3.26 | 22.4 | 3.67 | 23.1 | 3.76 | 24.0 | 3.84 | 24.6 | 3.92 |
| | | 38.5 | 17.5 | 2.36 | 18.9 | 2.75 | 20.6 | 3.21 | 22.4 | 3.61 | 23.1 | 3.70 | 24.0 | 3.78 | 24.6 | 3.86 |
| | | 77.0 | 17.5 | 2.17 | 18.9 | 2.57 | 20.6 | 3.00 | 22.4 | 3.38 | 23.1 | 3.45 | 24.0 | 3.55 | 24.6 | 3.60 |
| | | 96.3 | 17.5 | 2.11 | 18.9 | 2.52 | 20.6 | 2.93 | 22.4 | 3.31 | 23.1 | 3.39 | 24.0 | 3.48 | 24.6 | 3.51 |
| | | 115.5 | 17.5 | 2.08 | 18.9 | 2.49 | 20.6 | 2.90 | 22.4 | 3.28 | 23.1 | 3.35 | 24.0 | 3.45 | 24.6 | 3.46 |
| | 30 | 30.8 | 17.5 | 2.96 | 18.9 | 3.44 | 20.6 | 4.01 | 22.4 | 4.52 | 23.1 | 4.62 | 24.0 | 4.74 | 24.6 | 4.82 |
| | | 38.5 | 17.5 | 2.91 | 18.9 | 3.39 | 20.6 | 3.94 | 22.4 | 4.44 | 23.1 | 4.55 | 24.0 | 4.66 | 24.6 | 4.74 |
| | | 77.0 | 17.5 | 2.67 | 18.9 | 3.16 | 20.6 | 3.69 | 22.4 | 4.15 | 23.1 | 4.24 | 24.0 | 4.36 | 24.6 | 4.43 |
| | | 96.3 | 17.5 | 2.59 | 18.9 | 3.09 | 20.6 | 3.61 | 22.4 | 4.07 | 23.1 | 4.17 | 24.0 | 4.27 | 24.6 | 4.32 |
| | | 115.5 | 17.5 | 2.56 | 18.9 | 3.06 | 20.6 | 3.57 | 22.4 | 4.02 | 23.1 | 4.13 | 24.0 | 4.23 | 24.6 | 4.26 |
| | 35 | 30.8 | 16.6 | 3.13 | 18.0 | 3.63 | 19.6 | 4.23 | 21.3 | 4.77 | 21.9 | 4.88 | 22.8 | 4.99 | 23.4 | 5.08 |
| | | 38.5 | 16.6 | 3.07 | 18.0 | 3.57 | 19.6 | 4.16 | 21.3 | 4.69 | 21.9 | 4.80 | 22.8 | 4.91 | 23.4 | 5.00 |
| | | 77.0 | 16.6 | 2.82 | 18.0 | 3.34 | 19.6 | 3.89 | 21.3 | 4.38 | 21.9 | 4.49 | 22.8 | 4.60 | 23.4 | 4.68 |
| | | 96.3 | 16.6 | 2.74 | 18.0 | 3.27 | 19.6 | 3.81 | 21.3 | 4.29 | 21.9 | 4.40 | 22.8 | 4.52 | 23.4 | 4.56 |
| | | 115.5 | 16.6 | 2.69 | 18.0 | 3.24 | 19.6 | 3.77 | 21.3 | 4.25 | 21.9 | 4.36 | 22.8 | 4.48 | 23.4 | 4.49 |
| | 40 | 30.8 | 15.7 | 3.50 | 17.0 | 4.08 | 18.5 | 4.74 | 20.2 | 5.34 | 20.8 | 5.48 | 21.6 | 5.61 | 22.2 | 5.70 |
| | | 38.5 | 15.7 | 3.43 | 17.0 | 4.01 | 18.5 | 4.67 | 20.2 | 5.25 | 20.8 | 5.39 | 21.6 | 5.52 | 22.2 | 5.61 |
| | | 77.0 | 15.7 | 3.16 | 17.0 | 3.74 | 18.5 | 4.37 | 20.2 | 4.91 | 20.8 | 5.03 | 21.6 | 5.16 | 22.2 | 5.25 |
| | | 96.3 | 15.7 | 3.07 | 17.0 | 3.67 | 18.5 | 4.27 | 20.2 | 4.82 | 20.8 | 4.94 | 21.6 | 5.06 | 22.2 | 5.11 |
| | | 115.5 | 15.7 | 3.03 | 17.0 | 3.63 | 18.5 | 4.23 | 20.2 | 4.77 | 20.8 | 4.90 | 21.6 | 5.02 | 22.2 | 5.04 |
| | 45 | 30.8 | 14.8 | 3.88 | 16.1 | 4.52 | 17.5 | 5.26 | 19.0 | 5.91 | 19.6 | 6.07 | 20.3 | 6.22 | 21.0 | 6.33 |
| | | 38.5 | 14.8 | 3.80 | 16.1 | 4.44 | 17.5 | 5.18 | 19.0 | 5.82 | 19.6 | 5.97 | 20.3 | 6.12 | 21.0 | 6.23 |
| | | 77.0 | 14.8 | 3.50 | 16.1 | 4.15 | 17.5 | 4.85 | 19.0 | 5.45 | 19.6 | 5.56 | 20.3 | 5.72 | 21.0 | 5.83 |
| | | 96.3 | 14.8 | 3.41 | 16.1 | 4.07 | 17.5 | 4.73 | 19.0 | 5.35 | 19.6 | 5.48 | 20.3 | 5.61 | 21.0 | 5.67 |
| | | 115.5 | 14.8 | 3.37 | 16.1 | 4.02 | 17.5 | 4.68 | 19.0 | 5.30 | 19.6 | 5.44 | 20.3 | 5.56 | 21.0 | 5.59 |
| 90 | 10 | 30.8 | 15.7 | 1.02 | 17.0 | 1.18 | 18.5 | 1.36 | 20.2 | 1.55 | 20.8 | 1.59 | 21.6 | 1.63 | 22.2 | 1.66 |
| | | 38.5 | 15.7 | 1.00 | 17.0 | 1.16 | 18.5 | 1.34 | 20.2 | 1.52 | 20.8 | 1.56 | 21.6 | 1.61 | 22.2 | 1.63 |
| | | 77.0 | 15.7 | 0.93 | 17.0 | 1.09 | 18.5 | 1.27 | 20.2 | 1.43 | 20.8 | 1.46 | 21.6 | 1.50 | 22.2 | 1.52 |
| | | 96.3 | 15.7 | 0.89 | 17.0 | 1.07 | 18.5 | 1.23 | 20.2 | 1.40 | 20.8 | 1.43 | 21.6 | 1.47 | 22.2 | 1.48 |
| | | 115.5 | 15.7 | 0.87 | 17.0 | 1.06 | 18.5 | 1.21 | 20.2 | 1.38 | 20.8 | 1.42 | 21.6 | 1.46 | 22.2 | 1.46 |
| | 15 | 30.8 | 15.7 | 1.37 | 17.0 | 1.60 | 18.5 | 1.86 | 20.2 | 2.10 | 20.8 | 2.15 | 21.6 | 2.21 | 22.2 | 2.24 |
| | | 38.5 | 15.7 | 1.35 | 17.0 | 1.58 | 18.5 | 1.83 | 20.2 | 2.07 | 20.8 | 2.11 | 21.6 | 2.17 | 22.2 | 2.21 |
| | | 77.0 | 15.7 | 1.25 | 17.0 | 1.47 | 18.5 | 1.72 | 20.2 | 1.93 | 20.8 | 1.98 | 21.6 | 2.03 | 22.2 | 2.07 |
| | | 96.3 | 15.7 | 1.21 | 17.0 | 1.44 | 18.5 | 1.68 | 20.2 | 1.90 | 20.8 | 1.94 | 21.6 | 1.99 | 22.2 | 2.01 |
| | | 115.5 | 15.7 | 1.19 | 17.0 | 1.43 | 18.5 | 1.66 | 20.2 | 1.88 | 20.8 | 1.92 | 21.6 | 1.97 | 22.2 | 1.98 |
| | 20 | 30.8 | 15.7 | 1.69 | 17.0 | 1.98 | 18.5 | 2.30 | 20.2 | 2.59 | 20.8 | 2.64 | 21.6 | 2.71 | 22.2 | 2.76 |
| | | 38.5 | 15.7 | 1.66 | 17.0 | 1.94 | 18.5 | 2.26 | 20.2 | 2.55 | 20.8 | 2.60 | 21.6 | 2.67 | 22.2 | 2.72 |
| | | 77.0 | 15.7 | 1.53 | 17.0 | 1.81 | 18.5 | 2.11 | 20.2 | 2.38 | 20.8 | 2.44 | 21.6 | 2.50 | 22.2 | 2.55 |
| | | 96.3 | 15.7 | 1.49 | 17.0 | 1.77 | 18.5 | 2.08 | 20.2 | 2.34 | 20.8 | 2.40 | 21.6 | 2.45 | 22.2 | 2.48 |
| | | 115.5 | 15.7 | 1.47 | 17.0 | 1.75 | 18.5 | 2.06 | 20.2 | 2.32 | 20.8 | 2.37 | 21.6 | 2.43 | 22.2 | 2.45 |
| | 25 | 30.8 | 15.7 | 2.07 | 17.0 | 2.41 | 18.5 | 2.80 | 20.2 | 3.15 | 20.8 | 3.23 | 21.6 | 3.31 | 22.2 | 3.37 |
| | | 38.5 | 15.7 | 2.03 | 17.0 | 2.37 | 18.5 | 2.75 | 20.2 | 3.10 | 20.8 | 3.18 | 21.6 | 3.25 | 22.2 | 3.32 |
| | | 77.0 | 15.7 | 1.87 | 17.0 | 2.22 | 18.5 | 2.57 | 20.2 | 2.91 | 20.8 | 2.97 | 21.6 | 3.05 | 22.2 | 3.10 |
| | | 96.3 | 15.7 | 1.81 | 17.0 | 2.17 | 18.5 | 2.53 | 20.2 | 2.85 | 20.8 | 2.91 | 21.6 | 2.99 | 22.2 | 3.03 |
| | | 115.5 | 15.7 | 1.78 | 17.0 | 2.15 | 18.5 | 2.50 | 20.2 | 2.82 | 20.8 | 2.89 | 21.6 | 2.96 | 22.2 | 2.99 |
| | 30 | 30.8 | 15.7 | 2.55 | 17.0 | 2.96 | 18.5 | 3.45 | 20.2 | 3.88 | 20.8 | 3.98 | 21.6 | 4.07 | 22.2 | 4.15 |
| | | 38.5 | 15.7 | 2.50 | 17.0 | 2.91 | 18.5 | 3.40 | 20.2 | 3.82 | 20.8 | 3.91 | 21.6 | 4.01 | 22.2 | 4.08 |
| | | 77.0 | 15.7 | 2.29 | 17.0 | 2.73 | 18.5 | 3.17 | 20.2 | 3.57 | 20.8 | 3.66 | 21.6 | 3.75 | 22.2 | 3.82 |
| | | 96.3 | 15.7 | 2.24 | 17.0 | 2.67 | 18.5 | 3.10 | 20.2 | 3.50 | 20.8 | 3.59 | 21.6 | 3.68 | 22.2 | 3.72 |
| | | 115.5 | 15.7 | 2.21 | 17.0 | 2.64 | 18.5 | 3.07 | 20.2 | 3.46 | 20.8 | 3.56 | 21.6 | 3.64 | 22.2 | 3.66 |
| | 35 | 30.8 | 15.3 | 2.75 | 16.6 | 3.19 | 18.0 | 3.72 | 19.6 | 4.19 | 20.2 | 4.29 | 21.0 | 4.39 | 21.6 | 4.48 |
| | | 38.5 | 15.3 | 2.70 | 16.6 | 3.14 | 18.0 | 3.66 | 19.6 | 4.12 | 20.2 | 4.22 | 21.0 | 4.32 | 21.6 | 4.40 |
| | | 77.0 | 15.3 | 2.48 | 16.6 | 2.94 | 18.0 | 3.42 | 19.6 | 3.86 | 20.2 | 3.94 | 21.0 | 4.05 | 21.6 | 4.12 |
| | | 96.3 | 15.3 | 2.41 | 16.6 | 2.88 | 18.0 | 3.35 | 19.6 | 3.78 | 20.2 | 3.88 | 21.0 | 3.97 | 21.6 | 4.01 |
| | | 115.5 | 15.3 | 2.37 | 16.6 | 2.84 | 18.0 | 3.31 | 19.6 | 3.74 | 20.2 | 3.84 | 21.0 | 3.93 | 21.6 | 3.95 |
| | 40 | 30.8 | 14.8 | 3.16 | 16.1 | 3.67 | 17.5 | 4.28 | 19.0 | 4.81 | 19.6 | 4.93 | 20.4 | 5.05 | 20.9 | 5.14 |
| | | 38.5 | 14.8 | 3.09 | 16.1 | 3.61 | 17.5 | 4.21 | 19.0 | 4.73 | 19.6 | 4.85 | 20.4 | 4.97 | 20.9 | 5.06 |
| | | 77.0 | 14.8 | 2.85 | 16.1 | 3.38 | 17.5 | 3.93 | 19.0 | 4.42 | 19.6 | 4.54 | 20.4 | 4.65 | 20.9 | 4.73 |
| | | 96.3 | 14.8 | 2.76 | 16.1 | 3.30 | 17.5 | 3.85 | 19.0 | 4.34 | 19.6 | 4.45 | 20.4 | 4.57 | 20.9 | 4.61 |
| | | 115.5 | 14.8 | 2.72 | 16.1 | 3.26 | 17.5 | 3.81 | 19.0 | 4.30 | 19.6 | 4.41 | 20.4 | 4.52 | 20.9 | 4.55 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 30.8 | 14.4 | 3.56 | 15.6 | 4.15 | 17.0 | 4.83 | 18.5 | 5.44 | 19.0 | 5.57 | 19.8 | 5.71 | 20.3 | 5.80 |
| | | 38.5 | 14.4 | 3.49 | 15.6 | 4.08 | 17.0 | 4.75 | 18.5 | 5.35 | 19.0 | 5.48 | 19.8 | 5.62 | 20.3 | 5.71 |
| | | 77.0 | 14.4 | 3.22 | 15.6 | 3.81 | 17.0 | 4.44 | 18.5 | 4.99 | 19.0 | 5.13 | 19.8 | 5.25 | 20.3 | 5.35 |
| | | 96.3 | 14.4 | 3.12 | 15.6 | 3.73 | 17.0 | 4.35 | 18.5 | 4.90 | 19.0 | 5.03 | 19.8 | 5.16 | 20.3 | 5.22 |
| | | 115.5 | 14.4 | 3.07 | 15.6 | 3.68 | 17.0 | 4.30 | 18.5 | 4.85 | 19.0 | 4.98 | 19.8 | 5.11 | 20.3 | 5.15 |
| 80 | 10 | 30.8 | 14.0 | 0.85 | 15.2 | 0.98 | 16.5 | 1.16 | 17.9 | 1.31 | 18.4 | 1.33 | 19.2 | 1.38 | 19.7 | 1.38 |
| | | 38.5 | 14.0 | 0.83 | 15.2 | 0.97 | 16.5 | 1.13 | 17.9 | 1.29 | 18.4 | 1.31 | 19.2 | 1.35 | 19.7 | 1.36 |
| | | 77.0 | 14.0 | 0.76 | 15.2 | 0.92 | 16.5 | 1.05 | 17.9 | 1.20 | 18.4 | 1.22 | 19.2 | 1.25 | 19.7 | 1.27 |
| | | 96.3 | 14.0 | 0.74 | 15.2 | 0.89 | 16.5 | 1.03 | 17.9 | 1.16 | 18.4 | 1.19 | 19.2 | 1.23 | 19.7 | 1.25 |
| | | 115.5 | 14.0 | 0.74 | 15.2 | 0.87 | 16.5 | 1.03 | 17.9 | 1.14 | 18.4 | 1.17 | 19.2 | 1.23 | 19.7 | 1.25 |
| | 15 | 30.8 | 14.0 | 1.16 | 15.2 | 1.34 | 16.5 | 1.56 | 17.9 | 1.76 | 18.4 | 1.80 | 19.2 | 1.85 | 19.7 | 1.88 |
| | | 38.5 | 14.0 | 1.13 | 15.2 | 1.32 | 16.5 | 1.54 | 17.9 | 1.74 | 18.4 | 1.77 | 19.2 | 1.82 | 19.7 | 1.85 |
| | | 77.0 | 14.0 | 1.04 | 15.2 | 1.24 | 16.5 | 1.43 | 17.9 | 1.62 | 18.4 | 1.66 | 19.2 | 1.70 | 19.7 | 1.73 |
| | | 96.3 | 14.0 | 1.01 | 15.2 | 1.21 | 16.5 | 1.41 | 17.9 | 1.58 | 18.4 | 1.62 | 19.2 | 1.67 | 19.7 | 1.69 |
| | | 115.5 | 14.0 | 1.00 | 15.2 | 1.19 | 16.5 | 1.39 | 17.9 | 1.57 | 18.4 | 1.60 | 19.2 | 1.66 | 19.7 | 1.67 |
| | 20 | 30.8 | 14.0 | 1.42 | 15.2 | 1.66 | 16.5 | 1.93 | 17.9 | 2.16 | 18.4 | 2.22 | 19.2 | 2.27 | 19.7 | 2.32 |
| | | 38.5 | 14.0 | 1.40 | 15.2 | 1.63 | 16.5 | 1.90 | 17.9 | 2.13 | 18.4 | 2.19 | 19.2 | 2.24 | 19.7 | 2.28 |
| | | 77.0 | 14.0 | 1.28 | 15.2 | 1.52 | 16.5 | 1.77 | 17.9 | 2.00 | 18.4 | 2.05 | 19.2 | 2.09 | 19.7 | 2.13 |
| | | 96.3 | 14.0 | 1.25 | 15.2 | 1.49 | 16.5 | 1.74 | 17.9 | 1.96 | 18.4 | 2.01 | 19.2 | 2.06 | 19.7 | 2.08 |
| | | 115.5 | 14.0 | 1.23 | 15.2 | 1.48 | 16.5 | 1.72 | 17.9 | 1.94 | 18.4 | 1.99 | 19.2 | 2.04 | 19.7 | 2.05 |
| | 25 | 30.8 | 14.0 | 1.73 | 15.2 | 2.01 | 16.5 | 2.35 | 17.9 | 2.65 | 18.4 | 2.71 | 19.2 | 2.78 | 19.7 | 2.83 |
| | | 38.5 | 14.0 | 1.70 | 15.2 | 1.98 | 16.5 | 2.31 | 17.9 | 2.60 | 18.4 | 2.67 | 19.2 | 2.74 | 19.7 | 2.78 |
| | | 77.0 | 14.0 | 1.57 | 15.2 | 1.86 | 16.5 | 2.16 | 17.9 | 2.43 | 18.4 | 2.49 | 19.2 | 2.56 | 19.7 | 2.60 |
| | | 96.3 | 14.0 | 1.52 | 15.2 | 1.82 | 16.5 | 2.12 | 17.9 | 2.39 | 18.4 | 2.44 | 19.2 | 2.51 | 19.7 | 2.54 |
| | | 115.5 | 14.0 | 1.50 | 15.2 | 1.80 | 16.5 | 2.10 | 17.9 | 2.36 | 18.4 | 2.42 | 19.2 | 2.49 | 19.7 | 2.50 |
| | 30 | 30.8 | 14.0 | 2.14 | 15.2 | 2.48 | 16.5 | 2.90 | 17.9 | 3.26 | 18.4 | 3.34 | 19.2 | 3.41 | 19.7 | 3.48 |
| | | 38.5 | 14.0 | 2.09 | 15.2 | 2.44 | 16.5 | 2.85 | 17.9 | 3.21 | 18.4 | 3.28 | 19.2 | 3.36 | 19.7 | 3.42 |
| | | 77.0 | 14.0 | 1.92 | 15.2 | 2.28 | 16.5 | 2.66 | 17.9 | 2.99 | 18.4 | 3.07 | 19.2 | 3.14 | 19.7 | 3.20 |
| | | 96.3 | 14.0 | 1.87 | 15.2 | 2.24 | 16.5 | 2.60 | 17.9 | 2.93 | 18.4 | 3.01 | 19.2 | 3.08 | 19.7 | 3.11 |
| | | 115.5 | 14.0 | 1.84 | 15.2 | 2.21 | 16.5 | 2.58 | 17.9 | 2.91 | 18.4 | 2.98 | 19.2 | 3.06 | 19.7 | 3.07 |
| | 35 | 30.8 | 14.0 | 2.38 | 15.2 | 2.76 | 16.5 | 3.21 | 17.9 | 3.61 | 18.4 | 3.70 | 19.2 | 3.80 | 19.7 | 3.86 |
| | | 38.5 | 14.0 | 2.33 | 15.2 | 2.72 | 16.5 | 3.16 | 17.9 | 3.56 | 18.4 | 3.64 | 19.2 | 3.74 | 19.7 | 3.80 |
| | | 77.0 | 14.0 | 2.14 | 15.2 | 2.54 | 16.5 | 2.95 | 17.9 | 3.33 | 18.4 | 3.40 | 19.2 | 3.49 | 19.7 | 3.56 |
| | | 96.3 | 14.0 | 2.08 | 15.2 | 2.48 | 16.5 | 2.90 | 17.9 | 3.26 | 18.4 | 3.34 | 19.2 | 3.43 | 19.7 | 3.46 |
| | | 115.5 | 14.0 | 2.06 | 15.2 | 2.45 | 16.5 | 2.87 | 17.9 | 3.23 | 18.4 | 3.31 | 19.2 | 3.41 | 19.7 | 3.41 |
| | 40 | 30.8 | 14.0 | 2.81 | 15.2 | 3.27 | 16.5 | 3.81 | 17.9 | 4.29 | 18.4 | 4.38 | 19.2 | 4.49 | 19.7 | 4.57 |
| | | 38.5 | 14.0 | 2.75 | 15.2 | 3.22 | 16.5 | 3.74 | 17.9 | 4.22 | 18.4 | 4.31 | 19.2 | 4.42 | 19.7 | 4.50 |
| | | 77.0 | 14.0 | 2.54 | 15.2 | 3.00 | 16.5 | 3.50 | 17.9 | 3.94 | 18.4 | 4.04 | 19.2 | 4.14 | 19.7 | 4.22 |
| | | 96.3 | 14.0 | 2.46 | 15.2 | 2.94 | 16.5 | 3.42 | 17.9 | 3.87 | 18.4 | 3.96 | 19.2 | 4.06 | 19.7 | 4.10 |
| | | 115.5 | 14.0 | 2.42 | 15.2 | 2.91 | 16.5 | 3.39 | 17.9 | 3.83 | 18.4 | 3.92 | 19.2 | 4.01 | 19.7 | 4.05 |
| | 45 | 30.8 | 14.0 | 3.24 | 15.2 | 3.78 | 16.5 | 4.40 | 17.9 | 4.96 | 18.4 | 5.06 | 19.2 | 5.19 | 19.7 | 5.28 |
| | | 38.5 | 14.0 | 3.18 | 15.2 | 3.72 | 16.5 | 4.33 | 17.9 | 4.88 | 18.4 | 4.98 | 19.2 | 5.11 | 19.7 | 5.20 |
| | | 77.0 | 14.0 | 2.93 | 15.2 | 3.46 | 16.5 | 4.05 | 17.9 | 4.56 | 18.4 | 4.67 | 19.2 | 4.79 | 19.7 | 4.88 |
| | | 96.3 | 14.0 | 2.84 | 15.2 | 3.40 | 16.5 | 3.95 | 17.9 | 4.47 | 18.4 | 4.58 | 19.2 | 4.68 | 19.7 | 4.74 |
| | | 115.5 | 14.0 | 2.79 | 15.2 | 3.38 | 16.5 | 3.90 | 17.9 | 4.43 | 18.4 | 4.54 | 19.2 | 4.62 | 19.7 | 4.68 |
| 70 | 10 | 30.8 | 12.2 | 0.71 | 13.3 | 0.82 | 14.4 | 0.97 | 15.7 | 1.09 | 16.1 | 1.09 | 16.8 | 1.13 | 17.2 | 1.15 |
| | | 38.5 | 12.2 | 0.70 | 13.3 | 0.81 | 14.4 | 0.95 | 15.7 | 1.07 | 16.1 | 1.08 | 16.8 | 1.12 | 17.2 | 1.13 |
| | | 77.0 | 12.2 | 0.64 | 13.3 | 0.76 | 14.4 | 0.89 | 15.7 | 1.00 | 16.1 | 1.02 | 16.8 | 1.04 | 17.2 | 1.07 |
| | | 96.3 | 12.2 | 0.62 | 13.3 | 0.73 | 14.4 | 0.86 | 15.7 | 0.97 | 16.1 | 0.99 | 16.8 | 1.03 | 17.2 | 1.04 |
| | | 115.5 | 12.2 | 0.60 | 13.3 | 0.72 | 14.4 | 0.85 | 15.7 | 0.96 | 16.1 | 0.97 | 16.8 | 1.02 | 17.2 | 1.03 |
| | 15 | 30.8 | 12.2 | 0.96 | 13.3 | 1.11 | 14.4 | 1.30 | 15.7 | 1.47 | 16.1 | 1.50 | 16.8 | 1.53 | 17.2 | 1.56 |
| | | 38.5 | 12.2 | 0.94 | 13.3 | 1.09 | 14.4 | 1.28 | 15.7 | 1.44 | 16.1 | 1.47 | 16.8 | 1.51 | 17.2 | 1.54 |
| | | 77.0 | 12.2 | 0.87 | 13.3 | 1.03 | 14.4 | 1.20 | 15.7 | 1.35 | 16.1 | 1.38 | 16.8 | 1.41 | 17.2 | 1.44 |
| | | 96.3 | 12.2 | 0.84 | 13.3 | 1.00 | 14.4 | 1.17 | 15.7 | 1.32 | 16.1 | 1.35 | 16.8 | 1.39 | 17.2 | 1.41 |
| | | 115.5 | 12.2 | 0.83 | 13.3 | 0.99 | 14.4 | 1.16 | 15.7 | 1.31 | 16.1 | 1.33 | 16.8 | 1.37 | 17.2 | 1.39 |
| | 20 | 30.8 | 12.2 | 1.18 | 13.3 | 1.37 | 14.4 | 1.60 | 15.7 | 1.80 | 16.1 | 1.85 | 16.8 | 1.89 | 17.2 | 1.93 |
| | | 38.5 | 12.2 | 1.16 | 13.3 | 1.35 | 14.4 | 1.58 | 15.7 | 1.77 | 16.1 | 1.82 | 16.8 | 1.86 | 17.2 | 1.90 |
| | | 77.0 | 12.2 | 1.07 | 13.3 | 1.26 | 14.4 | 1.47 | 15.7 | 1.66 | 16.1 | 1.70 | 16.8 | 1.74 | 17.2 | 1.77 |
| | | 96.3 | 12.2 | 1.04 | 13.3 | 1.24 | 14.4 | 1.44 | 15.7 | 1.63 | 16.1 | 1.67 | 16.8 | 1.71 | 17.2 | 1.73 |
| | | 115.5 | 12.2 | 1.02 | 13.3 | 1.22 | 14.4 | 1.43 | 15.7 | 1.62 | 16.1 | 1.66 | 16.8 | 1.69 | 17.2 | 1.70 |
| | 25 | 30.8 | 12.2 | 1.44 | 13.3 | 1.68 | 14.4 | 1.96 | 15.7 | 2.21 | 16.1 | 2.25 | 16.8 | 2.31 | 17.2 | 2.35 |
| | | 38.5 | 12.2 | 1.41 | 13.3 | 1.65 | 14.4 | 1.92 | 15.7 | 2.17 | 16.1 | 2.22 | 16.8 | 2.27 | 17.2 | 2.31 |
| | | 77.0 | 12.2 | 1.30 | 13.3 | 1.55 | 14.4 | 1.80 | 15.7 | 2.03 | 16.1 | 2.08 | 16.8 | 2.12 | 17.2 | 2.16 |
| | | 96.3 | 12.2 | 1.26 | 13.3 | 1.51 | 14.4 | 1.76 | 15.7 | 1.98 | 16.1 | 2.04 | 16.8 | 2.08 | 17.2 | 2.10 |
| | | 115.5 | 12.2 | 1.25 | 13.3 | 1.49 | 14.4 | 1.74 | 15.7 | 1.96 | 16.1 | 2.02 | 16.8 | 2.07 | 17.2 | 2.08 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 30.8 | 12.2 | 1.78 | 13.3 | 2.06 | 14.4 | 2.41 | 15.7 | 2.70 | 16.1 | 2.77 | 16.8 | 2.84 | 17.2 | 2.88 |
| | | 38.5 | 12.2 | 1.74 | 13.3 | 2.03 | 14.4 | 2.37 | 15.7 | 2.66 | 16.1 | 2.73 | 16.8 | 2.79 | 17.2 | 2.84 |
| | | 77.0 | 12.2 | 1.60 | 13.3 | 1.90 | 14.4 | 2.21 | 15.7 | 2.49 | 16.1 | 2.55 | 16.8 | 2.61 | 17.2 | 2.66 |
| | | 96.3 | 12.2 | 1.56 | 13.3 | 1.86 | 14.4 | 2.17 | 15.7 | 2.44 | 16.1 | 2.50 | 16.8 | 2.57 | 17.2 | 2.59 |
| | | 115.5 | 12.2 | 1.53 | 13.3 | 1.84 | 14.4 | 2.15 | 15.7 | 2.42 | 16.1 | 2.48 | 16.8 | 2.54 | 17.2 | 2.56 |
| | 35 | 30.8 | 12.2 | 1.97 | 13.3 | 2.29 | 14.4 | 2.68 | 15.7 | 3.01 | 16.1 | 3.08 | 16.8 | 3.15 | 17.2 | 3.21 |
| | | 38.5 | 12.2 | 1.93 | 13.3 | 2.25 | 14.4 | 2.63 | 15.7 | 2.96 | 16.1 | 3.03 | 16.8 | 3.10 | 17.2 | 3.16 |
| | | 77.0 | 12.2 | 1.78 | 13.3 | 2.11 | 14.4 | 2.45 | 15.7 | 2.76 | 16.1 | 2.83 | 16.8 | 2.91 | 17.2 | 2.96 |
| | | 96.3 | 12.2 | 1.73 | 13.3 | 2.07 | 14.4 | 2.41 | 15.7 | 2.72 | 16.1 | 2.78 | 16.8 | 2.85 | 17.2 | 2.88 |
| | | 115.5 | 12.2 | 1.70 | 13.3 | 2.04 | 14.4 | 2.38 | 15.7 | 2.69 | 16.1 | 2.76 | 16.8 | 2.82 | 17.2 | 2.83 |
| | 40 | 30.8 | 12.2 | 2.34 | 13.3 | 2.71 | 14.4 | 3.16 | 15.7 | 3.56 | 16.1 | 3.64 | 16.8 | 3.74 | 17.2 | 3.81 |
| | | 38.5 | 12.2 | 2.29 | 13.3 | 2.67 | 14.4 | 3.11 | 15.7 | 3.50 | 16.1 | 3.58 | 16.8 | 3.68 | 17.2 | 3.74 |
| | | 77.0 | 12.2 | 2.10 | 13.3 | 2.50 | 14.4 | 2.91 | 15.7 | 3.27 | 16.1 | 3.36 | 16.8 | 3.44 | 17.2 | 3.50 |
| | | 96.3 | 12.2 | 2.05 | 13.3 | 2.44 | 14.4 | 2.85 | 15.7 | 3.22 | 16.1 | 3.29 | 16.8 | 3.38 | 17.2 | 3.41 |
| | | 115.5 | 12.2 | 2.02 | 13.3 | 2.41 | 14.4 | 2.82 | 15.7 | 3.19 | 16.1 | 3.26 | 16.8 | 3.34 | 17.2 | 3.37 |
| | 45 | 30.8 | 12.2 | 2.71 | 13.3 | 3.13 | 14.4 | 3.65 | 15.7 | 4.10 | 16.1 | 4.20 | 16.8 | 4.32 | 17.2 | 4.40 |
| | | 38.5 | 12.2 | 2.65 | 13.3 | 3.08 | 14.4 | 3.59 | 15.7 | 4.04 | 16.1 | 4.14 | 16.8 | 4.25 | 17.2 | 4.33 |
| | | 77.0 | 12.2 | 2.42 | 13.3 | 2.89 | 14.4 | 3.36 | 15.7 | 3.78 | 16.1 | 3.89 | 16.8 | 3.98 | 17.2 | 4.04 |
| | | 96.3 | 12.2 | 2.37 | 13.3 | 2.82 | 14.4 | 3.29 | 15.7 | 3.72 | 16.1 | 3.80 | 16.8 | 3.90 | 17.2 | 3.95 |
| | | 115.5 | 12.2 | 2.34 | 13.3 | 2.79 | 14.4 | 3.26 | 15.7 | 3.68 | 16.1 | 3.76 | 16.8 | 3.87 | 17.2 | 3.91 |
| 60 | 10 | 30.8 | 10.5 | 0.58 | 11.4 | 0.67 | 12.4 | 0.77 | 13.4 | 0.87 | 13.8 | 0.89 | 14.4 | 0.92 | 14.8 | 0.92 |
| | | 38.5 | 10.5 | 0.56 | 11.4 | 0.65 | 12.4 | 0.75 | 13.4 | 0.85 | 13.8 | 0.87 | 14.4 | 0.90 | 14.8 | 0.91 |
| | | 77.0 | 10.5 | 0.51 | 11.4 | 0.61 | 12.4 | 0.70 | 13.4 | 0.80 | 13.8 | 0.80 | 14.4 | 0.83 | 14.8 | 0.85 |
| | | 96.3 | 10.5 | 0.49 | 11.4 | 0.59 | 12.4 | 0.69 | 13.4 | 0.78 | 13.8 | 0.79 | 14.4 | 0.81 | 14.8 | 0.82 |
| | | 115.5 | 10.5 | 0.48 | 11.4 | 0.58 | 12.4 | 0.69 | 13.4 | 0.77 | 13.8 | 0.78 | 14.4 | 0.80 | 14.8 | 0.80 |
| | 15 | 30.8 | 10.5 | 0.77 | 11.4 | 0.89 | 12.4 | 1.04 | 13.4 | 1.17 | 13.8 | 1.20 | 14.4 | 1.23 | 14.8 | 1.25 |
| | | 38.5 | 10.5 | 0.75 | 11.4 | 0.88 | 12.4 | 1.02 | 13.4 | 1.15 | 13.8 | 1.18 | 14.4 | 1.21 | 14.8 | 1.23 |
| | | 77.0 | 10.5 | 0.69 | 11.4 | 0.82 | 12.4 | 0.95 | 13.4 | 1.08 | 13.8 | 1.09 | 14.4 | 1.12 | 14.8 | 1.15 |
| | | 96.3 | 10.5 | 0.67 | 11.4 | 0.80 | 12.4 | 0.93 | 13.4 | 1.06 | 13.8 | 1.08 | 14.4 | 1.10 | 14.8 | 1.11 |
| | | 115.5 | 10.5 | 0.66 | 11.4 | 0.79 | 12.4 | 0.92 | 13.4 | 1.05 | 13.8 | 1.07 | 14.4 | 1.09 | 14.8 | 1.09 |
| | 20 | 30.8 | 10.5 | 0.94 | 11.4 | 1.09 | 12.4 | 1.27 | 13.4 | 1.44 | 13.8 | 1.48 | 14.4 | 1.50 | 14.8 | 1.53 |
| | | 38.5 | 10.5 | 0.92 | 11.4 | 1.08 | 12.4 | 1.25 | 13.4 | 1.41 | 13.8 | 1.45 | 14.4 | 1.48 | 14.8 | 1.51 |
| | | 77.0 | 10.5 | 0.85 | 11.4 | 1.01 | 12.4 | 1.18 | 13.4 | 1.32 | 13.8 | 1.36 | 14.4 | 1.39 | 14.8 | 1.41 |
| | | 96.3 | 10.5 | 0.83 | 11.4 | 0.99 | 12.4 | 1.15 | 13.4 | 1.30 | 13.8 | 1.33 | 14.4 | 1.37 | 14.8 | 1.38 |
| | | 115.5 | 10.5 | 0.82 | 11.4 | 0.98 | 12.4 | 1.14 | 13.4 | 1.29 | 13.8 | 1.32 | 14.4 | 1.36 | 14.8 | 1.36 |
| | 25 | 30.8 | 10.5 | 1.16 | 11.4 | 1.33 | 12.4 | 1.55 | 13.4 | 1.75 | 13.8 | 1.79 | 14.4 | 1.84 | 14.8 | 1.87 |
| | | 38.5 | 10.5 | 1.13 | 11.4 | 1.31 | 12.4 | 1.53 | 13.4 | 1.73 | 13.8 | 1.76 | 14.4 | 1.81 | 14.8 | 1.84 |
| | | 77.0 | 10.5 | 1.04 | 11.4 | 1.23 | 12.4 | 1.43 | 13.4 | 1.61 | 13.8 | 1.65 | 14.4 | 1.70 | 14.8 | 1.73 |
| | | 96.3 | 10.5 | 1.01 | 11.4 | 1.21 | 12.4 | 1.41 | 13.4 | 1.58 | 13.8 | 1.62 | 14.4 | 1.66 | 14.8 | 1.68 |
| | | 115.5 | 10.5 | 1.00 | 11.4 | 1.20 | 12.4 | 1.39 | 13.4 | 1.57 | 13.8 | 1.61 | 14.4 | 1.64 | 14.8 | 1.66 |
| | 30 | 30.8 | 10.5 | 1.42 | 11.4 | 1.65 | 12.4 | 1.92 | 13.4 | 2.16 | 13.8 | 2.21 | 14.4 | 2.26 | 14.8 | 2.30 |
| | | 38.5 | 10.5 | 1.39 | 11.4 | 1.62 | 12.4 | 1.89 | 13.4 | 2.12 | 13.8 | 2.17 | 14.4 | 2.23 | 14.8 | 2.26 |
| | | 77.0 | 10.5 | 1.27 | 11.4 | 1.51 | 12.4 | 1.76 | 13.4 | 1.98 | 13.8 | 2.03 | 14.4 | 2.08 | 14.8 | 2.12 |
| | | 96.3 | 10.5 | 1.25 | 11.4 | 1.48 | 12.4 | 1.73 | 13.4 | 1.94 | 13.8 | 1.99 | 14.4 | 2.05 | 14.8 | 2.07 |
| | | 115.5 | 10.5 | 1.23 | 11.4 | 1.47 | 12.4 | 1.71 | 13.4 | 1.92 | 13.8 | 1.97 | 14.4 | 2.03 | 14.8 | 2.04 |
| | 35 | 30.8 | 10.5 | 1.57 | 11.4 | 1.83 | 12.4 | 2.13 | 13.4 | 2.40 | 13.8 | 2.46 | 14.4 | 2.51 | 14.8 | 2.56 |
| | | 38.5 | 10.5 | 1.54 | 11.4 | 1.80 | 12.4 | 2.09 | 13.4 | 2.36 | 13.8 | 2.41 | 14.4 | 2.47 | 14.8 | 2.52 |
| | | 77.0 | 10.5 | 1.41 | 11.4 | 1.68 | 12.4 | 1.96 | 13.4 | 2.21 | 13.8 | 2.25 | 14.4 | 2.32 | 14.8 | 2.36 |
| | | 96.3 | 10.5 | 1.38 | 11.4 | 1.64 | 12.4 | 1.91 | 13.4 | 2.16 | 13.8 | 2.22 | 14.4 | 2.27 | 14.8 | 2.29 |
| | | 115.5 | 10.5 | 1.36 | 11.4 | 1.62 | 12.4 | 1.89 | 13.4 | 2.14 | 13.8 | 2.20 | 14.4 | 2.25 | 14.8 | 2.26 |
| | 40 | 30.8 | 10.5 | 1.87 | 11.4 | 2.17 | 12.4 | 2.52 | 13.4 | 2.84 | 13.8 | 2.91 | 14.4 | 2.98 | 14.8 | 3.03 |
| | | 38.5 | 10.5 | 1.83 | 11.4 | 2.13 | 12.4 | 2.48 | 13.4 | 2.79 | 13.8 | 2.86 | 14.4 | 2.93 | 14.8 | 2.98 |
| | | 77.0 | 10.5 | 1.68 | 11.4 | 1.99 | 12.4 | 2.32 | 13.4 | 2.61 | 13.8 | 2.67 | 14.4 | 2.74 | 14.8 | 2.79 |
| | | 96.3 | 10.5 | 1.63 | 11.4 | 1.95 | 12.4 | 2.27 | 13.4 | 2.56 | 13.8 | 2.62 | 14.4 | 2.69 | 14.8 | 2.72 |
| | | 115.5 | 10.5 | 1.61 | 11.4 | 1.93 | 12.4 | 2.25 | 13.4 | 2.53 | 13.8 | 2.60 | 14.4 | 2.66 | 14.8 | 2.68 |
| | 45 | 30.8 | 10.5 | 2.17 | 11.4 | 2.50 | 12.4 | 2.91 | 13.4 | 3.28 | 13.8 | 3.36 | 14.4 | 3.45 | 14.8 | 3.50 |
| | | 38.5 | 10.5 | 2.12 | 11.4 | 2.46 | 12.4 | 2.87 | 13.4 | 3.23 | 13.8 | 3.30 | 14.4 | 3.40 | 14.8 | 3.44 |
| | | 77.0 | 10.5 | 1.94 | 11.4 | 2.30 | 12.4 | 2.68 | 13.4 | 3.02 | 13.8 | 3.08 | 14.4 | 3.17 | 14.8 | 3.23 |
| | | 96.3 | 10.5 | 1.89 | 11.4 | 2.26 | 12.4 | 2.63 | 13.4 | 2.95 | 13.8 | 3.03 | 14.4 | 3.10 | 14.8 | 3.14 |
| | | 115.5 | 10.5 | 1.86 | 11.4 | 2.24 | 12.4 | 2.61 | 13.4 | 2.92 | 13.8 | 3.00 | 14.4 | 3.07 | 14.8 | 3.10 |
| 50 | 10 | 30.8 | 8.7 | 0.41 | 9.5 | 0.49 | 10.3 | 0.59 | 11.2 | 0.65 | 11.5 | 0.65 | 12.0 | 0.67 | 12.3 | 0.69 |
| | | 38.5 | 8.7 | 0.41 | 9.5 | 0.48 | 10.3 | 0.57 | 11.2 | 0.64 | 11.5 | 0.64 | 12.0 | 0.66 | 12.3 | 0.68 |
| | | 77.0 | 8.7 | 0.39 | 9.5 | 0.45 | 10.3 | 0.52 | 11.2 | 0.59 | 11.5 | 0.61 | 12.0 | 0.62 | 12.3 | 0.64 |
| | | 96.3 | 8.7 | 0.37 | 9.5 | 0.44 | 10.3 | 0.52 | 11.2 | 0.57 | 11.5 | 0.59 | 12.0 | 0.60 | 12.3 | 0.61 |
| | | 115.5 | 8.7 | 0.36 | 9.5 | 0.43 | 10.3 | 0.52 | 11.2 | 0.56 | 11.5 | 0.58 | 12.0 | 0.59 | 12.3 | 0.59 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 30.8 | 8.7 | 0.57 | 9.5 | 0.66 | 10.3 | 0.78 | 11.2 | 0.87 | 11.5 | 0.89 | 12.0 | 0.91 | 12.3 | 0.93 |
| | | 38.5 | 8.7 | 0.56 | 9.5 | 0.65 | 10.3 | 0.76 | 11.2 | 0.86 | 11.5 | 0.88 | 12.0 | 0.90 | 12.3 | 0.91 |
| | | 77.0 | 8.7 | 0.52 | 9.5 | 0.61 | 10.3 | 0.71 | 11.2 | 0.80 | 11.5 | 0.82 | 12.0 | 0.84 | 12.3 | 0.86 |
| | | 96.3 | 8.7 | 0.50 | 9.5 | 0.59 | 10.3 | 0.70 | 11.2 | 0.78 | 11.5 | 0.80 | 12.0 | 0.82 | 12.3 | 0.83 |
| | | 115.5 | 8.7 | 0.49 | 9.5 | 0.58 | 10.3 | 0.69 | 11.2 | 0.77 | 11.5 | 0.79 | 12.0 | 0.81 | 12.3 | 0.82 |
| | 20 | 30.8 | 8.7 | 0.70 | 9.5 | 0.81 | 10.3 | 0.95 | 11.2 | 1.07 | 11.5 | 1.10 | 12.0 | 1.12 | 12.3 | 1.14 |
| | | 38.5 | 8.7 | 0.69 | 9.5 | 0.80 | 10.3 | 0.93 | 11.2 | 1.06 | 11.5 | 1.08 | 12.0 | 1.10 | 12.3 | 1.12 |
| | | 77.0 | 8.7 | 0.63 | 9.5 | 0.75 | 10.3 | 0.88 | 11.2 | 0.99 | 11.5 | 1.01 | 12.0 | 1.04 | 12.3 | 1.06 |
| | | 96.3 | 8.7 | 0.61 | 9.5 | 0.74 | 10.3 | 0.86 | 11.2 | 0.97 | 11.5 | 0.99 | 12.0 | 1.02 | 12.3 | 1.03 |
| | | 115.5 | 8.7 | 0.60 | 9.5 | 0.73 | 10.3 | 0.85 | 11.2 | 0.96 | 11.5 | 0.98 | 12.0 | 1.01 | 12.3 | 1.01 |
| | 25 | 30.8 | 8.7 | 0.86 | 9.5 | 1.00 | 10.3 | 1.16 | 11.2 | 1.30 | 11.5 | 1.34 | 12.0 | 1.37 | 12.3 | 1.40 |
| | | 38.5 | 8.7 | 0.84 | 9.5 | 0.98 | 10.3 | 1.14 | 11.2 | 1.28 | 11.5 | 1.32 | 12.0 | 1.35 | 12.3 | 1.38 |
| | | 77.0 | 8.7 | 0.77 | 9.5 | 0.91 | 10.3 | 1.07 | 11.2 | 1.21 | 11.5 | 1.24 | 12.0 | 1.26 | 12.3 | 1.28 |
| | | 96.3 | 8.7 | 0.75 | 9.5 | 0.90 | 10.3 | 1.05 | 11.2 | 1.18 | 11.5 | 1.21 | 12.0 | 1.24 | 12.3 | 1.25 |
| | | 115.5 | 8.7 | 0.75 | 9.5 | 0.89 | 10.3 | 1.04 | 11.2 | 1.16 | 11.5 | 1.19 | 12.0 | 1.22 | 12.3 | 1.24 |
| | 30 | 30.8 | 8.7 | 1.06 | 9.5 | 1.23 | 10.3 | 1.43 | 11.2 | 1.61 | 11.5 | 1.65 | 12.0 | 1.69 | 12.3 | 1.71 |
| | | 38.5 | 8.7 | 1.04 | 9.5 | 1.21 | 10.3 | 1.41 | 11.2 | 1.58 | 11.5 | 1.62 | 12.0 | 1.66 | 12.3 | 1.69 |
| | | 77.0 | 8.7 | 0.95 | 9.5 | 1.13 | 10.3 | 1.31 | 11.2 | 1.48 | 11.5 | 1.52 | 12.0 | 1.56 | 12.3 | 1.58 |
| | | 96.3 | 8.7 | 0.92 | 9.5 | 1.10 | 10.3 | 1.28 | 11.2 | 1.45 | 11.5 | 1.49 | 12.0 | 1.53 | 12.3 | 1.54 |
| | | 115.5 | 8.7 | 0.91 | 9.5 | 1.09 | 10.3 | 1.27 | 11.2 | 1.44 | 11.5 | 1.48 | 12.0 | 1.51 | 12.3 | 1.51 |
| | 35 | 30.8 | 8.7 | 1.17 | 9.5 | 1.36 | 10.3 | 1.59 | 11.2 | 1.78 | 11.5 | 1.83 | 12.0 | 1.88 | 12.3 | 1.91 |
| | | 38.5 | 8.7 | 1.15 | 9.5 | 1.34 | 10.3 | 1.57 | 11.2 | 1.75 | 11.5 | 1.80 | 12.0 | 1.85 | 12.3 | 1.88 |
| | | 77.0 | 8.7 | 1.06 | 9.5 | 1.25 | 10.3 | 1.46 | 11.2 | 1.64 | 11.5 | 1.68 | 12.0 | 1.73 | 12.3 | 1.75 |
| | | 96.3 | 8.7 | 1.03 | 9.5 | 1.23 | 10.3 | 1.43 | 11.2 | 1.61 | 11.5 | 1.65 | 12.0 | 1.70 | 12.3 | 1.71 |
| | | 115.5 | 8.7 | 1.01 | 9.5 | 1.21 | 10.3 | 1.42 | 11.2 | 1.60 | 11.5 | 1.64 | 12.0 | 1.68 | 12.3 | 1.68 |
| | 40 | 30.8 | 8.7 | 1.38 | 9.5 | 1.61 | 10.3 | 1.88 | 11.2 | 2.12 | 11.5 | 2.17 | 12.0 | 2.22 | 12.3 | 2.26 |
| | | 38.5 | 8.7 | 1.36 | 9.5 | 1.58 | 10.3 | 1.85 | 11.2 | 2.08 | 11.5 | 2.13 | 12.0 | 2.19 | 12.3 | 2.23 |
| | | 77.0 | 8.7 | 1.25 | 9.5 | 1.48 | 10.3 | 1.73 | 11.2 | 1.94 | 11.5 | 1.99 | 12.0 | 2.05 | 12.3 | 2.08 |
| | | 96.3 | 8.7 | 1.22 | 9.5 | 1.45 | 10.3 | 1.70 | 11.2 | 1.91 | 11.5 | 1.95 | 12.0 | 2.01 | 12.3 | 2.03 |
| | | 115.5 | 8.7 | 1.20 | 9.5 | 1.44 | 10.3 | 1.68 | 11.2 | 1.89 | 11.5 | 1.93 | 12.0 | 1.99 | 12.3 | 2.00 |
| | 45 | 30.8 | 8.7 | 1.59 | 9.5 | 1.86 | 10.3 | 2.17 | 11.2 | 2.46 | 11.5 | 2.50 | 12.0 | 2.57 | 12.3 | 2.62 |
| | | 38.5 | 8.7 | 1.57 | 9.5 | 1.83 | 10.3 | 2.13 | 11.2 | 2.41 | 11.5 | 2.46 | 12.0 | 2.53 | 12.3 | 2.57 |
| | | 77.0 | 8.7 | 1.45 | 9.5 | 1.71 | 10.3 | 1.99 | 11.2 | 2.24 | 11.5 | 2.30 | 12.0 | 2.37 | 12.3 | 2.41 |
| | | 96.3 | 8.7 | 1.41 | 9.5 | 1.68 | 10.3 | 1.96 | 11.2 | 2.20 | 11.5 | 2.25 | 12.0 | 2.32 | 12.3 | 2.35 |
| | | 115.5 | 8.7 | 1.38 | 9.5 | 1.66 | 10.3 | 1.95 | 11.2 | 2.17 | 11.5 | 2.23 | 12.0 | 2.30 | 12.3 | 2.32 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(10HP)**

## ARWN100BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 38.4 | 26.0 | 1.80 | 28.2 | 2.11 | 30.7 | 2.46 | 33.3 | 2.77 | 34.3 | 2.85 | 35.7 | 2.90 | 36.7 | 2.93 |
| | | 48.0 | 26.0 | 1.77 | 28.2 | 2.08 | 30.7 | 2.42 | 33.3 | 2.73 | 34.3 | 2.80 | 35.7 | 2.86 | 36.7 | 2.89 |
| | | 96.0 | 26.0 | 1.64 | 28.2 | 1.95 | 30.7 | 2.27 | 33.3 | 2.55 | 34.3 | 2.60 | 35.7 | 2.68 | 36.7 | 2.74 |
| | | 120.0 | 26.0 | 1.60 | 28.2 | 1.90 | 30.7 | 2.22 | 33.3 | 2.49 | 34.3 | 2.56 | 35.7 | 2.62 | 36.7 | 2.67 |
| | | 144.0 | 26.0 | 1.57 | 28.2 | 1.88 | 30.7 | 2.20 | 33.3 | 2.46 | 34.3 | 2.55 | 35.7 | 2.59 | 36.7 | 2.63 |
| | 15 | 38.4 | 25.6 | 2.38 | 27.7 | 2.77 | 30.2 | 3.23 | 32.8 | 3.64 | 33.8 | 3.73 | 35.1 | 3.81 | 36.1 | 3.87 |
| | | 48.0 | 25.6 | 2.34 | 27.7 | 2.73 | 30.2 | 3.18 | 32.8 | 3.58 | 33.8 | 3.67 | 35.1 | 3.75 | 36.1 | 3.81 |
| | | 96.0 | 25.6 | 2.15 | 27.7 | 2.56 | 30.2 | 2.97 | 32.8 | 3.35 | 33.8 | 3.42 | 35.1 | 3.52 | 36.1 | 3.59 |
| | | 120.0 | 25.6 | 2.09 | 27.7 | 2.49 | 30.2 | 2.91 | 32.8 | 3.28 | 33.8 | 3.36 | 35.1 | 3.45 | 36.1 | 3.51 |
| | | 144.0 | 25.6 | 2.06 | 27.7 | 2.46 | 30.2 | 2.88 | 32.8 | 3.24 | 33.8 | 3.33 | 35.1 | 3.41 | 36.1 | 3.47 |
| | 20 | 38.4 | 25.2 | 2.90 | 27.3 | 3.35 | 29.8 | 3.92 | 32.4 | 4.41 | 33.3 | 4.51 | 34.6 | 4.62 | 35.6 | 4.71 |
| | | 48.0 | 25.2 | 2.84 | 27.3 | 3.30 | 29.8 | 3.85 | 32.4 | 4.34 | 33.3 | 4.44 | 34.6 | 4.55 | 35.6 | 4.63 |
| | | 96.0 | 25.2 | 2.60 | 27.3 | 3.09 | 29.8 | 3.59 | 32.4 | 4.06 | 33.3 | 4.16 | 34.6 | 4.27 | 35.6 | 4.35 |
| | | 120.0 | 25.2 | 2.53 | 27.3 | 3.02 | 29.8 | 3.52 | 32.4 | 3.97 | 33.3 | 4.07 | 34.6 | 4.18 | 35.6 | 4.26 |
| | | 144.0 | 25.2 | 2.49 | 27.3 | 2.98 | 29.8 | 3.48 | 32.4 | 3.93 | 33.3 | 4.03 | 34.6 | 4.14 | 35.6 | 4.21 |
| | 25 | 38.4 | 25.2 | 3.57 | 27.3 | 4.14 | 29.8 | 4.82 | 32.4 | 5.43 | 33.3 | 5.57 | 34.6 | 5.70 | 35.6 | 5.80 |
| | | 48.0 | 25.2 | 3.50 | 27.3 | 4.07 | 29.8 | 4.74 | 32.4 | 5.34 | 33.3 | 5.48 | 34.6 | 5.61 | 35.6 | 5.71 |
| | | 96.0 | 25.2 | 3.22 | 27.3 | 3.81 | 29.8 | 4.44 | 32.4 | 5.00 | 33.3 | 5.12 | 34.6 | 5.26 | 35.6 | 5.37 |
| | | 120.0 | 25.2 | 3.13 | 27.3 | 3.73 | 29.8 | 4.35 | 32.4 | 4.90 | 33.3 | 5.03 | 34.6 | 5.16 | 35.6 | 5.25 |
| | | 144.0 | 25.2 | 3.09 | 27.3 | 3.69 | 29.8 | 4.31 | 32.4 | 4.85 | 33.3 | 4.98 | 34.6 | 5.11 | 35.6 | 5.18 |
| | 30 | 38.4 | 25.2 | 4.28 | 27.3 | 4.97 | 29.8 | 5.79 | 32.4 | 6.52 | 33.3 | 6.67 | 34.6 | 6.85 | 35.6 | 6.95 |
| | | 48.0 | 25.2 | 4.19 | 27.3 | 4.89 | 29.8 | 5.70 | 32.4 | 6.42 | 33.3 | 6.57 | 34.6 | 6.74 | 35.6 | 6.85 |
| | | 96.0 | 25.2 | 3.85 | 27.3 | 4.57 | 29.8 | 5.33 | 32.4 | 6.00 | 33.3 | 6.15 | 34.6 | 6.31 | 35.6 | 6.44 |
| | | 120.0 | 25.2 | 3.75 | 27.3 | 4.48 | 29.8 | 5.22 | 32.4 | 5.88 | 33.3 | 6.04 | 34.6 | 6.19 | 35.6 | 6.30 |
| | | 144.0 | 25.2 | 3.71 | 27.3 | 4.43 | 29.8 | 5.17 | 32.4 | 5.82 | 33.3 | 5.99 | 34.6 | 6.13 | 35.6 | 6.22 |
| | 35 | 38.4 | 22.7 | 4.33 | 24.6 | 5.04 | 26.8 | 5.85 | 29.1 | 6.60 | 30.0 | 6.74 | 31.2 | 6.92 | 32.0 | 7.04 |
| | | 48.0 | 22.7 | 4.24 | 24.6 | 4.95 | 26.8 | 5.76 | 29.1 | 6.49 | 30.0 | 6.64 | 31.2 | 6.81 | 32.0 | 6.93 |
| | | 96.0 | 22.7 | 3.90 | 24.6 | 4.62 | 26.8 | 5.39 | 29.1 | 6.06 | 30.0 | 6.22 | 31.2 | 6.38 | 32.0 | 6.50 |
| | | 120.0 | 22.7 | 3.79 | 24.6 | 4.52 | 26.8 | 5.28 | 29.1 | 5.94 | 30.0 | 6.10 | 31.2 | 6.26 | 32.0 | 6.37 |
| | | 144.0 | 22.7 | 3.74 | 24.6 | 4.48 | 26.8 | 5.23 | 29.1 | 5.88 | 30.0 | 6.04 | 31.2 | 6.20 | 32.0 | 6.30 |
| | 40 | 38.4 | 20.2 | 4.57 | 21.9 | 5.31 | 23.8 | 6.18 | 25.9 | 6.96 | 26.6 | 7.12 | 27.7 | 7.29 | 28.5 | 7.42 |
| | | 48.0 | 20.2 | 4.48 | 21.9 | 5.22 | 23.8 | 6.08 | 25.9 | 6.85 | 26.6 | 7.01 | 27.7 | 7.18 | 28.5 | 7.31 |
| | | 96.0 | 20.2 | 4.11 | 21.9 | 4.88 | 23.8 | 5.69 | 25.9 | 6.39 | 26.6 | 6.55 | 27.7 | 6.74 | 28.5 | 6.87 |
| | | 120.0 | 20.2 | 4.00 | 21.9 | 4.77 | 23.8 | 5.56 | 25.9 | 6.27 | 26.6 | 6.43 | 27.7 | 6.60 | 28.5 | 6.71 |
| | | 144.0 | 20.2 | 3.94 | 21.9 | 4.71 | 23.8 | 5.50 | 25.9 | 6.21 | 26.6 | 6.37 | 27.7 | 6.54 | 28.5 | 6.63 |
| | 45 | 38.4 | 17.7 | 4.81 | 19.1 | 5.58 | 20.8 | 6.50 | 22.6 | 7.32 | 23.3 | 7.50 | 24.2 | 7.66 | 24.9 | 7.81 |
| | | 48.0 | 17.7 | 4.71 | 19.1 | 5.49 | 20.8 | 6.39 | 22.6 | 7.20 | 23.3 | 7.37 | 24.2 | 7.54 | 24.9 | 7.69 |
| | | 96.0 | 17.7 | 4.32 | 19.1 | 5.14 | 20.8 | 5.98 | 22.6 | 6.73 | 23.3 | 6.88 | 24.2 | 7.09 | 24.9 | 7.24 |
| | | 120.0 | 17.7 | 4.21 | 19.1 | 5.01 | 20.8 | 5.84 | 22.6 | 6.60 | 23.3 | 6.76 | 24.2 | 6.95 | 24.9 | 7.06 |
| | | 144.0 | 17.7 | 4.15 | 19.1 | 4.95 | 20.8 | 5.78 | 22.6 | 6.54 | 23.3 | 6.70 | 24.2 | 6.87 | 24.9 | 6.96 |
| 120 | 10 | 38.4 | 24.6 | 1.72 | 26.7 | 1.99 | 29.0 | 2.34 | 31.6 | 2.63 | 32.6 | 2.70 | 33.8 | 2.76 | 34.7 | 2.81 |
| | | 48.0 | 24.6 | 1.69 | 26.7 | 1.96 | 29.0 | 2.30 | 31.6 | 2.58 | 32.6 | 2.66 | 33.8 | 2.71 | 34.7 | 2.76 |
| | | 96.0 | 24.6 | 1.55 | 26.7 | 1.83 | 29.0 | 2.14 | 31.6 | 2.42 | 32.6 | 2.47 | 33.8 | 2.54 | 34.7 | 2.57 |
| | | 120.0 | 24.6 | 1.52 | 26.7 | 1.79 | 29.0 | 2.11 | 31.6 | 2.37 | 32.6 | 2.42 | 33.8 | 2.49 | 34.7 | 2.52 |
| | | 144.0 | 24.6 | 1.51 | 26.7 | 1.78 | 29.0 | 2.10 | 31.6 | 2.35 | 32.6 | 2.39 | 33.8 | 2.47 | 34.7 | 2.50 |
| | 15 | 38.4 | 24.3 | 2.28 | 26.4 | 2.65 | 28.7 | 3.10 | 31.2 | 3.48 | 32.2 | 3.57 | 33.4 | 3.65 | 34.3 | 3.71 |
| | | 48.0 | 24.3 | 2.24 | 26.4 | 2.60 | 28.7 | 3.04 | 31.2 | 3.42 | 32.2 | 3.51 | 33.4 | 3.59 | 34.3 | 3.66 |
| | | 96.0 | 24.3 | 2.05 | 26.4 | 2.43 | 28.7 | 2.84 | 31.2 | 3.20 | 32.2 | 3.28 | 33.4 | 3.36 | 34.3 | 3.42 |
| | | 120.0 | 24.3 | 2.01 | 26.4 | 2.38 | 28.7 | 2.79 | 31.2 | 3.14 | 32.2 | 3.22 | 33.4 | 3.30 | 34.3 | 3.35 |
| | | 144.0 | 24.3 | 1.98 | 26.4 | 2.36 | 28.7 | 2.76 | 31.2 | 3.11 | 32.2 | 3.19 | 33.4 | 3.27 | 34.3 | 3.31 |
| | 20 | 38.4 | 24.1 | 2.78 | 26.1 | 3.23 | 28.4 | 3.77 | 30.9 | 4.24 | 31.8 | 4.34 | 33.1 | 4.45 | 34.0 | 4.52 |
| | | 48.0 | 24.1 | 2.73 | 26.1 | 3.18 | 28.4 | 3.70 | 30.9 | 4.17 | 31.8 | 4.27 | 33.1 | 4.38 | 34.0 | 4.45 |
| | | 96.0 | 24.1 | 2.51 | 26.1 | 2.97 | 28.4 | 3.46 | 30.9 | 3.90 | 31.8 | 4.00 | 33.1 | 4.10 | 34.0 | 4.18 |
| | | 120.0 | 24.1 | 2.43 | 26.1 | 2.91 | 28.4 | 3.39 | 30.9 | 3.83 | 31.8 | 3.92 | 33.1 | 4.02 | 34.0 | 4.08 |
| | | 144.0 | 24.1 | 2.40 | 26.1 | 2.88 | 28.4 | 3.35 | 30.9 | 3.79 | 31.8 | 3.89 | 33.1 | 3.99 | 34.0 | 4.04 |
| | 25 | 38.4 | 24.1 | 3.42 | 26.1 | 3.96 | 28.4 | 4.62 | 30.9 | 5.21 | 31.8 | 5.33 | 33.1 | 5.47 | 34.0 | 5.56 |
| | | 48.0 | 24.1 | 3.35 | 26.1 | 3.90 | 28.4 | 4.55 | 30.9 | 5.12 | 31.8 | 5.25 | 33.1 | 5.38 | 34.0 | 5.48 |
| | | 96.0 | 24.1 | 3.08 | 26.1 | 3.66 | 28.4 | 4.26 | 30.9 | 4.79 | 31.8 | 4.90 | 33.1 | 5.04 | 34.0 | 5.14 |
| | | 120.0 | 24.1 | 3.00 | 26.1 | 3.57 | 28.4 | 4.17 | 30.9 | 4.70 | 31.8 | 4.82 | 33.1 | 4.94 | 34.0 | 5.01 |
| | | 144.0 | 24.1 | 2.95 | 26.1 | 3.53 | 28.4 | 4.13 | 30.9 | 4.65 | 31.8 | 4.77 | 33.1 | 4.89 | 34.0 | 4.95 |
| | 30 | 38.4 | 24.1 | 4.13 | 26.1 | 4.80 | 28.4 | 5.59 | 30.9 | 6.30 | 31.8 | 6.45 | 33.1 | 6.61 | 34.0 | 6.72 |
| | | 48.0 | 24.1 | 4.05 | 26.1 | 4.72 | 28.4 | 5.50 | 30.9 | 6.20 | 31.8 | 6.35 | 33.1 | 6.50 | 34.0 | 6.61 |
| | | 96.0 | 24.1 | 3.73 | 26.1 | 4.41 | 28.4 | 5.15 | 30.9 | 5.80 | 31.8 | 5.93 | 33.1 | 6.09 | 34.0 | 6.21 |
| | | 120.0 | 24.1 | 3.62 | 26.1 | 4.32 | 28.4 | 5.04 | 30.9 | 5.67 | 31.8 | 5.82 | 33.1 | 5.98 | 34.0 | 6.06 |
| | | 144.0 | 24.1 | 3.56 | 26.1 | 4.27 | 28.4 | 4.98 | 30.9 | 5.61 | 31.8 | 5.77 | 33.1 | 5.92 | 34.0 | 5.99 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 38.4 | 22.1 | 4.23 | 23.9 | 4.92 | 26.0 | 5.73 | 28.3 | 6.45 | 29.1 | 6.61 | 30.3 | 6.77 | 31.1 | 6.89 |
| | | 48.0 | 22.1 | 4.15 | 23.9 | 4.84 | 26.0 | 5.64 | 28.3 | 6.35 | 29.1 | 6.50 | 30.3 | 6.66 | 31.1 | 6.79 |
| | | 96.0 | 22.1 | 3.81 | 23.9 | 4.52 | 26.0 | 5.27 | 28.3 | 5.94 | 29.1 | 6.09 | 30.3 | 6.25 | 31.1 | 6.36 |
| | | 120.0 | 22.1 | 3.72 | 23.9 | 4.43 | 26.0 | 5.16 | 28.3 | 5.82 | 29.1 | 5.97 | 30.3 | 6.13 | 31.1 | 6.21 |
| | | 144.0 | 22.1 | 3.67 | 23.9 | 4.38 | 26.0 | 5.11 | 28.3 | 5.76 | 29.1 | 5.91 | 30.3 | 6.07 | 31.1 | 6.14 |
| | 40 | 38.4 | 20.0 | 4.55 | 21.7 | 5.30 | 23.6 | 6.16 | 25.7 | 6.95 | 26.4 | 7.11 | 27.5 | 7.28 | 28.2 | 7.41 |
| | | 48.0 | 20.0 | 4.46 | 21.7 | 5.21 | 23.6 | 6.06 | 25.7 | 6.84 | 26.4 | 6.99 | 27.5 | 7.17 | 28.2 | 7.30 |
| | | 96.0 | 20.0 | 4.11 | 21.7 | 4.87 | 23.6 | 5.67 | 25.7 | 6.39 | 26.4 | 6.54 | 27.5 | 6.71 | 28.2 | 6.85 |
| | | 120.0 | 20.0 | 4.00 | 21.7 | 4.77 | 23.6 | 5.56 | 25.7 | 6.26 | 26.4 | 6.42 | 27.5 | 6.59 | 28.2 | 6.69 |
| | | 144.0 | 20.0 | 3.94 | 21.7 | 4.72 | 23.6 | 5.51 | 25.7 | 6.19 | 26.4 | 6.36 | 27.5 | 6.53 | 28.2 | 6.61 |
| | 45 | 38.4 | 18.0 | 4.88 | 19.4 | 5.67 | 21.2 | 6.60 | 23.1 | 7.44 | 23.7 | 7.61 | 24.7 | 7.79 | 25.4 | 7.93 |
| | | 48.0 | 18.0 | 4.78 | 19.4 | 5.58 | 21.2 | 6.49 | 23.1 | 7.32 | 23.7 | 7.48 | 24.7 | 7.67 | 25.4 | 7.81 |
| | | 96.0 | 18.0 | 4.40 | 19.4 | 5.21 | 21.2 | 6.08 | 23.1 | 6.85 | 23.7 | 6.99 | 24.7 | 7.18 | 25.4 | 7.34 |
| | | 120.0 | 18.0 | 4.28 | 19.4 | 5.11 | 21.2 | 5.97 | 23.1 | 6.70 | 23.7 | 6.87 | 24.7 | 7.06 | 25.4 | 7.17 |
| | | 144.0 | 18.0 | 4.22 | 19.4 | 5.06 | 21.2 | 5.91 | 23.1 | 6.63 | 23.7 | 6.81 | 24.7 | 6.99 | 25.4 | 7.08 |
| 110 | 10 | 38.4 | 23.2 | 1.64 | 25.1 | 1.89 | 27.4 | 2.19 | 29.8 | 2.48 | 30.7 | 2.52 | 31.9 | 2.60 | 32.7 | 2.63 |
| | | 48.0 | 23.2 | 1.60 | 25.1 | 1.86 | 27.4 | 2.16 | 29.8 | 2.44 | 30.7 | 2.49 | 31.9 | 2.56 | 32.7 | 2.59 |
| | | 96.0 | 23.2 | 1.47 | 25.1 | 1.73 | 27.4 | 2.03 | 29.8 | 2.29 | 30.7 | 2.35 | 31.9 | 2.38 | 32.7 | 2.43 |
| | | 120.0 | 23.2 | 1.43 | 25.1 | 1.70 | 27.4 | 1.98 | 29.8 | 2.24 | 30.7 | 2.28 | 31.9 | 2.33 | 32.7 | 2.39 |
| | | 144.0 | 23.2 | 1.40 | 25.1 | 1.68 | 27.4 | 1.96 | 29.8 | 2.22 | 30.7 | 2.25 | 31.9 | 2.31 | 32.7 | 2.38 |
| | 15 | 38.4 | 23.1 | 2.18 | 25.0 | 2.54 | 27.2 | 2.94 | 29.6 | 3.32 | 30.5 | 3.39 | 31.7 | 3.48 | 32.6 | 3.54 |
| | | 48.0 | 23.1 | 2.14 | 25.0 | 2.49 | 27.2 | 2.90 | 29.6 | 3.26 | 30.5 | 3.34 | 31.7 | 3.42 | 32.6 | 3.48 |
| | | 96.0 | 23.1 | 1.97 | 25.0 | 2.32 | 27.2 | 2.71 | 29.6 | 3.06 | 30.5 | 3.13 | 31.7 | 3.20 | 32.6 | 3.26 |
| | | 120.0 | 23.1 | 1.91 | 25.0 | 2.27 | 27.2 | 2.65 | 29.6 | 3.00 | 30.5 | 3.07 | 31.7 | 3.14 | 32.6 | 3.19 |
| | | 144.0 | 23.1 | 1.88 | 25.0 | 2.25 | 27.2 | 2.62 | 29.6 | 2.97 | 30.5 | 3.04 | 31.7 | 3.11 | 32.6 | 3.15 |
| | 20 | 38.4 | 23.0 | 2.67 | 24.9 | 3.11 | 27.1 | 3.62 | 29.4 | 4.06 | 30.3 | 4.16 | 31.5 | 4.26 | 32.4 | 4.35 |
| | | 48.0 | 23.0 | 2.62 | 24.9 | 3.06 | 27.1 | 3.56 | 29.4 | 4.00 | 30.3 | 4.10 | 31.5 | 4.19 | 32.4 | 4.28 |
| | | 96.0 | 23.0 | 2.41 | 24.9 | 2.85 | 27.1 | 3.33 | 29.4 | 3.74 | 30.3 | 3.83 | 31.5 | 3.94 | 32.4 | 4.01 |
| | | 120.0 | 23.0 | 2.34 | 24.9 | 2.79 | 27.1 | 3.25 | 29.4 | 3.67 | 30.3 | 3.77 | 31.5 | 3.86 | 32.4 | 3.90 |
| | | 144.0 | 23.0 | 2.30 | 24.9 | 2.76 | 27.1 | 3.22 | 29.4 | 3.63 | 30.3 | 3.74 | 31.5 | 3.83 | 32.4 | 3.85 |
| | 25 | 38.4 | 23.0 | 3.27 | 24.9 | 3.80 | 27.1 | 4.42 | 29.4 | 4.98 | 30.3 | 5.09 | 31.5 | 5.22 | 32.4 | 5.32 |
| | | 48.0 | 23.0 | 3.20 | 24.9 | 3.74 | 27.1 | 4.35 | 29.4 | 4.90 | 30.3 | 5.01 | 31.5 | 5.14 | 32.4 | 5.23 |
| | | 96.0 | 23.0 | 2.95 | 24.9 | 3.50 | 27.1 | 4.07 | 29.4 | 4.59 | 30.3 | 4.70 | 31.5 | 4.82 | 32.4 | 4.90 |
| | | 120.0 | 23.0 | 2.86 | 24.9 | 3.42 | 27.1 | 3.99 | 29.4 | 4.49 | 30.3 | 4.61 | 31.5 | 4.72 | 32.4 | 4.78 |
| | | 144.0 | 23.0 | 2.82 | 24.9 | 3.39 | 27.1 | 3.94 | 29.4 | 4.44 | 30.3 | 4.57 | 31.5 | 4.67 | 32.4 | 4.72 |
| | 30 | 38.4 | 23.0 | 3.98 | 24.9 | 4.64 | 27.1 | 5.39 | 29.4 | 6.08 | 30.3 | 6.21 | 31.5 | 6.37 | 32.4 | 6.48 |
| | | 48.0 | 23.0 | 3.90 | 24.9 | 4.56 | 27.1 | 5.31 | 29.4 | 5.98 | 30.3 | 6.11 | 31.5 | 6.27 | 32.4 | 6.38 |
| | | 96.0 | 23.0 | 3.59 | 24.9 | 4.26 | 27.1 | 4.96 | 29.4 | 5.59 | 30.3 | 5.72 | 31.5 | 5.87 | 32.4 | 5.98 |
| | | 120.0 | 23.0 | 3.50 | 24.9 | 4.17 | 27.1 | 4.85 | 29.4 | 5.48 | 30.3 | 5.61 | 31.5 | 5.76 | 32.4 | 5.83 |
| | | 144.0 | 23.0 | 3.45 | 24.9 | 4.13 | 27.1 | 4.80 | 29.4 | 5.42 | 30.3 | 5.56 | 31.5 | 5.70 | 32.4 | 5.76 |
| | 35 | 38.4 | 21.4 | 4.14 | 23.2 | 4.81 | 25.2 | 5.60 | 27.5 | 6.31 | 28.3 | 6.46 | 29.4 | 6.62 | 30.2 | 6.75 |
| | | 48.0 | 21.4 | 4.06 | 23.2 | 4.73 | 25.2 | 5.51 | 27.5 | 6.21 | 28.3 | 6.36 | 29.4 | 6.52 | 30.2 | 6.64 |
| | | 96.0 | 21.4 | 3.73 | 23.2 | 4.43 | 25.2 | 5.16 | 27.5 | 5.81 | 28.3 | 5.95 | 29.4 | 6.10 | 30.2 | 6.21 |
| | | 120.0 | 21.4 | 3.63 | 23.2 | 4.33 | 25.2 | 5.05 | 27.5 | 5.70 | 28.3 | 5.83 | 29.4 | 5.99 | 30.2 | 6.06 |
| | | 144.0 | 21.4 | 3.58 | 23.2 | 4.28 | 25.2 | 5.00 | 27.5 | 5.64 | 28.3 | 5.77 | 29.4 | 5.94 | 30.2 | 5.99 |
| | 40 | 38.4 | 19.8 | 4.56 | 21.5 | 5.28 | 23.4 | 6.17 | 25.4 | 6.93 | 26.2 | 7.10 | 27.2 | 7.27 | 28.0 | 7.40 |
| | | 48.0 | 19.8 | 4.46 | 21.5 | 5.20 | 23.4 | 6.06 | 25.4 | 6.82 | 26.2 | 6.98 | 27.2 | 7.15 | 28.0 | 7.29 |
| | | 96.0 | 19.8 | 4.10 | 21.5 | 4.87 | 23.4 | 5.66 | 25.4 | 6.38 | 26.2 | 6.53 | 27.2 | 6.70 | 28.0 | 6.84 |
| | | 120.0 | 19.8 | 3.99 | 21.5 | 4.76 | 23.4 | 5.55 | 25.4 | 6.26 | 26.2 | 6.41 | 27.2 | 6.58 | 28.0 | 6.66 |
| | | 144.0 | 19.8 | 3.93 | 21.5 | 4.70 | 23.4 | 5.50 | 25.4 | 6.20 | 26.2 | 6.35 | 27.2 | 6.52 | 28.0 | 6.58 |
| | 45 | 38.4 | 18.3 | 4.97 | 19.8 | 5.75 | 21.6 | 6.73 | 23.4 | 7.55 | 24.1 | 7.73 | 25.1 | 7.91 | 25.7 | 8.06 |
| | | 48.0 | 18.3 | 4.87 | 19.8 | 5.66 | 21.6 | 6.61 | 23.4 | 7.43 | 24.1 | 7.61 | 25.1 | 7.79 | 25.7 | 7.94 |
| | | 96.0 | 18.3 | 4.46 | 19.8 | 5.31 | 21.6 | 6.16 | 23.4 | 6.96 | 24.1 | 7.10 | 25.1 | 7.30 | 25.7 | 7.46 |
| | | 120.0 | 18.3 | 4.34 | 19.8 | 5.18 | 21.6 | 6.05 | 23.4 | 6.82 | 24.1 | 6.98 | 25.1 | 7.17 | 25.7 | 7.26 |
| | | 144.0 | 18.3 | 4.28 | 19.8 | 5.12 | 21.6 | 6.00 | 23.4 | 6.76 | 24.1 | 6.92 | 25.1 | 7.10 | 25.7 | 7.17 |
| 100 | 10 | 38.4 | 21.9 | 1.52 | 23.6 | 1.79 | 25.7 | 2.07 | 28.0 | 2.31 | 28.9 | 2.37 | 29.9 | 2.45 | 30.8 | 2.50 |
| | | 48.0 | 21.9 | 1.49 | 23.6 | 1.75 | 25.7 | 2.03 | 28.0 | 2.28 | 28.9 | 2.34 | 29.9 | 2.41 | 30.8 | 2.46 |
| | | 96.0 | 21.9 | 1.38 | 23.6 | 1.62 | 25.7 | 1.91 | 28.0 | 2.15 | 28.9 | 2.21 | 29.9 | 2.26 | 30.8 | 2.28 |
| | | 120.0 | 21.9 | 1.35 | 23.6 | 1.59 | 25.7 | 1.87 | 28.0 | 2.09 | 28.9 | 2.15 | 29.9 | 2.21 | 30.8 | 2.25 |
| | | 144.0 | 21.9 | 1.34 | 23.6 | 1.57 | 25.7 | 1.85 | 28.0 | 2.06 | 28.9 | 2.12 | 29.9 | 2.19 | 30.8 | 2.23 |
| | 15 | 38.4 | 21.9 | 2.07 | 23.6 | 2.41 | 25.7 | 2.81 | 28.0 | 3.16 | 28.9 | 3.23 | 29.9 | 3.32 | 30.8 | 3.38 |
| | | 48.0 | 21.9 | 2.03 | 23.6 | 2.37 | 25.7 | 2.76 | 28.0 | 3.11 | 28.9 | 3.18 | 29.9 | 3.26 | 30.8 | 3.33 |
| | | 96.0 | 21.9 | 1.87 | 23.6 | 2.21 | 25.7 | 2.58 | 28.0 | 2.91 | 28.9 | 2.98 | 29.9 | 3.06 | 30.8 | 3.11 |
| | | 120.0 | 21.9 | 1.82 | 23.6 | 2.16 | 25.7 | 2.53 | 28.0 | 2.85 | 28.9 | 2.92 | 29.9 | 3.00 | 30.8 | 3.03 |
| | | 144.0 | 21.9 | 1.80 | 23.6 | 2.14 | 25.7 | 2.51 | 28.0 | 2.82 | 28.9 | 2.89 | 29.9 | 2.97 | 30.8 | 3.00 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 38.4 | 21.9 | 2.56 | 23.6 | 2.97 | 25.7 | 3.47 | 28.0 | 3.90 | 28.9 | 3.99 | 29.9 | 4.09 | 30.8 | 4.16 |
| | | 48.0 | 21.9 | 2.51 | 23.6 | 2.92 | 25.7 | 3.41 | 28.0 | 3.84 | 28.9 | 3.92 | 29.9 | 4.02 | 30.8 | 4.10 |
| | | 96.0 | 21.9 | 2.31 | 23.6 | 2.74 | 25.7 | 3.18 | 28.0 | 3.58 | 28.9 | 3.67 | 29.9 | 3.77 | 30.8 | 3.84 |
| | | 120.0 | 21.9 | 2.24 | 23.6 | 2.68 | 25.7 | 3.12 | 28.0 | 3.52 | 28.9 | 3.61 | 29.9 | 3.69 | 30.8 | 3.73 |
| | | 144.0 | 21.9 | 2.20 | 23.6 | 2.65 | 25.7 | 3.09 | 28.0 | 3.49 | 28.9 | 3.58 | 29.9 | 3.66 | 30.8 | 3.67 |
| | 25 | 38.4 | 21.9 | 3.12 | 23.6 | 3.63 | 25.7 | 4.23 | 28.0 | 4.76 | 28.9 | 4.87 | 29.9 | 4.98 | 30.8 | 5.08 |
| | | 48.0 | 21.9 | 3.06 | 23.6 | 3.57 | 25.7 | 4.16 | 28.0 | 4.68 | 28.9 | 4.79 | 29.9 | 4.90 | 30.8 | 5.00 |
| | | 96.0 | 21.9 | 2.81 | 23.6 | 3.34 | 25.7 | 3.89 | 28.0 | 4.38 | 28.9 | 4.48 | 29.9 | 4.60 | 30.8 | 4.67 |
| | | 120.0 | 21.9 | 2.74 | 23.6 | 3.26 | 25.7 | 3.80 | 28.0 | 4.29 | 28.9 | 4.39 | 29.9 | 4.51 | 30.8 | 4.55 |
| | | 144.0 | 21.9 | 2.70 | 23.6 | 3.23 | 25.7 | 3.76 | 28.0 | 4.25 | 28.9 | 4.35 | 29.9 | 4.47 | 30.8 | 4.49 |
| | 30 | 38.4 | 21.9 | 3.84 | 23.6 | 4.46 | 25.7 | 5.19 | 28.0 | 5.85 | 28.9 | 5.99 | 29.9 | 6.14 | 30.8 | 6.25 |
| | | 48.0 | 21.9 | 3.77 | 23.6 | 4.39 | 25.7 | 5.11 | 28.0 | 5.76 | 28.9 | 5.89 | 29.9 | 6.04 | 30.8 | 6.15 |
| | | 96.0 | 21.9 | 3.46 | 23.6 | 4.10 | 25.7 | 4.78 | 28.0 | 5.38 | 28.9 | 5.50 | 29.9 | 5.65 | 30.8 | 5.75 |
| | | 120.0 | 21.9 | 3.36 | 23.6 | 4.01 | 25.7 | 4.68 | 28.0 | 5.27 | 28.9 | 5.40 | 29.9 | 5.54 | 30.8 | 5.60 |
| | | 144.0 | 21.9 | 3.31 | 23.6 | 3.97 | 25.7 | 4.63 | 28.0 | 5.22 | 28.9 | 5.36 | 29.9 | 5.48 | 30.8 | 5.53 |
| | 35 | 38.4 | 20.8 | 4.05 | 22.5 | 4.71 | 24.5 | 5.48 | 26.6 | 6.18 | 27.4 | 6.33 | 28.5 | 6.47 | 29.2 | 6.59 |
| | | 48.0 | 20.8 | 3.97 | 22.5 | 4.63 | 24.5 | 5.39 | 26.6 | 6.08 | 27.4 | 6.22 | 28.5 | 6.37 | 29.2 | 6.48 |
| | | 96.0 | 20.8 | 3.66 | 22.5 | 4.33 | 24.5 | 5.04 | 26.6 | 5.67 | 27.4 | 5.82 | 28.5 | 5.97 | 29.2 | 6.06 |
| | | 120.0 | 20.8 | 3.55 | 22.5 | 4.24 | 24.5 | 4.94 | 26.6 | 5.56 | 27.4 | 5.71 | 28.5 | 5.86 | 29.2 | 5.91 |
| | | 144.0 | 20.8 | 3.49 | 22.5 | 4.20 | 24.5 | 4.89 | 26.6 | 5.51 | 27.4 | 5.66 | 28.5 | 5.80 | 29.2 | 5.83 |
| | 40 | 38.4 | 19.6 | 4.54 | 21.3 | 5.28 | 23.2 | 6.15 | 25.2 | 6.92 | 25.9 | 7.10 | 27.0 | 7.27 | 27.7 | 7.39 |
| | | 48.0 | 19.6 | 4.45 | 21.3 | 5.20 | 23.2 | 6.05 | 25.2 | 6.81 | 25.9 | 6.98 | 27.0 | 7.15 | 27.7 | 7.28 |
| | | 96.0 | 19.6 | 4.10 | 21.3 | 4.85 | 23.2 | 5.66 | 25.2 | 6.37 | 25.9 | 6.52 | 27.0 | 6.69 | 27.7 | 6.81 |
| | | 120.0 | 19.6 | 3.99 | 21.3 | 4.76 | 23.2 | 5.54 | 25.2 | 6.25 | 25.9 | 6.41 | 27.0 | 6.57 | 27.7 | 6.63 |
| | | 144.0 | 19.6 | 3.93 | 21.3 | 4.71 | 23.2 | 5.48 | 25.2 | 6.19 | 25.9 | 6.35 | 27.0 | 6.51 | 27.7 | 6.54 |
| | 45 | 38.4 | 18.5 | 5.03 | 20.1 | 5.85 | 21.9 | 6.82 | 23.8 | 7.66 | 24.5 | 7.87 | 25.4 | 8.07 | 26.2 | 8.20 |
| | | 48.0 | 18.5 | 4.93 | 20.1 | 5.76 | 21.9 | 6.71 | 23.8 | 7.54 | 24.5 | 7.74 | 25.4 | 7.94 | 26.2 | 8.07 |
| | | 96.0 | 18.5 | 4.54 | 20.1 | 5.38 | 21.9 | 6.28 | 23.8 | 7.07 | 24.5 | 7.21 | 25.4 | 7.41 | 26.2 | 7.56 |
| | | 120.0 | 18.5 | 4.43 | 20.1 | 5.27 | 21.9 | 6.14 | 23.8 | 6.93 | 24.5 | 7.10 | 25.4 | 7.28 | 26.2 | 7.35 |
| | | 144.0 | 18.5 | 4.37 | 20.1 | 5.22 | 21.9 | 6.07 | 23.8 | 6.87 | 24.5 | 7.05 | 25.4 | 7.21 | 26.2 | 7.25 |
| 90 | 10 | 38.4 | 19.6 | 1.32 | 21.3 | 1.53 | 23.2 | 1.76 | 25.2 | 2.01 | 25.9 | 2.06 | 27.0 | 2.12 | 27.7 | 2.15 |
| | | 48.0 | 19.6 | 1.29 | 21.3 | 1.51 | 23.2 | 1.74 | 25.2 | 1.98 | 25.9 | 2.02 | 27.0 | 2.08 | 27.7 | 2.12 |
| | | 96.0 | 19.6 | 1.20 | 21.3 | 1.41 | 23.2 | 1.65 | 25.2 | 1.86 | 25.9 | 1.89 | 27.0 | 1.94 | 27.7 | 1.98 |
| | | 120.0 | 19.6 | 1.15 | 21.3 | 1.39 | 23.2 | 1.60 | 25.2 | 1.81 | 25.9 | 1.86 | 27.0 | 1.91 | 27.7 | 1.92 |
| | | 144.0 | 19.6 | 1.13 | 21.3 | 1.38 | 23.2 | 1.57 | 25.2 | 1.79 | 25.9 | 1.84 | 27.0 | 1.89 | 27.7 | 1.89 |
| | 15 | 38.4 | 19.6 | 1.78 | 21.3 | 2.08 | 23.2 | 2.41 | 25.2 | 2.72 | 25.9 | 2.78 | 27.0 | 2.86 | 27.7 | 2.91 |
| | | 48.0 | 19.6 | 1.75 | 21.3 | 2.04 | 23.2 | 2.37 | 25.2 | 2.68 | 25.9 | 2.74 | 27.0 | 2.81 | 27.7 | 2.86 |
| | | 96.0 | 19.6 | 1.61 | 21.3 | 1.91 | 23.2 | 2.23 | 25.2 | 2.51 | 25.9 | 2.57 | 27.0 | 2.63 | 27.7 | 2.68 |
| | | 120.0 | 19.6 | 1.57 | 21.3 | 1.87 | 23.2 | 2.18 | 25.2 | 2.46 | 25.9 | 2.52 | 27.0 | 2.58 | 27.7 | 2.60 |
| | | 144.0 | 19.6 | 1.54 | 21.3 | 1.85 | 23.2 | 2.15 | 25.2 | 2.43 | 25.9 | 2.49 | 27.0 | 2.56 | 27.7 | 2.57 |
| | 20 | 38.4 | 19.6 | 2.20 | 21.3 | 2.56 | 23.2 | 2.98 | 25.2 | 3.36 | 25.9 | 3.43 | 27.0 | 3.52 | 27.7 | 3.58 |
| | | 48.0 | 19.6 | 2.15 | 21.3 | 2.52 | 23.2 | 2.93 | 25.2 | 3.30 | 25.9 | 3.37 | 27.0 | 3.46 | 27.7 | 3.52 |
| | | 96.0 | 19.6 | 1.98 | 21.3 | 2.35 | 23.2 | 2.74 | 25.2 | 3.08 | 25.9 | 3.17 | 27.0 | 3.24 | 27.7 | 3.30 |
| | | 120.0 | 19.6 | 1.93 | 21.3 | 2.30 | 23.2 | 2.69 | 25.2 | 3.03 | 25.9 | 3.11 | 27.0 | 3.18 | 27.7 | 3.22 |
| | | 144.0 | 19.6 | 1.91 | 21.3 | 2.27 | 23.2 | 2.67 | 25.2 | 3.01 | 25.9 | 3.08 | 27.0 | 3.15 | 27.7 | 3.17 |
| | 25 | 38.4 | 19.6 | 2.68 | 21.3 | 3.12 | 23.2 | 3.63 | 25.2 | 4.09 | 25.9 | 4.19 | 27.0 | 4.29 | 27.7 | 4.38 |
| | | 48.0 | 19.6 | 2.63 | 21.3 | 3.07 | 23.2 | 3.57 | 25.2 | 4.02 | 25.9 | 4.12 | 27.0 | 4.22 | 27.7 | 4.30 |
| | | 96.0 | 19.6 | 2.42 | 21.3 | 2.87 | 23.2 | 3.34 | 25.2 | 3.77 | 25.9 | 3.85 | 27.0 | 3.95 | 27.7 | 4.02 |
| | | 120.0 | 19.6 | 2.35 | 21.3 | 2.81 | 23.2 | 3.28 | 25.2 | 3.69 | 25.9 | 3.78 | 27.0 | 3.88 | 27.7 | 3.92 |
| | | 144.0 | 19.6 | 2.31 | 21.3 | 2.78 | 23.2 | 3.25 | 25.2 | 3.66 | 25.9 | 3.74 | 27.0 | 3.84 | 27.7 | 3.88 |
| | 30 | 38.4 | 19.6 | 3.31 | 21.3 | 3.84 | 23.2 | 4.48 | 25.2 | 5.03 | 25.9 | 5.16 | 27.0 | 5.28 | 27.7 | 5.38 |
| | | 48.0 | 19.6 | 3.24 | 21.3 | 3.78 | 23.2 | 4.40 | 25.2 | 4.95 | 25.9 | 5.07 | 27.0 | 5.20 | 27.7 | 5.29 |
| | | 96.0 | 19.6 | 2.97 | 21.3 | 3.53 | 23.2 | 4.11 | 25.2 | 4.63 | 25.9 | 4.74 | 27.0 | 4.87 | 27.7 | 4.95 |
| | | 120.0 | 19.6 | 2.90 | 21.3 | 3.46 | 23.2 | 4.02 | 25.2 | 4.54 | 25.9 | 4.66 | 27.0 | 4.77 | 27.7 | 4.82 |
| | | 144.0 | 19.6 | 2.86 | 21.3 | 3.42 | 23.2 | 3.98 | 25.2 | 4.49 | 25.9 | 4.62 | 27.0 | 4.72 | 27.7 | 4.75 |
| | 35 | 38.4 | 19.1 | 3.57 | 20.7 | 4.14 | 22.6 | 4.82 | 24.5 | 5.43 | 25.2 | 5.56 | 26.2 | 5.69 | 27.0 | 5.80 |
| | | 48.0 | 19.1 | 3.50 | 20.7 | 4.07 | 22.6 | 4.74 | 24.5 | 5.34 | 25.2 | 5.47 | 26.2 | 5.60 | 27.0 | 5.71 |
| | | 96.0 | 19.1 | 3.22 | 20.7 | 3.81 | 22.6 | 4.44 | 24.5 | 5.00 | 25.2 | 5.11 | 26.2 | 5.25 | 27.0 | 5.34 |
| | | 120.0 | 19.1 | 3.12 | 20.7 | 3.73 | 22.6 | 4.34 | 24.5 | 4.90 | 25.2 | 5.03 | 26.2 | 5.15 | 27.0 | 5.20 |
| | | 144.0 | 19.1 | 3.07 | 20.7 | 3.69 | 22.6 | 4.29 | 24.5 | 4.85 | 25.2 | 4.98 | 26.2 | 5.10 | 27.0 | 5.12 |
| | 40 | 38.4 | 18.6 | 4.09 | 20.1 | 4.76 | 21.9 | 5.54 | 23.8 | 6.24 | 24.5 | 6.39 | 25.5 | 6.55 | 26.2 | 6.66 |
| | | 48.0 | 18.6 | 4.01 | 20.1 | 4.68 | 21.9 | 5.45 | 23.8 | 6.14 | 24.5 | 6.28 | 25.5 | 6.44 | 26.2 | 6.55 |
| | | 96.0 | 18.6 | 3.69 | 20.1 | 4.38 | 21.9 | 5.10 | 23.8 | 5.73 | 24.5 | 5.88 | 25.5 | 6.03 | 26.2 | 6.14 |
| | | 120.0 | 18.6 | 3.58 | 20.1 | 4.28 | 21.9 | 4.99 | 23.8 | 5.62 | 24.5 | 5.77 | 25.5 | 5.92 | 26.2 | 5.98 |
| | | 144.0 | 18.6 | 3.53 | 20.1 | 4.23 | 21.9 | 4.93 | 23.8 | 5.57 | 24.5 | 5.72 | 25.5 | 5.86 | 26.2 | 5.90 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 38.4 | 18.0 | 4.61 | 19.5 | 5.38 | 21.2 | 6.26 | 23.1 | 7.05 | 23.8 | 7.22 | 24.7 | 7.41 | 25.4 | 7.51 |
| | | 48.0 | 18.0 | 4.52 | 19.5 | 5.29 | 21.2 | 6.16 | 23.1 | 6.93 | 23.8 | 7.10 | 24.7 | 7.29 | 25.4 | 7.40 |
| | | 96.0 | 18.0 | 4.17 | 19.5 | 4.94 | 21.2 | 5.76 | 23.1 | 6.47 | 23.8 | 6.65 | 24.7 | 6.81 | 25.4 | 6.93 |
| | | 120.0 | 18.0 | 4.05 | 19.5 | 4.83 | 21.2 | 5.64 | 23.1 | 6.35 | 23.8 | 6.52 | 24.7 | 6.69 | 25.4 | 6.76 |
| | | 144.0 | 18.0 | 3.99 | 19.5 | 4.78 | 21.2 | 5.58 | 23.1 | 6.29 | 23.8 | 6.45 | 24.7 | 6.63 | 25.4 | 6.68 |
| 80 | 10 | 38.4 | 17.5 | 1.11 | 18.9 | 1.28 | 20.6 | 1.50 | 22.4 | 1.70 | 23.1 | 1.72 | 24.0 | 1.79 | 24.7 | 1.79 |
| | | 48.0 | 17.5 | 1.08 | 18.9 | 1.26 | 20.6 | 1.47 | 22.4 | 1.67 | 23.1 | 1.69 | 24.0 | 1.75 | 24.7 | 1.76 |
| | | 96.0 | 17.5 | 0.99 | 18.9 | 1.19 | 20.6 | 1.36 | 22.4 | 1.55 | 23.1 | 1.59 | 24.0 | 1.62 | 24.7 | 1.65 |
| | | 120.0 | 17.5 | 0.96 | 18.9 | 1.15 | 20.6 | 1.34 | 22.4 | 1.50 | 23.1 | 1.54 | 24.0 | 1.60 | 24.7 | 1.62 |
| | | 144.0 | 17.5 | 0.95 | 18.9 | 1.13 | 20.6 | 1.33 | 22.4 | 1.48 | 23.1 | 1.51 | 24.0 | 1.59 | 24.7 | 1.61 |
| | 15 | 38.4 | 17.5 | 1.50 | 18.9 | 1.74 | 20.6 | 2.03 | 22.4 | 2.29 | 23.1 | 2.34 | 24.0 | 2.40 | 24.7 | 2.44 |
| | | 48.0 | 17.5 | 1.47 | 18.9 | 1.71 | 20.6 | 1.99 | 22.4 | 2.25 | 23.1 | 2.30 | 24.0 | 2.36 | 24.7 | 2.40 |
| | | 96.0 | 17.5 | 1.35 | 18.9 | 1.60 | 20.6 | 1.86 | 22.4 | 2.10 | 23.1 | 2.15 | 24.0 | 2.20 | 24.7 | 2.24 |
| | | 120.0 | 17.5 | 1.31 | 18.9 | 1.57 | 20.6 | 1.82 | 22.4 | 2.05 | 23.1 | 2.10 | 24.0 | 2.16 | 24.7 | 2.19 |
| | | 144.0 | 17.5 | 1.29 | 18.9 | 1.55 | 20.6 | 1.80 | 22.4 | 2.03 | 23.1 | 2.08 | 24.0 | 2.15 | 24.7 | 2.16 |
| | 20 | 38.4 | 17.5 | 1.85 | 18.9 | 2.15 | 20.6 | 2.50 | 22.4 | 2.81 | 23.1 | 2.88 | 24.0 | 2.94 | 24.7 | 3.01 |
| | | 48.0 | 17.5 | 1.81 | 18.9 | 2.12 | 20.6 | 2.46 | 22.4 | 2.76 | 23.1 | 2.84 | 24.0 | 2.90 | 24.7 | 2.96 |
| | | 96.0 | 17.5 | 1.66 | 18.9 | 1.97 | 20.6 | 2.30 | 22.4 | 2.59 | 23.1 | 2.65 | 24.0 | 2.71 | 24.7 | 2.76 |
| | | 120.0 | 17.5 | 1.61 | 18.9 | 1.93 | 20.6 | 2.25 | 22.4 | 2.54 | 23.1 | 2.60 | 24.0 | 2.67 | 24.7 | 2.69 |
| | | 144.0 | 17.5 | 1.59 | 18.9 | 1.91 | 20.6 | 2.23 | 22.4 | 2.52 | 23.1 | 2.58 | 24.0 | 2.64 | 24.7 | 2.65 |
| | 25 | 38.4 | 17.5 | 2.24 | 18.9 | 2.61 | 20.6 | 3.05 | 22.4 | 3.43 | 23.1 | 3.52 | 24.0 | 3.60 | 24.7 | 3.67 |
| | | 48.0 | 17.5 | 2.20 | 18.9 | 2.57 | 20.6 | 3.00 | 22.4 | 3.37 | 23.1 | 3.46 | 24.0 | 3.55 | 24.7 | 3.61 |
| | | 96.0 | 17.5 | 2.03 | 18.9 | 2.41 | 20.6 | 2.80 | 22.4 | 3.15 | 23.1 | 3.23 | 24.0 | 3.31 | 24.7 | 3.37 |
| | | 120.0 | 17.5 | 1.97 | 18.9 | 2.36 | 20.6 | 2.75 | 22.4 | 3.09 | 23.1 | 3.17 | 24.0 | 3.25 | 24.7 | 3.29 |
| | | 144.0 | 17.5 | 1.94 | 18.9 | 2.34 | 20.6 | 2.73 | 22.4 | 3.06 | 23.1 | 3.14 | 24.0 | 3.22 | 24.7 | 3.25 |
| | 30 | 38.4 | 17.5 | 2.77 | 18.9 | 3.22 | 20.6 | 3.75 | 22.4 | 4.23 | 23.1 | 4.33 | 24.0 | 4.42 | 24.7 | 4.51 |
| | | 48.0 | 17.5 | 2.71 | 18.9 | 3.17 | 20.6 | 3.69 | 22.4 | 4.16 | 23.1 | 4.26 | 24.0 | 4.35 | 24.7 | 4.44 |
| | | 96.0 | 17.5 | 2.49 | 18.9 | 2.96 | 20.6 | 3.45 | 22.4 | 3.88 | 23.1 | 3.97 | 24.0 | 4.07 | 24.7 | 4.15 |
| | | 120.0 | 17.5 | 2.42 | 18.9 | 2.90 | 20.6 | 3.37 | 22.4 | 3.80 | 23.1 | 3.90 | 24.0 | 4.00 | 24.7 | 4.04 |
| | | 144.0 | 17.5 | 2.38 | 18.9 | 2.87 | 20.6 | 3.34 | 22.4 | 3.77 | 23.1 | 3.86 | 24.0 | 3.96 | 24.7 | 3.98 |
| | 35 | 38.4 | 17.5 | 3.08 | 18.9 | 3.58 | 20.6 | 4.16 | 22.4 | 4.68 | 23.1 | 4.80 | 24.0 | 4.92 | 24.7 | 5.01 |
| | | 48.0 | 17.5 | 3.02 | 18.9 | 3.52 | 20.6 | 4.10 | 22.4 | 4.61 | 23.1 | 4.72 | 24.0 | 4.84 | 24.7 | 4.93 |
| | | 96.0 | 17.5 | 2.78 | 18.9 | 3.29 | 20.6 | 3.83 | 22.4 | 4.32 | 23.1 | 4.41 | 24.0 | 4.52 | 24.7 | 4.61 |
| | | 120.0 | 17.5 | 2.70 | 18.9 | 3.22 | 20.6 | 3.75 | 22.4 | 4.23 | 23.1 | 4.33 | 24.0 | 4.45 | 24.7 | 4.49 |
| | | 144.0 | 17.5 | 2.67 | 18.9 | 3.18 | 20.6 | 3.72 | 22.4 | 4.19 | 23.1 | 4.29 | 24.0 | 4.41 | 24.7 | 4.43 |
| | 40 | 38.4 | 17.5 | 3.64 | 18.9 | 4.24 | 20.6 | 4.93 | 22.4 | 5.56 | 23.1 | 5.68 | 24.0 | 5.83 | 24.7 | 5.93 |
| | | 48.0 | 17.5 | 3.57 | 18.9 | 4.17 | 20.6 | 4.85 | 22.4 | 5.47 | 23.1 | 5.59 | 24.0 | 5.73 | 24.7 | 5.83 |
| | | 96.0 | 17.5 | 3.29 | 18.9 | 3.89 | 20.6 | 4.54 | 22.4 | 5.11 | 23.1 | 5.23 | 24.0 | 5.37 | 24.7 | 5.47 |
| | | 120.0 | 17.5 | 3.19 | 18.9 | 3.81 | 20.6 | 4.44 | 22.4 | 5.01 | 23.1 | 5.14 | 24.0 | 5.26 | 24.7 | 5.32 |
| | | 144.0 | 17.5 | 3.14 | 18.9 | 3.78 | 20.6 | 4.39 | 22.4 | 4.96 | 23.1 | 5.09 | 24.0 | 5.20 | 24.7 | 5.25 |
| | 45 | 38.4 | 17.5 | 4.20 | 18.9 | 4.90 | 20.6 | 5.70 | 22.4 | 6.43 | 23.1 | 6.56 | 24.0 | 6.73 | 24.7 | 6.84 |
| | | 48.0 | 17.5 | 4.12 | 18.9 | 4.82 | 20.6 | 5.61 | 22.4 | 6.32 | 23.1 | 6.46 | 24.0 | 6.63 | 24.7 | 6.74 |
| | | 96.0 | 17.5 | 3.80 | 18.9 | 4.49 | 20.6 | 5.25 | 22.4 | 5.91 | 23.1 | 6.05 | 24.0 | 6.21 | 24.7 | 6.32 |
| | | 120.0 | 17.5 | 3.68 | 18.9 | 4.41 | 20.6 | 5.12 | 22.4 | 5.80 | 23.1 | 5.94 | 24.0 | 6.06 | 24.7 | 6.15 |
| | | 144.0 | 17.5 | 3.62 | 18.9 | 4.38 | 20.6 | 5.06 | 22.4 | 5.74 | 23.1 | 5.89 | 24.0 | 5.99 | 24.7 | 6.07 |
| 70 | 10 | 38.4 | 15.3 | 0.92 | 16.6 | 1.06 | 18.0 | 1.26 | 19.6 | 1.41 | 20.2 | 1.42 | 21.0 | 1.47 | 21.5 | 1.49 |
| | | 48.0 | 15.3 | 0.91 | 16.6 | 1.05 | 18.0 | 1.24 | 19.6 | 1.39 | 20.2 | 1.40 | 21.0 | 1.45 | 21.5 | 1.47 |
| | | 96.0 | 15.3 | 0.84 | 16.6 | 0.99 | 18.0 | 1.15 | 19.6 | 1.29 | 20.2 | 1.32 | 21.0 | 1.35 | 21.5 | 1.39 |
| | | 120.0 | 15.3 | 0.80 | 16.6 | 0.95 | 18.0 | 1.12 | 19.6 | 1.26 | 20.2 | 1.28 | 21.0 | 1.33 | 21.5 | 1.35 |
| | | 144.0 | 15.3 | 0.78 | 16.6 | 0.93 | 18.0 | 1.10 | 19.6 | 1.24 | 20.2 | 1.26 | 21.0 | 1.32 | 21.5 | 1.34 |
| | 15 | 38.4 | 15.3 | 1.25 | 16.6 | 1.44 | 18.0 | 1.69 | 19.6 | 1.90 | 20.2 | 1.94 | 21.0 | 1.99 | 21.5 | 2.02 |
| | | 48.0 | 15.3 | 1.22 | 16.6 | 1.42 | 18.0 | 1.66 | 19.6 | 1.87 | 20.2 | 1.91 | 21.0 | 1.96 | 21.5 | 1.99 |
| | | 96.0 | 15.3 | 1.12 | 16.6 | 1.33 | 18.0 | 1.55 | 19.6 | 1.75 | 20.2 | 1.79 | 21.0 | 1.83 | 21.5 | 1.87 |
| | | 120.0 | 15.3 | 1.09 | 16.6 | 1.30 | 18.0 | 1.52 | 19.6 | 1.71 | 20.2 | 1.75 | 21.0 | 1.80 | 21.5 | 1.82 |
| | | 144.0 | 15.3 | 1.07 | 16.6 | 1.28 | 18.0 | 1.50 | 19.6 | 1.69 | 20.2 | 1.73 | 21.0 | 1.78 | 21.5 | 1.80 |
| | 20 | 38.4 | 15.3 | 1.53 | 16.6 | 1.78 | 18.0 | 2.08 | 19.6 | 2.34 | 20.2 | 2.40 | 21.0 | 2.45 | 21.5 | 2.50 |
| | | 48.0 | 15.3 | 1.50 | 16.6 | 1.75 | 18.0 | 2.04 | 19.6 | 2.30 | 20.2 | 2.36 | 21.0 | 2.41 | 21.5 | 2.46 |
| | | 96.0 | 15.3 | 1.38 | 16.6 | 1.64 | 18.0 | 1.91 | 19.6 | 2.15 | 20.2 | 2.20 | 21.0 | 2.26 | 21.5 | 2.30 |
| | | 120.0 | 15.3 | 1.35 | 16.6 | 1.60 | 18.0 | 1.87 | 19.6 | 2.12 | 20.2 | 2.16 | 21.0 | 2.21 | 21.5 | 2.24 |
| | | 144.0 | 15.3 | 1.33 | 16.6 | 1.58 | 18.0 | 1.85 | 19.6 | 2.10 | 20.2 | 2.15 | 21.0 | 2.19 | 21.5 | 2.21 |
| | 25 | 38.4 | 15.3 | 1.87 | 16.6 | 2.17 | 18.0 | 2.53 | 19.6 | 2.86 | 20.2 | 2.92 | 21.0 | 3.00 | 21.5 | 3.05 |
| | | 48.0 | 15.3 | 1.83 | 16.6 | 2.14 | 18.0 | 2.49 | 19.6 | 2.81 | 20.2 | 2.87 | 21.0 | 2.95 | 21.5 | 3.00 |
| | | 96.0 | 15.3 | 1.69 | 16.6 | 2.01 | 18.0 | 2.34 | 19.6 | 2.63 | 20.2 | 2.69 | 21.0 | 2.75 | 21.5 | 2.80 |
| | | 120.0 | 15.3 | 1.64 | 16.6 | 1.96 | 18.0 | 2.29 | 19.6 | 2.57 | 20.2 | 2.64 | 21.0 | 2.70 | 21.5 | 2.73 |
| | | 144.0 | 15.3 | 1.61 | 16.6 | 1.93 | 18.0 | 2.26 | 19.6 | 2.54 | 20.2 | 2.62 | 21.0 | 2.68 | 21.5 | 2.69 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 38.4 | 15.3 | 2.31 | 16.6 | 2.67 | 18.0 | 3.12 | 19.6 | 3.50 | 20.2 | 3.59 | 21.0 | 3.68 | 21.5 | 3.74 |
| | | 48.0 | 15.3 | 2.26 | 16.6 | 2.63 | 18.0 | 3.07 | 19.6 | 3.45 | 20.2 | 3.53 | 21.0 | 3.62 | 21.5 | 3.68 |
| | | 96.0 | 15.3 | 2.08 | 16.6 | 2.46 | 18.0 | 2.86 | 19.6 | 3.23 | 20.2 | 3.30 | 21.0 | 3.39 | 21.5 | 3.45 |
| | | 120.0 | 15.3 | 2.02 | 16.6 | 2.41 | 18.0 | 2.81 | 19.6 | 3.17 | 20.2 | 3.24 | 21.0 | 3.33 | 21.5 | 3.36 |
| | | 144.0 | 15.3 | 1.99 | 16.6 | 2.38 | 18.0 | 2.79 | 19.6 | 3.14 | 20.2 | 3.21 | 21.0 | 3.30 | 21.5 | 3.32 |
| | 35 | 38.4 | 15.3 | 2.56 | 16.6 | 2.97 | 18.0 | 3.47 | 19.6 | 3.90 | 20.2 | 3.99 | 21.0 | 4.09 | 21.5 | 4.16 |
| | | 48.0 | 15.3 | 2.51 | 16.6 | 2.92 | 18.0 | 3.41 | 19.6 | 3.84 | 20.2 | 3.92 | 21.0 | 4.02 | 21.5 | 4.10 |
| | | 96.0 | 15.3 | 2.31 | 16.6 | 2.74 | 18.0 | 3.18 | 19.6 | 3.58 | 20.2 | 3.67 | 21.0 | 3.77 | 21.5 | 3.84 |
| | | 120.0 | 15.3 | 2.24 | 16.6 | 2.68 | 18.0 | 3.12 | 19.6 | 3.52 | 20.2 | 3.61 | 21.0 | 3.69 | 21.5 | 3.73 |
| | | 144.0 | 15.3 | 2.20 | 16.6 | 2.65 | 18.0 | 3.09 | 19.6 | 3.49 | 20.2 | 3.58 | 21.0 | 3.66 | 21.5 | 3.67 |
| | 40 | 38.4 | 15.3 | 3.03 | 16.6 | 3.52 | 18.0 | 4.10 | 19.6 | 4.61 | 20.2 | 4.72 | 21.0 | 4.85 | 21.5 | 4.93 |
| | | 48.0 | 15.3 | 2.97 | 16.6 | 3.46 | 18.0 | 4.04 | 19.6 | 4.54 | 20.2 | 4.65 | 21.0 | 4.77 | 21.5 | 4.85 |
| | | 96.0 | 15.3 | 2.73 | 16.6 | 3.24 | 18.0 | 3.77 | 19.6 | 4.24 | 20.2 | 4.35 | 21.0 | 4.46 | 21.5 | 4.54 |
| | | 120.0 | 15.3 | 2.65 | 16.6 | 3.17 | 18.0 | 3.69 | 19.6 | 4.17 | 20.2 | 4.27 | 21.0 | 4.38 | 21.5 | 4.43 |
| | | 144.0 | 15.3 | 2.62 | 16.6 | 3.13 | 18.0 | 3.66 | 19.6 | 4.13 | 20.2 | 4.22 | 21.0 | 4.33 | 21.5 | 4.37 |
| | 45 | 38.4 | 15.3 | 3.51 | 16.6 | 4.06 | 18.0 | 4.74 | 19.6 | 5.32 | 20.2 | 5.45 | 21.0 | 5.60 | 21.5 | 5.71 |
| | | 48.0 | 15.3 | 3.44 | 16.6 | 4.00 | 18.0 | 4.66 | 19.6 | 5.23 | 20.2 | 5.37 | 21.0 | 5.51 | 21.5 | 5.61 |
| | | 96.0 | 15.3 | 3.14 | 16.6 | 3.74 | 18.0 | 4.35 | 19.6 | 4.90 | 20.2 | 5.04 | 21.0 | 5.16 | 21.5 | 5.23 |
| | | 120.0 | 15.3 | 3.07 | 16.6 | 3.66 | 18.0 | 4.27 | 19.6 | 4.82 | 20.2 | 4.93 | 21.0 | 5.06 | 21.5 | 5.12 |
| | | 144.0 | 15.3 | 3.03 | 16.6 | 3.61 | 18.0 | 4.22 | 19.6 | 4.77 | 20.2 | 4.87 | 21.0 | 5.01 | 21.5 | 5.07 |
| 60 | 10 | 38.4 | 13.1 | 0.75 | 14.2 | 0.86 | 15.4 | 0.99 | 16.8 | 1.12 | 17.3 | 1.15 | 18.0 | 1.19 | 18.5 | 1.19 |
| | | 48.0 | 13.1 | 0.73 | 14.2 | 0.85 | 15.4 | 0.98 | 16.8 | 1.11 | 17.3 | 1.13 | 18.0 | 1.17 | 18.5 | 1.18 |
| | | 96.0 | 13.1 | 0.66 | 14.2 | 0.79 | 15.4 | 0.90 | 16.8 | 1.04 | 17.3 | 1.03 | 18.0 | 1.07 | 18.5 | 1.11 |
| | | 120.0 | 13.1 | 0.63 | 14.2 | 0.76 | 15.4 | 0.89 | 16.8 | 1.01 | 17.3 | 1.02 | 18.0 | 1.05 | 18.5 | 1.06 |
| | | 144.0 | 13.1 | 0.62 | 14.2 | 0.75 | 15.4 | 0.89 | 16.8 | 1.00 | 17.3 | 1.02 | 18.0 | 1.03 | 18.5 | 1.03 |
| | 15 | 38.4 | 13.1 | 1.00 | 14.2 | 1.16 | 15.4 | 1.34 | 16.8 | 1.52 | 17.3 | 1.56 | 18.0 | 1.59 | 18.5 | 1.61 |
| | | 48.0 | 13.1 | 0.98 | 14.2 | 1.14 | 15.4 | 1.32 | 16.8 | 1.49 | 17.3 | 1.53 | 18.0 | 1.57 | 18.5 | 1.59 |
| | | 96.0 | 13.1 | 0.89 | 14.2 | 1.06 | 15.4 | 1.23 | 16.8 | 1.39 | 17.3 | 1.42 | 18.0 | 1.46 | 18.5 | 1.49 |
| | | 120.0 | 13.1 | 0.87 | 14.2 | 1.04 | 15.4 | 1.21 | 16.8 | 1.37 | 17.3 | 1.39 | 18.0 | 1.43 | 18.5 | 1.44 |
| | | 144.0 | 13.1 | 0.86 | 14.2 | 1.03 | 15.4 | 1.20 | 16.8 | 1.36 | 17.3 | 1.38 | 18.0 | 1.42 | 18.5 | 1.42 |
| | 20 | 38.4 | 13.1 | 1.22 | 14.2 | 1.42 | 15.4 | 1.65 | 16.8 | 1.86 | 17.3 | 1.91 | 18.0 | 1.95 | 18.5 | 1.99 |
| | | 48.0 | 13.1 | 1.20 | 14.2 | 1.39 | 15.4 | 1.63 | 16.8 | 1.83 | 17.3 | 1.88 | 18.0 | 1.92 | 18.5 | 1.96 |
| | | 96.0 | 13.1 | 1.10 | 14.2 | 1.31 | 15.4 | 1.53 | 16.8 | 1.71 | 17.3 | 1.76 | 18.0 | 1.80 | 18.5 | 1.83 |
| | | 120.0 | 13.1 | 1.08 | 14.2 | 1.28 | 15.4 | 1.49 | 16.8 | 1.69 | 17.3 | 1.72 | 18.0 | 1.77 | 18.5 | 1.79 |
| | | 144.0 | 13.1 | 1.06 | 14.2 | 1.27 | 15.4 | 1.47 | 16.8 | 1.68 | 17.3 | 1.71 | 18.0 | 1.76 | 18.5 | 1.76 |
| | 25 | 38.4 | 13.1 | 1.50 | 14.2 | 1.73 | 15.4 | 2.01 | 16.8 | 2.27 | 17.3 | 2.32 | 18.0 | 2.38 | 18.5 | 2.42 |
| | | 48.0 | 13.1 | 1.47 | 14.2 | 1.70 | 15.4 | 1.98 | 16.8 | 2.24 | 17.3 | 2.29 | 18.0 | 2.35 | 18.5 | 2.38 |
| | | 96.0 | 13.1 | 1.35 | 14.2 | 1.59 | 15.4 | 1.86 | 16.8 | 2.09 | 17.3 | 2.14 | 18.0 | 2.20 | 18.5 | 2.24 |
| | | 120.0 | 13.1 | 1.31 | 14.2 | 1.57 | 15.4 | 1.82 | 16.8 | 2.05 | 17.3 | 2.10 | 18.0 | 2.15 | 18.5 | 2.18 |
| | | 144.0 | 13.1 | 1.29 | 14.2 | 1.55 | 15.4 | 1.80 | 16.8 | 2.04 | 17.3 | 2.08 | 18.0 | 2.13 | 18.5 | 2.15 |
| | 30 | 38.4 | 13.1 | 1.83 | 14.2 | 2.14 | 15.4 | 2.49 | 16.8 | 2.80 | 17.3 | 2.86 | 18.0 | 2.93 | 18.5 | 2.98 |
| | | 48.0 | 13.1 | 1.80 | 14.2 | 2.10 | 15.4 | 2.45 | 16.8 | 2.75 | 17.3 | 2.81 | 18.0 | 2.89 | 18.5 | 2.93 |
| | | 96.0 | 13.1 | 1.65 | 14.2 | 1.96 | 15.4 | 2.29 | 16.8 | 2.57 | 17.3 | 2.63 | 18.0 | 2.70 | 18.5 | 2.75 |
| | | 120.0 | 13.1 | 1.61 | 14.2 | 1.92 | 15.4 | 2.24 | 16.8 | 2.52 | 17.3 | 2.58 | 18.0 | 2.65 | 18.5 | 2.68 |
| | | 144.0 | 13.1 | 1.60 | 14.2 | 1.90 | 15.4 | 2.21 | 16.8 | 2.49 | 17.3 | 2.56 | 18.0 | 2.63 | 18.5 | 2.64 |
| | 35 | 38.4 | 13.1 | 2.03 | 14.2 | 2.38 | 15.4 | 2.76 | 16.8 | 3.11 | 17.3 | 3.18 | 18.0 | 3.25 | 18.5 | 3.32 |
| | | 48.0 | 13.1 | 1.99 | 14.2 | 2.34 | 15.4 | 2.71 | 16.8 | 3.06 | 17.3 | 3.13 | 18.0 | 3.20 | 18.5 | 3.26 |
| | | 96.0 | 13.1 | 1.83 | 14.2 | 2.18 | 15.4 | 2.54 | 16.8 | 2.86 | 17.3 | 2.92 | 18.0 | 3.01 | 18.5 | 3.06 |
| | | 120.0 | 13.1 | 1.79 | 14.2 | 2.13 | 15.4 | 2.48 | 16.8 | 2.80 | 17.3 | 2.87 | 18.0 | 2.95 | 18.5 | 2.97 |
| | | 144.0 | 13.1 | 1.76 | 14.2 | 2.10 | 15.4 | 2.45 | 16.8 | 2.77 | 17.3 | 2.85 | 18.0 | 2.92 | 18.5 | 2.93 |
| | 40 | 38.4 | 13.1 | 2.42 | 14.2 | 2.81 | 15.4 | 3.27 | 16.8 | 3.68 | 17.3 | 3.77 | 18.0 | 3.86 | 18.5 | 3.93 |
| | | 48.0 | 13.1 | 2.37 | 14.2 | 2.76 | 15.4 | 3.22 | 16.8 | 3.62 | 17.3 | 3.70 | 18.0 | 3.80 | 18.5 | 3.86 |
| | | 96.0 | 13.1 | 2.18 | 14.2 | 2.58 | 15.4 | 3.01 | 16.8 | 3.39 | 17.3 | 3.46 | 18.0 | 3.56 | 18.5 | 3.62 |
| | | 120.0 | 13.1 | 2.12 | 14.2 | 2.53 | 15.4 | 2.95 | 16.8 | 3.31 | 17.3 | 3.40 | 18.0 | 3.48 | 18.5 | 3.52 |
| | | 144.0 | 13.1 | 2.08 | 14.2 | 2.51 | 15.4 | 2.92 | 16.8 | 3.28 | 17.3 | 3.37 | 18.0 | 3.45 | 18.5 | 3.47 |
| | 45 | 38.4 | 13.1 | 2.81 | 14.2 | 3.24 | 15.4 | 3.78 | 16.8 | 4.25 | 17.3 | 4.35 | 18.0 | 4.48 | 18.5 | 4.53 |
| | | 48.0 | 13.1 | 2.75 | 14.2 | 3.19 | 15.4 | 3.72 | 16.8 | 4.18 | 17.3 | 4.28 | 18.0 | 4.40 | 18.5 | 4.46 |
| | | 96.0 | 13.1 | 2.52 | 14.2 | 2.98 | 15.4 | 3.47 | 16.8 | 3.91 | 17.3 | 4.00 | 18.0 | 4.11 | 18.5 | 4.18 |
| | | 120.0 | 13.1 | 2.45 | 14.2 | 2.93 | 15.4 | 3.41 | 16.8 | 3.83 | 17.3 | 3.92 | 18.0 | 4.02 | 18.5 | 4.07 |
| | | 144.0 | 13.1 | 2.41 | 14.2 | 2.91 | 15.4 | 3.38 | 16.8 | 3.78 | 17.3 | 3.89 | 18.0 | 3.98 | 18.5 | 4.02 |
| 50 | 10 | 38.4 | 10.9 | 0.53 | 11.8 | 0.63 | 12.9 | 0.76 | 14.0 | 0.84 | 14.4 | 0.85 | 15.0 | 0.87 | 15.4 | 0.90 |
| | | 48.0 | 10.9 | 0.53 | 11.8 | 0.62 | 12.9 | 0.74 | 14.0 | 0.82 | 14.4 | 0.83 | 15.0 | 0.86 | 15.4 | 0.88 |
| | | 96.0 | 10.9 | 0.51 | 11.8 | 0.59 | 12.9 | 0.67 | 14.0 | 0.76 | 14.4 | 0.79 | 15.0 | 0.80 | 15.4 | 0.82 |
| | | 120.0 | 10.9 | 0.48 | 11.8 | 0.56 | 12.9 | 0.67 | 14.0 | 0.74 | 14.4 | 0.76 | 15.0 | 0.77 | 15.4 | 0.79 |
| | | 144.0 | 10.9 | 0.47 | 11.8 | 0.55 | 12.9 | 0.67 | 14.0 | 0.73 | 14.4 | 0.75 | 15.0 | 0.76 | 15.4 | 0.77 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 38.4 | 10.9 | 0.73 | 11.8 | 0.86 | 12.9 | 1.01 | 14.0 | 1.13 | 14.4 | 1.16 | 15.0 | 1.18 | 15.4 | 1.20 |
| | | 48.0 | 10.9 | 0.72 | 11.8 | 0.84 | 12.9 | 0.99 | 14.0 | 1.11 | 14.4 | 1.14 | 15.0 | 1.16 | 15.4 | 1.19 |
| | | 96.0 | 10.9 | 0.67 | 11.8 | 0.79 | 12.9 | 0.92 | 14.0 | 1.04 | 14.4 | 1.06 | 15.0 | 1.09 | 15.4 | 1.11 |
| | | 120.0 | 10.9 | 0.65 | 11.8 | 0.77 | 12.9 | 0.90 | 14.0 | 1.01 | 14.4 | 1.04 | 15.0 | 1.06 | 15.4 | 1.08 |
| | | 144.0 | 10.9 | 0.64 | 11.8 | 0.76 | 12.9 | 0.90 | 14.0 | 1.00 | 14.4 | 1.03 | 15.0 | 1.05 | 15.4 | 1.06 |
| | 20 | 38.4 | 10.9 | 0.91 | 11.8 | 1.05 | 12.9 | 1.23 | 14.0 | 1.39 | 14.4 | 1.43 | 15.0 | 1.45 | 15.4 | 1.48 |
| | | 48.0 | 10.9 | 0.89 | 11.8 | 1.04 | 12.9 | 1.21 | 14.0 | 1.37 | 14.4 | 1.41 | 15.0 | 1.43 | 15.4 | 1.46 |
| | | 96.0 | 10.9 | 0.82 | 11.8 | 0.98 | 12.9 | 1.14 | 14.0 | 1.28 | 14.4 | 1.31 | 15.0 | 1.35 | 15.4 | 1.37 |
| | | 120.0 | 10.9 | 0.79 | 11.8 | 0.95 | 12.9 | 1.11 | 14.0 | 1.26 | 14.4 | 1.28 | 15.0 | 1.32 | 15.4 | 1.33 |
| | | 144.0 | 10.9 | 0.78 | 11.8 | 0.94 | 12.9 | 1.10 | 14.0 | 1.25 | 14.4 | 1.27 | 15.0 | 1.31 | 15.4 | 1.31 |
| | 25 | 38.4 | 10.9 | 1.11 | 11.8 | 1.29 | 12.9 | 1.50 | 14.0 | 1.69 | 14.4 | 1.74 | 15.0 | 1.78 | 15.4 | 1.82 |
| | | 48.0 | 10.9 | 1.09 | 11.8 | 1.27 | 12.9 | 1.48 | 14.0 | 1.66 | 14.4 | 1.71 | 15.0 | 1.75 | 15.4 | 1.79 |
| | | 96.0 | 10.9 | 1.00 | 11.8 | 1.19 | 12.9 | 1.38 | 14.0 | 1.57 | 14.4 | 1.60 | 15.0 | 1.64 | 15.4 | 1.66 |
| | | 120.0 | 10.9 | 0.98 | 11.8 | 1.16 | 12.9 | 1.36 | 14.0 | 1.53 | 14.4 | 1.57 | 15.0 | 1.60 | 15.4 | 1.63 |
| | | 144.0 | 10.9 | 0.97 | 11.8 | 1.15 | 12.9 | 1.35 | 14.0 | 1.51 | 14.4 | 1.55 | 15.0 | 1.58 | 15.4 | 1.61 |
| | 30 | 38.4 | 10.9 | 1.37 | 11.8 | 1.59 | 12.9 | 1.85 | 14.0 | 2.09 | 14.4 | 2.14 | 15.0 | 2.19 | 15.4 | 2.22 |
| | | 48.0 | 10.9 | 1.35 | 11.8 | 1.57 | 12.9 | 1.82 | 14.0 | 2.05 | 14.4 | 2.10 | 15.0 | 2.15 | 15.4 | 2.19 |
| | | 96.0 | 10.9 | 1.23 | 11.8 | 1.47 | 12.9 | 1.70 | 14.0 | 1.92 | 14.4 | 1.97 | 15.0 | 2.02 | 15.4 | 2.05 |
| | | 120.0 | 10.9 | 1.20 | 11.8 | 1.43 | 12.9 | 1.66 | 14.0 | 1.88 | 14.4 | 1.93 | 15.0 | 1.98 | 15.4 | 1.99 |
| | | 144.0 | 10.9 | 1.18 | 11.8 | 1.41 | 12.9 | 1.64 | 14.0 | 1.86 | 14.4 | 1.91 | 15.0 | 1.96 | 15.4 | 1.96 |
| | 35 | 38.4 | 10.9 | 1.52 | 11.8 | 1.76 | 12.9 | 2.06 | 14.0 | 2.31 | 14.4 | 2.38 | 15.0 | 2.44 | 15.4 | 2.47 |
| | | 48.0 | 10.9 | 1.49 | 11.8 | 1.74 | 12.9 | 2.03 | 14.0 | 2.27 | 14.4 | 2.34 | 15.0 | 2.40 | 15.4 | 2.43 |
| | | 96.0 | 10.9 | 1.37 | 11.8 | 1.63 | 12.9 | 1.90 | 14.0 | 2.13 | 14.4 | 2.18 | 15.0 | 2.24 | 15.4 | 2.27 |
| | | 120.0 | 10.9 | 1.33 | 11.8 | 1.59 | 12.9 | 1.86 | 14.0 | 2.09 | 14.4 | 2.14 | 15.0 | 2.20 | 15.4 | 2.21 |
| | | 144.0 | 10.9 | 1.31 | 11.8 | 1.57 | 12.9 | 1.84 | 14.0 | 2.07 | 14.4 | 2.12 | 15.0 | 2.18 | 15.4 | 2.18 |
| | 40 | 38.4 | 10.9 | 1.79 | 11.8 | 2.09 | 12.9 | 2.44 | 14.0 | 2.75 | 14.4 | 2.81 | 15.0 | 2.88 | 15.4 | 2.93 |
| | | 48.0 | 10.9 | 1.76 | 11.8 | 2.05 | 12.9 | 2.40 | 14.0 | 2.70 | 14.4 | 2.76 | 15.0 | 2.84 | 15.4 | 2.89 |
| | | 96.0 | 10.9 | 1.63 | 11.8 | 1.92 | 12.9 | 2.24 | 14.0 | 2.52 | 14.4 | 2.58 | 15.0 | 2.65 | 15.4 | 2.70 |
| | | 120.0 | 10.9 | 1.58 | 11.8 | 1.88 | 12.9 | 2.20 | 14.0 | 2.47 | 14.4 | 2.53 | 15.0 | 2.60 | 15.4 | 2.63 |
| | | 144.0 | 10.9 | 1.55 | 11.8 | 1.86 | 12.9 | 2.18 | 14.0 | 2.45 | 14.4 | 2.51 | 15.0 | 2.58 | 15.4 | 2.59 |
| | 45 | 38.4 | 10.9 | 2.07 | 11.8 | 2.41 | 12.9 | 2.81 | 14.0 | 3.19 | 14.4 | 3.24 | 15.0 | 3.33 | 15.4 | 3.39 |
| | | 48.0 | 10.9 | 2.03 | 11.8 | 2.37 | 12.9 | 2.76 | 14.0 | 3.13 | 14.4 | 3.19 | 15.0 | 3.28 | 15.4 | 3.34 |
| | | 96.0 | 10.9 | 1.88 | 11.8 | 2.21 | 12.9 | 2.58 | 14.0 | 2.91 | 14.4 | 2.98 | 15.0 | 3.07 | 15.4 | 3.13 |
| | | 120.0 | 10.9 | 1.82 | 11.8 | 2.18 | 12.9 | 2.54 | 14.0 | 2.85 | 14.4 | 2.92 | 15.0 | 3.01 | 15.4 | 3.04 |
| | | 144.0 | 10.9 | 1.79 | 11.8 | 2.16 | 12.9 | 2.53 | 14.0 | 2.82 | 14.4 | 2.89 | 15.0 | 2.98 | 15.4 | 3.00 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

**Cooling Capacity(14HP)**

## ARWN140BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 54.0 | 36.4 | 2.74 | 39.4 | 3.21 | 43.0 | 3.74 | 46.7 | 4.21 | 48.0 | 4.33 | 50.0 | 4.41 | 51.3 | 4.45 |
| | | 67.5 | 36.4 | 2.69 | 39.4 | 3.16 | 43.0 | 3.68 | 46.7 | 4.15 | 48.0 | 4.25 | 50.0 | 4.34 | 51.3 | 4.39 |
| | | 135.0 | 36.4 | 2.50 | 39.4 | 2.96 | 43.0 | 3.45 | 46.7 | 3.88 | 48.0 | 3.95 | 50.0 | 4.07 | 51.3 | 4.16 |
| | | 168.8 | 36.4 | 2.42 | 39.4 | 2.89 | 43.0 | 3.37 | 46.7 | 3.79 | 48.0 | 3.89 | 50.0 | 3.98 | 51.3 | 4.05 |
| | | 202.5 | 36.4 | 2.39 | 39.4 | 2.85 | 43.0 | 3.34 | 46.7 | 3.74 | 48.0 | 3.87 | 50.0 | 3.94 | 51.3 | 4.00 |
| | 15 | 54.0 | 35.8 | 3.62 | 38.8 | 4.21 | 42.3 | 4.91 | 46.0 | 5.53 | 47.3 | 5.66 | 49.2 | 5.79 | 50.5 | 5.88 |
| | | 67.5 | 35.8 | 3.55 | 38.8 | 4.14 | 42.3 | 4.83 | 46.0 | 5.44 | 47.3 | 5.57 | 49.2 | 5.70 | 50.5 | 5.79 |
| | | 135.0 | 35.8 | 3.27 | 38.8 | 3.88 | 42.3 | 4.51 | 46.0 | 5.09 | 47.3 | 5.20 | 49.2 | 5.35 | 50.5 | 5.46 |
| | | 168.8 | 35.8 | 3.18 | 38.8 | 3.79 | 42.3 | 4.42 | 46.0 | 4.98 | 47.3 | 5.11 | 49.2 | 5.24 | 50.5 | 5.33 |
| | | 202.5 | 35.8 | 3.13 | 38.8 | 3.74 | 42.3 | 4.37 | 46.0 | 4.92 | 47.3 | 5.06 | 49.2 | 5.18 | 50.5 | 5.26 |
| | 20 | 54.0 | 35.3 | 4.40 | 38.3 | 5.09 | 41.7 | 5.95 | 45.3 | 6.70 | 46.7 | 6.85 | 48.5 | 7.02 | 49.8 | 7.15 |
| | | 67.5 | 35.3 | 4.31 | 38.3 | 5.01 | 41.7 | 5.85 | 45.3 | 6.59 | 46.7 | 6.74 | 48.5 | 6.91 | 49.8 | 7.04 |
| | | 135.0 | 35.3 | 3.96 | 38.3 | 4.70 | 41.7 | 5.46 | 45.3 | 6.16 | 46.7 | 6.31 | 48.5 | 6.48 | 49.8 | 6.61 |
| | | 168.8 | 35.3 | 3.84 | 38.3 | 4.59 | 41.7 | 5.35 | 45.3 | 6.03 | 46.7 | 6.18 | 48.5 | 6.35 | 49.8 | 6.46 |
| | | 202.5 | 35.3 | 3.79 | 38.3 | 4.53 | 41.7 | 5.29 | 45.3 | 5.97 | 46.7 | 6.12 | 48.5 | 6.29 | 49.8 | 6.39 |
| | 25 | 54.0 | 35.3 | 5.42 | 38.3 | 6.28 | 41.7 | 7.32 | 45.3 | 8.25 | 46.7 | 8.45 | 48.5 | 8.66 | 49.8 | 8.80 |
| | | 67.5 | 35.3 | 5.31 | 38.3 | 6.18 | 41.7 | 7.20 | 45.3 | 8.11 | 46.7 | 8.32 | 48.5 | 8.52 | 49.8 | 8.67 |
| | | 135.0 | 35.3 | 4.88 | 38.3 | 5.79 | 41.7 | 6.74 | 45.3 | 7.59 | 46.7 | 7.78 | 48.5 | 7.98 | 49.8 | 8.15 |
| | | 168.8 | 35.3 | 4.75 | 38.3 | 5.66 | 41.7 | 6.61 | 45.3 | 7.45 | 46.7 | 7.63 | 48.5 | 7.84 | 49.8 | 7.97 |
| | | 202.5 | 35.3 | 4.69 | 38.3 | 5.60 | 41.7 | 6.55 | 45.3 | 7.37 | 46.7 | 7.56 | 48.5 | 7.76 | 49.8 | 7.87 |
| | 30 | 54.0 | 35.3 | 6.50 | 38.3 | 7.55 | 41.7 | 8.79 | 45.3 | 9.91 | 46.7 | 10.13 | 48.5 | 10.40 | 49.8 | 10.55 |
| | | 67.5 | 35.3 | 6.37 | 38.3 | 7.43 | 41.7 | 8.65 | 45.3 | 9.75 | 46.7 | 9.97 | 48.5 | 10.23 | 49.8 | 10.40 |
| | | 135.0 | 35.3 | 5.85 | 38.3 | 6.94 | 41.7 | 8.10 | 45.3 | 9.12 | 46.7 | 9.34 | 48.5 | 9.58 | 49.8 | 9.79 |
| | | 168.8 | 35.3 | 5.70 | 38.3 | 6.80 | 41.7 | 7.93 | 45.3 | 8.93 | 46.7 | 9.17 | 48.5 | 9.40 | 49.8 | 9.56 |
| | | 202.5 | 35.3 | 5.63 | 38.3 | 6.72 | 41.7 | 7.85 | 45.3 | 8.84 | 46.7 | 9.09 | 48.5 | 9.30 | 49.8 | 9.45 |
| | 35 | 54.0 | 31.8 | 6.57 | 34.4 | 7.65 | 37.5 | 8.89 | 40.8 | 10.02 | 42.0 | 10.24 | 43.6 | 10.51 | 44.8 | 10.69 |
| | | 67.5 | 31.8 | 6.44 | 34.4 | 7.52 | 37.5 | 8.75 | 40.8 | 9.86 | 42.0 | 10.08 | 43.6 | 10.34 | 44.8 | 10.53 |
| | | 135.0 | 31.8 | 5.92 | 34.4 | 7.02 | 37.5 | 8.19 | 40.8 | 9.21 | 42.0 | 9.45 | 43.6 | 9.69 | 44.8 | 9.88 |
| | | 168.8 | 31.8 | 5.76 | 34.4 | 6.87 | 37.5 | 8.02 | 40.8 | 9.02 | 42.0 | 9.27 | 43.6 | 9.51 | 44.8 | 9.67 |
| | | 202.5 | 31.8 | 5.67 | 34.4 | 6.80 | 37.5 | 7.94 | 40.8 | 8.93 | 42.0 | 9.17 | 43.6 | 9.41 | 44.8 | 9.57 |
| | 40 | 54.0 | 28.3 | 6.94 | 30.6 | 8.06 | 33.3 | 9.38 | 36.2 | 10.57 | 37.3 | 10.81 | 38.8 | 11.07 | 39.9 | 11.27 |
| | | 67.5 | 28.3 | 6.80 | 30.6 | 7.93 | 33.3 | 9.23 | 36.2 | 10.40 | 37.3 | 10.64 | 38.8 | 10.90 | 39.9 | 11.10 |
| | | 135.0 | 28.3 | 6.24 | 30.6 | 7.41 | 33.3 | 8.63 | 36.2 | 9.71 | 37.3 | 9.95 | 38.8 | 10.23 | 39.9 | 10.44 |
| | | 168.8 | 28.3 | 6.07 | 30.6 | 7.24 | 33.3 | 8.45 | 36.2 | 9.53 | 37.3 | 9.77 | 38.8 | 10.03 | 39.9 | 10.19 |
| | | 202.5 | 28.3 | 5.99 | 30.6 | 7.16 | 33.3 | 8.36 | 36.2 | 9.43 | 37.3 | 9.67 | 38.8 | 9.93 | 39.9 | 10.07 |
| | 45 | 54.0 | 24.7 | 7.30 | 26.8 | 8.47 | 29.1 | 9.87 | 31.6 | 11.12 | 32.6 | 11.38 | 33.9 | 11.63 | 34.9 | 11.85 |
| | | 67.5 | 24.7 | 7.15 | 26.8 | 8.34 | 29.1 | 9.71 | 31.6 | 10.94 | 32.6 | 11.20 | 33.9 | 11.46 | 34.9 | 11.68 |
| | | 135.0 | 24.7 | 6.55 | 26.8 | 7.80 | 29.1 | 9.08 | 31.6 | 10.21 | 32.6 | 10.45 | 33.9 | 10.77 | 34.9 | 10.99 |
| | | 168.8 | 24.7 | 6.39 | 26.8 | 7.61 | 29.1 | 8.88 | 31.6 | 10.03 | 32.6 | 10.27 | 33.9 | 10.55 | 34.9 | 10.71 |
| | | 202.5 | 24.7 | 6.30 | 26.8 | 7.52 | 29.1 | 8.77 | 31.6 | 9.93 | 32.6 | 10.18 | 33.9 | 10.44 | 34.9 | 10.58 |
| 120 | 10 | 54.0 | 34.4 | 2.62 | 37.3 | 3.02 | 40.6 | 3.56 | 44.2 | 3.99 | 45.6 | 4.11 | 47.3 | 4.19 | 48.6 | 4.27 |
| | | 67.5 | 34.4 | 2.56 | 37.3 | 2.97 | 40.6 | 3.50 | 44.2 | 3.92 | 45.6 | 4.03 | 47.3 | 4.12 | 48.6 | 4.19 |
| | | 135.0 | 34.4 | 2.35 | 37.3 | 2.78 | 40.6 | 3.24 | 44.2 | 3.67 | 45.6 | 3.74 | 47.3 | 3.85 | 48.6 | 3.90 |
| | | 168.8 | 34.4 | 2.31 | 37.3 | 2.72 | 40.6 | 3.21 | 44.2 | 3.60 | 45.6 | 3.67 | 47.3 | 3.78 | 48.6 | 3.83 |
| | | 202.5 | 34.4 | 2.30 | 37.3 | 2.70 | 40.6 | 3.19 | 44.2 | 3.57 | 45.6 | 3.64 | 47.3 | 3.75 | 48.6 | 3.80 |
| | 15 | 54.0 | 34.1 | 3.47 | 36.9 | 4.02 | 40.2 | 4.70 | 43.7 | 5.28 | 45.0 | 5.42 | 46.8 | 5.55 | 48.1 | 5.64 |
| | | 67.5 | 34.1 | 3.40 | 36.9 | 3.96 | 40.2 | 4.62 | 43.7 | 5.20 | 45.0 | 5.33 | 46.8 | 5.46 | 48.1 | 5.55 |
| | | 135.0 | 34.1 | 3.12 | 36.9 | 3.70 | 40.2 | 4.31 | 43.7 | 4.86 | 45.0 | 4.98 | 46.8 | 5.11 | 48.1 | 5.20 |
| | | 168.8 | 34.1 | 3.05 | 36.9 | 3.62 | 40.2 | 4.23 | 43.7 | 4.77 | 45.0 | 4.88 | 46.8 | 5.01 | 48.1 | 5.09 |
| | | 202.5 | 34.1 | 3.01 | 36.9 | 3.58 | 40.2 | 4.20 | 43.7 | 4.73 | 45.0 | 4.84 | 46.8 | 4.97 | 48.1 | 5.03 |
| | 20 | 54.0 | 33.8 | 4.23 | 36.5 | 4.91 | 39.8 | 5.72 | 43.3 | 6.43 | 44.5 | 6.58 | 46.3 | 6.76 | 47.6 | 6.86 |
| | | 67.5 | 33.8 | 4.14 | 36.5 | 4.83 | 39.8 | 5.63 | 43.3 | 6.33 | 44.5 | 6.48 | 46.3 | 6.65 | 47.6 | 6.76 |
| | | 135.0 | 33.8 | 3.81 | 36.5 | 4.51 | 39.8 | 5.25 | 43.3 | 5.92 | 44.5 | 6.07 | 46.3 | 6.22 | 47.6 | 6.35 |
| | | 168.8 | 33.8 | 3.70 | 36.5 | 4.42 | 39.8 | 5.14 | 43.3 | 5.81 | 44.5 | 5.96 | 46.3 | 6.11 | 47.6 | 6.20 |
| | | 202.5 | 33.8 | 3.64 | 36.5 | 4.37 | 39.8 | 5.09 | 43.3 | 5.76 | 44.5 | 5.90 | 46.3 | 6.05 | 47.6 | 6.13 |
| | 25 | 54.0 | 33.8 | 5.19 | 36.5 | 6.02 | 39.8 | 7.02 | 43.3 | 7.91 | 44.5 | 8.10 | 46.3 | 8.30 | 47.6 | 8.45 |
| | | 67.5 | 33.8 | 5.09 | 36.5 | 5.92 | 39.8 | 6.91 | 43.3 | 7.78 | 44.5 | 7.97 | 46.3 | 8.17 | 47.6 | 8.32 |
| | | 135.0 | 33.8 | 4.68 | 36.5 | 5.55 | 39.8 | 6.46 | 43.3 | 7.28 | 44.5 | 7.45 | 46.3 | 7.65 | 47.6 | 7.80 |
| | | 168.8 | 33.8 | 4.55 | 36.5 | 5.42 | 39.8 | 6.33 | 43.3 | 7.13 | 44.5 | 7.32 | 46.3 | 7.50 | 47.6 | 7.61 |
| | | 202.5 | 33.8 | 4.48 | 36.5 | 5.36 | 39.8 | 6.27 | 43.3 | 7.06 | 44.5 | 7.25 | 46.3 | 7.43 | 47.6 | 7.52 |
| | 30 | 54.0 | 33.8 | 6.27 | 36.5 | 7.28 | 39.8 | 8.49 | 43.3 | 9.57 | 44.5 | 9.80 | 46.3 | 10.04 | 47.6 | 10.20 |
| | | 67.5 | 33.8 | 6.15 | 36.5 | 7.17 | 39.8 | 8.36 | 43.3 | 9.41 | 44.5 | 9.64 | 46.3 | 9.88 | 47.6 | 10.05 |
| | | 135.0 | 33.8 | 5.66 | 36.5 | 6.70 | 39.8 | 7.82 | 43.3 | 8.80 | 44.5 | 9.01 | 46.3 | 9.25 | 47.6 | 9.43 |
| | | 168.8 | 33.8 | 5.50 | 36.5 | 6.55 | 39.8 | 7.65 | 43.3 | 8.62 | 44.5 | 8.84 | 46.3 | 9.08 | 47.6 | 9.21 |
| | | 202.5 | 33.8 | 5.41 | 36.5 | 6.48 | 39.8 | 7.57 | 43.3 | 8.52 | 44.5 | 8.76 | 46.3 | 9.00 | 47.6 | 9.10 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 54.0 | 30.9 | 6.42 | 33.4 | 7.47 | 36.4 | 8.70 | 39.6 | 9.79 | 40.8 | 10.04 | 42.4 | 10.28 | 43.6 | 10.47 |
| | | 67.5 | 30.9 | 6.29 | 33.4 | 7.35 | 36.4 | 8.56 | 39.6 | 9.64 | 40.8 | 9.88 | 42.4 | 10.12 | 43.6 | 10.31 |
| | | 135.0 | 30.9 | 5.79 | 33.4 | 6.87 | 36.4 | 8.00 | 39.6 | 9.02 | 40.8 | 9.25 | 42.4 | 9.49 | 43.6 | 9.66 |
| | | 168.8 | 30.9 | 5.64 | 33.4 | 6.72 | 36.4 | 7.84 | 39.6 | 8.84 | 40.8 | 9.06 | 42.4 | 9.30 | 43.6 | 9.43 |
| | | 202.5 | 30.9 | 5.57 | 33.4 | 6.65 | 36.4 | 7.75 | 39.6 | 8.75 | 40.8 | 8.97 | 42.4 | 9.21 | 43.6 | 9.32 |
| | 40 | 54.0 | 28.0 | 6.91 | 30.3 | 8.04 | 33.0 | 9.36 | 35.9 | 10.55 | 37.0 | 10.79 | 38.4 | 11.05 | 39.5 | 11.26 |
| | | 67.5 | 28.0 | 6.78 | 30.3 | 7.91 | 33.0 | 9.21 | 35.9 | 10.38 | 37.0 | 10.62 | 38.4 | 10.88 | 39.5 | 11.09 |
| | | 135.0 | 28.0 | 6.24 | 30.3 | 7.39 | 33.0 | 8.62 | 35.9 | 9.71 | 37.0 | 9.93 | 38.4 | 10.19 | 39.5 | 10.40 |
| | | 168.8 | 28.0 | 6.07 | 30.3 | 7.24 | 33.0 | 8.45 | 35.9 | 9.51 | 37.0 | 9.75 | 38.4 | 10.01 | 39.5 | 10.16 |
| | | 202.5 | 28.0 | 5.99 | 30.3 | 7.17 | 33.0 | 8.37 | 35.9 | 9.41 | 37.0 | 9.66 | 38.4 | 9.92 | 39.5 | 10.04 |
| | 45 | 54.0 | 25.2 | 7.41 | 27.2 | 8.61 | 29.7 | 10.02 | 32.3 | 11.31 | 33.2 | 11.55 | 34.5 | 11.83 | 35.5 | 12.05 |
| | | 67.5 | 25.2 | 7.26 | 27.2 | 8.47 | 29.7 | 9.86 | 32.3 | 11.12 | 33.2 | 11.36 | 34.5 | 11.64 | 35.5 | 11.87 |
| | | 135.0 | 25.2 | 6.68 | 27.2 | 7.91 | 29.7 | 9.23 | 32.3 | 10.40 | 33.2 | 10.62 | 34.5 | 10.90 | 35.5 | 11.14 |
| | | 168.8 | 25.2 | 6.50 | 27.2 | 7.76 | 29.7 | 9.06 | 32.3 | 10.18 | 33.2 | 10.44 | 34.5 | 10.71 | 35.5 | 10.88 |
| | | 202.5 | 25.2 | 6.41 | 27.2 | 7.69 | 29.7 | 8.98 | 32.3 | 10.06 | 33.2 | 10.34 | 34.5 | 10.62 | 35.5 | 10.75 |
| 110 | 10 | 54.0 | 32.5 | 2.48 | 35.2 | 2.88 | 38.3 | 3.32 | 41.7 | 3.76 | 42.9 | 3.83 | 44.7 | 3.95 | 45.8 | 4.00 |
| | | 67.5 | 32.5 | 2.43 | 35.2 | 2.83 | 38.3 | 3.27 | 41.7 | 3.70 | 42.9 | 3.77 | 44.7 | 3.88 | 45.8 | 3.93 |
| | | 135.0 | 32.5 | 2.24 | 35.2 | 2.63 | 38.3 | 3.08 | 41.7 | 3.47 | 42.9 | 3.56 | 44.7 | 3.61 | 45.8 | 3.68 |
| | | 168.8 | 32.5 | 2.17 | 35.2 | 2.58 | 38.3 | 3.01 | 41.7 | 3.40 | 42.9 | 3.47 | 44.7 | 3.54 | 45.8 | 3.63 |
| | | 202.5 | 32.5 | 2.13 | 35.2 | 2.55 | 38.3 | 2.97 | 41.7 | 3.36 | 42.9 | 3.42 | 44.7 | 3.50 | 45.8 | 3.61 |
| | 15 | 54.0 | 32.3 | 3.32 | 35.0 | 3.85 | 38.1 | 4.47 | 41.4 | 5.04 | 42.7 | 5.15 | 44.4 | 5.28 | 45.6 | 5.38 |
| | | 67.5 | 32.3 | 3.25 | 35.0 | 3.79 | 38.1 | 4.40 | 41.4 | 4.96 | 42.7 | 5.07 | 44.4 | 5.20 | 45.6 | 5.29 |
| | | 135.0 | 32.3 | 2.99 | 35.0 | 3.53 | 38.1 | 4.12 | 41.4 | 4.64 | 42.7 | 4.75 | 44.4 | 4.86 | 45.6 | 4.96 |
| | | 168.8 | 32.3 | 2.90 | 35.0 | 3.45 | 38.1 | 4.03 | 41.4 | 4.55 | 42.7 | 4.66 | 44.4 | 4.77 | 45.6 | 4.85 |
| | | 202.5 | 32.3 | 2.85 | 35.0 | 3.42 | 38.1 | 3.98 | 41.4 | 4.50 | 42.7 | 4.61 | 44.4 | 4.73 | 45.6 | 4.79 |
| | 20 | 54.0 | 32.2 | 4.05 | 34.8 | 4.72 | 37.9 | 5.49 | 41.2 | 6.17 | 42.5 | 6.32 | 44.1 | 6.47 | 45.4 | 6.60 |
| | | 67.5 | 32.2 | 3.97 | 34.8 | 4.64 | 37.9 | 5.40 | 41.2 | 6.07 | 42.5 | 6.22 | 44.1 | 6.37 | 45.4 | 6.50 |
| | | 135.0 | 32.2 | 3.66 | 34.8 | 4.33 | 37.9 | 5.05 | 41.2 | 5.68 | 42.5 | 5.81 | 44.1 | 5.98 | 45.4 | 6.09 |
| | | 168.8 | 32.2 | 3.55 | 34.8 | 4.23 | 37.9 | 4.94 | 41.2 | 5.57 | 42.5 | 5.72 | 44.1 | 5.87 | 45.4 | 5.92 |
| | | 202.5 | 32.2 | 3.49 | 34.8 | 4.19 | 37.9 | 4.88 | 41.2 | 5.52 | 42.5 | 5.67 | 44.1 | 5.81 | 45.4 | 5.84 |
| | 25 | 54.0 | 32.2 | 4.96 | 34.8 | 5.78 | 37.9 | 6.72 | 41.2 | 7.57 | 42.5 | 7.73 | 44.1 | 7.92 | 45.4 | 8.07 |
| | | 67.5 | 32.2 | 4.86 | 34.8 | 5.68 | 37.9 | 6.61 | 41.2 | 7.45 | 42.5 | 7.61 | 44.1 | 7.80 | 45.4 | 7.95 |
| | | 135.0 | 32.2 | 4.47 | 34.8 | 5.31 | 37.9 | 6.18 | 41.2 | 6.96 | 42.5 | 7.13 | 44.1 | 7.32 | 45.4 | 7.45 |
| | | 168.8 | 32.2 | 4.34 | 34.8 | 5.20 | 37.9 | 6.05 | 41.2 | 6.81 | 42.5 | 7.00 | 44.1 | 7.17 | 45.4 | 7.26 |
| | | 202.5 | 32.2 | 4.28 | 34.8 | 5.14 | 37.9 | 5.99 | 41.2 | 6.74 | 42.5 | 6.94 | 44.1 | 7.09 | 45.4 | 7.17 |
| | 30 | 54.0 | 32.2 | 6.04 | 34.8 | 7.04 | 37.9 | 8.19 | 41.2 | 9.23 | 42.5 | 9.43 | 44.1 | 9.68 | 45.4 | 9.85 |
| | | 67.5 | 32.2 | 5.92 | 34.8 | 6.93 | 37.9 | 8.06 | 41.2 | 9.08 | 42.5 | 9.28 | 44.1 | 9.53 | 45.4 | 9.69 |
| | | 135.0 | 32.2 | 5.46 | 34.8 | 6.46 | 37.9 | 7.54 | 41.2 | 8.49 | 42.5 | 8.69 | 44.1 | 8.91 | 45.4 | 9.08 |
| | | 168.8 | 32.2 | 5.31 | 34.8 | 6.33 | 37.9 | 7.37 | 41.2 | 8.32 | 42.5 | 8.52 | 44.1 | 8.75 | 45.4 | 8.86 |
| | | 202.5 | 32.2 | 5.24 | 34.8 | 6.27 | 37.9 | 7.29 | 41.2 | 8.24 | 42.5 | 8.44 | 44.1 | 8.66 | 45.4 | 8.75 |
| | 35 | 54.0 | 29.9 | 6.29 | 32.4 | 7.30 | 35.3 | 8.51 | 38.4 | 9.59 | 39.6 | 9.81 | 41.1 | 10.06 | 42.2 | 10.25 |
| | | 67.5 | 29.9 | 6.16 | 32.4 | 7.19 | 35.3 | 8.37 | 38.4 | 9.43 | 39.6 | 9.66 | 41.1 | 9.90 | 42.2 | 10.08 |
| | | 135.0 | 29.9 | 5.66 | 32.4 | 6.72 | 35.3 | 7.84 | 38.4 | 8.82 | 39.6 | 9.04 | 41.1 | 9.27 | 42.2 | 9.43 |
| | | 168.8 | 29.9 | 5.51 | 32.4 | 6.57 | 35.3 | 7.67 | 38.4 | 8.65 | 39.6 | 8.86 | 41.1 | 9.10 | 42.2 | 9.21 |
| | | 202.5 | 29.9 | 5.44 | 32.4 | 6.50 | 35.3 | 7.59 | 38.4 | 8.57 | 39.6 | 8.76 | 41.1 | 9.02 | 42.2 | 9.10 |
| | 40 | 54.0 | 27.8 | 6.92 | 30.1 | 8.02 | 32.8 | 9.36 | 35.6 | 10.53 | 36.6 | 10.78 | 38.1 | 11.04 | 39.1 | 11.24 |
| | | 67.5 | 27.8 | 6.78 | 30.1 | 7.89 | 32.8 | 9.21 | 35.6 | 10.36 | 36.6 | 10.60 | 38.1 | 10.86 | 39.1 | 11.07 |
| | | 135.0 | 27.8 | 6.22 | 30.1 | 7.39 | 32.8 | 8.60 | 35.6 | 9.69 | 36.6 | 9.92 | 38.1 | 10.18 | 39.1 | 10.38 |
| | | 168.8 | 27.8 | 6.05 | 30.1 | 7.22 | 32.8 | 8.43 | 35.6 | 9.51 | 36.6 | 9.73 | 38.1 | 9.99 | 39.1 | 10.12 |
| | | 202.5 | 27.8 | 5.97 | 30.1 | 7.14 | 32.8 | 8.35 | 35.6 | 9.41 | 36.6 | 9.64 | 38.1 | 9.90 | 39.1 | 9.99 |
| | 45 | 54.0 | 25.6 | 7.54 | 27.7 | 8.73 | 30.2 | 10.22 | 32.8 | 11.47 | 33.7 | 11.74 | 35.1 | 12.02 | 36.0 | 12.23 |
| | | 67.5 | 25.6 | 7.39 | 27.7 | 8.60 | 30.2 | 10.05 | 32.8 | 11.29 | 33.7 | 11.55 | 35.1 | 11.83 | 36.0 | 12.05 |
| | | 135.0 | 25.6 | 6.78 | 27.7 | 8.06 | 30.2 | 9.36 | 32.8 | 10.57 | 33.7 | 10.79 | 35.1 | 11.09 | 36.0 | 11.33 |
| | | 168.8 | 25.6 | 6.59 | 27.7 | 7.87 | 30.2 | 9.19 | 32.8 | 10.36 | 33.7 | 10.60 | 35.1 | 10.88 | 36.0 | 11.03 |
| | | 202.5 | 25.6 | 6.50 | 27.7 | 7.78 | 30.2 | 9.11 | 32.8 | 10.26 | 33.7 | 10.51 | 35.1 | 10.78 | 36.0 | 10.88 |
| 100 | 10 | 54.0 | 30.6 | 2.31 | 33.1 | 2.71 | 36.0 | 3.14 | 39.2 | 3.51 | 40.4 | 3.60 | 41.9 | 3.72 | 43.1 | 3.80 |
| | | 67.5 | 30.6 | 2.27 | 33.1 | 2.66 | 36.0 | 3.09 | 39.2 | 3.46 | 40.4 | 3.55 | 41.9 | 3.66 | 43.1 | 3.73 |
| | | 135.0 | 30.6 | 2.09 | 33.1 | 2.46 | 36.0 | 2.89 | 39.2 | 3.27 | 40.4 | 3.36 | 41.9 | 3.43 | 43.1 | 3.46 |
| | | 168.8 | 30.6 | 2.06 | 33.1 | 2.41 | 36.0 | 2.84 | 39.2 | 3.18 | 40.4 | 3.27 | 41.9 | 3.36 | 43.1 | 3.41 |
| | | 202.5 | 30.6 | 2.04 | 33.1 | 2.38 | 36.0 | 2.81 | 39.2 | 3.13 | 40.4 | 3.22 | 41.9 | 3.32 | 43.1 | 3.39 |
| | 15 | 54.0 | 30.6 | 3.14 | 33.1 | 3.66 | 36.0 | 4.27 | 39.2 | 4.79 | 40.4 | 4.90 | 41.9 | 5.04 | 43.1 | 5.13 |
| | | 67.5 | 30.6 | 3.08 | 33.1 | 3.60 | 36.0 | 4.20 | 39.2 | 4.72 | 40.4 | 4.83 | 41.9 | 4.96 | 43.1 | 5.05 |
| | | 135.0 | 30.6 | 2.84 | 33.1 | 3.36 | 36.0 | 3.92 | 39.2 | 4.42 | 40.4 | 4.53 | 41.9 | 4.64 | 43.1 | 4.72 |
| | | 168.8 | 30.6 | 2.77 | 33.1 | 3.29 | 36.0 | 3.84 | 39.2 | 4.33 | 40.4 | 4.44 | 41.9 | 4.55 | 43.1 | 4.60 |
| | | 202.5 | 30.6 | 2.73 | 33.1 | 3.25 | 36.0 | 3.81 | 39.2 | 4.28 | 40.4 | 4.39 | 41.9 | 4.50 | 43.1 | 4.55 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 54.0 | 30.6 | 3.88 | 33.1 | 4.51 | 36.0 | 5.27 | 39.2 | 5.93 | 40.4 | 6.06 | 41.9 | 6.21 | 43.1 | 6.32 |
| | | 67.5 | 30.6 | 3.81 | 33.1 | 4.44 | 36.0 | 5.18 | 39.2 | 5.83 | 40.4 | 5.96 | 41.9 | 6.11 | 43.1 | 6.22 |
| | | 135.0 | 30.6 | 3.51 | 33.1 | 4.16 | 36.0 | 4.83 | 39.2 | 5.44 | 40.4 | 5.57 | 41.9 | 5.72 | 43.1 | 5.83 |
| | | 168.8 | 30.6 | 3.40 | 33.1 | 4.07 | 36.0 | 4.73 | 39.2 | 5.35 | 40.4 | 5.48 | 41.9 | 5.61 | 43.1 | 5.66 |
| | | 202.5 | 30.6 | 3.34 | 33.1 | 4.02 | 36.0 | 4.69 | 39.2 | 5.30 | 40.4 | 5.43 | 41.9 | 5.55 | 43.1 | 5.58 |
| | 25 | 54.0 | 30.6 | 4.74 | 33.1 | 5.51 | 36.0 | 6.42 | 39.2 | 7.23 | 40.4 | 7.40 | 41.9 | 7.56 | 43.1 | 7.72 |
| | | 67.5 | 30.6 | 4.64 | 33.1 | 5.42 | 36.0 | 6.31 | 39.2 | 7.11 | 40.4 | 7.28 | 41.9 | 7.45 | 43.1 | 7.59 |
| | | 135.0 | 30.6 | 4.27 | 33.1 | 5.07 | 36.0 | 5.90 | 39.2 | 6.65 | 40.4 | 6.80 | 41.9 | 6.98 | 43.1 | 7.09 |
| | | 168.8 | 30.6 | 4.16 | 33.1 | 4.96 | 36.0 | 5.77 | 39.2 | 6.52 | 40.4 | 6.67 | 41.9 | 6.85 | 43.1 | 6.91 |
| | | 202.5 | 30.6 | 4.10 | 33.1 | 4.90 | 36.0 | 5.71 | 39.2 | 6.45 | 40.4 | 6.60 | 41.9 | 6.79 | 43.1 | 6.81 |
| | 30 | 54.0 | 30.6 | 5.84 | 33.1 | 6.78 | 36.0 | 7.89 | 39.2 | 8.89 | 40.4 | 9.10 | 41.9 | 9.32 | 43.1 | 9.49 |
| | | 67.5 | 30.6 | 5.72 | 33.1 | 6.67 | 36.0 | 7.76 | 39.2 | 8.75 | 40.4 | 8.95 | 41.9 | 9.17 | 43.1 | 9.34 |
| | | 135.0 | 30.6 | 5.25 | 33.1 | 6.22 | 36.0 | 7.26 | 39.2 | 8.17 | 40.4 | 8.36 | 41.9 | 8.58 | 43.1 | 8.73 |
| | | 168.8 | 30.6 | 5.11 | 33.1 | 6.09 | 36.0 | 7.11 | 39.2 | 8.00 | 40.4 | 8.21 | 41.9 | 8.41 | 43.1 | 8.50 |
| | | 202.5 | 30.6 | 5.03 | 33.1 | 6.03 | 36.0 | 7.04 | 39.2 | 7.92 | 40.4 | 8.13 | 41.9 | 8.33 | 43.1 | 8.39 |
| | 35 | 54.0 | 29.1 | 6.16 | 31.5 | 7.15 | 34.2 | 8.32 | 37.2 | 9.38 | 38.4 | 9.61 | 39.9 | 9.83 | 40.9 | 10.00 |
| | | 67.5 | 29.1 | 6.03 | 31.5 | 7.04 | 34.2 | 8.19 | 37.2 | 9.23 | 38.4 | 9.45 | 39.9 | 9.67 | 40.9 | 9.84 |
| | | 135.0 | 29.1 | 5.55 | 31.5 | 6.57 | 34.2 | 7.65 | 37.2 | 8.62 | 38.4 | 8.84 | 39.9 | 9.06 | 40.9 | 9.21 |
| | | 168.8 | 29.1 | 5.38 | 31.5 | 6.44 | 34.2 | 7.50 | 37.2 | 8.45 | 38.4 | 8.67 | 39.9 | 8.89 | 40.9 | 8.97 |
| | | 202.5 | 29.1 | 5.30 | 31.5 | 6.38 | 34.2 | 7.43 | 37.2 | 8.37 | 38.4 | 8.59 | 39.9 | 8.81 | 40.9 | 8.85 |
| | 40 | 54.0 | 27.5 | 6.89 | 29.8 | 8.02 | 32.4 | 9.34 | 35.3 | 10.51 | 36.3 | 10.78 | 37.7 | 11.04 | 38.8 | 11.23 |
| | | 67.5 | 27.5 | 6.76 | 29.8 | 7.89 | 32.4 | 9.19 | 35.3 | 10.34 | 36.3 | 10.60 | 37.7 | 10.86 | 38.8 | 11.05 |
| | | 135.0 | 27.5 | 6.22 | 29.8 | 7.37 | 32.4 | 8.60 | 35.3 | 9.67 | 36.3 | 9.90 | 37.7 | 10.16 | 38.8 | 10.34 |
| | | 168.8 | 27.5 | 6.05 | 29.8 | 7.22 | 32.4 | 8.41 | 35.3 | 9.49 | 36.3 | 9.73 | 37.7 | 9.97 | 38.8 | 10.06 |
| | | 202.5 | 27.5 | 5.97 | 29.8 | 7.15 | 32.4 | 8.32 | 35.3 | 9.40 | 36.3 | 9.65 | 37.7 | 9.88 | 38.8 | 9.93 |
| | 45 | 54.0 | 25.9 | 7.63 | 28.1 | 8.89 | 30.7 | 10.36 | 33.3 | 11.64 | 34.2 | 11.96 | 35.6 | 12.25 | 36.7 | 12.45 |
| | | 67.5 | 25.9 | 7.48 | 28.1 | 8.75 | 30.7 | 10.19 | 33.3 | 11.46 | 34.2 | 11.75 | 35.6 | 12.05 | 36.7 | 12.26 |
| | | 135.0 | 25.9 | 6.89 | 28.1 | 8.17 | 30.7 | 9.54 | 33.3 | 10.73 | 34.2 | 10.96 | 35.6 | 11.25 | 36.7 | 11.48 |
| | | 168.8 | 25.9 | 6.72 | 28.1 | 8.00 | 30.7 | 9.32 | 33.3 | 10.53 | 34.2 | 10.79 | 35.6 | 11.05 | 36.7 | 11.16 |
| | | 202.5 | 25.9 | 6.64 | 28.1 | 7.92 | 30.7 | 9.21 | 33.3 | 10.43 | 34.2 | 10.70 | 35.6 | 10.95 | 36.7 | 11.00 |
| 90 | 10 | 54.0 | 27.5 | 2.00 | 29.8 | 2.32 | 32.4 | 2.68 | 35.3 | 3.05 | 36.3 | 3.12 | 37.7 | 3.22 | 38.8 | 3.27 |
| | | 67.5 | 27.5 | 1.97 | 29.8 | 2.29 | 32.4 | 2.64 | 35.3 | 3.00 | 36.3 | 3.07 | 37.7 | 3.16 | 38.8 | 3.22 |
| | | 135.0 | 27.5 | 1.82 | 29.8 | 2.14 | 32.4 | 2.50 | 35.3 | 2.82 | 36.3 | 2.88 | 37.7 | 2.95 | 38.8 | 3.00 |
| | | 168.8 | 27.5 | 1.75 | 29.8 | 2.11 | 32.4 | 2.43 | 35.3 | 2.75 | 36.3 | 2.82 | 37.7 | 2.89 | 38.8 | 2.91 |
| | | 202.5 | 27.5 | 1.71 | 29.8 | 2.09 | 32.4 | 2.39 | 35.3 | 2.71 | 36.3 | 2.80 | 37.7 | 2.87 | 38.8 | 2.87 |
| | 15 | 54.0 | 27.5 | 2.71 | 29.8 | 3.15 | 32.4 | 3.66 | 35.3 | 4.13 | 36.3 | 4.22 | 37.7 | 4.34 | 38.8 | 4.42 |
| | | 67.5 | 27.5 | 2.66 | 29.8 | 3.10 | 32.4 | 3.60 | 35.3 | 4.07 | 36.3 | 4.16 | 37.7 | 4.27 | 38.8 | 4.34 |
| | | 135.0 | 27.5 | 2.45 | 29.8 | 2.90 | 32.4 | 3.38 | 35.3 | 3.81 | 36.3 | 3.90 | 37.7 | 3.99 | 38.8 | 4.07 |
| | | 168.8 | 27.5 | 2.38 | 29.8 | 2.84 | 32.4 | 3.31 | 35.3 | 3.73 | 36.3 | 3.83 | 37.7 | 3.92 | 38.8 | 3.96 |
| | | 202.5 | 27.5 | 2.34 | 29.8 | 2.81 | 32.4 | 3.27 | 35.3 | 3.70 | 36.3 | 3.79 | 37.7 | 3.88 | 38.8 | 3.90 |
| | 20 | 54.0 | 27.5 | 3.33 | 29.8 | 3.89 | 32.4 | 4.53 | 35.3 | 5.10 | 36.3 | 5.20 | 37.7 | 5.34 | 38.8 | 5.43 |
| | | 67.5 | 27.5 | 3.27 | 29.8 | 3.83 | 32.4 | 4.46 | 35.3 | 5.01 | 36.3 | 5.12 | 37.7 | 5.25 | 38.8 | 5.35 |
| | | 135.0 | 27.5 | 3.01 | 29.8 | 3.57 | 32.4 | 4.16 | 35.3 | 4.68 | 36.3 | 4.81 | 37.7 | 4.92 | 38.8 | 5.01 |
| | | 168.8 | 27.5 | 2.93 | 29.8 | 3.49 | 32.4 | 4.09 | 35.3 | 4.60 | 36.3 | 4.72 | 37.7 | 4.83 | 38.8 | 4.88 |
| | | 202.5 | 27.5 | 2.90 | 29.8 | 3.45 | 32.4 | 4.05 | 35.3 | 4.57 | 36.3 | 4.67 | 37.7 | 4.78 | 38.8 | 4.82 |
| | 25 | 54.0 | 27.5 | 4.07 | 29.8 | 4.74 | 32.4 | 5.51 | 35.3 | 6.21 | 36.3 | 6.36 | 37.7 | 6.51 | 38.8 | 6.64 |
| | | 67.5 | 27.5 | 3.99 | 29.8 | 4.66 | 32.4 | 5.42 | 35.3 | 6.11 | 36.3 | 6.26 | 37.7 | 6.41 | 38.8 | 6.54 |
| | | 135.0 | 27.5 | 3.68 | 29.8 | 4.36 | 32.4 | 5.07 | 35.3 | 5.72 | 36.3 | 5.85 | 37.7 | 6.00 | 38.8 | 6.11 |
| | | 168.8 | 27.5 | 3.57 | 29.8 | 4.27 | 32.4 | 4.98 | 35.3 | 5.61 | 36.3 | 5.74 | 37.7 | 5.89 | 38.8 | 5.96 |
| | | 202.5 | 27.5 | 3.51 | 29.8 | 4.22 | 32.4 | 4.93 | 35.3 | 5.55 | 36.3 | 5.68 | 37.7 | 5.83 | 38.8 | 5.89 |
| | 30 | 54.0 | 27.5 | 5.02 | 29.8 | 5.83 | 32.4 | 6.80 | 35.3 | 7.64 | 36.3 | 7.83 | 37.7 | 8.02 | 38.8 | 8.17 |
| | | 67.5 | 27.5 | 4.92 | 29.8 | 5.74 | 32.4 | 6.68 | 35.3 | 7.52 | 36.3 | 7.71 | 37.7 | 7.89 | 38.8 | 8.04 |
| | | 135.0 | 27.5 | 4.51 | 29.8 | 5.37 | 32.4 | 6.24 | 35.3 | 7.04 | 36.3 | 7.20 | 37.7 | 7.39 | 38.8 | 7.52 |
| | | 168.8 | 27.5 | 4.40 | 29.8 | 5.25 | 32.4 | 6.11 | 35.3 | 6.89 | 36.3 | 7.07 | 37.7 | 7.24 | 38.8 | 7.32 |
| | | 202.5 | 27.5 | 4.35 | 29.8 | 5.20 | 32.4 | 6.04 | 35.3 | 6.81 | 36.3 | 7.01 | 37.7 | 7.17 | 38.8 | 7.21 |
| | 35 | 54.0 | 26.7 | 5.42 | 29.0 | 6.28 | 31.6 | 7.32 | 34.3 | 8.25 | 35.3 | 8.44 | 36.7 | 8.64 | 37.7 | 8.81 |
| | | 67.5 | 26.7 | 5.31 | 29.0 | 6.18 | 31.6 | 7.20 | 34.3 | 8.11 | 35.3 | 8.30 | 36.7 | 8.50 | 37.7 | 8.67 |
| | | 135.0 | 26.7 | 4.88 | 29.0 | 5.79 | 31.6 | 6.74 | 34.3 | 7.59 | 35.3 | 7.76 | 36.7 | 7.97 | 37.7 | 8.11 |
| | | 168.8 | 26.7 | 4.73 | 29.0 | 5.66 | 31.6 | 6.59 | 34.3 | 7.45 | 35.3 | 7.63 | 36.7 | 7.82 | 37.7 | 7.89 |
| | | 202.5 | 26.7 | 4.66 | 29.0 | 5.60 | 31.6 | 6.52 | 34.3 | 7.37 | 35.3 | 7.57 | 36.7 | 7.74 | 37.7 | 7.78 |
| | 40 | 54.0 | 26.0 | 6.21 | 28.1 | 7.23 | 30.7 | 8.42 | 33.3 | 9.48 | 34.3 | 9.70 | 35.7 | 9.94 | 36.6 | 10.11 |
| | | 67.5 | 26.0 | 6.09 | 28.1 | 7.11 | 30.7 | 8.28 | 33.3 | 9.32 | 34.3 | 9.54 | 35.7 | 9.79 | 36.6 | 9.95 |
| | | 135.0 | 26.0 | 5.61 | 28.1 | 6.65 | 30.7 | 7.74 | 33.3 | 8.71 | 34.3 | 8.93 | 35.7 | 9.15 | 36.6 | 9.32 |
| | | 168.8 | 26.0 | 5.44 | 28.1 | 6.50 | 30.7 | 7.58 | 33.3 | 8.54 | 34.3 | 8.76 | 35.7 | 8.99 | 36.6 | 9.08 |
| | | 202.5 | 26.0 | 5.36 | 28.1 | 6.42 | 30.7 | 7.49 | 33.3 | 8.46 | 34.3 | 8.68 | 35.7 | 8.90 | 36.6 | 8.96 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 54.0 | 25.2 | 7.01 | 27.3 | 8.18 | 29.7 | 9.51 | 32.3 | 10.71 | 33.3 | 10.96 | 34.6 | 11.25 | 35.6 | 11.41 |
| | | 67.5 | 25.2 | 6.87 | 27.3 | 8.04 | 29.7 | 9.36 | 32.3 | 10.53 | 33.3 | 10.79 | 34.6 | 11.07 | 35.6 | 11.23 |
| | | 135.0 | 25.2 | 6.33 | 27.3 | 7.50 | 29.7 | 8.75 | 32.3 | 9.82 | 33.3 | 10.10 | 34.6 | 10.34 | 35.6 | 10.53 |
| | | 168.8 | 25.2 | 6.15 | 27.3 | 7.33 | 29.7 | 8.56 | 32.3 | 9.64 | 33.3 | 9.90 | 34.6 | 10.16 | 35.6 | 10.27 |
| | | 202.5 | 25.2 | 6.05 | 27.3 | 7.25 | 29.7 | 8.47 | 32.3 | 9.54 | 33.3 | 9.80 | 34.6 | 10.06 | 35.6 | 10.14 |
| 80 | 10 | 54.0 | 24.4 | 1.68 | 26.5 | 1.94 | 28.9 | 2.27 | 31.4 | 2.58 | 32.3 | 2.61 | 33.5 | 2.71 | 34.5 | 2.72 |
| | | 67.5 | 24.4 | 1.64 | 26.5 | 1.91 | 28.9 | 2.23 | 31.4 | 2.54 | 32.3 | 2.57 | 33.5 | 2.66 | 34.5 | 2.68 |
| | | 135.0 | 24.4 | 1.50 | 26.5 | 1.81 | 28.9 | 2.07 | 31.4 | 2.36 | 32.3 | 2.41 | 33.5 | 2.46 | 34.5 | 2.50 |
| | | 168.8 | 24.4 | 1.46 | 26.5 | 1.75 | 28.9 | 2.04 | 31.4 | 2.28 | 32.3 | 2.34 | 33.5 | 2.43 | 34.5 | 2.47 |
| | | 202.5 | 24.4 | 1.45 | 26.5 | 1.72 | 28.9 | 2.02 | 31.4 | 2.25 | 32.3 | 2.30 | 33.5 | 2.41 | 34.5 | 2.45 |
| | 15 | 54.0 | 24.4 | 2.28 | 26.5 | 2.64 | 28.9 | 3.08 | 31.4 | 3.47 | 32.3 | 3.55 | 33.5 | 3.64 | 34.5 | 3.70 |
| | | 67.5 | 24.4 | 2.23 | 26.5 | 2.60 | 28.9 | 3.03 | 31.4 | 3.42 | 32.3 | 3.49 | 33.5 | 3.58 | 34.5 | 3.64 |
| | | 135.0 | 24.4 | 2.04 | 26.5 | 2.43 | 28.9 | 2.82 | 31.4 | 3.19 | 32.3 | 3.27 | 33.5 | 3.34 | 34.5 | 3.40 |
| | | 168.8 | 24.4 | 1.99 | 26.5 | 2.38 | 28.9 | 2.77 | 31.4 | 3.12 | 32.3 | 3.19 | 33.5 | 3.29 | 34.5 | 3.32 |
| | | 202.5 | 24.4 | 1.96 | 26.5 | 2.35 | 28.9 | 2.74 | 31.4 | 3.08 | 32.3 | 3.16 | 33.5 | 3.26 | 34.5 | 3.29 |
| | 20 | 54.0 | 24.4 | 2.80 | 26.5 | 3.27 | 28.9 | 3.79 | 31.4 | 4.26 | 32.3 | 4.38 | 33.5 | 4.47 | 34.5 | 4.57 |
| | | 67.5 | 24.4 | 2.75 | 26.5 | 3.21 | 28.9 | 3.73 | 31.4 | 4.20 | 32.3 | 4.31 | 33.5 | 4.40 | 34.5 | 4.49 |
| | | 135.0 | 24.4 | 2.53 | 26.5 | 2.99 | 28.9 | 3.49 | 31.4 | 3.94 | 32.3 | 4.03 | 33.5 | 4.12 | 34.5 | 4.20 |
| | | 168.8 | 24.4 | 2.45 | 26.5 | 2.93 | 28.9 | 3.42 | 31.4 | 3.86 | 32.3 | 3.96 | 33.5 | 4.05 | 34.5 | 4.09 |
| | | 202.5 | 24.4 | 2.41 | 26.5 | 2.91 | 28.9 | 3.38 | 31.4 | 3.83 | 32.3 | 3.92 | 33.5 | 4.01 | 34.5 | 4.03 |
| | 25 | 54.0 | 24.4 | 3.41 | 26.5 | 3.96 | 28.9 | 4.62 | 31.4 | 5.21 | 32.3 | 5.34 | 33.5 | 5.47 | 34.5 | 5.57 |
| | | 67.5 | 24.4 | 3.34 | 26.5 | 3.90 | 28.9 | 4.55 | 31.4 | 5.12 | 32.3 | 5.25 | 33.5 | 5.38 | 34.5 | 5.48 |
| | | 135.0 | 24.4 | 3.08 | 26.5 | 3.66 | 28.9 | 4.25 | 31.4 | 4.79 | 32.3 | 4.90 | 33.5 | 5.03 | 34.5 | 5.12 |
| | | 168.8 | 24.4 | 2.99 | 26.5 | 3.58 | 28.9 | 4.18 | 31.4 | 4.70 | 32.3 | 4.81 | 33.5 | 4.94 | 34.5 | 4.99 |
| | | 202.5 | 24.4 | 2.94 | 26.5 | 3.55 | 28.9 | 4.14 | 31.4 | 4.65 | 32.3 | 4.76 | 33.5 | 4.89 | 34.5 | 4.93 |
| | 30 | 54.0 | 24.4 | 4.21 | 26.5 | 4.89 | 28.9 | 5.70 | 31.4 | 6.42 | 32.3 | 6.57 | 33.5 | 6.72 | 34.5 | 6.85 |
| | | 67.5 | 24.4 | 4.12 | 26.5 | 4.81 | 28.9 | 5.61 | 31.4 | 6.31 | 32.3 | 6.46 | 33.5 | 6.61 | 34.5 | 6.74 |
| | | 135.0 | 24.4 | 3.79 | 26.5 | 4.49 | 28.9 | 5.24 | 31.4 | 5.89 | 32.3 | 6.03 | 33.5 | 6.18 | 34.5 | 6.29 |
| | | 168.8 | 24.4 | 3.68 | 26.5 | 4.40 | 28.9 | 5.12 | 31.4 | 5.77 | 32.3 | 5.92 | 33.5 | 6.07 | 34.5 | 6.13 |
| | | 202.5 | 24.4 | 3.62 | 26.5 | 4.35 | 28.9 | 5.07 | 31.4 | 5.72 | 32.3 | 5.87 | 33.5 | 6.02 | 34.5 | 6.04 |
| | 35 | 54.0 | 24.4 | 4.68 | 26.5 | 5.44 | 28.9 | 6.32 | 31.4 | 7.11 | 32.3 | 7.28 | 33.5 | 7.47 | 34.5 | 7.60 |
| | | 67.5 | 24.4 | 4.59 | 26.5 | 5.35 | 28.9 | 6.22 | 31.4 | 7.00 | 32.3 | 7.17 | 33.5 | 7.35 | 34.5 | 7.48 |
| | | 135.0 | 24.4 | 4.21 | 26.5 | 4.99 | 28.9 | 5.81 | 31.4 | 6.55 | 32.3 | 6.70 | 33.5 | 6.87 | 34.5 | 7.00 |
| | | 168.8 | 24.4 | 4.10 | 26.5 | 4.88 | 28.9 | 5.70 | 31.4 | 6.42 | 32.3 | 6.57 | 33.5 | 6.76 | 34.5 | 6.81 |
| | | 202.5 | 24.4 | 4.05 | 26.5 | 4.83 | 28.9 | 5.64 | 31.4 | 6.36 | 32.3 | 6.51 | 33.5 | 6.70 | 34.5 | 6.72 |
| | 40 | 54.0 | 24.4 | 5.53 | 26.5 | 6.44 | 28.9 | 7.49 | 31.4 | 8.44 | 32.3 | 8.62 | 33.5 | 8.85 | 34.5 | 9.00 |
| | | 67.5 | 24.4 | 5.42 | 26.5 | 6.33 | 28.9 | 7.37 | 31.4 | 8.30 | 32.3 | 8.49 | 33.5 | 8.71 | 34.5 | 8.86 |
| | | 135.0 | 24.4 | 4.99 | 26.5 | 5.90 | 28.9 | 6.89 | 31.4 | 7.76 | 32.3 | 7.95 | 33.5 | 8.15 | 34.5 | 8.30 |
| | | 168.8 | 24.4 | 4.85 | 26.5 | 5.79 | 28.9 | 6.74 | 31.4 | 7.61 | 32.3 | 7.80 | 33.5 | 7.98 | 34.5 | 8.08 |
| | | 202.5 | 24.4 | 4.77 | 26.5 | 5.74 | 28.9 | 6.67 | 31.4 | 7.54 | 32.3 | 7.72 | 33.5 | 7.90 | 34.5 | 7.97 |
| | 45 | 54.0 | 24.4 | 6.38 | 26.5 | 7.44 | 28.9 | 8.66 | 31.4 | 9.76 | 32.3 | 9.96 | 33.5 | 10.22 | 34.5 | 10.39 |
| | | 67.5 | 24.4 | 6.26 | 26.5 | 7.32 | 28.9 | 8.52 | 31.4 | 9.60 | 32.3 | 9.80 | 33.5 | 10.06 | 34.5 | 10.23 |
| | | 135.0 | 24.4 | 5.77 | 26.5 | 6.81 | 28.9 | 7.97 | 31.4 | 8.97 | 32.3 | 9.19 | 33.5 | 9.43 | 34.5 | 9.60 |
| | | 168.8 | 24.4 | 5.59 | 26.5 | 6.70 | 28.9 | 7.78 | 31.4 | 8.80 | 32.3 | 9.02 | 33.5 | 9.21 | 34.5 | 9.34 |
| | | 202.5 | 24.4 | 5.50 | 26.5 | 6.65 | 28.9 | 7.69 | 31.4 | 8.72 | 32.3 | 8.94 | 33.5 | 9.10 | 34.5 | 9.21 |
| 70 | 10 | 54.0 | 21.4 | 1.40 | 23.2 | 1.61 | 25.3 | 1.91 | 27.4 | 2.15 | 28.3 | 2.15 | 29.3 | 2.23 | 30.2 | 2.26 |
| | | 67.5 | 21.4 | 1.38 | 23.2 | 1.59 | 25.3 | 1.88 | 27.4 | 2.11 | 28.3 | 2.12 | 29.3 | 2.20 | 30.2 | 2.23 |
| | | 135.0 | 21.4 | 1.27 | 23.2 | 1.50 | 25.3 | 1.75 | 27.4 | 1.97 | 28.3 | 2.00 | 29.3 | 2.05 | 30.2 | 2.11 |
| | | 168.8 | 21.4 | 1.21 | 23.2 | 1.45 | 25.3 | 1.70 | 27.4 | 1.91 | 28.3 | 1.95 | 29.3 | 2.02 | 30.2 | 2.06 |
| | | 202.5 | 21.4 | 1.19 | 23.2 | 1.42 | 25.3 | 1.67 | 27.4 | 1.88 | 28.3 | 1.92 | 29.3 | 2.00 | 30.2 | 2.03 |
| | 15 | 54.0 | 21.4 | 1.89 | 23.2 | 2.19 | 25.3 | 2.57 | 27.4 | 2.89 | 28.3 | 2.94 | 29.3 | 3.02 | 30.2 | 3.07 |
| | | 67.5 | 21.4 | 1.86 | 23.2 | 2.15 | 25.3 | 2.53 | 27.4 | 2.84 | 28.3 | 2.90 | 29.3 | 2.97 | 30.2 | 3.03 |
| | | 135.0 | 21.4 | 1.71 | 23.2 | 2.02 | 25.3 | 2.36 | 27.4 | 2.66 | 28.3 | 2.71 | 29.3 | 2.79 | 30.2 | 2.84 |
| | | 168.8 | 21.4 | 1.65 | 23.2 | 1.97 | 25.3 | 2.30 | 27.4 | 2.60 | 28.3 | 2.66 | 29.3 | 2.73 | 30.2 | 2.77 |
| | | 202.5 | 21.4 | 1.62 | 23.2 | 1.94 | 25.3 | 2.27 | 27.4 | 2.57 | 28.3 | 2.63 | 29.3 | 2.70 | 30.2 | 2.73 |
| | 20 | 54.0 | 21.4 | 2.33 | 23.2 | 2.70 | 25.3 | 3.15 | 27.4 | 3.55 | 28.3 | 3.64 | 29.3 | 3.71 | 30.2 | 3.79 |
| | | 67.5 | 21.4 | 2.28 | 23.2 | 2.66 | 25.3 | 3.10 | 27.4 | 3.49 | 28.3 | 3.58 | 29.3 | 3.66 | 30.2 | 3.73 |
| | | 135.0 | 21.4 | 2.10 | 23.2 | 2.49 | 25.3 | 2.90 | 27.4 | 3.27 | 28.3 | 3.34 | 29.3 | 3.44 | 30.2 | 3.49 |
| | | 168.8 | 21.4 | 2.04 | 23.2 | 2.43 | 25.3 | 2.84 | 27.4 | 3.21 | 28.3 | 3.29 | 29.3 | 3.36 | 30.2 | 3.40 |
| | | 202.5 | 21.4 | 2.01 | 23.2 | 2.40 | 25.3 | 2.81 | 27.4 | 3.18 | 28.3 | 3.26 | 29.3 | 3.32 | 30.2 | 3.35 |
| | 25 | 54.0 | 21.4 | 2.84 | 23.2 | 3.30 | 25.3 | 3.85 | 27.4 | 4.34 | 28.3 | 4.43 | 29.3 | 4.55 | 30.2 | 4.62 |
| | | 67.5 | 21.4 | 2.79 | 23.2 | 3.25 | 25.3 | 3.79 | 27.4 | 4.27 | 28.3 | 4.36 | 29.3 | 4.47 | 30.2 | 4.55 |
| | | 135.0 | 21.4 | 2.56 | 23.2 | 3.05 | 25.3 | 3.55 | 27.4 | 3.99 | 28.3 | 4.09 | 29.3 | 4.18 | 30.2 | 4.25 |
| | | 168.8 | 21.4 | 2.49 | 23.2 | 2.97 | 25.3 | 3.47 | 27.4 | 3.90 | 28.3 | 4.01 | 29.3 | 4.10 | 30.2 | 4.14 |
| | | 202.5 | 21.4 | 2.45 | 23.2 | 2.93 | 25.3 | 3.44 | 27.4 | 3.85 | 28.3 | 3.97 | 29.3 | 4.07 | 30.2 | 4.09 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 54.0 | 21.4 | 3.51 | 23.2 | 4.06 | 25.3 | 4.74 | 27.4 | 5.32 | 28.3 | 5.46 | 29.3 | 5.59 | 30.2 | 5.68 |
| | | 67.5 | 21.4 | 3.44 | 23.2 | 3.99 | 25.3 | 4.66 | 27.4 | 5.24 | 28.3 | 5.37 | 29.3 | 5.50 | 30.2 | 5.59 |
| | | 135.0 | 21.4 | 3.16 | 23.2 | 3.73 | 25.3 | 4.34 | 27.4 | 4.90 | 28.3 | 5.01 | 29.3 | 5.14 | 30.2 | 5.24 |
| | | 168.8 | 21.4 | 3.06 | 23.2 | 3.66 | 25.3 | 4.27 | 27.4 | 4.81 | 28.3 | 4.92 | 29.3 | 5.05 | 30.2 | 5.11 |
| | | 202.5 | 21.4 | 3.02 | 23.2 | 3.62 | 25.3 | 4.23 | 27.4 | 4.76 | 28.3 | 4.87 | 29.3 | 5.00 | 30.2 | 5.04 |
| | 35 | 54.0 | 21.4 | 3.88 | 23.2 | 4.51 | 25.3 | 5.27 | 27.4 | 5.93 | 28.3 | 6.06 | 29.3 | 6.21 | 30.2 | 6.32 |
| | | 67.5 | 21.4 | 3.81 | 23.2 | 4.44 | 25.3 | 5.18 | 27.4 | 5.83 | 28.3 | 5.96 | 29.3 | 6.11 | 30.2 | 6.22 |
| | | 135.0 | 21.4 | 3.51 | 23.2 | 4.16 | 25.3 | 4.83 | 27.4 | 5.44 | 28.3 | 5.57 | 29.3 | 5.72 | 30.2 | 5.83 |
| | | 168.8 | 21.4 | 3.40 | 23.2 | 4.07 | 25.3 | 4.73 | 27.4 | 5.35 | 28.3 | 5.48 | 29.3 | 5.61 | 30.2 | 5.66 |
| | | 202.5 | 21.4 | 3.34 | 23.2 | 4.02 | 25.3 | 4.69 | 27.4 | 5.30 | 28.3 | 5.43 | 29.3 | 5.55 | 30.2 | 5.58 |
| | 40 | 54.0 | 21.4 | 4.61 | 23.2 | 5.34 | 25.3 | 6.23 | 27.4 | 7.00 | 28.3 | 7.17 | 29.3 | 7.36 | 30.2 | 7.49 |
| | | 67.5 | 21.4 | 4.51 | 23.2 | 5.25 | 25.3 | 6.13 | 27.4 | 6.89 | 28.3 | 7.06 | 29.3 | 7.24 | 30.2 | 7.37 |
| | | 135.0 | 21.4 | 4.14 | 23.2 | 4.92 | 25.3 | 5.72 | 27.4 | 6.44 | 28.3 | 6.61 | 29.3 | 6.78 | 30.2 | 6.89 |
| | | 168.8 | 21.4 | 4.03 | 23.2 | 4.81 | 25.3 | 5.61 | 27.4 | 6.33 | 28.3 | 6.48 | 29.3 | 6.65 | 30.2 | 6.72 |
| | | 202.5 | 21.4 | 3.97 | 23.2 | 4.75 | 25.3 | 5.55 | 27.4 | 6.28 | 28.3 | 6.42 | 29.3 | 6.58 | 30.2 | 6.64 |
| | 45 | 54.0 | 21.4 | 5.33 | 23.2 | 6.17 | 25.3 | 7.19 | 27.4 | 8.07 | 28.3 | 8.28 | 29.3 | 8.51 | 30.2 | 8.67 |
| | | 67.5 | 21.4 | 5.22 | 23.2 | 6.07 | 25.3 | 7.07 | 27.4 | 7.95 | 28.3 | 8.15 | 29.3 | 8.37 | 30.2 | 8.52 |
| | | 135.0 | 21.4 | 4.77 | 23.2 | 5.68 | 25.3 | 6.61 | 27.4 | 7.45 | 28.3 | 7.65 | 29.3 | 7.84 | 30.2 | 7.95 |
| | | 168.8 | 21.4 | 4.66 | 23.2 | 5.55 | 25.3 | 6.48 | 27.4 | 7.32 | 28.3 | 7.48 | 29.3 | 7.69 | 30.2 | 7.78 |
| | | 202.5 | 21.4 | 4.61 | 23.2 | 5.49 | 25.3 | 6.42 | 27.4 | 7.25 | 28.3 | 7.40 | 29.3 | 7.61 | 30.2 | 7.70 |
| 60 | 10 | 54.0 | 18.3 | 1.14 | 19.9 | 1.31 | 21.6 | 1.51 | 23.5 | 1.71 | 24.2 | 1.75 | 25.2 | 1.81 | 25.9 | 1.81 |
| | | 67.5 | 18.3 | 1.11 | 19.9 | 1.29 | 21.6 | 1.48 | 23.5 | 1.68 | 24.2 | 1.72 | 25.2 | 1.77 | 25.9 | 1.79 |
| | | 135.0 | 18.3 | 1.00 | 19.9 | 1.20 | 21.6 | 1.37 | 23.5 | 1.57 | 24.2 | 1.57 | 25.2 | 1.62 | 25.9 | 1.68 |
| | | 168.8 | 18.3 | 0.96 | 19.9 | 1.16 | 21.6 | 1.36 | 23.5 | 1.54 | 24.2 | 1.55 | 25.2 | 1.59 | 25.9 | 1.61 |
| | | 202.5 | 18.3 | 0.94 | 19.9 | 1.14 | 21.6 | 1.35 | 23.5 | 1.52 | 24.2 | 1.54 | 25.2 | 1.57 | 25.9 | 1.57 |
| | 15 | 54.0 | 18.3 | 1.52 | 19.9 | 1.75 | 21.6 | 2.04 | 23.5 | 2.30 | 24.2 | 2.36 | 25.2 | 2.42 | 25.9 | 2.45 |
| | | 67.5 | 18.3 | 1.49 | 19.9 | 1.73 | 21.6 | 2.01 | 23.5 | 2.27 | 24.2 | 2.32 | 25.2 | 2.38 | 25.9 | 2.41 |
| | | 135.0 | 18.3 | 1.36 | 19.9 | 1.62 | 21.6 | 1.88 | 23.5 | 2.12 | 24.2 | 2.15 | 25.2 | 2.21 | 25.9 | 2.27 |
| | | 168.8 | 18.3 | 1.32 | 19.9 | 1.58 | 21.6 | 1.84 | 23.5 | 2.08 | 24.2 | 2.12 | 25.2 | 2.17 | 25.9 | 2.19 |
| | | 202.5 | 18.3 | 1.30 | 19.9 | 1.56 | 21.6 | 1.82 | 23.5 | 2.06 | 24.2 | 2.10 | 25.2 | 2.15 | 25.9 | 2.15 |
| | 20 | 54.0 | 18.3 | 1.86 | 19.9 | 2.15 | 21.6 | 2.51 | 23.5 | 2.83 | 24.2 | 2.91 | 25.2 | 2.96 | 25.9 | 3.02 |
| | | 67.5 | 18.3 | 1.82 | 19.9 | 2.12 | 21.6 | 2.47 | 23.5 | 2.79 | 24.2 | 2.86 | 25.2 | 2.92 | 25.9 | 2.97 |
| | | 135.0 | 18.3 | 1.67 | 19.9 | 1.99 | 21.6 | 2.32 | 23.5 | 2.60 | 24.2 | 2.67 | 25.2 | 2.73 | 25.9 | 2.79 |
| | | 168.8 | 18.3 | 1.63 | 19.9 | 1.95 | 21.6 | 2.27 | 23.5 | 2.56 | 24.2 | 2.62 | 25.2 | 2.69 | 25.9 | 2.71 |
| | | 202.5 | 18.3 | 1.62 | 19.9 | 1.93 | 21.6 | 2.24 | 23.5 | 2.54 | 24.2 | 2.59 | 25.2 | 2.67 | 25.9 | 2.67 |
| | 25 | 54.0 | 18.3 | 2.28 | 19.9 | 2.62 | 21.6 | 3.05 | 23.5 | 3.45 | 24.2 | 3.53 | 25.2 | 3.62 | 25.9 | 3.68 |
| | | 67.5 | 18.3 | 2.23 | 19.9 | 2.58 | 21.6 | 3.01 | 23.5 | 3.40 | 24.2 | 3.47 | 25.2 | 3.57 | 25.9 | 3.62 |
| | | 135.0 | 18.3 | 2.04 | 19.9 | 2.41 | 21.6 | 2.82 | 23.5 | 3.18 | 24.2 | 3.25 | 25.2 | 3.34 | 25.9 | 3.40 |
| | | 168.8 | 18.3 | 1.99 | 19.9 | 2.38 | 21.6 | 2.77 | 23.5 | 3.12 | 24.2 | 3.19 | 25.2 | 3.27 | 25.9 | 3.31 |
| | | 202.5 | 18.3 | 1.96 | 19.9 | 2.36 | 21.6 | 2.74 | 23.5 | 3.09 | 24.2 | 3.17 | 25.2 | 3.23 | 25.9 | 3.26 |
| | 30 | 54.0 | 18.3 | 2.79 | 19.9 | 3.25 | 21.6 | 3.77 | 23.5 | 4.25 | 24.2 | 4.34 | 25.2 | 4.45 | 25.9 | 4.53 |
| | | 67.5 | 18.3 | 2.73 | 19.9 | 3.19 | 21.6 | 3.71 | 23.5 | 4.18 | 24.2 | 4.27 | 25.2 | 4.38 | 25.9 | 4.46 |
| | | 135.0 | 18.3 | 2.51 | 19.9 | 2.97 | 21.6 | 3.47 | 23.5 | 3.90 | 24.2 | 3.99 | 25.2 | 4.10 | 25.9 | 4.18 |
| | | 168.8 | 18.3 | 2.45 | 19.9 | 2.92 | 21.6 | 3.40 | 23.5 | 3.83 | 24.2 | 3.92 | 25.2 | 4.03 | 25.9 | 4.07 |
| | | 202.5 | 18.3 | 2.42 | 19.9 | 2.89 | 21.6 | 3.36 | 23.5 | 3.79 | 24.2 | 3.88 | 25.2 | 3.99 | 25.9 | 4.01 |
| | 35 | 54.0 | 18.3 | 3.09 | 19.9 | 3.61 | 21.6 | 4.19 | 23.5 | 4.72 | 24.2 | 4.83 | 25.2 | 4.94 | 25.9 | 5.04 |
| | | 67.5 | 18.3 | 3.03 | 19.9 | 3.55 | 21.6 | 4.12 | 23.5 | 4.64 | 24.2 | 4.75 | 25.2 | 4.86 | 25.9 | 4.96 |
| | | 135.0 | 18.3 | 2.79 | 19.9 | 3.31 | 21.6 | 3.86 | 23.5 | 4.34 | 24.2 | 4.44 | 25.2 | 4.57 | 25.9 | 4.64 |
| | | 168.8 | 18.3 | 2.71 | 19.9 | 3.23 | 21.6 | 3.77 | 23.5 | 4.25 | 24.2 | 4.36 | 25.2 | 4.47 | 25.9 | 4.51 |
| | | 202.5 | 18.3 | 2.67 | 19.9 | 3.19 | 21.6 | 3.72 | 23.5 | 4.21 | 24.2 | 4.33 | 25.2 | 4.43 | 25.9 | 4.45 |
| | 40 | 54.0 | 18.3 | 3.68 | 19.9 | 4.27 | 21.6 | 4.96 | 23.5 | 5.59 | 24.2 | 5.72 | 25.2 | 5.87 | 25.9 | 5.96 |
| | | 67.5 | 18.3 | 3.60 | 19.9 | 4.20 | 21.6 | 4.88 | 23.5 | 5.50 | 24.2 | 5.63 | 25.2 | 5.77 | 25.9 | 5.87 |
| | | 135.0 | 18.3 | 3.31 | 19.9 | 3.92 | 21.6 | 4.57 | 23.5 | 5.14 | 24.2 | 5.25 | 25.2 | 5.40 | 25.9 | 5.50 |
| | | 168.8 | 18.3 | 3.21 | 19.9 | 3.84 | 21.6 | 4.47 | 23.5 | 5.03 | 24.2 | 5.16 | 25.2 | 5.29 | 25.9 | 5.35 |
| | | 202.5 | 18.3 | 3.17 | 19.9 | 3.81 | 21.6 | 4.43 | 23.5 | 4.98 | 24.2 | 5.12 | 25.2 | 5.24 | 25.9 | 5.27 |
| | 45 | 54.0 | 18.3 | 4.27 | 19.9 | 4.93 | 21.6 | 5.74 | 23.5 | 6.45 | 24.2 | 6.61 | 25.2 | 6.80 | 25.9 | 6.89 |
| | | 67.5 | 18.3 | 4.18 | 19.9 | 4.85 | 21.6 | 5.64 | 23.5 | 6.35 | 24.2 | 6.50 | 25.2 | 6.68 | 25.9 | 6.78 |
| | | 135.0 | 18.3 | 3.83 | 19.9 | 4.53 | 21.6 | 5.27 | 23.5 | 5.94 | 24.2 | 6.07 | 25.2 | 6.24 | 25.9 | 6.35 |
| | | 168.8 | 18.3 | 3.71 | 19.9 | 4.46 | 21.6 | 5.18 | 23.5 | 5.81 | 24.2 | 5.96 | 25.2 | 6.11 | 25.9 | 6.18 |
| | | 202.5 | 18.3 | 3.66 | 19.9 | 4.42 | 21.6 | 5.13 | 23.5 | 5.75 | 24.2 | 5.90 | 25.2 | 6.04 | 25.9 | 6.10 |
| 50 | 10 | 54.0 | 15.3 | 0.81 | 16.6 | 0.96 | 18.0 | 1.16 | 19.6 | 1.27 | 20.2 | 1.28 | 21.0 | 1.33 | 21.6 | 1.36 |
| | | 67.5 | 15.3 | 0.80 | 16.6 | 0.95 | 18.0 | 1.13 | 19.6 | 1.25 | 20.2 | 1.27 | 21.0 | 1.30 | 21.6 | 1.34 |
| | | 135.0 | 15.3 | 0.77 | 16.6 | 0.89 | 18.0 | 1.02 | 19.6 | 1.16 | 20.2 | 1.20 | 21.0 | 1.21 | 21.6 | 1.25 |
| | | 168.8 | 15.3 | 0.73 | 16.6 | 0.86 | 18.0 | 1.02 | 19.6 | 1.12 | 20.2 | 1.16 | 21.0 | 1.18 | 21.6 | 1.20 |
| | | 202.5 | 15.3 | 0.71 | 16.6 | 0.84 | 18.0 | 1.02 | 19.6 | 1.10 | 20.2 | 1.14 | 21.0 | 1.16 | 21.6 | 1.17 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 54.0 | 15.3 | 1.11 | 16.6 | 1.30 | 18.0 | 1.53 | 19.6 | 1.72 | 20.2 | 1.75 | 21.0 | 1.79 | 21.6 | 1.83 |
| | | 67.5 | 15.3 | 1.10 | 16.6 | 1.28 | 18.0 | 1.50 | 19.6 | 1.69 | 20.2 | 1.73 | 21.0 | 1.76 | 21.6 | 1.80 |
| | | 135.0 | 15.3 | 1.02 | 16.6 | 1.21 | 18.0 | 1.39 | 19.6 | 1.58 | 20.2 | 1.62 | 21.0 | 1.65 | 21.6 | 1.69 |
| | | 168.8 | 15.3 | 0.98 | 16.6 | 1.17 | 18.0 | 1.37 | 19.6 | 1.54 | 20.2 | 1.58 | 21.0 | 1.62 | 21.6 | 1.63 |
| | | 202.5 | 15.3 | 0.97 | 16.6 | 1.15 | 18.0 | 1.36 | 19.6 | 1.52 | 20.2 | 1.56 | 21.0 | 1.60 | 21.6 | 1.61 |
| | 20 | 54.0 | 15.3 | 1.38 | 16.6 | 1.60 | 18.0 | 1.87 | 19.6 | 2.11 | 20.2 | 2.17 | 21.0 | 2.21 | 21.6 | 2.24 |
| | | 67.5 | 15.3 | 1.36 | 16.6 | 1.58 | 18.0 | 1.84 | 19.6 | 2.08 | 20.2 | 2.14 | 21.0 | 2.17 | 21.6 | 2.21 |
| | | 135.0 | 15.3 | 1.24 | 16.6 | 1.49 | 18.0 | 1.73 | 19.6 | 1.95 | 20.2 | 1.99 | 21.0 | 2.04 | 21.6 | 2.08 |
| | | 168.8 | 15.3 | 1.21 | 16.6 | 1.45 | 18.0 | 1.69 | 19.6 | 1.91 | 20.2 | 1.95 | 21.0 | 2.01 | 21.6 | 2.02 |
| | | 202.5 | 15.3 | 1.19 | 16.6 | 1.43 | 18.0 | 1.67 | 19.6 | 1.89 | 20.2 | 1.93 | 21.0 | 1.99 | 21.6 | 2.00 |
| | 25 | 54.0 | 15.3 | 1.69 | 16.6 | 1.96 | 18.0 | 2.28 | 19.6 | 2.56 | 20.2 | 2.64 | 21.0 | 2.70 | 21.6 | 2.76 |
| | | 67.5 | 15.3 | 1.65 | 16.6 | 1.93 | 18.0 | 2.25 | 19.6 | 2.53 | 20.2 | 2.60 | 21.0 | 2.66 | 21.6 | 2.71 |
| | | 135.0 | 15.3 | 1.52 | 16.6 | 1.80 | 18.0 | 2.10 | 19.6 | 2.38 | 20.2 | 2.43 | 21.0 | 2.49 | 21.6 | 2.53 |
| | | 168.8 | 15.3 | 1.49 | 16.6 | 1.76 | 18.0 | 2.06 | 19.6 | 2.32 | 20.2 | 2.38 | 21.0 | 2.43 | 21.6 | 2.47 |
| | | 202.5 | 15.3 | 1.47 | 16.6 | 1.75 | 18.0 | 2.04 | 19.6 | 2.29 | 20.2 | 2.35 | 21.0 | 2.40 | 21.6 | 2.44 |
| | 30 | 54.0 | 15.3 | 2.08 | 16.6 | 2.41 | 18.0 | 2.81 | 19.6 | 3.17 | 20.2 | 3.25 | 21.0 | 3.32 | 21.6 | 3.38 |
| | | 67.5 | 15.3 | 2.04 | 16.6 | 2.38 | 18.0 | 2.77 | 19.6 | 3.12 | 20.2 | 3.19 | 21.0 | 3.27 | 21.6 | 3.32 |
| | | 135.0 | 15.3 | 1.88 | 16.6 | 2.23 | 18.0 | 2.58 | 19.6 | 2.92 | 20.2 | 2.99 | 21.0 | 3.06 | 21.6 | 3.12 |
| | | 168.8 | 15.3 | 1.82 | 16.6 | 2.17 | 18.0 | 2.53 | 19.6 | 2.86 | 20.2 | 2.93 | 21.0 | 3.01 | 21.6 | 3.03 |
| | | 202.5 | 15.3 | 1.79 | 16.6 | 2.14 | 18.0 | 2.50 | 19.6 | 2.83 | 20.2 | 2.91 | 21.0 | 2.98 | 21.6 | 2.98 |
| | 35 | 54.0 | 15.3 | 2.31 | 16.6 | 2.68 | 18.0 | 3.13 | 19.6 | 3.51 | 20.2 | 3.61 | 21.0 | 3.70 | 21.6 | 3.76 |
| | | 67.5 | 15.3 | 2.27 | 16.6 | 2.64 | 18.0 | 3.08 | 19.6 | 3.45 | 20.2 | 3.55 | 21.0 | 3.64 | 21.6 | 3.70 |
| | | 135.0 | 15.3 | 2.08 | 16.6 | 2.47 | 18.0 | 2.88 | 19.6 | 3.23 | 20.2 | 3.31 | 21.0 | 3.40 | 21.6 | 3.45 |
| | | 168.8 | 15.3 | 2.02 | 16.6 | 2.41 | 18.0 | 2.82 | 19.6 | 3.18 | 20.2 | 3.25 | 21.0 | 3.34 | 21.6 | 3.36 |
| | | 202.5 | 15.3 | 2.00 | 16.6 | 2.39 | 18.0 | 2.79 | 19.6 | 3.15 | 20.2 | 3.22 | 21.0 | 3.31 | 21.6 | 3.31 |
| | 40 | 54.0 | 15.3 | 2.73 | 16.6 | 3.17 | 18.0 | 3.70 | 19.6 | 4.17 | 20.2 | 4.27 | 21.0 | 4.38 | 21.6 | 4.45 |
| | | 67.5 | 15.3 | 2.67 | 16.6 | 3.12 | 18.0 | 3.64 | 19.6 | 4.10 | 20.2 | 4.20 | 21.0 | 4.31 | 21.6 | 4.38 |
| | | 135.0 | 15.3 | 2.47 | 16.6 | 2.92 | 18.0 | 3.40 | 19.6 | 3.83 | 20.2 | 3.92 | 21.0 | 4.03 | 21.6 | 4.10 |
| | | 168.8 | 15.3 | 2.40 | 16.6 | 2.86 | 18.0 | 3.34 | 19.6 | 3.75 | 20.2 | 3.84 | 21.0 | 3.96 | 21.6 | 3.99 |
| | | 202.5 | 15.3 | 2.36 | 16.6 | 2.83 | 18.0 | 3.31 | 19.6 | 3.71 | 20.2 | 3.81 | 21.0 | 3.92 | 21.6 | 3.94 |
| | 45 | 54.0 | 15.3 | 3.14 | 16.6 | 3.66 | 18.0 | 4.27 | 19.6 | 4.84 | 20.2 | 4.93 | 21.0 | 5.06 | 21.6 | 5.15 |
| | | 67.5 | 15.3 | 3.08 | 16.6 | 3.60 | 18.0 | 4.20 | 19.6 | 4.75 | 20.2 | 4.85 | 21.0 | 4.98 | 21.6 | 5.07 |
| | | 135.0 | 15.3 | 2.86 | 16.6 | 3.36 | 18.0 | 3.92 | 19.6 | 4.42 | 20.2 | 4.53 | 21.0 | 4.66 | 21.6 | 4.75 |
| | | 168.8 | 15.3 | 2.77 | 16.6 | 3.31 | 18.0 | 3.86 | 19.6 | 4.33 | 20.2 | 4.44 | 21.0 | 4.57 | 21.6 | 4.62 |
| | | 202.5 | 15.3 | 2.72 | 16.6 | 3.28 | 18.0 | 3.83 | 19.6 | 4.28 | 20.2 | 4.39 | 21.0 | 4.52 | 21.6 | 4.56 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN160BAS4

**Cooling Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 61.6 | 41.6 | 3.13 | 45.1 | 3.66 | 49.2 | 4.27 | 53.4 | 4.81 | 54.9 | 4.95 | 57.1 | 5.04 | 58.7 | 5.08 |
| | | 77.0 | 41.6 | 3.07 | 45.1 | 3.61 | 49.2 | 4.20 | 53.4 | 4.73 | 54.9 | 4.86 | 57.1 | 4.96 | 58.7 | 5.02 |
| | | 154.0 | 41.6 | 2.85 | 45.1 | 3.38 | 49.2 | 3.94 | 53.4 | 4.43 | 54.9 | 4.51 | 57.1 | 4.65 | 58.7 | 4.76 |
| | | 192.5 | 41.6 | 2.77 | 45.1 | 3.30 | 49.2 | 3.85 | 53.4 | 4.32 | 54.9 | 4.45 | 57.1 | 4.55 | 58.7 | 4.63 |
| | | 231.0 | 41.6 | 2.73 | 45.1 | 3.26 | 49.2 | 3.81 | 53.4 | 4.27 | 54.9 | 4.42 | 57.1 | 4.50 | 58.7 | 4.57 |
| | 15 | 61.6 | 40.9 | 4.13 | 44.4 | 4.80 | 48.3 | 5.60 | 52.5 | 6.31 | 54.1 | 6.47 | 56.2 | 6.61 | 57.7 | 6.71 |
| | | 77.0 | 40.9 | 4.05 | 44.4 | 4.73 | 48.3 | 5.51 | 52.5 | 6.21 | 54.1 | 6.36 | 56.2 | 6.51 | 57.7 | 6.62 |
| | | 154.0 | 40.9 | 3.73 | 44.4 | 4.43 | 48.3 | 5.15 | 52.5 | 5.81 | 54.1 | 5.94 | 56.2 | 6.11 | 57.7 | 6.23 |
| | | 192.5 | 40.9 | 3.63 | 44.4 | 4.33 | 48.3 | 5.05 | 52.5 | 5.68 | 54.1 | 5.83 | 56.2 | 5.98 | 57.7 | 6.09 |
| | | 231.0 | 40.9 | 3.57 | 44.4 | 4.27 | 48.3 | 4.99 | 52.5 | 5.62 | 54.1 | 5.78 | 56.2 | 5.92 | 57.7 | 6.01 |
| | 20 | 61.6 | 40.4 | 5.02 | 43.7 | 5.82 | 47.6 | 6.79 | 51.8 | 7.65 | 53.3 | 7.82 | 55.4 | 8.01 | 56.9 | 8.16 |
| | | 77.0 | 40.4 | 4.92 | 43.7 | 5.73 | 47.6 | 6.68 | 51.8 | 7.53 | 53.3 | 7.70 | 55.4 | 7.89 | 56.9 | 8.04 |
| | | 154.0 | 40.4 | 4.52 | 43.7 | 5.36 | 47.6 | 6.23 | 51.8 | 7.04 | 53.3 | 7.21 | 55.4 | 7.40 | 56.9 | 7.55 |
| | | 192.5 | 40.4 | 4.39 | 43.7 | 5.24 | 47.6 | 6.11 | 51.8 | 6.89 | 53.3 | 7.06 | 55.4 | 7.25 | 56.9 | 7.38 |
| | | 231.0 | 40.4 | 4.33 | 43.7 | 5.17 | 47.6 | 6.04 | 51.8 | 6.82 | 53.3 | 6.99 | 55.4 | 7.18 | 56.9 | 7.29 |
| | 25 | 61.6 | 40.4 | 6.19 | 43.7 | 7.17 | 47.6 | 8.36 | 51.8 | 9.42 | 53.3 | 9.65 | 55.4 | 9.89 | 56.9 | 10.05 |
| | | 77.0 | 40.4 | 6.06 | 43.7 | 7.06 | 47.6 | 8.23 | 51.8 | 9.27 | 53.3 | 9.50 | 55.4 | 9.73 | 56.9 | 9.90 |
| | | 154.0 | 40.4 | 5.58 | 43.7 | 6.62 | 47.6 | 7.70 | 51.8 | 8.67 | 53.3 | 8.88 | 55.4 | 9.12 | 56.9 | 9.31 |
| | | 192.5 | 40.4 | 5.43 | 43.7 | 6.47 | 47.6 | 7.55 | 51.8 | 8.50 | 53.3 | 8.72 | 55.4 | 8.95 | 56.9 | 9.10 |
| | | 231.0 | 40.4 | 5.35 | 43.7 | 6.39 | 47.6 | 7.47 | 51.8 | 8.42 | 53.3 | 8.63 | 55.4 | 8.86 | 56.9 | 8.99 |
| | 30 | 61.6 | 40.4 | 7.42 | 43.7 | 8.62 | 47.6 | 10.04 | 51.8 | 11.31 | 53.3 | 11.57 | 55.4 | 11.87 | 56.9 | 12.05 |
| | | 77.0 | 40.4 | 7.27 | 43.7 | 8.48 | 47.6 | 9.88 | 51.8 | 11.13 | 53.3 | 11.39 | 55.4 | 11.68 | 56.9 | 11.87 |
| | | 154.0 | 40.4 | 6.68 | 43.7 | 7.93 | 47.6 | 9.25 | 51.8 | 10.41 | 53.3 | 10.67 | 55.4 | 10.94 | 56.9 | 11.17 |
| | | 192.5 | 40.4 | 6.51 | 43.7 | 7.76 | 47.6 | 9.05 | 51.8 | 10.20 | 53.3 | 10.48 | 55.4 | 10.73 | 56.9 | 10.92 |
| | | 231.0 | 40.4 | 6.43 | 43.7 | 7.68 | 47.6 | 8.96 | 51.8 | 10.09 | 53.3 | 10.38 | 55.4 | 10.62 | 56.9 | 10.79 |
| | 35 | 61.6 | 36.3 | 7.51 | 39.3 | 8.73 | 42.9 | 10.15 | 46.6 | 11.45 | 48.0 | 11.70 | 49.8 | 12.00 | 51.2 | 12.21 |
| | | 77.0 | 36.3 | 7.36 | 39.3 | 8.59 | 42.9 | 9.99 | 46.6 | 11.26 | 48.0 | 11.51 | 49.8 | 11.81 | 51.2 | 12.02 |
| | | 154.0 | 36.3 | 6.76 | 39.3 | 8.02 | 42.9 | 9.35 | 46.6 | 10.52 | 48.0 | 10.79 | 49.8 | 11.07 | 51.2 | 11.28 |
| | | 192.5 | 36.3 | 6.57 | 39.3 | 7.85 | 42.9 | 9.16 | 46.6 | 10.31 | 48.0 | 10.58 | 49.8 | 10.86 | 51.2 | 11.05 |
| | | 231.0 | 36.3 | 6.48 | 39.3 | 7.76 | 42.9 | 9.07 | 46.6 | 10.20 | 48.0 | 10.48 | 49.8 | 10.75 | 51.2 | 10.93 |
| | 40 | 61.6 | 32.3 | 7.92 | 35.0 | 9.20 | 38.1 | 10.71 | 41.4 | 12.07 | 42.6 | 12.35 | 44.3 | 12.64 | 45.5 | 12.87 |
| | | 77.0 | 32.3 | 7.76 | 35.0 | 9.05 | 38.1 | 10.54 | 41.4 | 11.87 | 42.6 | 12.15 | 44.3 | 12.45 | 45.5 | 12.68 |
| | | 154.0 | 32.3 | 7.12 | 35.0 | 8.46 | 38.1 | 9.86 | 41.4 | 11.09 | 42.6 | 11.37 | 44.3 | 11.68 | 45.5 | 11.92 |
| | | 192.5 | 32.3 | 6.93 | 35.0 | 8.27 | 38.1 | 9.65 | 41.4 | 10.88 | 42.6 | 11.15 | 44.3 | 11.45 | 45.5 | 11.64 |
| | | 231.0 | 32.3 | 6.84 | 35.0 | 8.17 | 38.1 | 9.54 | 41.4 | 10.77 | 42.6 | 11.05 | 44.3 | 11.33 | 45.5 | 11.50 |
| | 45 | 61.6 | 28.2 | 8.34 | 30.6 | 9.68 | 33.3 | 11.27 | 36.2 | 12.70 | 37.3 | 13.00 | 38.8 | 13.28 | 39.9 | 13.54 |
| | | 77.0 | 28.2 | 8.16 | 30.6 | 9.52 | 33.3 | 11.09 | 36.2 | 12.49 | 37.3 | 12.79 | 38.8 | 13.08 | 39.9 | 13.34 |
| | | 154.0 | 28.2 | 7.49 | 30.6 | 8.91 | 33.3 | 10.37 | 36.2 | 11.66 | 37.3 | 11.94 | 38.8 | 12.30 | 39.9 | 12.55 |
| | | 192.5 | 28.2 | 7.29 | 30.6 | 8.69 | 33.3 | 10.14 | 36.2 | 11.45 | 37.3 | 11.73 | 38.8 | 12.04 | 39.9 | 12.24 |
| | | 231.0 | 28.2 | 7.20 | 30.6 | 8.59 | 33.3 | 10.02 | 36.2 | 11.34 | 37.3 | 11.62 | 38.8 | 11.92 | 39.9 | 12.08 |
| 120 | 10 | 61.6 | 39.4 | 2.99 | 42.7 | 3.45 | 46.4 | 4.06 | 50.5 | 4.55 | 52.1 | 4.69 | 54.1 | 4.79 | 55.6 | 4.87 |
| | | 77.0 | 39.4 | 2.93 | 42.7 | 3.40 | 46.4 | 3.99 | 50.5 | 4.48 | 52.1 | 4.61 | 54.1 | 4.71 | 55.6 | 4.79 |
| | | 154.0 | 39.4 | 2.68 | 42.7 | 3.17 | 46.4 | 3.70 | 50.5 | 4.20 | 52.1 | 4.28 | 54.1 | 4.40 | 55.6 | 4.46 |
| | | 192.5 | 39.4 | 2.64 | 42.7 | 3.11 | 46.4 | 3.67 | 50.5 | 4.11 | 52.1 | 4.19 | 54.1 | 4.32 | 55.6 | 4.38 |
| | | 231.0 | 39.4 | 2.62 | 42.7 | 3.08 | 46.4 | 3.65 | 50.5 | 4.07 | 52.1 | 4.15 | 54.1 | 4.28 | 55.6 | 4.34 |
| | 15 | 61.6 | 39.0 | 3.96 | 42.2 | 4.59 | 45.9 | 5.37 | 50.0 | 6.03 | 51.5 | 6.19 | 53.4 | 6.34 | 54.9 | 6.44 |
| | | 77.0 | 39.0 | 3.88 | 42.2 | 4.52 | 45.9 | 5.28 | 50.0 | 5.94 | 51.5 | 6.09 | 53.4 | 6.23 | 54.9 | 6.34 |
| | | 154.0 | 39.0 | 3.56 | 42.2 | 4.22 | 45.9 | 4.92 | 50.0 | 5.56 | 51.5 | 5.68 | 53.4 | 5.83 | 54.9 | 5.94 |
| | | 192.5 | 39.0 | 3.48 | 42.2 | 4.13 | 45.9 | 4.83 | 50.0 | 5.45 | 51.5 | 5.58 | 53.4 | 5.73 | 54.9 | 5.81 |
| | | 231.0 | 39.0 | 3.44 | 42.2 | 4.09 | 45.9 | 4.79 | 50.0 | 5.40 | 51.5 | 5.52 | 53.4 | 5.67 | 54.9 | 5.75 |
| | 20 | 61.6 | 38.6 | 4.83 | 41.8 | 5.60 | 45.5 | 6.53 | 49.5 | 7.35 | 50.9 | 7.52 | 52.9 | 7.71 | 54.4 | 7.84 |
| | | 77.0 | 38.6 | 4.73 | 41.8 | 5.51 | 45.5 | 6.42 | 49.5 | 7.23 | 50.9 | 7.40 | 52.9 | 7.59 | 54.4 | 7.72 |
| | | 154.0 | 38.6 | 4.35 | 41.8 | 5.15 | 45.5 | 6.00 | 49.5 | 6.76 | 50.9 | 6.93 | 52.9 | 7.10 | 54.4 | 7.25 |
| | | 192.5 | 38.6 | 4.22 | 41.8 | 5.05 | 45.5 | 5.87 | 49.5 | 6.64 | 50.9 | 6.81 | 52.9 | 6.98 | 54.4 | 7.08 |
| | | 231.0 | 38.6 | 4.16 | 41.8 | 4.99 | 45.5 | 5.81 | 49.5 | 6.57 | 50.9 | 6.74 | 52.9 | 6.91 | 54.4 | 7.00 |
| | 25 | 61.6 | 38.6 | 5.93 | 41.8 | 6.87 | 45.5 | 8.02 | 49.5 | 9.03 | 50.9 | 9.25 | 52.9 | 9.48 | 54.4 | 9.65 |
| | | 77.0 | 38.6 | 5.81 | 41.8 | 6.76 | 45.5 | 7.89 | 49.5 | 8.88 | 50.9 | 9.10 | 52.9 | 9.33 | 54.4 | 9.50 |
| | | 154.0 | 38.6 | 5.34 | 41.8 | 6.34 | 45.5 | 7.38 | 49.5 | 8.31 | 50.9 | 8.50 | 52.9 | 8.74 | 54.4 | 8.91 |
| | | 192.5 | 38.6 | 5.20 | 41.8 | 6.19 | 45.5 | 7.23 | 49.5 | 8.14 | 50.9 | 8.35 | 52.9 | 8.57 | 54.4 | 8.69 |
| | | 231.0 | 38.6 | 5.12 | 41.8 | 6.12 | 45.5 | 7.16 | 49.5 | 8.06 | 50.9 | 8.28 | 52.9 | 8.48 | 54.4 | 8.59 |
| | 30 | 61.6 | 38.6 | 7.16 | 41.8 | 8.32 | 45.5 | 9.70 | 49.5 | 10.93 | 50.9 | 11.19 | 52.9 | 11.46 | 54.4 | 11.65 |
| | | 77.0 | 38.6 | 7.02 | 41.8 | 8.18 | 45.5 | 9.54 | 49.5 | 10.75 | 50.9 | 11.01 | 52.9 | 11.28 | 54.4 | 11.47 |
| | | 154.0 | 38.6 | 6.47 | 41.8 | 7.65 | 45.5 | 8.93 | 49.5 | 10.05 | 50.9 | 10.28 | 52.9 | 10.56 | 54.4 | 10.77 |
| | | 192.5 | 38.6 | 6.28 | 41.8 | 7.49 | 45.5 | 8.74 | 49.5 | 9.84 | 50.9 | 10.09 | 52.9 | 10.37 | 54.4 | 10.52 |
| | | 231.0 | 38.6 | 6.18 | 41.8 | 7.40 | 45.5 | 8.64 | 49.5 | 9.73 | 50.9 | 10.00 | 52.9 | 10.27 | 54.4 | 10.39 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

**Cooling Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 61.6 | 35.3 | 7.33 | 38.2 | 8.54 | 41.6 | 9.94 | 45.2 | 11.18 | 46.6 | 11.46 | 48.4 | 11.74 | 49.8 | 11.96 |
| | | 77.0 | 35.3 | 7.19 | 38.2 | 8.40 | 41.6 | 9.78 | 45.2 | 11.01 | 46.6 | 11.28 | 48.4 | 11.56 | 49.8 | 11.77 |
| | | 154.0 | 35.3 | 6.62 | 38.2 | 7.85 | 41.6 | 9.14 | 45.2 | 10.31 | 46.6 | 10.56 | 48.4 | 10.84 | 49.8 | 11.03 |
| | | 192.5 | 35.3 | 6.45 | 38.2 | 7.68 | 41.6 | 8.95 | 45.2 | 10.09 | 46.6 | 10.35 | 48.4 | 10.62 | 49.8 | 10.77 |
| | | 231.0 | 35.3 | 6.36 | 38.2 | 7.59 | 41.6 | 8.85 | 45.2 | 9.99 | 46.6 | 10.24 | 48.4 | 10.52 | 49.8 | 10.65 |
| | 40 | 61.6 | 32.0 | 7.89 | 34.7 | 9.18 | 37.8 | 10.69 | 41.1 | 12.05 | 42.2 | 12.33 | 43.9 | 12.62 | 45.2 | 12.86 |
| | | 77.0 | 32.0 | 7.74 | 34.7 | 9.03 | 37.8 | 10.52 | 41.1 | 11.85 | 42.2 | 12.13 | 43.9 | 12.43 | 45.2 | 12.66 |
| | | 154.0 | 32.0 | 7.12 | 34.7 | 8.44 | 37.8 | 9.84 | 41.1 | 11.09 | 42.2 | 11.34 | 43.9 | 11.64 | 45.2 | 11.87 |
| | | 192.5 | 32.0 | 6.93 | 34.7 | 8.27 | 37.8 | 9.65 | 41.1 | 10.86 | 42.2 | 11.13 | 43.9 | 11.43 | 45.2 | 11.60 |
| | | 231.0 | 32.0 | 6.84 | 34.7 | 8.19 | 37.8 | 9.55 | 41.1 | 10.74 | 42.2 | 11.03 | 43.9 | 11.32 | 45.2 | 11.46 |
| | 45 | 61.6 | 28.8 | 8.46 | 31.1 | 9.83 | 33.9 | 11.44 | 36.9 | 12.91 | 37.9 | 13.19 | 39.4 | 13.51 | 40.6 | 13.76 |
| | | 77.0 | 28.8 | 8.29 | 31.1 | 9.67 | 33.9 | 11.26 | 36.9 | 12.70 | 37.9 | 12.98 | 39.4 | 13.30 | 40.6 | 13.55 |
| | | 154.0 | 28.8 | 7.63 | 31.1 | 9.03 | 33.9 | 10.54 | 36.9 | 11.87 | 37.9 | 12.13 | 39.4 | 12.45 | 40.6 | 12.72 |
| | | 192.5 | 28.8 | 7.42 | 31.1 | 8.86 | 33.9 | 10.35 | 36.9 | 11.62 | 37.9 | 11.92 | 39.4 | 12.24 | 40.6 | 12.43 |
| | | 231.0 | 28.8 | 7.32 | 31.1 | 8.78 | 33.9 | 10.25 | 36.9 | 11.49 | 37.9 | 11.81 | 39.4 | 12.13 | 40.6 | 12.28 |
| 110 | 10 | 61.6 | 37.2 | 2.84 | 40.2 | 3.29 | 43.8 | 3.79 | 47.6 | 4.30 | 49.1 | 4.37 | 51.1 | 4.51 | 52.4 | 4.57 |
| | | 77.0 | 37.2 | 2.78 | 40.2 | 3.23 | 43.8 | 3.74 | 47.6 | 4.23 | 49.1 | 4.31 | 51.1 | 4.43 | 52.4 | 4.49 |
| | | 154.0 | 37.2 | 2.56 | 40.2 | 3.00 | 43.8 | 3.51 | 47.6 | 3.97 | 49.1 | 4.07 | 51.1 | 4.12 | 52.4 | 4.21 |
| | | 192.5 | 37.2 | 2.47 | 40.2 | 2.94 | 43.8 | 3.43 | 47.6 | 3.88 | 49.1 | 3.96 | 51.1 | 4.04 | 52.4 | 4.15 |
| | | 231.0 | 37.2 | 2.43 | 40.2 | 2.91 | 43.8 | 3.39 | 47.6 | 3.84 | 49.1 | 3.91 | 51.1 | 4.00 | 52.4 | 4.12 |
| | 15 | 61.6 | 37.0 | 3.79 | 40.0 | 4.40 | 43.6 | 5.11 | 47.4 | 5.75 | 48.8 | 5.88 | 50.7 | 6.03 | 52.1 | 6.14 |
| | | 77.0 | 37.0 | 3.71 | 40.0 | 4.33 | 43.6 | 5.03 | 47.4 | 5.66 | 48.8 | 5.79 | 50.7 | 5.94 | 52.1 | 6.04 |
| | | 154.0 | 37.0 | 3.41 | 40.0 | 4.03 | 43.6 | 4.71 | 47.4 | 5.30 | 48.8 | 5.43 | 50.7 | 5.56 | 52.1 | 5.66 |
| | | 192.5 | 37.0 | 3.31 | 40.0 | 3.94 | 43.6 | 4.60 | 47.4 | 5.20 | 48.8 | 5.32 | 50.7 | 5.45 | 52.1 | 5.53 |
| | | 231.0 | 37.0 | 3.26 | 40.0 | 3.90 | 43.6 | 4.55 | 47.4 | 5.14 | 48.8 | 5.27 | 50.7 | 5.40 | 52.1 | 5.47 |
| | 20 | 61.6 | 36.8 | 4.63 | 39.8 | 5.39 | 43.4 | 6.27 | 47.1 | 7.05 | 48.5 | 7.22 | 50.4 | 7.39 | 51.8 | 7.54 |
| | | 77.0 | 36.8 | 4.54 | 39.8 | 5.30 | 43.4 | 6.17 | 47.1 | 6.93 | 48.5 | 7.10 | 50.4 | 7.27 | 51.8 | 7.42 |
| | | 154.0 | 36.8 | 4.18 | 39.8 | 4.94 | 43.4 | 5.77 | 47.1 | 6.49 | 48.5 | 6.64 | 50.4 | 6.83 | 51.8 | 6.96 |
| | | 192.5 | 36.8 | 4.05 | 39.8 | 4.83 | 43.4 | 5.64 | 47.1 | 6.36 | 48.5 | 6.53 | 50.4 | 6.70 | 51.8 | 6.76 |
| | | 231.0 | 36.8 | 3.99 | 39.8 | 4.78 | 43.4 | 5.58 | 47.1 | 6.30 | 48.5 | 6.48 | 50.4 | 6.64 | 51.8 | 6.67 |
| | 25 | 61.6 | 36.8 | 5.67 | 39.8 | 6.60 | 43.4 | 7.67 | 47.1 | 8.64 | 48.5 | 8.83 | 50.4 | 9.05 | 51.8 | 9.22 |
| | | 77.0 | 36.8 | 5.56 | 39.8 | 6.49 | 43.4 | 7.55 | 47.1 | 8.50 | 48.5 | 8.69 | 50.4 | 8.91 | 51.8 | 9.08 |
| | | 154.0 | 36.8 | 5.11 | 39.8 | 6.06 | 43.4 | 7.06 | 47.1 | 7.95 | 48.5 | 8.14 | 50.4 | 8.35 | 51.8 | 8.50 |
| | | 192.5 | 36.8 | 4.96 | 39.8 | 5.94 | 43.4 | 6.91 | 47.1 | 7.78 | 48.5 | 7.99 | 50.4 | 8.18 | 51.8 | 8.29 |
| | | 231.0 | 36.8 | 4.89 | 39.8 | 5.87 | 43.4 | 6.84 | 47.1 | 7.70 | 48.5 | 7.92 | 50.4 | 8.10 | 51.8 | 8.19 |
| | 30 | 61.6 | 36.8 | 6.90 | 39.8 | 8.04 | 43.4 | 9.35 | 47.1 | 10.54 | 48.5 | 10.77 | 50.4 | 11.05 | 51.8 | 11.25 |
| | | 77.0 | 36.8 | 6.76 | 39.8 | 7.91 | 43.4 | 9.20 | 47.1 | 10.37 | 48.5 | 10.60 | 50.4 | 10.88 | 51.8 | 11.07 |
| | | 154.0 | 36.8 | 6.23 | 39.8 | 7.38 | 43.4 | 8.61 | 47.1 | 9.69 | 48.5 | 9.92 | 50.4 | 10.18 | 51.8 | 10.37 |
| | | 192.5 | 36.8 | 6.06 | 39.8 | 7.23 | 43.4 | 8.42 | 47.1 | 9.50 | 48.5 | 9.73 | 50.4 | 9.99 | 51.8 | 10.11 |
| | | 231.0 | 36.8 | 5.98 | 39.8 | 7.16 | 43.4 | 8.32 | 47.1 | 9.40 | 48.5 | 9.64 | 50.4 | 9.89 | 51.8 | 9.99 |
| | 35 | 61.6 | 34.2 | 7.18 | 37.1 | 8.34 | 40.4 | 9.72 | 43.9 | 10.95 | 45.2 | 11.20 | 47.0 | 11.48 | 48.3 | 11.70 |
| | | 77.0 | 34.2 | 7.04 | 37.1 | 8.21 | 40.4 | 9.56 | 43.9 | 10.77 | 45.2 | 11.03 | 47.0 | 11.30 | 48.3 | 11.51 |
| | | 154.0 | 34.2 | 6.47 | 37.1 | 7.68 | 40.4 | 8.95 | 43.9 | 10.07 | 45.2 | 10.33 | 47.0 | 10.58 | 48.3 | 10.77 |
| | | 192.5 | 34.2 | 6.30 | 37.1 | 7.51 | 40.4 | 8.76 | 43.9 | 9.88 | 45.2 | 10.11 | 47.0 | 10.39 | 48.3 | 10.52 |
| | | 231.0 | 34.2 | 6.21 | 37.1 | 7.42 | 40.4 | 8.66 | 43.9 | 9.79 | 45.2 | 10.01 | 47.0 | 10.30 | 48.3 | 10.39 |
| | 40 | 61.6 | 31.7 | 7.90 | 34.3 | 9.16 | 37.5 | 10.69 | 40.7 | 12.02 | 41.9 | 12.31 | 43.6 | 12.60 | 44.7 | 12.84 |
| | | 77.0 | 31.7 | 7.74 | 34.3 | 9.01 | 37.5 | 10.52 | 40.7 | 11.83 | 41.9 | 12.11 | 43.6 | 12.40 | 44.7 | 12.64 |
| | | 154.0 | 31.7 | 7.10 | 34.3 | 8.44 | 37.5 | 9.82 | 40.7 | 11.07 | 41.9 | 11.32 | 43.6 | 11.62 | 44.7 | 11.85 |
| | | 192.5 | 31.7 | 6.91 | 34.3 | 8.25 | 37.5 | 9.63 | 40.7 | 10.86 | 41.9 | 11.11 | 43.6 | 11.41 | 44.7 | 11.56 |
| | | 231.0 | 31.7 | 6.82 | 34.3 | 8.15 | 37.5 | 9.53 | 40.7 | 10.75 | 41.9 | 11.01 | 43.6 | 11.30 | 44.7 | 11.41 |
| | 45 | 61.6 | 29.2 | 8.62 | 31.6 | 9.97 | 34.5 | 11.67 | 37.5 | 13.10 | 38.5 | 13.41 | 40.1 | 13.72 | 41.2 | 13.97 |
| | | 77.0 | 29.2 | 8.44 | 31.6 | 9.82 | 34.5 | 11.47 | 37.5 | 12.89 | 38.5 | 13.19 | 40.1 | 13.51 | 41.2 | 13.76 |
| | | 154.0 | 29.2 | 7.74 | 31.6 | 9.20 | 34.5 | 10.69 | 37.5 | 12.07 | 38.5 | 12.32 | 40.1 | 12.66 | 41.2 | 12.93 |
| | | 192.5 | 29.2 | 7.53 | 31.6 | 8.99 | 34.5 | 10.50 | 37.5 | 11.83 | 38.5 | 12.11 | 40.1 | 12.43 | 41.2 | 12.60 |
| | | 231.0 | 29.2 | 7.42 | 31.6 | 8.89 | 34.5 | 10.40 | 37.5 | 11.72 | 38.5 | 12.00 | 40.1 | 12.31 | 41.2 | 12.43 |
| 100 | 10 | 61.6 | 35.0 | 2.64 | 37.8 | 3.10 | 41.2 | 3.58 | 44.8 | 4.01 | 46.2 | 4.11 | 47.9 | 4.25 | 49.3 | 4.34 |
| | | 77.0 | 35.0 | 2.59 | 37.8 | 3.04 | 41.2 | 3.53 | 44.8 | 3.95 | 46.2 | 4.06 | 47.9 | 4.18 | 49.3 | 4.26 |
| | | 154.0 | 35.0 | 2.39 | 37.8 | 2.81 | 41.2 | 3.31 | 44.8 | 3.73 | 46.2 | 3.84 | 47.9 | 3.92 | 49.3 | 3.95 |
| | | 192.5 | 35.0 | 2.35 | 37.8 | 2.75 | 41.2 | 3.24 | 44.8 | 3.63 | 46.2 | 3.73 | 47.9 | 3.84 | 49.3 | 3.90 |
| | | 231.0 | 35.0 | 2.33 | 37.8 | 2.72 | 41.2 | 3.21 | 44.8 | 3.58 | 46.2 | 3.68 | 47.9 | 3.79 | 49.3 | 3.87 |
| | 15 | 61.6 | 35.0 | 3.59 | 37.8 | 4.18 | 41.2 | 4.87 | 44.8 | 5.47 | 46.2 | 5.60 | 47.9 | 5.75 | 49.3 | 5.86 |
| | | 77.0 | 35.0 | 3.52 | 37.8 | 4.11 | 41.2 | 4.79 | 44.8 | 5.39 | 46.2 | 5.51 | 47.9 | 5.66 | 49.3 | 5.77 |
| | | 154.0 | 35.0 | 3.24 | 37.8 | 3.84 | 41.2 | 4.47 | 44.8 | 5.05 | 46.2 | 5.17 | 47.9 | 5.30 | 49.3 | 5.39 |
| | | 192.5 | 35.0 | 3.16 | 37.8 | 3.75 | 41.2 | 4.39 | 44.8 | 4.94 | 46.2 | 5.07 | 47.9 | 5.20 | 49.3 | 5.26 |
| | | 231.0 | 35.0 | 3.12 | 37.8 | 3.71 | 41.2 | 4.35 | 44.8 | 4.89 | 46.2 | 5.02 | 47.9 | 5.14 | 49.3 | 5.20 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 61.6 | 35.0 | 4.43 | 37.8 | 5.15 | 41.2 | 6.02 | 44.8 | 6.77 | 46.2 | 6.92 | 47.9 | 7.09 | 49.3 | 7.22 |
| | | 77.0 | 35.0 | 4.35 | 37.8 | 5.07 | 41.2 | 5.92 | 44.8 | 6.66 | 46.2 | 6.81 | 47.9 | 6.98 | 49.3 | 7.10 |
| | | 154.0 | 35.0 | 4.01 | 37.8 | 4.75 | 41.2 | 5.51 | 44.8 | 6.21 | 46.2 | 6.36 | 47.9 | 6.53 | 49.3 | 6.66 |
| | | 192.5 | 35.0 | 3.88 | 37.8 | 4.64 | 41.2 | 5.41 | 44.8 | 6.11 | 46.2 | 6.26 | 47.9 | 6.40 | 49.3 | 6.47 |
| | | 231.0 | 35.0 | 3.82 | 37.8 | 4.59 | 41.2 | 5.35 | 44.8 | 6.05 | 46.2 | 6.20 | 47.9 | 6.34 | 49.3 | 6.37 |
| | 25 | 61.6 | 35.0 | 5.41 | 37.8 | 6.29 | 41.2 | 7.33 | 44.8 | 8.26 | 46.2 | 8.45 | 47.9 | 8.64 | 49.3 | 8.82 |
| | | 77.0 | 35.0 | 5.30 | 37.8 | 6.19 | 41.2 | 7.21 | 44.8 | 8.12 | 46.2 | 8.31 | 47.9 | 8.50 | 49.3 | 8.67 |
| | | 154.0 | 35.0 | 4.88 | 37.8 | 5.79 | 41.2 | 6.74 | 44.8 | 7.59 | 46.2 | 7.76 | 47.9 | 7.97 | 49.3 | 8.10 |
| | | 192.5 | 35.0 | 4.75 | 37.8 | 5.66 | 41.2 | 6.59 | 44.8 | 7.44 | 46.2 | 7.61 | 47.9 | 7.82 | 49.3 | 7.89 |
| | | 231.0 | 35.0 | 4.69 | 37.8 | 5.60 | 41.2 | 6.52 | 44.8 | 7.37 | 46.2 | 7.54 | 47.9 | 7.75 | 49.3 | 7.78 |
| | 30 | 61.6 | 35.0 | 6.66 | 37.8 | 7.74 | 41.2 | 9.01 | 44.8 | 10.15 | 46.2 | 10.39 | 47.9 | 10.65 | 49.3 | 10.84 |
| | | 77.0 | 35.0 | 6.53 | 37.8 | 7.61 | 41.2 | 8.86 | 44.8 | 9.99 | 46.2 | 10.22 | 47.9 | 10.48 | 49.3 | 10.67 |
| | | 154.0 | 35.0 | 6.00 | 37.8 | 7.10 | 41.2 | 8.29 | 44.8 | 9.33 | 46.2 | 9.54 | 47.9 | 9.80 | 49.3 | 9.97 |
| | | 192.5 | 35.0 | 5.83 | 37.8 | 6.96 | 41.2 | 8.12 | 44.8 | 9.14 | 46.2 | 9.37 | 47.9 | 9.61 | 49.3 | 9.71 |
| | | 231.0 | 35.0 | 5.75 | 37.8 | 6.88 | 41.2 | 8.04 | 44.8 | 9.04 | 46.2 | 9.29 | 47.9 | 9.51 | 49.3 | 9.59 |
| | 35 | 61.6 | 33.2 | 7.03 | 36.0 | 8.17 | 39.1 | 9.51 | 42.6 | 10.72 | 43.9 | 10.97 | 45.5 | 11.22 | 46.8 | 11.42 |
| | | 77.0 | 33.2 | 6.89 | 36.0 | 8.04 | 39.1 | 9.35 | 42.6 | 10.54 | 43.9 | 10.79 | 45.5 | 11.05 | 46.8 | 11.24 |
| | | 154.0 | 33.2 | 6.34 | 36.0 | 7.51 | 39.1 | 8.74 | 42.6 | 9.84 | 43.9 | 10.09 | 45.5 | 10.35 | 46.8 | 10.52 |
| | | 192.5 | 33.2 | 6.15 | 36.0 | 7.36 | 39.1 | 8.57 | 42.6 | 9.65 | 43.9 | 9.90 | 45.5 | 10.16 | 46.8 | 10.24 |
| | | 231.0 | 33.2 | 6.05 | 36.0 | 7.28 | 39.1 | 8.48 | 42.6 | 9.55 | 43.9 | 9.81 | 45.5 | 10.06 | 46.8 | 10.10 |
| | 40 | 61.6 | 31.4 | 7.87 | 34.0 | 9.16 | 37.1 | 10.67 | 40.3 | 12.00 | 41.5 | 12.31 | 43.1 | 12.61 | 44.4 | 12.82 |
| | | 77.0 | 31.4 | 7.72 | 34.0 | 9.01 | 37.1 | 10.50 | 40.3 | 11.81 | 41.5 | 12.11 | 43.1 | 12.40 | 44.4 | 12.62 |
| | | 154.0 | 31.4 | 7.10 | 34.0 | 8.42 | 37.1 | 9.82 | 40.3 | 11.05 | 41.5 | 11.30 | 43.1 | 11.60 | 44.4 | 11.81 |
| | | 192.5 | 31.4 | 6.91 | 34.0 | 8.25 | 37.1 | 9.61 | 40.3 | 10.84 | 41.5 | 11.11 | 43.1 | 11.39 | 44.4 | 11.49 |
| | | 231.0 | 31.4 | 6.82 | 34.0 | 8.16 | 37.1 | 9.50 | 40.3 | 10.73 | 41.5 | 11.02 | 43.1 | 11.28 | 44.4 | 11.33 |
| | 45 | 61.6 | 29.6 | 8.72 | 32.1 | 10.15 | 35.0 | 11.83 | 38.1 | 13.29 | 39.1 | 13.65 | 40.7 | 13.99 | 41.9 | 14.22 |
| | | 77.0 | 29.6 | 8.55 | 32.1 | 9.99 | 35.0 | 11.64 | 38.1 | 13.08 | 39.1 | 13.42 | 40.7 | 13.76 | 41.9 | 14.00 |
| | | 154.0 | 29.6 | 7.87 | 32.1 | 9.33 | 35.0 | 10.90 | 38.1 | 12.26 | 39.1 | 12.51 | 40.7 | 12.85 | 41.9 | 13.10 |
| | | 192.5 | 29.6 | 7.68 | 32.1 | 9.14 | 35.0 | 10.64 | 38.1 | 12.02 | 39.1 | 12.32 | 40.7 | 12.62 | 41.9 | 12.74 |
| | | 231.0 | 29.6 | 7.58 | 32.1 | 9.04 | 35.0 | 10.52 | 38.1 | 11.91 | 39.1 | 12.22 | 40.7 | 12.50 | 41.9 | 12.56 |
| 90 | 10 | 61.6 | 31.4 | 2.29 | 34.0 | 2.65 | 37.1 | 3.06 | 40.3 | 3.48 | 41.5 | 3.57 | 43.1 | 3.67 | 44.4 | 3.74 |
| | | 77.0 | 31.4 | 2.25 | 34.0 | 2.61 | 37.1 | 3.02 | 40.3 | 3.43 | 41.5 | 3.51 | 43.1 | 3.61 | 44.4 | 3.67 |
| | | 154.0 | 31.4 | 2.08 | 34.0 | 2.45 | 37.1 | 2.86 | 40.3 | 3.23 | 41.5 | 3.28 | 43.1 | 3.37 | 44.4 | 3.43 |
| | | 192.5 | 31.4 | 2.00 | 34.0 | 2.41 | 37.1 | 2.77 | 40.3 | 3.14 | 41.5 | 3.22 | 43.1 | 3.31 | 44.4 | 3.32 |
| | | 231.0 | 31.4 | 1.96 | 34.0 | 2.39 | 37.1 | 2.73 | 40.3 | 3.10 | 41.5 | 3.19 | 43.1 | 3.27 | 44.4 | 3.27 |
| | 15 | 61.6 | 31.4 | 3.09 | 34.0 | 3.60 | 37.1 | 4.18 | 40.3 | 4.72 | 41.5 | 4.82 | 43.1 | 4.96 | 44.4 | 5.04 |
| | | 77.0 | 31.4 | 3.03 | 34.0 | 3.54 | 37.1 | 4.11 | 40.3 | 4.64 | 41.5 | 4.75 | 43.1 | 4.88 | 44.4 | 4.96 |
| | | 154.0 | 31.4 | 2.80 | 34.0 | 3.31 | 37.1 | 3.86 | 40.3 | 4.35 | 41.5 | 4.45 | 43.1 | 4.56 | 44.4 | 4.64 |
| | | 192.5 | 31.4 | 2.71 | 34.0 | 3.24 | 37.1 | 3.77 | 40.3 | 4.26 | 41.5 | 4.37 | 43.1 | 4.47 | 44.4 | 4.52 |
| | | 231.0 | 31.4 | 2.67 | 34.0 | 3.21 | 37.1 | 3.73 | 40.3 | 4.22 | 41.5 | 4.33 | 43.1 | 4.43 | 44.4 | 4.45 |
| | 20 | 61.6 | 31.4 | 3.81 | 34.0 | 4.44 | 37.1 | 5.17 | 40.3 | 5.82 | 41.5 | 5.94 | 43.1 | 6.10 | 44.4 | 6.20 |
| | | 77.0 | 31.4 | 3.73 | 34.0 | 4.37 | 37.1 | 5.09 | 40.3 | 5.73 | 41.5 | 5.85 | 43.1 | 6.00 | 44.4 | 6.11 |
| | | 154.0 | 31.4 | 3.44 | 34.0 | 4.07 | 37.1 | 4.75 | 40.3 | 5.34 | 41.5 | 5.49 | 43.1 | 5.62 | 44.4 | 5.73 |
| | | 192.5 | 31.4 | 3.35 | 34.0 | 3.99 | 37.1 | 4.67 | 40.3 | 5.26 | 41.5 | 5.39 | 43.1 | 5.51 | 44.4 | 5.58 |
| | | 231.0 | 31.4 | 3.31 | 34.0 | 3.94 | 37.1 | 4.62 | 40.3 | 5.22 | 41.5 | 5.33 | 43.1 | 5.46 | 44.4 | 5.50 |
| | 25 | 61.6 | 31.4 | 4.65 | 34.0 | 5.41 | 37.1 | 6.29 | 40.3 | 7.09 | 41.5 | 7.26 | 43.1 | 7.43 | 44.4 | 7.59 |
| | | 77.0 | 31.4 | 4.56 | 34.0 | 5.32 | 37.1 | 6.19 | 40.3 | 6.98 | 41.5 | 7.15 | 43.1 | 7.32 | 44.4 | 7.46 |
| | | 154.0 | 31.4 | 4.20 | 34.0 | 4.98 | 37.1 | 5.79 | 40.3 | 6.53 | 41.5 | 6.68 | 43.1 | 6.85 | 44.4 | 6.98 |
| | | 192.5 | 31.4 | 4.07 | 34.0 | 4.88 | 37.1 | 5.68 | 40.3 | 6.40 | 41.5 | 6.55 | 43.1 | 6.72 | 44.4 | 6.81 |
| | | 231.0 | 31.4 | 4.01 | 34.0 | 4.82 | 37.1 | 5.63 | 40.3 | 6.34 | 41.5 | 6.49 | 43.1 | 6.66 | 44.4 | 6.72 |
| | 30 | 61.6 | 31.4 | 5.74 | 34.0 | 6.66 | 37.1 | 7.76 | 40.3 | 8.73 | 41.5 | 8.94 | 43.1 | 9.16 | 44.4 | 9.33 |
| | | 77.0 | 31.4 | 5.62 | 34.0 | 6.55 | 37.1 | 7.63 | 40.3 | 8.59 | 41.5 | 8.80 | 43.1 | 9.01 | 44.4 | 9.18 |
| | | 154.0 | 31.4 | 5.15 | 34.0 | 6.13 | 37.1 | 7.12 | 40.3 | 8.04 | 41.5 | 8.23 | 43.1 | 8.44 | 44.4 | 8.59 |
| | | 192.5 | 31.4 | 5.03 | 34.0 | 6.00 | 37.1 | 6.98 | 40.3 | 7.87 | 41.5 | 8.08 | 43.1 | 8.27 | 44.4 | 8.35 |
| | | 231.0 | 31.4 | 4.96 | 34.0 | 5.94 | 37.1 | 6.90 | 40.3 | 7.78 | 41.5 | 8.01 | 43.1 | 8.19 | 44.4 | 8.24 |
| | 35 | 61.6 | 30.6 | 6.19 | 33.1 | 7.17 | 36.1 | 8.36 | 39.2 | 9.42 | 40.4 | 9.63 | 41.9 | 9.87 | 43.1 | 10.06 |
| | | 77.0 | 30.6 | 6.06 | 33.1 | 7.06 | 36.1 | 8.23 | 39.2 | 9.27 | 40.4 | 9.48 | 41.9 | 9.71 | 43.1 | 9.90 |
| | | 154.0 | 30.6 | 5.58 | 33.1 | 6.62 | 36.1 | 7.70 | 39.2 | 8.67 | 40.4 | 8.86 | 41.9 | 9.10 | 43.1 | 9.27 |
| | | 192.5 | 30.6 | 5.41 | 33.1 | 6.47 | 36.1 | 7.53 | 39.2 | 8.50 | 40.4 | 8.72 | 41.9 | 8.93 | 43.1 | 9.01 |
| | | 231.0 | 30.6 | 5.32 | 33.1 | 6.39 | 36.1 | 7.44 | 39.2 | 8.42 | 40.4 | 8.64 | 41.9 | 8.84 | 43.1 | 8.89 |
| | 40 | 61.6 | 29.7 | 7.09 | 32.2 | 8.26 | 35.0 | 9.61 | 38.1 | 10.82 | 39.2 | 11.08 | 40.8 | 11.36 | 41.9 | 11.55 |
| | | 77.0 | 29.7 | 6.96 | 32.2 | 8.12 | 35.0 | 9.46 | 38.1 | 10.64 | 39.2 | 10.90 | 40.8 | 11.17 | 41.9 | 11.37 |
| | | 154.0 | 29.7 | 6.40 | 32.2 | 7.59 | 35.0 | 8.84 | 38.1 | 9.94 | 39.2 | 10.20 | 40.8 | 10.45 | 41.9 | 10.64 |
| | | 192.5 | 29.7 | 6.21 | 32.2 | 7.42 | 35.0 | 8.65 | 38.1 | 9.75 | 39.2 | 10.01 | 40.8 | 10.26 | 41.9 | 10.37 |
| | | 231.0 | 29.7 | 6.12 | 32.2 | 7.34 | 35.0 | 8.56 | 38.1 | 9.66 | 39.2 | 9.91 | 40.8 | 10.17 | 41.9 | 10.23 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 61.6 | 28.8 | 8.00 | 31.2 | 9.34 | 34.0 | 10.86 | 37.0 | 12.23 | 38.0 | 12.52 | 39.6 | 12.85 | 40.6 | 13.03 |
| | | 77.0 | 28.8 | 7.85 | 31.2 | 9.18 | 34.0 | 10.69 | 37.0 | 12.02 | 38.0 | 12.32 | 39.6 | 12.64 | 40.6 | 12.83 |
| | | 154.0 | 28.8 | 7.23 | 31.2 | 8.57 | 34.0 | 9.99 | 37.0 | 11.22 | 38.0 | 11.54 | 39.6 | 11.81 | 40.6 | 12.02 |
| | | 192.5 | 28.8 | 7.02 | 31.2 | 8.38 | 34.0 | 9.78 | 37.0 | 11.01 | 38.0 | 11.30 | 39.6 | 11.60 | 40.6 | 11.73 |
| | | 231.0 | 28.8 | 6.91 | 31.2 | 8.28 | 34.0 | 9.67 | 37.0 | 10.90 | 38.0 | 11.19 | 39.6 | 11.49 | 40.6 | 11.58 |
| 80 | 10 | 61.6 | 27.9 | 1.92 | 30.3 | 2.21 | 33.0 | 2.60 | 35.8 | 2.95 | 36.9 | 2.98 | 38.3 | 3.10 | 39.4 | 3.11 |
| | | 77.0 | 27.9 | 1.88 | 30.3 | 2.18 | 33.0 | 2.55 | 35.8 | 2.90 | 36.9 | 2.94 | 38.3 | 3.04 | 39.4 | 3.06 |
| | | 154.0 | 27.9 | 1.71 | 30.3 | 2.06 | 33.0 | 2.36 | 35.8 | 2.69 | 36.9 | 2.75 | 38.3 | 2.81 | 39.4 | 2.85 |
| | | 192.5 | 27.9 | 1.67 | 30.3 | 2.00 | 33.0 | 2.32 | 35.8 | 2.61 | 36.9 | 2.67 | 38.3 | 2.78 | 39.4 | 2.82 |
| | | 231.0 | 27.9 | 1.65 | 30.3 | 1.97 | 33.0 | 2.30 | 35.8 | 2.57 | 36.9 | 2.63 | 38.3 | 2.76 | 39.4 | 2.80 |
| | 15 | 61.6 | 27.9 | 2.60 | 30.3 | 3.02 | 33.0 | 3.52 | 35.8 | 3.97 | 36.9 | 4.05 | 38.3 | 4.16 | 39.4 | 4.23 |
| | | 77.0 | 27.9 | 2.54 | 30.3 | 2.97 | 33.0 | 3.46 | 35.8 | 3.90 | 36.9 | 3.99 | 38.3 | 4.09 | 39.4 | 4.16 |
| | | 154.0 | 27.9 | 2.33 | 30.3 | 2.78 | 33.0 | 3.22 | 35.8 | 3.65 | 36.9 | 3.73 | 38.3 | 3.82 | 39.4 | 3.88 |
| | | 192.5 | 27.9 | 2.27 | 30.3 | 2.71 | 33.0 | 3.16 | 35.8 | 3.56 | 36.9 | 3.65 | 38.3 | 3.75 | 39.4 | 3.80 |
| | | 231.0 | 27.9 | 2.24 | 30.3 | 2.68 | 33.0 | 3.13 | 35.8 | 3.52 | 36.9 | 3.60 | 38.3 | 3.72 | 39.4 | 3.75 |
| | 20 | 61.6 | 27.9 | 3.20 | 30.3 | 3.73 | 33.0 | 4.33 | 35.8 | 4.87 | 36.9 | 5.00 | 38.3 | 5.11 | 39.4 | 5.22 |
| | | 77.0 | 27.9 | 3.14 | 30.3 | 3.67 | 33.0 | 4.26 | 35.8 | 4.79 | 36.9 | 4.92 | 38.3 | 5.03 | 39.4 | 5.13 |
| | | 154.0 | 27.9 | 2.88 | 30.3 | 3.41 | 33.0 | 3.99 | 35.8 | 4.50 | 36.9 | 4.60 | 38.3 | 4.71 | 39.4 | 4.79 |
| | | 192.5 | 27.9 | 2.80 | 30.3 | 3.35 | 33.0 | 3.90 | 35.8 | 4.41 | 36.9 | 4.52 | 38.3 | 4.62 | 39.4 | 4.67 |
| | | 231.0 | 27.9 | 2.76 | 30.3 | 3.32 | 33.0 | 3.86 | 35.8 | 4.37 | 36.9 | 4.47 | 38.3 | 4.58 | 39.4 | 4.60 |
| | 25 | 61.6 | 27.9 | 3.89 | 30.3 | 4.52 | 33.0 | 5.28 | 35.8 | 5.95 | 36.9 | 6.10 | 38.3 | 6.25 | 39.4 | 6.36 |
| | | 77.0 | 27.9 | 3.82 | 30.3 | 4.45 | 33.0 | 5.20 | 35.8 | 5.85 | 36.9 | 6.00 | 38.3 | 6.15 | 39.4 | 6.26 |
| | | 154.0 | 27.9 | 3.52 | 30.3 | 4.18 | 33.0 | 4.86 | 35.8 | 5.47 | 36.9 | 5.60 | 38.3 | 5.75 | 39.4 | 5.85 |
| | | 192.5 | 27.9 | 3.41 | 30.3 | 4.09 | 33.0 | 4.77 | 35.8 | 5.36 | 36.9 | 5.49 | 38.3 | 5.64 | 39.4 | 5.70 |
| | | 231.0 | 27.9 | 3.36 | 30.3 | 4.05 | 33.0 | 4.73 | 35.8 | 5.31 | 36.9 | 5.44 | 38.3 | 5.59 | 39.4 | 5.63 |
| | 30 | 61.6 | 27.9 | 4.80 | 30.3 | 5.58 | 33.0 | 6.51 | 35.8 | 7.33 | 36.9 | 7.50 | 38.3 | 7.67 | 39.4 | 7.83 |
| | | 77.0 | 27.9 | 4.71 | 30.3 | 5.49 | 33.0 | 6.40 | 35.8 | 7.21 | 36.9 | 7.38 | 38.3 | 7.55 | 39.4 | 7.70 |
| | | 154.0 | 27.9 | 4.33 | 30.3 | 5.13 | 33.0 | 5.98 | 35.8 | 6.72 | 36.9 | 6.89 | 38.3 | 7.06 | 39.4 | 7.19 |
| | | 192.5 | 27.9 | 4.20 | 30.3 | 5.03 | 33.0 | 5.85 | 35.8 | 6.59 | 36.9 | 6.76 | 38.3 | 6.93 | 39.4 | 7.00 |
| | | 231.0 | 27.9 | 4.14 | 30.3 | 4.97 | 33.0 | 5.79 | 35.8 | 6.53 | 36.9 | 6.70 | 38.3 | 6.87 | 39.4 | 6.90 |
| | 35 | 61.6 | 27.9 | 5.34 | 30.3 | 6.21 | 33.0 | 7.22 | 35.8 | 8.12 | 36.9 | 8.32 | 38.3 | 8.54 | 39.4 | 8.68 |
| | | 77.0 | 27.9 | 5.24 | 30.3 | 6.11 | 33.0 | 7.10 | 35.8 | 7.99 | 36.9 | 8.18 | 38.3 | 8.40 | 39.4 | 8.55 |
| | | 154.0 | 27.9 | 4.81 | 30.3 | 5.70 | 33.0 | 6.64 | 35.8 | 7.49 | 36.9 | 7.65 | 38.3 | 7.85 | 39.4 | 7.99 |
| | | 192.5 | 27.9 | 4.69 | 30.3 | 5.58 | 33.0 | 6.51 | 35.8 | 7.34 | 36.9 | 7.51 | 38.3 | 7.72 | 39.4 | 7.78 |
| | | 231.0 | 27.9 | 4.62 | 30.3 | 5.51 | 33.0 | 6.45 | 35.8 | 7.26 | 36.9 | 7.43 | 38.3 | 7.66 | 39.4 | 7.68 |
| | 40 | 61.6 | 27.9 | 6.31 | 30.3 | 7.35 | 33.0 | 8.56 | 35.8 | 9.63 | 36.9 | 9.85 | 38.3 | 10.11 | 39.4 | 10.28 |
| | | 77.0 | 27.9 | 6.19 | 30.3 | 7.23 | 33.0 | 8.42 | 35.8 | 9.48 | 36.9 | 9.69 | 38.3 | 9.94 | 39.4 | 10.11 |
| | | 154.0 | 27.9 | 5.70 | 30.3 | 6.74 | 33.0 | 7.87 | 35.8 | 8.86 | 36.9 | 9.08 | 38.3 | 9.31 | 39.4 | 9.48 |
| | | 192.5 | 27.9 | 5.53 | 30.3 | 6.62 | 33.0 | 7.70 | 35.8 | 8.69 | 36.9 | 8.91 | 38.3 | 9.12 | 39.4 | 9.22 |
| | | 231.0 | 27.9 | 5.45 | 30.3 | 6.55 | 33.0 | 7.61 | 35.8 | 8.61 | 36.9 | 8.82 | 38.3 | 9.02 | 39.4 | 9.10 |
| | 45 | 61.6 | 27.9 | 7.29 | 30.3 | 8.50 | 33.0 | 9.89 | 35.8 | 11.14 | 36.9 | 11.37 | 38.3 | 11.67 | 39.4 | 11.87 |
| | | 77.0 | 27.9 | 7.15 | 30.3 | 8.35 | 33.0 | 9.73 | 35.8 | 10.96 | 36.9 | 11.20 | 38.3 | 11.49 | 39.4 | 11.68 |
| | | 154.0 | 27.9 | 6.59 | 30.3 | 7.78 | 33.0 | 9.10 | 35.8 | 10.24 | 36.9 | 10.50 | 38.3 | 10.77 | 39.4 | 10.96 |
| | | 192.5 | 27.9 | 6.38 | 30.3 | 7.65 | 33.0 | 8.88 | 35.8 | 10.05 | 36.9 | 10.31 | 38.3 | 10.52 | 39.4 | 10.67 |
| | | 231.0 | 27.9 | 6.28 | 30.3 | 7.59 | 33.0 | 8.78 | 35.8 | 9.96 | 36.9 | 10.21 | 38.3 | 10.39 | 39.4 | 10.52 |
| 70 | 10 | 61.6 | 24.5 | 1.60 | 26.5 | 1.84 | 28.9 | 2.18 | 31.4 | 2.45 | 32.3 | 2.46 | 33.5 | 2.55 | 34.5 | 2.59 |
| | | 77.0 | 24.5 | 1.57 | 26.5 | 1.82 | 28.9 | 2.14 | 31.4 | 2.41 | 32.3 | 2.43 | 33.5 | 2.51 | 34.5 | 2.55 |
| | | 154.0 | 24.5 | 1.45 | 26.5 | 1.71 | 28.9 | 2.00 | 31.4 | 2.25 | 32.3 | 2.28 | 33.5 | 2.35 | 34.5 | 2.41 |
| | | 192.5 | 24.5 | 1.39 | 26.5 | 1.65 | 28.9 | 1.94 | 31.4 | 2.18 | 32.3 | 2.22 | 33.5 | 2.31 | 34.5 | 2.35 |
| | | 231.0 | 24.5 | 1.35 | 26.5 | 1.62 | 28.9 | 1.91 | 31.4 | 2.15 | 32.3 | 2.19 | 33.5 | 2.29 | 34.5 | 2.32 |
| | 15 | 61.6 | 24.5 | 2.16 | 26.5 | 2.50 | 28.9 | 2.93 | 31.4 | 3.30 | 32.3 | 3.36 | 33.5 | 3.45 | 34.5 | 3.51 |
| | | 77.0 | 24.5 | 2.12 | 26.5 | 2.46 | 28.9 | 2.88 | 31.4 | 3.24 | 32.3 | 3.31 | 33.5 | 3.39 | 34.5 | 3.46 |
| | | 154.0 | 24.5 | 1.95 | 26.5 | 2.31 | 28.9 | 2.69 | 31.4 | 3.03 | 32.3 | 3.10 | 33.5 | 3.18 | 34.5 | 3.24 |
| | | 192.5 | 24.5 | 1.89 | 26.5 | 2.25 | 28.9 | 2.63 | 31.4 | 2.97 | 32.3 | 3.03 | 33.5 | 3.12 | 34.5 | 3.16 |
| | | 231.0 | 24.5 | 1.86 | 26.5 | 2.22 | 28.9 | 2.60 | 31.4 | 2.94 | 32.3 | 3.00 | 33.5 | 3.09 | 34.5 | 3.12 |
| | 20 | 61.6 | 24.5 | 2.66 | 26.5 | 3.08 | 28.9 | 3.60 | 31.4 | 4.05 | 32.3 | 4.16 | 33.5 | 4.24 | 34.5 | 4.33 |
| | | 77.0 | 24.5 | 2.61 | 26.5 | 3.03 | 28.9 | 3.54 | 31.4 | 3.99 | 32.3 | 4.09 | 33.5 | 4.18 | 34.5 | 4.26 |
| | | 154.0 | 24.5 | 2.40 | 26.5 | 2.84 | 28.9 | 3.31 | 31.4 | 3.73 | 32.3 | 3.82 | 33.5 | 3.92 | 34.5 | 3.99 |
| | | 192.5 | 24.5 | 2.33 | 26.5 | 2.78 | 28.9 | 3.24 | 31.4 | 3.67 | 32.3 | 3.75 | 33.5 | 3.84 | 34.5 | 3.88 |
| | | 231.0 | 24.5 | 2.30 | 26.5 | 2.75 | 28.9 | 3.21 | 31.4 | 3.64 | 32.3 | 3.72 | 33.5 | 3.80 | 34.5 | 3.83 |
| | 25 | 61.6 | 24.5 | 3.24 | 26.5 | 3.77 | 28.9 | 4.40 | 31.4 | 4.96 | 32.3 | 5.06 | 33.5 | 5.20 | 34.5 | 5.28 |
| | | 77.0 | 24.5 | 3.18 | 26.5 | 3.71 | 28.9 | 4.33 | 31.4 | 4.88 | 32.3 | 4.98 | 33.5 | 5.11 | 34.5 | 5.20 |
| | | 154.0 | 24.5 | 2.93 | 26.5 | 3.48 | 28.9 | 4.05 | 31.4 | 4.56 | 32.3 | 4.67 | 33.5 | 4.77 | 34.5 | 4.86 |
| | | 192.5 | 24.5 | 2.84 | 26.5 | 3.39 | 28.9 | 3.97 | 31.4 | 4.45 | 32.3 | 4.58 | 33.5 | 4.69 | 34.5 | 4.73 |
| | | 231.0 | 24.5 | 2.80 | 26.5 | 3.35 | 28.9 | 3.92 | 31.4 | 4.40 | 32.3 | 4.54 | 33.5 | 4.64 | 34.5 | 4.67 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 61.6 | 24.5 | 4.00 | 26.5 | 4.63 | 28.9 | 5.41 | 31.4 | 6.08 | 32.3 | 6.23 | 33.5 | 6.38 | 34.5 | 6.48 |
| | | 77.0 | 24.5 | 3.92 | 26.5 | 4.56 | 28.9 | 5.32 | 31.4 | 5.98 | 32.3 | 6.13 | 33.5 | 6.28 | 34.5 | 6.38 |
| | | 154.0 | 24.5 | 3.60 | 26.5 | 4.26 | 28.9 | 4.96 | 31.4 | 5.60 | 32.3 | 5.73 | 33.5 | 5.87 | 34.5 | 5.98 |
| | | 192.5 | 24.5 | 3.50 | 26.5 | 4.18 | 28.9 | 4.88 | 31.4 | 5.49 | 32.3 | 5.62 | 33.5 | 5.77 | 34.5 | 5.83 |
| | | 231.0 | 24.5 | 3.45 | 26.5 | 4.14 | 28.9 | 4.83 | 31.4 | 5.44 | 32.3 | 5.57 | 33.5 | 5.71 | 34.5 | 5.76 |
| | 35 | 61.6 | 24.5 | 4.43 | 26.5 | 5.15 | 28.9 | 6.02 | 31.4 | 6.77 | 32.3 | 6.92 | 33.5 | 7.09 | 34.5 | 7.22 |
| | | 77.0 | 24.5 | 4.35 | 26.5 | 5.07 | 28.9 | 5.92 | 31.4 | 6.66 | 32.3 | 6.81 | 33.5 | 6.98 | 34.5 | 7.10 |
| | | 154.0 | 24.5 | 4.01 | 26.5 | 4.75 | 28.9 | 5.51 | 31.4 | 6.21 | 32.3 | 6.36 | 33.5 | 6.53 | 34.5 | 6.66 |
| | | 192.5 | 24.5 | 3.88 | 26.5 | 4.64 | 28.9 | 5.41 | 31.4 | 6.11 | 32.3 | 6.26 | 33.5 | 6.40 | 34.5 | 6.47 |
| | | 231.0 | 24.5 | 3.82 | 26.5 | 4.59 | 28.9 | 5.35 | 31.4 | 6.05 | 32.3 | 6.20 | 33.5 | 6.34 | 34.5 | 6.37 |
| | 40 | 61.6 | 24.5 | 5.26 | 26.5 | 6.10 | 28.9 | 7.12 | 31.4 | 8.00 | 32.3 | 8.19 | 33.5 | 8.40 | 34.5 | 8.56 |
| | | 77.0 | 24.5 | 5.15 | 26.5 | 6.00 | 28.9 | 7.00 | 31.4 | 7.87 | 32.3 | 8.06 | 33.5 | 8.27 | 34.5 | 8.42 |
| | | 154.0 | 24.5 | 4.73 | 26.5 | 5.62 | 28.9 | 6.53 | 31.4 | 7.36 | 32.3 | 7.55 | 33.5 | 7.74 | 34.5 | 7.87 |
| | | 192.5 | 24.5 | 4.60 | 26.5 | 5.49 | 28.9 | 6.40 | 31.4 | 7.23 | 32.3 | 7.40 | 33.5 | 7.59 | 34.5 | 7.68 |
| | | 231.0 | 24.5 | 4.54 | 26.5 | 5.43 | 28.9 | 6.34 | 31.4 | 7.17 | 32.3 | 7.33 | 33.5 | 7.52 | 34.5 | 7.58 |
| | 45 | 61.6 | 24.5 | 6.09 | 26.5 | 7.05 | 28.9 | 8.21 | 31.4 | 9.22 | 32.3 | 9.45 | 33.5 | 9.72 | 34.5 | 9.90 |
| | | 77.0 | 24.5 | 5.96 | 26.5 | 6.93 | 28.9 | 8.08 | 31.4 | 9.08 | 32.3 | 9.31 | 33.5 | 9.56 | 34.5 | 9.73 |
| | | 154.0 | 24.5 | 5.45 | 26.5 | 6.49 | 28.9 | 7.55 | 31.4 | 8.50 | 32.3 | 8.74 | 33.5 | 8.95 | 34.5 | 9.08 |
| | | 192.5 | 24.5 | 5.32 | 26.5 | 6.34 | 28.9 | 7.40 | 31.4 | 8.35 | 32.3 | 8.55 | 33.5 | 8.78 | 34.5 | 8.88 |
| | | 231.0 | 24.5 | 5.26 | 26.5 | 6.27 | 28.9 | 7.33 | 31.4 | 8.28 | 32.3 | 8.45 | 33.5 | 8.69 | 34.5 | 8.79 |
| 60 | 10 | 61.6 | 21.0 | 1.30 | 22.7 | 1.50 | 24.7 | 1.73 | 26.9 | 1.95 | 27.7 | 2.00 | 28.7 | 2.06 | 29.6 | 2.07 |
| | | 77.0 | 21.0 | 1.27 | 22.7 | 1.47 | 24.7 | 1.69 | 26.9 | 1.92 | 27.7 | 1.96 | 28.7 | 2.02 | 29.6 | 2.04 |
| | | 154.0 | 21.0 | 1.14 | 22.7 | 1.37 | 24.7 | 1.57 | 26.9 | 1.80 | 27.7 | 1.79 | 28.7 | 1.86 | 29.6 | 1.92 |
| | | 192.5 | 21.0 | 1.10 | 22.7 | 1.33 | 24.7 | 1.55 | 26.9 | 1.75 | 27.7 | 1.77 | 28.7 | 1.81 | 29.6 | 1.83 |
| | | 231.0 | 21.0 | 1.08 | 22.7 | 1.30 | 24.7 | 1.54 | 26.9 | 1.73 | 27.7 | 1.76 | 28.7 | 1.79 | 29.6 | 1.79 |
| | 15 | 61.6 | 21.0 | 1.73 | 22.7 | 2.00 | 24.7 | 2.33 | 26.9 | 2.63 | 27.7 | 2.70 | 28.7 | 2.76 | 29.6 | 2.80 |
| | | 77.0 | 21.0 | 1.70 | 22.7 | 1.97 | 24.7 | 2.29 | 26.9 | 2.59 | 27.7 | 2.65 | 28.7 | 2.71 | 29.6 | 2.76 |
| | | 154.0 | 21.0 | 1.55 | 22.7 | 1.84 | 24.7 | 2.14 | 26.9 | 2.42 | 27.7 | 2.46 | 28.7 | 2.52 | 29.6 | 2.59 |
| | | 192.5 | 21.0 | 1.51 | 22.7 | 1.80 | 24.7 | 2.10 | 26.9 | 2.37 | 27.7 | 2.42 | 28.7 | 2.48 | 29.6 | 2.50 |
| | | 231.0 | 21.0 | 1.48 | 22.7 | 1.78 | 24.7 | 2.08 | 26.9 | 2.35 | 27.7 | 2.40 | 28.7 | 2.46 | 29.6 | 2.46 |
| | 20 | 61.6 | 21.0 | 2.12 | 22.7 | 2.45 | 24.7 | 2.86 | 26.9 | 3.23 | 27.7 | 3.32 | 28.7 | 3.38 | 29.6 | 3.45 |
| | | 77.0 | 21.0 | 2.08 | 22.7 | 2.42 | 24.7 | 2.82 | 26.9 | 3.18 | 27.7 | 3.27 | 28.7 | 3.33 | 29.6 | 3.39 |
| | | 154.0 | 21.0 | 1.91 | 22.7 | 2.27 | 24.7 | 2.65 | 26.9 | 2.97 | 27.7 | 3.05 | 28.7 | 3.12 | 29.6 | 3.18 |
| | | 192.5 | 21.0 | 1.87 | 22.7 | 2.23 | 24.7 | 2.59 | 26.9 | 2.93 | 27.7 | 2.99 | 28.7 | 3.07 | 29.6 | 3.10 |
| | | 231.0 | 21.0 | 1.84 | 22.7 | 2.21 | 24.7 | 2.56 | 26.9 | 2.91 | 27.7 | 2.96 | 28.7 | 3.05 | 29.6 | 3.05 |
| | 25 | 61.6 | 21.0 | 2.60 | 22.7 | 3.00 | 24.7 | 3.49 | 26.9 | 3.94 | 27.7 | 4.03 | 28.7 | 4.14 | 29.6 | 4.20 |
| | | 77.0 | 21.0 | 2.54 | 22.7 | 2.95 | 24.7 | 3.44 | 26.9 | 3.88 | 27.7 | 3.97 | 28.7 | 4.07 | 29.6 | 4.13 |
| | | 154.0 | 21.0 | 2.33 | 22.7 | 2.76 | 24.7 | 3.22 | 26.9 | 3.63 | 27.7 | 3.71 | 28.7 | 3.82 | 29.6 | 3.88 |
| | | 192.5 | 21.0 | 2.27 | 22.7 | 2.71 | 24.7 | 3.16 | 26.9 | 3.56 | 27.7 | 3.65 | 28.7 | 3.73 | 29.6 | 3.77 |
| | | 231.0 | 21.0 | 2.24 | 22.7 | 2.69 | 24.7 | 3.13 | 26.9 | 3.53 | 27.7 | 3.62 | 28.7 | 3.69 | 29.6 | 3.72 |
| | 30 | 61.6 | 21.0 | 3.18 | 22.7 | 3.71 | 24.7 | 4.31 | 26.9 | 4.85 | 27.7 | 4.96 | 28.7 | 5.08 | 29.6 | 5.17 |
| | | 77.0 | 21.0 | 3.12 | 22.7 | 3.65 | 24.7 | 4.24 | 26.9 | 4.77 | 27.7 | 4.88 | 28.7 | 5.00 | 29.6 | 5.09 |
| | | 154.0 | 21.0 | 2.86 | 22.7 | 3.39 | 24.7 | 3.97 | 26.9 | 4.45 | 27.7 | 4.56 | 28.7 | 4.69 | 29.6 | 4.77 |
| | | 192.5 | 21.0 | 2.80 | 22.7 | 3.33 | 24.7 | 3.88 | 26.9 | 4.37 | 27.7 | 4.47 | 28.7 | 4.60 | 29.6 | 4.64 |
| | | 231.0 | 21.0 | 2.77 | 22.7 | 3.30 | 24.7 | 3.84 | 26.9 | 4.33 | 27.7 | 4.43 | 28.7 | 4.56 | 29.6 | 4.58 |
| | 35 | 61.6 | 21.0 | 3.53 | 22.7 | 4.12 | 24.7 | 4.78 | 26.9 | 5.39 | 27.7 | 5.52 | 28.7 | 5.64 | 29.6 | 5.75 |
| | | 77.0 | 21.0 | 3.46 | 22.7 | 4.05 | 24.7 | 4.71 | 26.9 | 5.30 | 27.7 | 5.43 | 28.7 | 5.56 | 29.6 | 5.66 |
| | | 154.0 | 21.0 | 3.18 | 22.7 | 3.77 | 24.7 | 4.41 | 26.9 | 4.96 | 27.7 | 5.07 | 28.7 | 5.22 | 29.6 | 5.30 |
| | | 192.5 | 21.0 | 3.10 | 22.7 | 3.69 | 24.7 | 4.30 | 26.9 | 4.86 | 27.7 | 4.98 | 28.7 | 5.11 | 29.6 | 5.15 |
| | | 231.0 | 21.0 | 3.05 | 22.7 | 3.65 | 24.7 | 4.25 | 26.9 | 4.80 | 27.7 | 4.94 | 28.7 | 5.06 | 29.6 | 5.08 |
| | 40 | 61.6 | 21.0 | 4.20 | 22.7 | 4.87 | 24.7 | 5.67 | 26.9 | 6.38 | 27.7 | 6.53 | 28.7 | 6.70 | 29.6 | 6.81 |
| | | 77.0 | 21.0 | 4.11 | 22.7 | 4.79 | 24.7 | 5.58 | 26.9 | 6.28 | 27.7 | 6.42 | 28.7 | 6.59 | 29.6 | 6.70 |
| | | 154.0 | 21.0 | 3.77 | 22.7 | 4.47 | 24.7 | 5.22 | 26.9 | 5.87 | 27.7 | 6.00 | 28.7 | 6.17 | 29.6 | 6.28 |
| | | 192.5 | 21.0 | 3.67 | 22.7 | 4.39 | 24.7 | 5.11 | 26.9 | 5.75 | 27.7 | 5.89 | 28.7 | 6.04 | 29.6 | 6.11 |
| | | 231.0 | 21.0 | 3.62 | 22.7 | 4.35 | 24.7 | 5.06 | 26.9 | 5.68 | 27.7 | 5.84 | 28.7 | 5.98 | 29.6 | 6.02 |
| | 45 | 61.6 | 21.0 | 4.87 | 22.7 | 5.63 | 24.7 | 6.55 | 26.9 | 7.37 | 27.7 | 7.54 | 28.7 | 7.76 | 29.6 | 7.86 |
| | | 77.0 | 21.0 | 4.77 | 22.7 | 5.53 | 24.7 | 6.45 | 26.9 | 7.25 | 27.7 | 7.42 | 28.7 | 7.63 | 29.6 | 7.74 |
| | | 154.0 | 21.0 | 4.37 | 22.7 | 5.17 | 24.7 | 6.02 | 26.9 | 6.79 | 27.7 | 6.93 | 28.7 | 7.12 | 29.6 | 7.25 |
| | | 192.5 | 21.0 | 4.24 | 22.7 | 5.09 | 24.7 | 5.92 | 26.9 | 6.64 | 27.7 | 6.81 | 28.7 | 6.98 | 29.6 | 7.06 |
| | | 231.0 | 21.0 | 4.18 | 22.7 | 5.05 | 24.7 | 5.86 | 26.9 | 6.56 | 27.7 | 6.74 | 28.7 | 6.90 | 29.6 | 6.97 |
| 50 | 10 | 61.6 | 17.5 | 0.93 | 18.9 | 1.10 | 20.6 | 1.32 | 22.4 | 1.45 | 23.1 | 1.47 | 24.0 | 1.52 | 24.6 | 1.56 |
| | | 77.0 | 17.5 | 0.92 | 18.9 | 1.08 | 20.6 | 1.29 | 22.4 | 1.43 | 23.1 | 1.45 | 24.0 | 1.49 | 24.6 | 1.53 |
| | | 154.0 | 17.5 | 0.88 | 18.9 | 1.02 | 20.6 | 1.16 | 22.4 | 1.33 | 23.1 | 1.37 | 24.0 | 1.39 | 24.6 | 1.43 |
| | | 192.5 | 17.5 | 0.84 | 18.9 | 0.98 | 20.6 | 1.16 | 22.4 | 1.28 | 23.1 | 1.33 | 24.0 | 1.34 | 24.6 | 1.37 |
| | | 231.0 | 17.5 | 0.82 | 18.9 | 0.96 | 20.6 | 1.16 | 22.4 | 1.26 | 23.1 | 1.30 | 24.0 | 1.32 | 24.6 | 1.33 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 61.6 | 17.5 | 1.27 | 18.9 | 1.48 | 20.6 | 1.75 | 22.4 | 1.96 | 23.1 | 2.00 | 24.0 | 2.05 | 24.6 | 2.09 |
| | | 77.0 | 17.5 | 1.25 | 18.9 | 1.46 | 20.6 | 1.72 | 22.4 | 1.93 | 23.1 | 1.97 | 24.0 | 2.01 | 24.6 | 2.06 |
| | | 154.0 | 17.5 | 1.17 | 18.9 | 1.38 | 20.6 | 1.59 | 22.4 | 1.80 | 23.1 | 1.84 | 24.0 | 1.89 | 24.6 | 1.93 |
| | | 192.5 | 17.5 | 1.12 | 18.9 | 1.34 | 20.6 | 1.57 | 22.4 | 1.76 | 23.1 | 1.80 | 24.0 | 1.84 | 24.6 | 1.87 |
| | | 231.0 | 17.5 | 1.10 | 18.9 | 1.31 | 20.6 | 1.56 | 22.4 | 1.74 | 23.1 | 1.78 | 24.0 | 1.82 | 24.6 | 1.83 |
| | 20 | 61.6 | 17.5 | 1.58 | 18.9 | 1.83 | 20.6 | 2.13 | 22.4 | 2.41 | 23.1 | 2.48 | 24.0 | 2.52 | 24.6 | 2.56 |
| | | 77.0 | 17.5 | 1.55 | 18.9 | 1.80 | 20.6 | 2.10 | 22.4 | 2.37 | 23.1 | 2.44 | 24.0 | 2.48 | 24.6 | 2.52 |
| | | 154.0 | 17.5 | 1.42 | 18.9 | 1.70 | 20.6 | 1.97 | 22.4 | 2.23 | 23.1 | 2.27 | 24.0 | 2.33 | 24.6 | 2.37 |
| | | 192.5 | 17.5 | 1.38 | 18.9 | 1.65 | 20.6 | 1.93 | 22.4 | 2.18 | 23.1 | 2.23 | 24.0 | 2.29 | 24.6 | 2.31 |
| | | 231.0 | 17.5 | 1.36 | 18.9 | 1.63 | 20.6 | 1.91 | 22.4 | 2.16 | 23.1 | 2.21 | 24.0 | 2.27 | 24.6 | 2.28 |
| | 25 | 61.6 | 17.5 | 1.92 | 18.9 | 2.24 | 20.6 | 2.61 | 22.4 | 2.93 | 23.1 | 3.02 | 24.0 | 3.08 | 24.6 | 3.15 |
| | | 77.0 | 17.5 | 1.89 | 18.9 | 2.21 | 20.6 | 2.57 | 22.4 | 2.88 | 23.1 | 2.97 | 24.0 | 3.03 | 24.6 | 3.10 |
| | | 154.0 | 17.5 | 1.74 | 18.9 | 2.06 | 20.6 | 2.40 | 22.4 | 2.71 | 23.1 | 2.78 | 24.0 | 2.84 | 24.6 | 2.88 |
| | | 192.5 | 17.5 | 1.70 | 18.9 | 2.01 | 20.6 | 2.35 | 22.4 | 2.65 | 23.1 | 2.71 | 24.0 | 2.78 | 24.6 | 2.82 |
| | | 231.0 | 17.5 | 1.68 | 18.9 | 1.99 | 20.6 | 2.33 | 22.4 | 2.62 | 23.1 | 2.68 | 24.0 | 2.75 | 24.6 | 2.79 |
| | 30 | 61.6 | 17.5 | 2.38 | 18.9 | 2.76 | 20.6 | 3.21 | 22.4 | 3.62 | 23.1 | 3.71 | 24.0 | 3.79 | 24.6 | 3.85 |
| | | 77.0 | 17.5 | 2.33 | 18.9 | 2.71 | 20.6 | 3.16 | 22.4 | 3.56 | 23.1 | 3.65 | 24.0 | 3.73 | 24.6 | 3.80 |
| | | 154.0 | 17.5 | 2.14 | 18.9 | 2.54 | 20.6 | 2.95 | 22.4 | 3.33 | 23.1 | 3.41 | 24.0 | 3.50 | 24.6 | 3.56 |
| | | 192.5 | 17.5 | 2.08 | 18.9 | 2.48 | 20.6 | 2.88 | 22.4 | 3.27 | 23.1 | 3.35 | 24.0 | 3.44 | 24.6 | 3.46 |
| | | 231.0 | 17.5 | 2.05 | 18.9 | 2.45 | 20.6 | 2.85 | 22.4 | 3.23 | 23.1 | 3.32 | 24.0 | 3.40 | 24.6 | 3.40 |
| | 35 | 61.6 | 17.5 | 2.64 | 18.9 | 3.06 | 20.6 | 3.58 | 22.4 | 4.01 | 23.1 | 4.12 | 24.0 | 4.23 | 24.6 | 4.29 |
| | | 77.0 | 17.5 | 2.59 | 18.9 | 3.01 | 20.6 | 3.52 | 22.4 | 3.94 | 23.1 | 4.05 | 24.0 | 4.16 | 24.6 | 4.22 |
| | | 154.0 | 17.5 | 2.37 | 18.9 | 2.82 | 20.6 | 3.29 | 22.4 | 3.69 | 23.1 | 3.77 | 24.0 | 3.88 | 24.6 | 3.94 |
| | | 192.5 | 17.5 | 2.31 | 18.9 | 2.76 | 20.6 | 3.22 | 22.4 | 3.63 | 23.1 | 3.71 | 24.0 | 3.82 | 24.6 | 3.84 |
| | | 231.0 | 17.5 | 2.28 | 18.9 | 2.72 | 20.6 | 3.19 | 22.4 | 3.59 | 23.1 | 3.68 | 24.0 | 3.79 | 24.6 | 3.79 |
| | 40 | 61.6 | 17.5 | 3.11 | 18.9 | 3.62 | 20.6 | 4.23 | 22.4 | 4.77 | 23.1 | 4.87 | 24.0 | 5.00 | 24.6 | 5.08 |
| | | 77.0 | 17.5 | 3.05 | 18.9 | 3.56 | 20.6 | 4.16 | 22.4 | 4.69 | 23.1 | 4.79 | 24.0 | 4.92 | 24.6 | 5.00 |
| | | 154.0 | 17.5 | 2.82 | 18.9 | 3.33 | 20.6 | 3.88 | 22.4 | 4.37 | 23.1 | 4.47 | 24.0 | 4.60 | 24.6 | 4.69 |
| | | 192.5 | 17.5 | 2.74 | 18.9 | 3.27 | 20.6 | 3.82 | 22.4 | 4.28 | 23.1 | 4.39 | 24.0 | 4.52 | 24.6 | 4.56 |
| | | 231.0 | 17.5 | 2.69 | 18.9 | 3.23 | 20.6 | 3.79 | 22.4 | 4.24 | 23.1 | 4.35 | 24.0 | 4.47 | 24.6 | 4.50 |
| | 45 | 61.6 | 17.5 | 3.58 | 18.9 | 4.18 | 20.6 | 4.87 | 22.4 | 5.52 | 23.1 | 5.63 | 24.0 | 5.77 | 24.6 | 5.88 |
| | | 77.0 | 17.5 | 3.52 | 18.9 | 4.11 | 20.6 | 4.79 | 22.4 | 5.43 | 23.1 | 5.53 | 24.0 | 5.68 | 24.6 | 5.79 |
| | | 154.0 | 17.5 | 3.27 | 18.9 | 3.84 | 20.6 | 4.47 | 22.4 | 5.05 | 23.1 | 5.17 | 24.0 | 5.32 | 24.6 | 5.43 |
| | | 192.5 | 17.5 | 3.16 | 18.9 | 3.77 | 20.6 | 4.41 | 22.4 | 4.94 | 23.1 | 5.07 | 24.0 | 5.22 | 24.6 | 5.28 |
| | | 231.0 | 17.5 | 3.11 | 18.9 | 3.74 | 20.6 | 4.38 | 22.4 | 4.89 | 23.1 | 5.02 | 24.0 | 5.16 | 24.6 | 5.21 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(18HP)**

## ARWN180BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 69.2 | 46.8 | 3.19 | 50.7 | 3.74 | 55.3 | 4.36 | 60.0 | 4.91 | 61.8 | 5.05 | 64.2 | 5.14 | 66.0 | 5.19 |
| | | 86.5 | 46.8 | 3.14 | 50.7 | 3.68 | 55.3 | 4.29 | 60.0 | 4.84 | 61.8 | 4.96 | 64.2 | 5.07 | 66.0 | 5.12 |
| | | 173.0 | 46.8 | 2.91 | 50.7 | 3.45 | 55.3 | 4.02 | 60.0 | 4.52 | 61.8 | 4.60 | 64.2 | 4.75 | 66.0 | 4.86 |
| | | 216.3 | 46.8 | 2.83 | 50.7 | 3.37 | 55.3 | 3.93 | 60.0 | 4.41 | 61.8 | 4.54 | 64.2 | 4.64 | 66.0 | 4.73 |
| | | 259.5 | 46.8 | 2.78 | 50.7 | 3.33 | 55.3 | 3.90 | 60.0 | 4.36 | 61.8 | 4.52 | 64.2 | 4.59 | 66.0 | 4.66 |
| | 15 | 69.2 | 46.1 | 4.22 | 49.9 | 4.91 | 54.4 | 5.72 | 59.1 | 6.45 | 60.8 | 6.61 | 63.2 | 6.75 | 65.0 | 6.86 |
| | | 86.5 | 46.1 | 4.14 | 49.9 | 4.83 | 54.4 | 5.63 | 59.1 | 6.34 | 60.8 | 6.50 | 63.2 | 6.65 | 65.0 | 6.75 |
| | | 173.0 | 46.1 | 3.81 | 49.9 | 4.53 | 54.4 | 5.26 | 59.1 | 5.93 | 60.8 | 6.06 | 63.2 | 6.24 | 65.0 | 6.36 |
| | | 216.3 | 46.1 | 3.70 | 49.9 | 4.41 | 54.4 | 5.15 | 59.1 | 5.81 | 60.8 | 5.95 | 63.2 | 6.11 | 65.0 | 6.22 |
| | | 259.5 | 46.1 | 3.65 | 49.9 | 4.36 | 54.4 | 5.10 | 59.1 | 5.74 | 60.8 | 5.90 | 63.2 | 6.04 | 65.0 | 6.14 |
| | 20 | 69.2 | 45.4 | 5.13 | 49.2 | 5.94 | 53.6 | 6.94 | 58.3 | 7.81 | 60.0 | 7.99 | 62.3 | 8.18 | 64.1 | 8.34 |
| | | 86.5 | 45.4 | 5.03 | 49.2 | 5.85 | 53.6 | 6.82 | 58.3 | 7.69 | 60.0 | 7.86 | 62.3 | 8.06 | 64.1 | 8.20 |
| | | 173.0 | 45.4 | 4.61 | 49.2 | 5.48 | 53.6 | 6.36 | 58.3 | 7.19 | 60.0 | 7.37 | 62.3 | 7.56 | 64.1 | 7.71 |
| | | 216.3 | 45.4 | 4.48 | 49.2 | 5.35 | 53.6 | 6.24 | 58.3 | 7.04 | 60.0 | 7.21 | 62.3 | 7.41 | 64.1 | 7.54 |
| | | 259.5 | 45.4 | 4.41 | 49.2 | 5.28 | 53.6 | 6.17 | 58.3 | 6.96 | 60.0 | 7.14 | 62.3 | 7.33 | 64.1 | 7.45 |
| | 25 | 69.2 | 45.4 | 6.32 | 49.2 | 7.33 | 53.6 | 8.54 | 58.3 | 9.62 | 60.0 | 9.86 | 62.3 | 10.10 | 64.1 | 10.27 |
| | | 86.5 | 45.4 | 6.20 | 49.2 | 7.21 | 53.6 | 8.40 | 58.3 | 9.46 | 60.0 | 9.71 | 62.3 | 9.94 | 64.1 | 10.11 |
| | | 173.0 | 45.4 | 5.70 | 49.2 | 6.75 | 53.6 | 7.86 | 58.3 | 8.86 | 60.0 | 9.07 | 62.3 | 9.32 | 64.1 | 9.51 |
| | | 216.3 | 45.4 | 5.54 | 49.2 | 6.61 | 53.6 | 7.71 | 58.3 | 8.68 | 60.0 | 8.91 | 62.3 | 9.14 | 64.1 | 9.30 |
| | | 259.5 | 45.4 | 5.47 | 49.2 | 6.53 | 53.6 | 7.63 | 58.3 | 8.59 | 60.0 | 8.82 | 62.3 | 9.05 | 64.1 | 9.18 |
| | 30 | 69.2 | 45.4 | 7.58 | 49.2 | 8.80 | 53.6 | 10.26 | 58.3 | 11.55 | 60.0 | 11.82 | 62.3 | 12.13 | 64.1 | 12.31 |
| | | 86.5 | 45.4 | 7.43 | 49.2 | 8.66 | 53.6 | 10.10 | 58.3 | 11.37 | 60.0 | 11.63 | 62.3 | 11.94 | 64.1 | 12.13 |
| | | 173.0 | 45.4 | 6.82 | 49.2 | 8.10 | 53.6 | 9.44 | 58.3 | 10.63 | 60.0 | 10.89 | 62.3 | 11.18 | 64.1 | 11.41 |
| | | 216.3 | 45.4 | 6.65 | 49.2 | 7.93 | 53.6 | 9.25 | 58.3 | 10.42 | 60.0 | 10.70 | 62.3 | 10.96 | 64.1 | 11.16 |
| | | 259.5 | 45.4 | 6.57 | 49.2 | 7.84 | 53.6 | 9.16 | 58.3 | 10.31 | 60.0 | 10.61 | 62.3 | 10.86 | 64.1 | 11.02 |
| | 35 | 69.2 | 40.9 | 7.67 | 44.3 | 8.92 | 48.2 | 10.36 | 52.4 | 11.69 | 54.0 | 11.94 | 56.1 | 12.26 | 57.6 | 12.47 |
| | | 86.5 | 40.9 | 7.51 | 44.3 | 8.77 | 48.2 | 10.20 | 52.4 | 11.50 | 54.0 | 11.76 | 56.1 | 12.06 | 57.6 | 12.28 |
| | | 173.0 | 40.9 | 6.91 | 44.3 | 8.19 | 48.2 | 9.55 | 52.4 | 10.74 | 54.0 | 11.02 | 56.1 | 11.30 | 57.6 | 11.52 |
| | | 216.3 | 40.9 | 6.71 | 44.3 | 8.01 | 48.2 | 9.35 | 52.4 | 10.52 | 54.0 | 10.81 | 56.1 | 11.09 | 57.6 | 11.28 |
| | | 259.5 | 40.9 | 6.62 | 44.3 | 7.93 | 48.2 | 9.26 | 52.4 | 10.42 | 54.0 | 10.70 | 56.1 | 10.98 | 57.6 | 11.16 |
| | 40 | 69.2 | 36.3 | 8.09 | 39.4 | 9.40 | 42.8 | 10.94 | 46.6 | 12.33 | 47.9 | 12.61 | 49.9 | 12.91 | 51.3 | 13.15 |
| | | 86.5 | 36.3 | 7.93 | 39.4 | 9.25 | 42.8 | 10.77 | 46.6 | 12.13 | 47.9 | 12.41 | 49.9 | 12.72 | 51.3 | 12.95 |
| | | 173.0 | 36.3 | 7.28 | 39.4 | 8.64 | 42.8 | 10.08 | 46.6 | 11.32 | 47.9 | 11.61 | 49.9 | 11.94 | 51.3 | 12.17 |
| | | 216.3 | 36.3 | 7.08 | 39.4 | 8.45 | 42.8 | 9.85 | 46.6 | 11.11 | 47.9 | 11.39 | 49.9 | 11.69 | 51.3 | 11.89 |
| | | 259.5 | 36.3 | 6.98 | 39.4 | 8.35 | 42.8 | 9.74 | 46.6 | 11.00 | 47.9 | 11.28 | 49.9 | 11.58 | 51.3 | 11.75 |
| | 45 | 69.2 | 31.8 | 8.52 | 34.4 | 9.88 | 37.4 | 11.51 | 40.7 | 12.97 | 41.9 | 13.28 | 43.6 | 13.57 | 44.8 | 13.83 |
| | | 86.5 | 31.8 | 8.34 | 34.4 | 9.72 | 37.4 | 11.32 | 40.7 | 12.76 | 41.9 | 13.06 | 43.6 | 13.36 | 44.8 | 13.62 |
| | | 173.0 | 31.8 | 7.65 | 34.4 | 9.10 | 37.4 | 10.59 | 40.7 | 11.92 | 41.9 | 12.19 | 43.6 | 12.56 | 44.8 | 12.82 |
| | | 216.3 | 31.8 | 7.45 | 34.4 | 8.88 | 37.4 | 10.35 | 40.7 | 11.69 | 41.9 | 11.98 | 43.6 | 12.31 | 44.8 | 12.50 |
| | | 259.5 | 31.8 | 7.35 | 34.4 | 8.77 | 37.4 | 10.24 | 40.7 | 11.59 | 41.9 | 11.87 | 43.6 | 12.17 | 44.8 | 12.33 |
| 120 | 10 | 69.2 | 44.3 | 3.05 | 48.0 | 3.53 | 52.2 | 4.15 | 56.9 | 4.66 | 58.6 | 4.79 | 60.8 | 4.89 | 62.5 | 4.98 |
| | | 86.5 | 44.3 | 2.99 | 48.0 | 3.47 | 52.2 | 4.08 | 56.9 | 4.57 | 58.6 | 4.71 | 60.8 | 4.80 | 62.5 | 4.89 |
| | | 173.0 | 44.3 | 2.74 | 48.0 | 3.24 | 52.2 | 3.79 | 56.9 | 4.29 | 58.6 | 4.37 | 60.8 | 4.50 | 62.5 | 4.55 |
| | | 216.3 | 44.3 | 2.70 | 48.0 | 3.17 | 52.2 | 3.74 | 56.9 | 4.20 | 58.6 | 4.29 | 60.8 | 4.41 | 62.5 | 4.47 |
| | | 259.5 | 44.3 | 2.68 | 48.0 | 3.15 | 52.2 | 3.72 | 56.9 | 4.16 | 58.6 | 4.24 | 60.8 | 4.37 | 62.5 | 4.43 |
| | 15 | 69.2 | 43.8 | 4.04 | 47.5 | 4.69 | 51.7 | 5.49 | 56.2 | 6.16 | 57.9 | 6.32 | 60.1 | 6.47 | 61.8 | 6.58 |
| | | 86.5 | 43.8 | 3.97 | 47.5 | 4.61 | 51.7 | 5.39 | 56.2 | 6.06 | 57.9 | 6.22 | 60.1 | 6.36 | 61.8 | 6.48 |
| | | 173.0 | 43.8 | 3.63 | 47.5 | 4.31 | 51.7 | 5.03 | 56.2 | 5.67 | 57.9 | 5.81 | 60.1 | 5.95 | 61.8 | 6.06 |
| | | 216.3 | 43.8 | 3.56 | 47.5 | 4.22 | 51.7 | 4.94 | 56.2 | 5.56 | 57.9 | 5.70 | 60.1 | 5.85 | 61.8 | 5.93 |
| | | 259.5 | 43.8 | 3.51 | 47.5 | 4.18 | 51.7 | 4.89 | 56.2 | 5.51 | 57.9 | 5.65 | 60.1 | 5.79 | 61.8 | 5.87 |
| | 20 | 69.2 | 43.4 | 4.93 | 47.0 | 5.72 | 51.1 | 6.68 | 55.6 | 7.51 | 57.2 | 7.68 | 59.5 | 7.88 | 61.2 | 8.01 |
| | | 86.5 | 43.4 | 4.83 | 47.0 | 5.63 | 51.1 | 6.56 | 55.6 | 7.39 | 57.2 | 7.56 | 59.5 | 7.76 | 61.2 | 7.88 |
| | | 173.0 | 43.4 | 4.44 | 47.0 | 5.26 | 51.1 | 6.13 | 55.6 | 6.91 | 57.2 | 7.08 | 59.5 | 7.26 | 61.2 | 7.41 |
| | | 216.3 | 43.4 | 4.31 | 47.0 | 5.15 | 51.1 | 6.00 | 55.6 | 6.78 | 57.2 | 6.95 | 59.5 | 7.12 | 61.2 | 7.23 |
| | | 259.5 | 43.4 | 4.25 | 47.0 | 5.10 | 51.1 | 5.93 | 55.6 | 6.71 | 57.2 | 6.89 | 59.5 | 7.06 | 61.2 | 7.15 |
| | 25 | 69.2 | 43.4 | 6.06 | 47.0 | 7.02 | 51.1 | 8.19 | 55.6 | 9.23 | 57.2 | 9.44 | 59.5 | 9.69 | 61.2 | 9.85 |
| | | 86.5 | 43.4 | 5.93 | 47.0 | 6.91 | 51.1 | 8.06 | 55.6 | 9.07 | 57.2 | 9.30 | 59.5 | 9.53 | 61.2 | 9.71 |
| | | 173.0 | 43.4 | 5.46 | 47.0 | 6.48 | 51.1 | 7.54 | 55.6 | 8.49 | 57.2 | 8.68 | 59.5 | 8.93 | 61.2 | 9.10 |
| | | 216.3 | 43.4 | 5.31 | 47.0 | 6.32 | 51.1 | 7.39 | 55.6 | 8.32 | 57.2 | 8.54 | 59.5 | 8.75 | 61.2 | 8.88 |
| | | 259.5 | 43.4 | 5.23 | 47.0 | 6.25 | 51.1 | 7.31 | 55.6 | 8.23 | 57.2 | 8.45 | 59.5 | 8.66 | 61.2 | 8.77 |
| | 30 | 69.2 | 43.4 | 7.31 | 47.0 | 8.50 | 51.1 | 9.90 | 55.6 | 11.16 | 57.2 | 11.43 | 59.5 | 11.71 | 61.2 | 11.90 |
| | | 86.5 | 43.4 | 7.17 | 47.0 | 8.36 | 51.1 | 9.74 | 55.6 | 10.98 | 57.2 | 11.25 | 59.5 | 11.52 | 61.2 | 11.71 |
| | | 173.0 | 43.4 | 6.61 | 47.0 | 7.81 | 51.1 | 9.12 | 55.6 | 10.27 | 57.2 | 10.50 | 59.5 | 10.79 | 61.2 | 11.00 |
| | | 216.3 | 43.4 | 6.41 | 47.0 | 7.65 | 51.1 | 8.93 | 55.6 | 10.05 | 57.2 | 10.31 | 59.5 | 10.59 | 61.2 | 10.74 |
| | | 259.5 | 43.4 | 6.31 | 47.0 | 7.56 | 51.1 | 8.82 | 55.6 | 9.94 | 57.2 | 10.22 | 59.5 | 10.49 | 61.2 | 10.61 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 69.2 | 39.7 | 7.49 | 43.0 | 8.72 | 46.8 | 10.15 | 50.9 | 11.42 | 52.4 | 11.71 | 54.5 | 11.99 | 56.0 | 12.21 |
| | | 86.5 | 39.7 | 7.35 | 43.0 | 8.58 | 46.8 | 9.99 | 50.9 | 11.25 | 52.4 | 11.52 | 54.5 | 11.80 | 56.0 | 12.02 |
| | | 173.0 | 39.7 | 6.75 | 43.0 | 8.01 | 46.8 | 9.34 | 50.9 | 10.52 | 52.4 | 10.79 | 54.5 | 11.07 | 56.0 | 11.26 |
| | | 216.3 | 39.7 | 6.59 | 43.0 | 7.84 | 46.8 | 9.14 | 50.9 | 10.31 | 52.4 | 10.57 | 54.5 | 10.86 | 56.0 | 11.00 |
| | | 259.5 | 39.7 | 6.50 | 43.0 | 7.76 | 46.8 | 9.05 | 50.9 | 10.20 | 52.4 | 10.47 | 54.5 | 10.75 | 56.0 | 10.88 |
| | 40 | 69.2 | 36.0 | 8.06 | 39.0 | 9.38 | 42.5 | 10.91 | 46.2 | 12.31 | 47.5 | 12.59 | 49.5 | 12.90 | 50.8 | 13.13 |
| | | 86.5 | 36.0 | 7.90 | 39.0 | 9.23 | 42.5 | 10.74 | 46.2 | 12.11 | 47.5 | 12.39 | 49.5 | 12.70 | 50.8 | 12.93 |
| | | 173.0 | 36.0 | 7.28 | 39.0 | 8.62 | 42.5 | 10.05 | 46.2 | 11.32 | 47.5 | 11.59 | 49.5 | 11.89 | 50.8 | 12.13 |
| | | 216.3 | 36.0 | 7.08 | 39.0 | 8.45 | 42.5 | 9.85 | 46.2 | 11.09 | 47.5 | 11.37 | 49.5 | 11.67 | 50.8 | 11.85 |
| | | 259.5 | 36.0 | 6.98 | 39.0 | 8.36 | 42.5 | 9.76 | 46.2 | 10.97 | 47.5 | 11.26 | 49.5 | 11.57 | 50.8 | 11.71 |
| | 45 | 69.2 | 32.4 | 8.64 | 35.0 | 10.04 | 38.2 | 11.69 | 41.5 | 13.18 | 42.6 | 13.48 | 44.4 | 13.80 | 45.7 | 14.05 |
| | | 86.5 | 32.4 | 8.47 | 35.0 | 9.88 | 38.2 | 11.50 | 41.5 | 12.97 | 42.6 | 13.25 | 44.4 | 13.58 | 45.7 | 13.84 |
| | | 173.0 | 32.4 | 7.80 | 35.0 | 9.23 | 38.2 | 10.77 | 41.5 | 12.13 | 42.6 | 12.39 | 44.4 | 12.72 | 45.7 | 13.00 |
| | | 216.3 | 32.4 | 7.58 | 35.0 | 9.05 | 38.2 | 10.57 | 41.5 | 11.87 | 42.6 | 12.17 | 44.4 | 12.50 | 45.7 | 12.70 |
| | | 259.5 | 32.4 | 7.47 | 35.0 | 8.96 | 38.2 | 10.47 | 41.5 | 11.74 | 42.6 | 12.06 | 44.4 | 12.39 | 45.7 | 12.54 |
| 110 | 10 | 69.2 | 41.8 | 2.90 | 45.2 | 3.35 | 49.3 | 3.88 | 53.6 | 4.39 | 55.2 | 4.46 | 57.4 | 4.61 | 58.9 | 4.66 |
| | | 86.5 | 41.8 | 2.84 | 45.2 | 3.30 | 49.3 | 3.82 | 53.6 | 4.32 | 55.2 | 4.41 | 57.4 | 4.53 | 58.9 | 4.59 |
| | | 173.0 | 41.8 | 2.61 | 45.2 | 3.07 | 49.3 | 3.59 | 53.6 | 4.05 | 55.2 | 4.16 | 57.4 | 4.21 | 58.9 | 4.30 |
| | | 216.3 | 41.8 | 2.53 | 45.2 | 3.01 | 49.3 | 3.51 | 53.6 | 3.97 | 55.2 | 4.04 | 57.4 | 4.13 | 58.9 | 4.24 |
| | | 259.5 | 41.8 | 2.48 | 45.2 | 2.98 | 49.3 | 3.47 | 53.6 | 3.93 | 55.2 | 3.99 | 57.4 | 4.09 | 58.9 | 4.21 |
| | 15 | 69.2 | 41.6 | 3.86 | 45.0 | 4.50 | 49.0 | 5.21 | 53.3 | 5.88 | 54.9 | 6.01 | 57.1 | 6.16 | 58.6 | 6.27 |
| | | 86.5 | 41.6 | 3.79 | 45.0 | 4.41 | 49.0 | 5.14 | 53.3 | 5.78 | 54.9 | 5.91 | 57.1 | 6.06 | 58.6 | 6.17 |
| | | 173.0 | 41.6 | 3.49 | 45.0 | 4.11 | 49.0 | 4.80 | 53.3 | 5.42 | 54.9 | 5.54 | 57.1 | 5.67 | 58.6 | 5.78 |
| | | 216.3 | 41.6 | 3.38 | 45.0 | 4.02 | 49.0 | 4.70 | 53.3 | 5.31 | 54.9 | 5.44 | 57.1 | 5.56 | 58.6 | 5.65 |
| | | 259.5 | 41.6 | 3.33 | 45.0 | 3.99 | 49.0 | 4.64 | 53.3 | 5.26 | 54.9 | 5.38 | 57.1 | 5.51 | 58.6 | 5.58 |
| | 20 | 69.2 | 41.4 | 4.73 | 44.8 | 5.51 | 48.8 | 6.41 | 53.0 | 7.19 | 54.6 | 7.37 | 56.7 | 7.55 | 58.3 | 7.70 |
| | | 86.5 | 41.4 | 4.64 | 44.8 | 5.42 | 48.8 | 6.30 | 53.0 | 7.08 | 54.6 | 7.26 | 56.7 | 7.43 | 58.3 | 7.58 |
| | | 173.0 | 41.4 | 4.27 | 44.8 | 5.05 | 48.8 | 5.90 | 53.0 | 6.63 | 54.6 | 6.78 | 56.7 | 6.98 | 58.3 | 7.10 |
| | | 216.3 | 41.4 | 4.14 | 44.8 | 4.94 | 48.8 | 5.76 | 53.0 | 6.50 | 54.6 | 6.68 | 56.7 | 6.84 | 58.3 | 6.91 |
| | | 259.5 | 41.4 | 4.07 | 44.8 | 4.89 | 48.8 | 5.70 | 53.0 | 6.43 | 54.6 | 6.62 | 56.7 | 6.78 | 58.3 | 6.82 |
| | 25 | 69.2 | 41.4 | 5.79 | 44.8 | 6.73 | 48.8 | 7.83 | 53.0 | 8.82 | 54.6 | 9.02 | 56.7 | 9.24 | 58.3 | 9.42 |
| | | 86.5 | 41.4 | 5.67 | 44.8 | 6.63 | 48.8 | 7.71 | 53.0 | 8.68 | 54.6 | 8.88 | 56.7 | 9.10 | 58.3 | 9.27 |
| | | 173.0 | 41.4 | 5.22 | 44.8 | 6.20 | 48.8 | 7.21 | 53.0 | 8.13 | 54.6 | 8.32 | 56.7 | 8.54 | 58.3 | 8.68 |
| | | 216.3 | 41.4 | 5.07 | 44.8 | 6.06 | 48.8 | 7.06 | 53.0 | 7.95 | 54.6 | 8.17 | 56.7 | 8.36 | 58.3 | 8.47 |
| | | 259.5 | 41.4 | 4.99 | 44.8 | 6.00 | 48.8 | 6.98 | 53.0 | 7.86 | 54.6 | 8.09 | 56.7 | 8.27 | 58.3 | 8.36 |
| | 30 | 69.2 | 41.4 | 7.05 | 44.8 | 8.22 | 48.8 | 9.55 | 53.0 | 10.77 | 54.6 | 11.00 | 56.7 | 11.29 | 58.3 | 11.48 |
| | | 86.5 | 41.4 | 6.91 | 44.8 | 8.08 | 48.8 | 9.40 | 53.0 | 10.59 | 54.6 | 10.83 | 56.7 | 11.11 | 58.3 | 11.30 |
| | | 173.0 | 41.4 | 6.36 | 44.8 | 7.54 | 48.8 | 8.79 | 53.0 | 9.90 | 54.6 | 10.13 | 56.7 | 10.40 | 58.3 | 10.59 |
| | | 216.3 | 41.4 | 6.20 | 44.8 | 7.39 | 48.8 | 8.59 | 53.0 | 9.71 | 54.6 | 9.94 | 56.7 | 10.20 | 58.3 | 10.33 |
| | | 259.5 | 41.4 | 6.11 | 44.8 | 7.31 | 48.8 | 8.50 | 53.0 | 9.60 | 54.6 | 9.85 | 56.7 | 10.10 | 58.3 | 10.20 |
| | 35 | 69.2 | 38.5 | 7.34 | 41.7 | 8.52 | 45.4 | 9.92 | 49.5 | 11.18 | 50.9 | 11.44 | 52.9 | 11.73 | 54.3 | 11.95 |
| | | 86.5 | 38.5 | 7.19 | 41.7 | 8.38 | 45.4 | 9.76 | 49.5 | 11.00 | 50.9 | 11.26 | 52.9 | 11.55 | 54.3 | 11.76 |
| | | 173.0 | 38.5 | 6.61 | 41.7 | 7.84 | 45.4 | 9.14 | 49.5 | 10.29 | 50.9 | 10.54 | 52.9 | 10.81 | 54.3 | 11.00 |
| | | 216.3 | 38.5 | 6.43 | 41.7 | 7.67 | 45.4 | 8.95 | 49.5 | 10.10 | 50.9 | 10.33 | 52.9 | 10.61 | 54.3 | 10.74 |
| | | 259.5 | 38.5 | 6.34 | 41.7 | 7.58 | 45.4 | 8.85 | 49.5 | 9.99 | 50.9 | 10.22 | 52.9 | 10.52 | 54.3 | 10.61 |
| | 40 | 69.2 | 35.7 | 8.07 | 38.7 | 9.35 | 42.1 | 10.93 | 45.7 | 12.28 | 47.1 | 12.57 | 49.0 | 12.88 | 50.4 | 13.11 |
| | | 86.5 | 35.7 | 7.90 | 38.7 | 9.21 | 42.1 | 10.74 | 45.7 | 12.08 | 47.1 | 12.37 | 49.0 | 12.67 | 50.4 | 12.91 |
| | | 173.0 | 35.7 | 7.26 | 38.7 | 8.62 | 42.1 | 10.03 | 45.7 | 11.30 | 47.1 | 11.57 | 49.0 | 11.87 | 50.4 | 12.11 |
| | | 216.3 | 35.7 | 7.06 | 38.7 | 8.43 | 42.1 | 9.83 | 45.7 | 11.09 | 47.1 | 11.35 | 49.0 | 11.65 | 50.4 | 11.80 |
| | | 259.5 | 35.7 | 6.96 | 38.7 | 8.33 | 42.1 | 9.74 | 45.7 | 10.98 | 47.1 | 11.25 | 49.0 | 11.55 | 50.4 | 11.65 |
| | 45 | 69.2 | 32.9 | 8.80 | 35.6 | 10.19 | 38.9 | 11.92 | 42.1 | 13.38 | 43.4 | 13.69 | 45.2 | 14.01 | 46.3 | 14.27 |
| | | 86.5 | 32.9 | 8.62 | 35.6 | 10.03 | 38.9 | 11.71 | 42.1 | 13.16 | 43.4 | 13.48 | 45.2 | 13.80 | 46.3 | 14.06 |
| | | 173.0 | 32.9 | 7.90 | 35.6 | 9.40 | 38.9 | 10.91 | 42.1 | 12.33 | 43.4 | 12.58 | 45.2 | 12.93 | 46.3 | 13.21 |
| | | 216.3 | 32.9 | 7.69 | 35.6 | 9.18 | 38.9 | 10.72 | 42.1 | 12.08 | 43.4 | 12.37 | 45.2 | 12.70 | 46.3 | 12.86 |
| | | 259.5 | 32.9 | 7.58 | 35.6 | 9.07 | 38.9 | 10.63 | 42.1 | 11.97 | 43.4 | 12.26 | 45.2 | 12.58 | 46.3 | 12.70 |
| 100 | 10 | 69.2 | 39.4 | 2.69 | 42.5 | 3.17 | 46.3 | 3.66 | 50.4 | 4.09 | 52.0 | 4.20 | 53.9 | 4.34 | 55.4 | 4.43 |
| | | 86.5 | 39.4 | 2.64 | 42.5 | 3.10 | 46.3 | 3.60 | 50.4 | 4.04 | 52.0 | 4.15 | 53.9 | 4.27 | 55.4 | 4.36 |
| | | 173.0 | 39.4 | 2.44 | 42.5 | 2.87 | 46.3 | 3.38 | 50.4 | 3.81 | 52.0 | 3.92 | 53.9 | 4.00 | 55.4 | 4.04 |
| | | 216.3 | 39.4 | 2.39 | 42.5 | 2.81 | 46.3 | 3.31 | 50.4 | 3.70 | 52.0 | 3.81 | 53.9 | 3.92 | 55.4 | 3.98 |
| | | 259.5 | 39.4 | 2.38 | 42.5 | 2.78 | 46.3 | 3.28 | 50.4 | 3.65 | 52.0 | 3.76 | 53.9 | 3.88 | 55.4 | 3.95 |
| | 15 | 69.2 | 39.4 | 3.67 | 42.5 | 4.27 | 46.3 | 4.98 | 50.4 | 5.59 | 52.0 | 5.72 | 53.9 | 5.88 | 55.4 | 5.99 |
| | | 86.5 | 39.4 | 3.60 | 42.5 | 4.20 | 46.3 | 4.89 | 50.4 | 5.51 | 52.0 | 5.63 | 53.9 | 5.78 | 55.4 | 5.90 |
| | | 173.0 | 39.4 | 3.31 | 42.5 | 3.92 | 46.3 | 4.57 | 50.4 | 5.15 | 52.0 | 5.28 | 53.9 | 5.42 | 55.4 | 5.51 |
| | | 216.3 | 39.4 | 3.23 | 42.5 | 3.83 | 46.3 | 4.48 | 50.4 | 5.05 | 52.0 | 5.17 | 53.9 | 5.31 | 55.4 | 5.37 |
| | | 259.5 | 39.4 | 3.19 | 42.5 | 3.79 | 46.3 | 4.44 | 50.4 | 4.99 | 52.0 | 5.12 | 53.9 | 5.26 | 55.4 | 5.31 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 69.2 | 39.4 | 4.53 | 42.5 | 5.26 | 46.3 | 6.15 | 50.4 | 6.91 | 52.0 | 7.07 | 53.9 | 7.24 | 55.4 | 7.37 |
| | | 86.5 | 39.4 | 4.44 | 42.5 | 5.17 | 46.3 | 6.04 | 50.4 | 6.80 | 52.0 | 6.95 | 53.9 | 7.12 | 55.4 | 7.26 |
| | | 173.0 | 39.4 | 4.09 | 42.5 | 4.85 | 46.3 | 5.63 | 50.4 | 6.34 | 52.0 | 6.50 | 53.9 | 6.68 | 55.4 | 6.80 |
| | | 216.3 | 39.4 | 3.97 | 42.5 | 4.75 | 46.3 | 5.53 | 50.4 | 6.24 | 52.0 | 6.39 | 53.9 | 6.54 | 55.4 | 6.61 |
| | | 259.5 | 39.4 | 3.90 | 42.5 | 4.69 | 46.3 | 5.47 | 50.4 | 6.18 | 52.0 | 6.34 | 53.9 | 6.48 | 55.4 | 6.50 |
| | 25 | 69.2 | 39.4 | 5.53 | 42.5 | 6.43 | 46.3 | 7.49 | 50.4 | 8.43 | 52.0 | 8.63 | 53.9 | 8.82 | 55.4 | 9.00 |
| | | 86.5 | 39.4 | 5.42 | 42.5 | 6.32 | 46.3 | 7.37 | 50.4 | 8.29 | 52.0 | 8.49 | 53.9 | 8.68 | 55.4 | 8.86 |
| | | 173.0 | 39.4 | 4.98 | 42.5 | 5.91 | 46.3 | 6.89 | 50.4 | 7.76 | 52.0 | 7.93 | 53.9 | 8.15 | 55.4 | 8.27 |
| | | 216.3 | 39.4 | 4.85 | 42.5 | 5.78 | 46.3 | 6.73 | 50.4 | 7.60 | 52.0 | 7.78 | 53.9 | 7.99 | 55.4 | 8.06 |
| | | 259.5 | 39.4 | 4.78 | 42.5 | 5.72 | 46.3 | 6.66 | 50.4 | 7.53 | 52.0 | 7.70 | 53.9 | 7.92 | 55.4 | 7.95 |
| | 30 | 69.2 | 39.4 | 6.80 | 42.5 | 7.90 | 46.3 | 9.20 | 50.4 | 10.37 | 52.0 | 10.61 | 53.9 | 10.88 | 55.4 | 11.07 |
| | | 86.5 | 39.4 | 6.68 | 42.5 | 7.78 | 46.3 | 9.05 | 50.4 | 10.20 | 52.0 | 10.44 | 53.9 | 10.70 | 55.4 | 10.89 |
| | | 173.0 | 39.4 | 6.13 | 42.5 | 7.26 | 46.3 | 8.47 | 50.4 | 9.53 | 52.0 | 9.74 | 53.9 | 10.01 | 55.4 | 10.18 |
| | | 216.3 | 39.4 | 5.95 | 42.5 | 7.10 | 46.3 | 8.29 | 50.4 | 9.34 | 52.0 | 9.57 | 53.9 | 9.81 | 55.4 | 9.92 |
| | | 259.5 | 39.4 | 5.87 | 42.5 | 7.03 | 46.3 | 8.20 | 50.4 | 9.24 | 52.0 | 9.49 | 53.9 | 9.71 | 55.4 | 9.79 |
| | 35 | 69.2 | 37.4 | 7.18 | 40.5 | 8.34 | 44.1 | 9.71 | 47.9 | 10.95 | 49.3 | 11.21 | 51.3 | 11.46 | 52.6 | 11.67 |
| | | 86.5 | 37.4 | 7.04 | 40.5 | 8.20 | 44.1 | 9.55 | 47.9 | 10.77 | 49.3 | 11.02 | 51.3 | 11.28 | 52.6 | 11.48 |
| | | 173.0 | 37.4 | 6.48 | 40.5 | 7.67 | 44.1 | 8.93 | 47.9 | 10.05 | 49.3 | 10.31 | 51.3 | 10.57 | 52.6 | 10.74 |
| | | 216.3 | 37.4 | 6.29 | 40.5 | 7.51 | 44.1 | 8.75 | 47.9 | 9.85 | 49.3 | 10.11 | 51.3 | 10.38 | 52.6 | 10.47 |
| | | 259.5 | 37.4 | 6.18 | 40.5 | 7.44 | 44.1 | 8.66 | 47.9 | 9.76 | 49.3 | 10.02 | 51.3 | 10.28 | 52.6 | 10.32 |
| | 40 | 69.2 | 35.3 | 8.04 | 38.3 | 9.36 | 41.7 | 10.89 | 45.4 | 12.26 | 46.7 | 12.58 | 48.6 | 12.88 | 49.9 | 13.09 |
| | | 86.5 | 35.3 | 7.88 | 38.3 | 9.21 | 41.7 | 10.72 | 45.4 | 12.06 | 46.7 | 12.37 | 48.6 | 12.67 | 49.9 | 12.89 |
| | | 173.0 | 35.3 | 7.26 | 38.3 | 8.59 | 41.7 | 10.03 | 45.4 | 11.28 | 46.7 | 11.55 | 48.6 | 11.85 | 49.9 | 12.06 |
| | | 216.3 | 35.3 | 7.06 | 38.3 | 8.43 | 41.7 | 9.81 | 45.4 | 11.07 | 46.7 | 11.35 | 48.6 | 11.63 | 49.9 | 11.74 |
| | | 259.5 | 35.3 | 6.96 | 38.3 | 8.34 | 41.7 | 9.71 | 45.4 | 10.96 | 46.7 | 11.25 | 48.6 | 11.53 | 49.9 | 11.58 |
| | 45 | 69.2 | 33.3 | 8.91 | 36.2 | 10.37 | 39.4 | 12.08 | 42.8 | 13.57 | 44.1 | 13.94 | 45.7 | 14.29 | 47.2 | 14.53 |
| | | 86.5 | 33.3 | 8.73 | 36.2 | 10.20 | 39.4 | 11.89 | 42.8 | 13.36 | 44.1 | 13.71 | 45.7 | 14.06 | 47.2 | 14.30 |
| | | 173.0 | 33.3 | 8.04 | 36.2 | 9.53 | 39.4 | 11.13 | 42.8 | 12.52 | 44.1 | 12.77 | 45.7 | 13.13 | 47.2 | 13.39 |
| | | 216.3 | 33.3 | 7.84 | 36.2 | 9.34 | 39.4 | 10.87 | 42.8 | 12.28 | 44.1 | 12.58 | 45.7 | 12.89 | 47.2 | 13.02 |
| | | 259.5 | 33.3 | 7.74 | 36.2 | 9.24 | 39.4 | 10.75 | 42.8 | 12.17 | 44.1 | 12.49 | 45.7 | 12.77 | 47.2 | 12.84 |
| 90 | 10 | 69.2 | 35.3 | 2.34 | 38.3 | 2.71 | 41.7 | 3.12 | 45.4 | 3.56 | 46.7 | 3.65 | 48.6 | 3.75 | 49.9 | 3.81 |
| | | 86.5 | 35.3 | 2.29 | 38.3 | 2.67 | 41.7 | 3.08 | 45.4 | 3.50 | 46.7 | 3.58 | 48.6 | 3.69 | 49.9 | 3.75 |
| | | 173.0 | 35.3 | 2.13 | 38.3 | 2.50 | 41.7 | 2.92 | 45.4 | 3.29 | 46.7 | 3.35 | 48.6 | 3.44 | 49.9 | 3.50 |
| | | 216.3 | 35.3 | 2.04 | 38.3 | 2.46 | 41.7 | 2.83 | 45.4 | 3.21 | 46.7 | 3.29 | 48.6 | 3.38 | 49.9 | 3.40 |
| | | 259.5 | 35.3 | 2.00 | 38.3 | 2.44 | 41.7 | 2.78 | 45.4 | 3.17 | 46.7 | 3.26 | 48.6 | 3.35 | 49.9 | 3.35 |
| | 15 | 69.2 | 35.3 | 3.15 | 38.3 | 3.68 | 41.7 | 4.27 | 45.4 | 4.82 | 46.7 | 4.93 | 48.6 | 5.07 | 49.9 | 5.15 |
| | | 86.5 | 35.3 | 3.10 | 38.3 | 3.62 | 41.7 | 4.20 | 45.4 | 4.75 | 46.7 | 4.85 | 48.6 | 4.98 | 49.9 | 5.07 |
| | | 173.0 | 35.3 | 2.86 | 38.3 | 3.38 | 41.7 | 3.95 | 45.4 | 4.44 | 46.7 | 4.55 | 48.6 | 4.66 | 49.9 | 4.75 |
| | | 216.3 | 35.3 | 2.78 | 38.3 | 3.31 | 41.7 | 3.86 | 45.4 | 4.36 | 46.7 | 4.46 | 48.6 | 4.57 | 49.9 | 4.61 |
| | | 259.5 | 35.3 | 2.73 | 38.3 | 3.28 | 41.7 | 3.81 | 45.4 | 4.31 | 46.7 | 4.41 | 48.6 | 4.53 | 49.9 | 4.55 |
| | 20 | 69.2 | 35.3 | 3.89 | 38.3 | 4.54 | 41.7 | 5.28 | 45.4 | 5.95 | 46.7 | 6.07 | 48.6 | 6.23 | 49.9 | 6.34 |
| | | 86.5 | 35.3 | 3.81 | 38.3 | 4.46 | 41.7 | 5.19 | 45.4 | 5.85 | 46.7 | 5.97 | 48.6 | 6.13 | 49.9 | 6.24 |
| | | 173.0 | 35.3 | 3.51 | 38.3 | 4.16 | 41.7 | 4.85 | 45.4 | 5.46 | 46.7 | 5.61 | 48.6 | 5.74 | 49.9 | 5.85 |
| | | 216.3 | 35.3 | 3.42 | 38.3 | 4.07 | 41.7 | 4.77 | 45.4 | 5.37 | 46.7 | 5.51 | 48.6 | 5.63 | 49.9 | 5.70 |
| | | 259.5 | 35.3 | 3.38 | 38.3 | 4.02 | 41.7 | 4.73 | 45.4 | 5.33 | 46.7 | 5.45 | 48.6 | 5.58 | 49.9 | 5.62 |
| | 25 | 69.2 | 35.3 | 4.75 | 38.3 | 5.53 | 41.7 | 6.43 | 45.4 | 7.24 | 46.7 | 7.42 | 48.6 | 7.60 | 49.9 | 7.75 |
| | | 86.5 | 35.3 | 4.66 | 38.3 | 5.44 | 41.7 | 6.32 | 45.4 | 7.12 | 46.7 | 7.30 | 48.6 | 7.47 | 49.9 | 7.62 |
| | | 173.0 | 35.3 | 4.29 | 38.3 | 5.09 | 41.7 | 5.91 | 45.4 | 6.68 | 46.7 | 6.82 | 48.6 | 7.00 | 49.9 | 7.12 |
| | | 216.3 | 35.3 | 4.16 | 38.3 | 4.98 | 41.7 | 5.81 | 45.4 | 6.54 | 46.7 | 6.69 | 48.6 | 6.87 | 49.9 | 6.95 |
| | | 259.5 | 35.3 | 4.09 | 38.3 | 4.93 | 41.7 | 5.75 | 45.4 | 6.48 | 46.7 | 6.63 | 48.6 | 6.80 | 49.9 | 6.87 |
| | 30 | 69.2 | 35.3 | 5.86 | 38.3 | 6.80 | 41.7 | 7.93 | 45.4 | 8.91 | 46.7 | 9.14 | 48.6 | 9.35 | 49.9 | 9.53 |
| | | 86.5 | 35.3 | 5.74 | 38.3 | 6.69 | 41.7 | 7.80 | 45.4 | 8.77 | 46.7 | 8.98 | 48.6 | 9.21 | 49.9 | 9.37 |
| | | 173.0 | 35.3 | 5.26 | 38.3 | 6.26 | 41.7 | 7.28 | 45.4 | 8.20 | 46.7 | 8.40 | 48.6 | 8.62 | 49.9 | 8.77 |
| | | 216.3 | 35.3 | 5.14 | 38.3 | 6.13 | 41.7 | 7.12 | 45.4 | 8.04 | 46.7 | 8.25 | 48.6 | 8.45 | 49.9 | 8.54 |
| | | 259.5 | 35.3 | 5.07 | 38.3 | 6.06 | 41.7 | 7.05 | 45.4 | 7.95 | 46.7 | 8.18 | 48.6 | 8.36 | 49.9 | 8.41 |
| | 35 | 69.2 | 34.4 | 6.32 | 37.3 | 7.33 | 40.6 | 8.54 | 44.1 | 9.62 | 45.4 | 9.85 | 47.2 | 10.08 | 48.6 | 10.28 |
| | | 86.5 | 34.4 | 6.20 | 37.3 | 7.21 | 40.6 | 8.40 | 44.1 | 9.46 | 45.4 | 9.69 | 47.2 | 9.92 | 48.6 | 10.11 |
| | | 173.0 | 34.4 | 5.70 | 37.3 | 6.75 | 40.6 | 7.86 | 44.1 | 8.86 | 45.4 | 9.05 | 47.2 | 9.30 | 48.6 | 9.46 |
| | | 216.3 | 34.4 | 5.53 | 37.3 | 6.61 | 40.6 | 7.69 | 44.1 | 8.68 | 45.4 | 8.91 | 47.2 | 9.12 | 48.6 | 9.21 |
| | | 259.5 | 34.4 | 5.44 | 37.3 | 6.53 | 40.6 | 7.60 | 44.1 | 8.59 | 45.4 | 8.82 | 47.2 | 9.03 | 48.6 | 9.07 |
| | 40 | 69.2 | 33.4 | 7.25 | 36.2 | 8.43 | 39.4 | 9.82 | 42.8 | 11.05 | 44.1 | 11.32 | 45.9 | 11.60 | 47.1 | 11.80 |
| | | 86.5 | 33.4 | 7.10 | 36.2 | 8.29 | 39.4 | 9.66 | 42.8 | 10.87 | 44.1 | 11.13 | 45.9 | 11.41 | 47.1 | 11.61 |
| | | 173.0 | 33.4 | 6.54 | 36.2 | 7.76 | 39.4 | 9.03 | 42.8 | 10.15 | 44.1 | 10.42 | 45.9 | 10.68 | 47.1 | 10.87 |
| | | 216.3 | 33.4 | 6.34 | 36.2 | 7.58 | 39.4 | 8.84 | 42.8 | 9.96 | 44.1 | 10.22 | 45.9 | 10.49 | 47.1 | 10.59 |
| | | 259.5 | 33.4 | 6.25 | 36.2 | 7.49 | 39.4 | 8.74 | 42.8 | 9.87 | 44.1 | 10.13 | 45.9 | 10.38 | 47.1 | 10.45 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 69.2 | 32.4 | 8.17 | 35.1 | 9.53 | 38.2 | 11.09 | 41.6 | 12.49 | 42.8 | 12.79 | 44.5 | 13.12 | 45.7 | 13.31 |
| | | 86.5 | 32.4 | 8.01 | 35.1 | 9.37 | 38.2 | 10.91 | 41.6 | 12.28 | 42.8 | 12.58 | 44.5 | 12.91 | 45.7 | 13.11 |
| | | 173.0 | 32.4 | 7.39 | 35.1 | 8.75 | 38.2 | 10.20 | 41.6 | 11.46 | 42.8 | 11.78 | 44.5 | 12.06 | 45.7 | 12.28 |
| | | 216.3 | 32.4 | 7.17 | 35.1 | 8.56 | 38.2 | 9.99 | 41.6 | 11.25 | 42.8 | 11.55 | 44.5 | 11.85 | 45.7 | 11.98 |
| | | 259.5 | 32.4 | 7.06 | 35.1 | 8.46 | 38.2 | 9.88 | 41.6 | 11.14 | 42.8 | 11.43 | 44.5 | 11.74 | 45.7 | 11.83 |
| 80 | 10 | 69.2 | 31.5 | 1.96 | 34.1 | 2.26 | 37.1 | 2.66 | 40.3 | 3.01 | 41.5 | 3.05 | 43.2 | 3.17 | 44.4 | 3.17 |
| | | 86.5 | 31.5 | 1.91 | 34.1 | 2.23 | 37.1 | 2.60 | 40.3 | 2.96 | 41.5 | 3.00 | 43.2 | 3.10 | 44.4 | 3.12 |
| | | 173.0 | 31.5 | 1.75 | 34.1 | 2.11 | 37.1 | 2.41 | 40.3 | 2.75 | 41.5 | 2.81 | 43.2 | 2.87 | 44.4 | 2.92 |
| | | 216.3 | 31.5 | 1.70 | 34.1 | 2.04 | 37.1 | 2.37 | 40.3 | 2.66 | 41.5 | 2.73 | 43.2 | 2.83 | 44.4 | 2.87 |
| | | 259.5 | 31.5 | 1.69 | 34.1 | 2.00 | 37.1 | 2.36 | 40.3 | 2.62 | 41.5 | 2.68 | 43.2 | 2.82 | 44.4 | 2.86 |
| | 15 | 69.2 | 31.5 | 2.66 | 34.1 | 3.08 | 37.1 | 3.59 | 40.3 | 4.05 | 41.5 | 4.14 | 43.2 | 4.25 | 44.4 | 4.32 |
| | | 86.5 | 31.5 | 2.60 | 34.1 | 3.03 | 37.1 | 3.53 | 40.3 | 3.99 | 41.5 | 4.07 | 43.2 | 4.18 | 44.4 | 4.25 |
| | | 173.0 | 31.5 | 2.39 | 34.1 | 2.84 | 37.1 | 3.29 | 40.3 | 3.72 | 41.5 | 3.81 | 43.2 | 3.90 | 44.4 | 3.97 |
| | | 216.3 | 31.5 | 2.32 | 34.1 | 2.78 | 37.1 | 3.23 | 40.3 | 3.63 | 41.5 | 3.72 | 43.2 | 3.83 | 44.4 | 3.88 |
| | | 259.5 | 31.5 | 2.29 | 34.1 | 2.74 | 37.1 | 3.19 | 40.3 | 3.60 | 41.5 | 3.68 | 43.2 | 3.81 | 44.4 | 3.83 |
| | 20 | 69.2 | 31.5 | 3.27 | 34.1 | 3.81 | 37.1 | 4.43 | 40.3 | 4.97 | 41.5 | 5.10 | 43.2 | 5.21 | 44.4 | 5.33 |
| | | 86.5 | 31.5 | 3.21 | 34.1 | 3.75 | 37.1 | 4.36 | 40.3 | 4.89 | 41.5 | 5.03 | 43.2 | 5.14 | 44.4 | 5.24 |
| | | 173.0 | 31.5 | 2.94 | 34.1 | 3.49 | 37.1 | 4.07 | 40.3 | 4.59 | 41.5 | 4.70 | 43.2 | 4.80 | 44.4 | 4.89 |
| | | 216.3 | 31.5 | 2.86 | 34.1 | 3.42 | 37.1 | 3.99 | 40.3 | 4.50 | 41.5 | 4.61 | 43.2 | 4.73 | 44.4 | 4.77 |
| | | 259.5 | 31.5 | 2.82 | 34.1 | 3.39 | 37.1 | 3.95 | 40.3 | 4.46 | 41.5 | 4.57 | 43.2 | 4.68 | 44.4 | 4.70 |
| | 25 | 69.2 | 31.5 | 3.97 | 34.1 | 4.62 | 37.1 | 5.40 | 40.3 | 6.08 | 41.5 | 6.23 | 43.2 | 6.38 | 44.4 | 6.50 |
| | | 86.5 | 31.5 | 3.90 | 34.1 | 4.55 | 37.1 | 5.31 | 40.3 | 5.97 | 41.5 | 6.13 | 43.2 | 6.29 | 44.4 | 6.39 |
| | | 173.0 | 31.5 | 3.60 | 34.1 | 4.27 | 37.1 | 4.96 | 40.3 | 5.58 | 41.5 | 5.72 | 43.2 | 5.87 | 44.4 | 5.97 |
| | | 216.3 | 31.5 | 3.49 | 34.1 | 4.18 | 37.1 | 4.87 | 40.3 | 5.48 | 41.5 | 5.61 | 43.2 | 5.76 | 44.4 | 5.83 |
| | | 259.5 | 31.5 | 3.44 | 34.1 | 4.14 | 37.1 | 4.83 | 40.3 | 5.42 | 41.5 | 5.56 | 43.2 | 5.71 | 44.4 | 5.75 |
| | 30 | 69.2 | 31.5 | 4.91 | 34.1 | 5.70 | 37.1 | 6.65 | 40.3 | 7.49 | 41.5 | 7.67 | 43.2 | 7.83 | 44.4 | 7.99 |
| | | 86.5 | 31.5 | 4.80 | 34.1 | 5.61 | 37.1 | 6.54 | 40.3 | 7.37 | 41.5 | 7.54 | 43.2 | 7.71 | 44.4 | 7.86 |
| | | 173.0 | 31.5 | 4.41 | 34.1 | 5.24 | 37.1 | 6.11 | 40.3 | 6.87 | 41.5 | 7.04 | 43.2 | 7.21 | 44.4 | 7.35 |
| | | 216.3 | 31.5 | 4.29 | 34.1 | 5.14 | 37.1 | 5.97 | 40.3 | 6.73 | 41.5 | 6.91 | 43.2 | 7.08 | 44.4 | 7.15 |
| | | 259.5 | 31.5 | 4.22 | 34.1 | 5.08 | 37.1 | 5.92 | 40.3 | 6.68 | 41.5 | 6.84 | 43.2 | 7.02 | 44.4 | 7.05 |
| | 35 | 69.2 | 31.5 | 5.46 | 34.1 | 6.34 | 37.1 | 7.37 | 40.3 | 8.29 | 41.5 | 8.50 | 43.2 | 8.72 | 44.4 | 8.87 |
| | | 86.5 | 31.5 | 5.35 | 34.1 | 6.24 | 37.1 | 7.26 | 40.3 | 8.17 | 41.5 | 8.36 | 43.2 | 8.58 | 44.4 | 8.73 |
| | | 173.0 | 31.5 | 4.92 | 34.1 | 5.83 | 37.1 | 6.78 | 40.3 | 7.65 | 41.5 | 7.81 | 43.2 | 8.01 | 44.4 | 8.17 |
| | | 216.3 | 31.5 | 4.78 | 34.1 | 5.70 | 37.1 | 6.65 | 40.3 | 7.49 | 41.5 | 7.67 | 43.2 | 7.88 | 44.4 | 7.95 |
| | | 259.5 | 31.5 | 4.73 | 34.1 | 5.63 | 37.1 | 6.59 | 40.3 | 7.42 | 41.5 | 7.60 | 43.2 | 7.82 | 44.4 | 7.84 |
| | 40 | 69.2 | 31.5 | 6.45 | 34.1 | 7.51 | 37.1 | 8.74 | 40.3 | 9.85 | 41.5 | 10.06 | 43.2 | 10.32 | 44.4 | 10.50 |
| | | 86.5 | 31.5 | 6.32 | 34.1 | 7.39 | 37.1 | 8.59 | 40.3 | 9.69 | 41.5 | 9.90 | 43.2 | 10.15 | 44.4 | 10.33 |
| | | 173.0 | 31.5 | 5.83 | 34.1 | 6.89 | 37.1 | 8.04 | 40.3 | 9.05 | 41.5 | 9.27 | 43.2 | 9.51 | 44.4 | 9.69 |
| | | 216.3 | 31.5 | 5.65 | 34.1 | 6.75 | 37.1 | 7.86 | 40.3 | 8.88 | 41.5 | 9.10 | 43.2 | 9.32 | 44.4 | 9.42 |
| | | 259.5 | 31.5 | 5.56 | 34.1 | 6.69 | 37.1 | 7.78 | 40.3 | 8.79 | 41.5 | 9.01 | 43.2 | 9.21 | 44.4 | 9.30 |
| | 45 | 69.2 | 31.5 | 7.44 | 34.1 | 8.68 | 37.1 | 10.10 | 40.3 | 11.39 | 41.5 | 11.62 | 43.2 | 11.92 | 44.4 | 12.12 |
| | | 86.5 | 31.5 | 7.30 | 34.1 | 8.54 | 37.1 | 9.94 | 40.3 | 11.20 | 41.5 | 11.44 | 43.2 | 11.74 | 44.4 | 11.94 |
| | | 173.0 | 31.5 | 6.73 | 34.1 | 7.95 | 37.1 | 9.30 | 40.3 | 10.47 | 41.5 | 10.72 | 43.2 | 11.00 | 44.4 | 11.20 |
| | | 216.3 | 31.5 | 6.52 | 34.1 | 7.81 | 37.1 | 9.07 | 40.3 | 10.27 | 41.5 | 10.52 | 43.2 | 10.74 | 44.4 | 10.89 |
| | | 259.5 | 31.5 | 6.41 | 34.1 | 7.76 | 37.1 | 8.96 | 40.3 | 10.17 | 41.5 | 10.43 | 43.2 | 10.61 | 44.4 | 10.75 |
| 70 | 10 | 69.2 | 27.5 | 1.63 | 29.9 | 1.88 | 32.4 | 2.23 | 35.3 | 2.50 | 36.3 | 2.51 | 37.8 | 2.60 | 38.7 | 2.64 |
| | | 86.5 | 27.5 | 1.61 | 29.9 | 1.86 | 32.4 | 2.19 | 35.3 | 2.46 | 36.3 | 2.48 | 37.8 | 2.57 | 38.7 | 2.60 |
| | | 173.0 | 27.5 | 1.48 | 29.9 | 1.75 | 32.4 | 2.04 | 35.3 | 2.29 | 36.3 | 2.34 | 37.8 | 2.39 | 38.7 | 2.46 |
| | | 216.3 | 27.5 | 1.42 | 29.9 | 1.68 | 32.4 | 1.98 | 35.3 | 2.23 | 36.3 | 2.27 | 37.8 | 2.36 | 38.7 | 2.39 |
| | | 259.5 | 27.5 | 1.38 | 29.9 | 1.65 | 32.4 | 1.95 | 35.3 | 2.20 | 36.3 | 2.23 | 37.8 | 2.34 | 38.7 | 2.37 |
| | 15 | 69.2 | 27.5 | 2.21 | 29.9 | 2.55 | 32.4 | 2.99 | 35.3 | 3.37 | 36.3 | 3.44 | 37.8 | 3.52 | 38.7 | 3.58 |
| | | 86.5 | 27.5 | 2.16 | 29.9 | 2.51 | 32.4 | 2.94 | 35.3 | 3.31 | 36.3 | 3.38 | 37.8 | 3.47 | 38.7 | 3.53 |
| | | 173.0 | 27.5 | 1.99 | 29.9 | 2.36 | 32.4 | 2.75 | 35.3 | 3.10 | 36.3 | 3.17 | 37.8 | 3.24 | 38.7 | 3.31 |
| | | 216.3 | 27.5 | 1.93 | 29.9 | 2.30 | 32.4 | 2.69 | 35.3 | 3.03 | 36.3 | 3.10 | 37.8 | 3.19 | 38.7 | 3.23 |
| | | 259.5 | 27.5 | 1.90 | 29.9 | 2.27 | 32.4 | 2.66 | 35.3 | 3.00 | 36.3 | 3.06 | 37.8 | 3.15 | 38.7 | 3.19 |
| | 20 | 69.2 | 27.5 | 2.71 | 29.9 | 3.15 | 32.4 | 3.68 | 35.3 | 4.14 | 36.3 | 4.25 | 37.8 | 4.34 | 38.7 | 4.43 |
| | | 86.5 | 27.5 | 2.66 | 29.9 | 3.10 | 32.4 | 3.62 | 35.3 | 4.07 | 36.3 | 4.18 | 37.8 | 4.27 | 38.7 | 4.36 |
| | | 173.0 | 27.5 | 2.45 | 29.9 | 2.90 | 32.4 | 3.38 | 35.3 | 3.81 | 36.3 | 3.90 | 37.8 | 4.00 | 38.7 | 4.07 |
| | | 216.3 | 27.5 | 2.39 | 29.9 | 2.84 | 32.4 | 3.31 | 35.3 | 3.75 | 36.3 | 3.83 | 37.8 | 3.92 | 38.7 | 3.97 |
| | | 259.5 | 27.5 | 2.35 | 29.9 | 2.80 | 32.4 | 3.28 | 35.3 | 3.72 | 36.3 | 3.81 | 37.8 | 3.88 | 38.7 | 3.91 |
| | 25 | 69.2 | 27.5 | 3.31 | 29.9 | 3.85 | 32.4 | 4.49 | 35.3 | 5.07 | 36.3 | 5.17 | 37.8 | 5.31 | 38.7 | 5.40 |
| | | 86.5 | 27.5 | 3.24 | 29.9 | 3.79 | 32.4 | 4.41 | 35.3 | 4.98 | 36.3 | 5.09 | 37.8 | 5.22 | 38.7 | 5.31 |
| | | 173.0 | 27.5 | 2.99 | 29.9 | 3.56 | 32.4 | 4.14 | 35.3 | 4.66 | 36.3 | 4.77 | 37.8 | 4.87 | 38.7 | 4.96 |
| | | 216.3 | 27.5 | 2.90 | 29.9 | 3.47 | 32.4 | 4.05 | 35.3 | 4.55 | 36.3 | 4.68 | 37.8 | 4.78 | 38.7 | 4.83 |
| | | 259.5 | 27.5 | 2.86 | 29.9 | 3.42 | 32.4 | 4.00 | 35.3 | 4.50 | 36.3 | 4.64 | 37.8 | 4.75 | 38.7 | 4.77 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 69.2 | 27.5 | 4.09 | 29.9 | 4.73 | 32.4 | 5.53 | 35.3 | 6.20 | 36.3 | 6.36 | 37.8 | 6.52 | 38.7 | 6.62 |
| | | 86.5 | 27.5 | 4.00 | 29.9 | 4.66 | 32.4 | 5.44 | 35.3 | 6.11 | 36.3 | 6.26 | 37.8 | 6.41 | 38.7 | 6.52 |
| | | 173.0 | 27.5 | 3.68 | 29.9 | 4.36 | 32.4 | 5.07 | 35.3 | 5.72 | 36.3 | 5.85 | 37.8 | 6.00 | 38.7 | 6.11 |
| | | 216.3 | 27.5 | 3.58 | 29.9 | 4.27 | 32.4 | 4.98 | 35.3 | 5.61 | 36.3 | 5.74 | 37.8 | 5.90 | 38.7 | 5.95 |
| | | 259.5 | 27.5 | 3.52 | 29.9 | 4.22 | 32.4 | 4.94 | 35.3 | 5.56 | 36.3 | 5.69 | 37.8 | 5.84 | 38.7 | 5.88 |
| | 35 | 69.2 | 27.5 | 4.53 | 29.9 | 5.26 | 32.4 | 6.15 | 35.3 | 6.91 | 36.3 | 7.07 | 37.8 | 7.24 | 38.7 | 7.37 |
| | | 86.5 | 27.5 | 4.44 | 29.9 | 5.17 | 32.4 | 6.04 | 35.3 | 6.80 | 36.3 | 6.95 | 37.8 | 7.12 | 38.7 | 7.26 |
| | | 173.0 | 27.5 | 4.09 | 29.9 | 4.85 | 32.4 | 5.63 | 35.3 | 6.34 | 36.3 | 6.50 | 37.8 | 6.68 | 38.7 | 6.80 |
| | | 216.3 | 27.5 | 3.97 | 29.9 | 4.75 | 32.4 | 5.53 | 35.3 | 6.24 | 36.3 | 6.39 | 37.8 | 6.54 | 38.7 | 6.61 |
| | | 259.5 | 27.5 | 3.90 | 29.9 | 4.69 | 32.4 | 5.47 | 35.3 | 6.18 | 36.3 | 6.34 | 37.8 | 6.48 | 38.7 | 6.50 |
| | 40 | 69.2 | 27.5 | 5.37 | 29.9 | 6.23 | 32.4 | 7.26 | 35.3 | 8.17 | 36.3 | 8.36 | 37.8 | 8.59 | 38.7 | 8.74 |
| | | 86.5 | 27.5 | 5.26 | 29.9 | 6.13 | 32.4 | 7.15 | 35.3 | 8.04 | 36.3 | 8.23 | 37.8 | 8.45 | 38.7 | 8.59 |
| | | 173.0 | 27.5 | 4.83 | 29.9 | 5.74 | 32.4 | 6.68 | 35.3 | 7.51 | 36.3 | 7.71 | 37.8 | 7.90 | 38.7 | 8.04 |
| | | 216.3 | 27.5 | 4.70 | 29.9 | 5.61 | 32.4 | 6.54 | 35.3 | 7.39 | 36.3 | 7.56 | 37.8 | 7.76 | 38.7 | 7.84 |
| | | 259.5 | 27.5 | 4.64 | 29.9 | 5.54 | 32.4 | 6.48 | 35.3 | 7.32 | 36.3 | 7.48 | 37.8 | 7.67 | 38.7 | 7.74 |
| | 45 | 69.2 | 27.5 | 6.22 | 29.9 | 7.19 | 32.4 | 8.39 | 35.3 | 9.42 | 36.3 | 9.65 | 37.8 | 9.92 | 38.7 | 10.11 |
| | | 86.5 | 27.5 | 6.09 | 29.9 | 7.08 | 32.4 | 8.25 | 35.3 | 9.27 | 36.3 | 9.51 | 37.8 | 9.76 | 38.7 | 9.94 |
| | | 173.0 | 27.5 | 5.56 | 29.9 | 6.63 | 32.4 | 7.71 | 35.3 | 8.68 | 36.3 | 8.93 | 37.8 | 9.14 | 38.7 | 9.27 |
| | | 216.3 | 27.5 | 5.44 | 29.9 | 6.48 | 32.4 | 7.56 | 35.3 | 8.54 | 36.3 | 8.73 | 37.8 | 8.96 | 38.7 | 9.07 |
| | | 259.5 | 27.5 | 5.37 | 29.9 | 6.40 | 32.4 | 7.48 | 35.3 | 8.45 | 36.3 | 8.63 | 37.8 | 8.88 | 38.7 | 8.98 |
| 60 | 10 | 69.2 | 23.6 | 1.33 | 25.6 | 1.53 | 27.8 | 1.76 | 30.2 | 1.99 | 31.1 | 2.04 | 32.4 | 2.11 | 33.3 | 2.11 |
| | | 86.5 | 23.6 | 1.29 | 25.6 | 1.50 | 27.8 | 1.73 | 30.2 | 1.96 | 31.1 | 2.00 | 32.4 | 2.07 | 33.3 | 2.09 |
| | | 173.0 | 23.6 | 1.17 | 25.6 | 1.40 | 27.8 | 1.60 | 30.2 | 1.84 | 31.1 | 1.83 | 32.4 | 1.90 | 33.3 | 1.96 |
| | | 216.3 | 23.6 | 1.12 | 25.6 | 1.35 | 27.8 | 1.58 | 30.2 | 1.79 | 31.1 | 1.81 | 32.4 | 1.86 | 33.3 | 1.88 |
| | | 259.5 | 23.6 | 1.10 | 25.6 | 1.33 | 27.8 | 1.58 | 30.2 | 1.77 | 31.1 | 1.80 | 32.4 | 1.83 | 33.3 | 1.83 |
| | 15 | 69.2 | 23.6 | 1.77 | 25.6 | 2.05 | 27.8 | 2.38 | 30.2 | 2.69 | 31.1 | 2.76 | 32.4 | 2.82 | 33.3 | 2.86 |
| | | 86.5 | 23.6 | 1.73 | 25.6 | 2.02 | 27.8 | 2.34 | 30.2 | 2.64 | 31.1 | 2.71 | 32.4 | 2.78 | 33.3 | 2.82 |
| | | 173.0 | 23.6 | 1.58 | 25.6 | 1.88 | 27.8 | 2.18 | 30.2 | 2.47 | 31.1 | 2.51 | 32.4 | 2.58 | 33.3 | 2.64 |
| | | 216.3 | 23.6 | 1.54 | 25.6 | 1.84 | 27.8 | 2.14 | 30.2 | 2.43 | 31.1 | 2.47 | 32.4 | 2.53 | 33.3 | 2.55 |
| | | 259.5 | 23.6 | 1.52 | 25.6 | 1.82 | 27.8 | 2.12 | 30.2 | 2.41 | 31.1 | 2.45 | 32.4 | 2.51 | 33.3 | 2.51 |
| | 20 | 69.2 | 23.6 | 2.16 | 25.6 | 2.51 | 27.8 | 2.92 | 30.2 | 3.30 | 31.1 | 3.39 | 32.4 | 3.45 | 33.3 | 3.52 |
| | | 86.5 | 23.6 | 2.12 | 25.6 | 2.47 | 27.8 | 2.88 | 30.2 | 3.24 | 31.1 | 3.33 | 32.4 | 3.40 | 33.3 | 3.47 |
| | | 173.0 | 23.6 | 1.95 | 25.6 | 2.32 | 27.8 | 2.71 | 30.2 | 3.03 | 31.1 | 3.12 | 32.4 | 3.19 | 33.3 | 3.24 |
| | | 216.3 | 23.6 | 1.91 | 25.6 | 2.27 | 27.8 | 2.64 | 30.2 | 2.99 | 31.1 | 3.05 | 32.4 | 3.14 | 33.3 | 3.17 |
| | | 259.5 | 23.6 | 1.88 | 25.6 | 2.25 | 27.8 | 2.61 | 30.2 | 2.97 | 31.1 | 3.03 | 32.4 | 3.12 | 33.3 | 3.12 |
| | 25 | 69.2 | 23.6 | 2.66 | 25.6 | 3.06 | 27.8 | 3.56 | 30.2 | 4.02 | 31.1 | 4.11 | 32.4 | 4.22 | 33.3 | 4.29 |
| | | 86.5 | 23.6 | 2.60 | 25.6 | 3.01 | 27.8 | 3.51 | 30.2 | 3.97 | 31.1 | 4.05 | 32.4 | 4.16 | 33.3 | 4.22 |
| | | 173.0 | 23.6 | 2.39 | 25.6 | 2.82 | 27.8 | 3.29 | 30.2 | 3.70 | 31.1 | 3.79 | 32.4 | 3.90 | 33.3 | 3.97 |
| | | 216.3 | 23.6 | 2.32 | 25.6 | 2.78 | 27.8 | 3.23 | 30.2 | 3.63 | 31.1 | 3.72 | 32.4 | 3.81 | 33.3 | 3.86 |
| | | 259.5 | 23.6 | 2.29 | 25.6 | 2.75 | 27.8 | 3.19 | 30.2 | 3.61 | 31.1 | 3.69 | 32.4 | 3.77 | 33.3 | 3.81 |
| | 30 | 69.2 | 23.6 | 3.25 | 25.6 | 3.79 | 27.8 | 4.41 | 30.2 | 4.96 | 31.1 | 5.07 | 32.4 | 5.19 | 33.3 | 5.28 |
| | | 86.5 | 23.6 | 3.19 | 25.6 | 3.72 | 27.8 | 4.34 | 30.2 | 4.87 | 31.1 | 4.98 | 32.4 | 5.12 | 33.3 | 5.19 |
| | | 173.0 | 23.6 | 2.92 | 25.6 | 3.47 | 27.8 | 4.05 | 30.2 | 4.55 | 31.1 | 4.66 | 32.4 | 4.78 | 33.3 | 4.87 |
| | | 216.3 | 23.6 | 2.86 | 25.6 | 3.40 | 27.8 | 3.97 | 30.2 | 4.46 | 31.1 | 4.57 | 32.4 | 4.70 | 33.3 | 4.75 |
| | | 259.5 | 23.6 | 2.83 | 25.6 | 3.37 | 27.8 | 3.92 | 30.2 | 4.41 | 31.1 | 4.53 | 32.4 | 4.66 | 33.3 | 4.68 |
| | 35 | 69.2 | 23.6 | 3.60 | 25.6 | 4.21 | 27.8 | 4.89 | 30.2 | 5.51 | 31.1 | 5.64 | 32.4 | 5.76 | 33.3 | 5.88 |
| | | 86.5 | 23.6 | 3.53 | 25.6 | 4.14 | 27.8 | 4.80 | 30.2 | 5.42 | 31.1 | 5.54 | 32.4 | 5.67 | 33.3 | 5.78 |
| | | 173.0 | 23.6 | 3.24 | 25.6 | 3.86 | 27.8 | 4.50 | 30.2 | 5.07 | 31.1 | 5.17 | 32.4 | 5.33 | 33.3 | 5.42 |
| | | 216.3 | 23.6 | 3.17 | 25.6 | 3.77 | 27.8 | 4.39 | 30.2 | 4.96 | 31.1 | 5.09 | 32.4 | 5.22 | 33.3 | 5.26 |
| | | 259.5 | 23.6 | 3.12 | 25.6 | 3.72 | 27.8 | 4.34 | 30.2 | 4.91 | 31.1 | 5.05 | 32.4 | 5.17 | 33.3 | 5.19 |
| | 40 | 69.2 | 23.6 | 4.29 | 25.6 | 4.98 | 27.8 | 5.79 | 30.2 | 6.52 | 31.1 | 6.68 | 32.4 | 6.84 | 33.3 | 6.96 |
| | | 86.5 | 23.6 | 4.20 | 25.6 | 4.89 | 27.8 | 5.70 | 30.2 | 6.41 | 31.1 | 6.56 | 32.4 | 6.73 | 33.3 | 6.84 |
| | | 173.0 | 23.6 | 3.86 | 25.6 | 4.57 | 27.8 | 5.33 | 30.2 | 6.00 | 31.1 | 6.13 | 32.4 | 6.30 | 33.3 | 6.41 |
| | | 216.3 | 23.6 | 3.75 | 25.6 | 4.48 | 27.8 | 5.22 | 30.2 | 5.87 | 31.1 | 6.02 | 32.4 | 6.17 | 33.3 | 6.24 |
| | | 259.5 | 23.6 | 3.69 | 25.6 | 4.44 | 27.8 | 5.17 | 30.2 | 5.81 | 31.1 | 5.97 | 32.4 | 6.11 | 33.3 | 6.15 |
| | 45 | 69.2 | 23.6 | 4.98 | 25.6 | 5.74 | 27.8 | 6.69 | 30.2 | 7.53 | 31.1 | 7.71 | 32.4 | 7.93 | 33.3 | 8.03 |
| | | 86.5 | 23.6 | 4.87 | 25.6 | 5.65 | 27.8 | 6.59 | 30.2 | 7.41 | 31.1 | 7.58 | 32.4 | 7.80 | 33.3 | 7.90 |
| | | 173.0 | 23.6 | 4.46 | 25.6 | 5.28 | 27.8 | 6.15 | 30.2 | 6.93 | 31.1 | 7.08 | 32.4 | 7.28 | 33.3 | 7.41 |
| | | 216.3 | 23.6 | 4.34 | 25.6 | 5.19 | 27.8 | 6.04 | 30.2 | 6.78 | 31.1 | 6.95 | 32.4 | 7.12 | 33.3 | 7.21 |
| | | 259.5 | 23.6 | 4.27 | 25.6 | 5.15 | 27.8 | 5.99 | 30.2 | 6.70 | 31.1 | 6.89 | 32.4 | 7.05 | 33.3 | 7.12 |
| 50 | 10 | 69.2 | 19.6 | 0.94 | 21.3 | 1.12 | 23.2 | 1.35 | 25.2 | 1.49 | 25.9 | 1.50 | 27.0 | 1.54 | 27.7 | 1.59 |
| | | 86.5 | 19.6 | 0.94 | 21.3 | 1.10 | 23.2 | 1.31 | 25.2 | 1.46 | 25.9 | 1.47 | 27.0 | 1.52 | 27.7 | 1.56 |
| | | 173.0 | 19.6 | 0.90 | 21.3 | 1.04 | 23.2 | 1.19 | 25.2 | 1.35 | 25.9 | 1.40 | 27.0 | 1.42 | 27.7 | 1.46 |
| | | 216.3 | 19.6 | 0.85 | 21.3 | 1.00 | 23.2 | 1.19 | 25.2 | 1.31 | 25.9 | 1.35 | 27.0 | 1.37 | 27.7 | 1.40 |
| | | 259.5 | 19.6 | 0.83 | 21.3 | 0.98 | 23.2 | 1.19 | 25.2 | 1.29 | 25.9 | 1.33 | 27.0 | 1.35 | 27.7 | 1.36 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 69.2 | 19.6 | 1.30 | 21.3 | 1.52 | 23.2 | 1.79 | 25.2 | 2.00 | 25.9 | 2.05 | 27.0 | 2.09 | 27.7 | 2.13 |
| | | 86.5 | 19.6 | 1.28 | 21.3 | 1.49 | 23.2 | 1.75 | 25.2 | 1.97 | 25.9 | 2.02 | 27.0 | 2.06 | 27.7 | 2.10 |
| | | 173.0 | 19.6 | 1.19 | 21.3 | 1.40 | 23.2 | 1.63 | 25.2 | 1.84 | 25.9 | 1.88 | 27.0 | 1.93 | 27.7 | 1.97 |
| | | 216.3 | 19.6 | 1.15 | 21.3 | 1.36 | 23.2 | 1.60 | 25.2 | 1.79 | 25.9 | 1.84 | 27.0 | 1.88 | 27.7 | 1.91 |
| | | 259.5 | 19.6 | 1.13 | 21.3 | 1.34 | 23.2 | 1.59 | 25.2 | 1.77 | 25.9 | 1.82 | 27.0 | 1.86 | 27.7 | 1.88 |
| | 20 | 69.2 | 19.6 | 1.61 | 21.3 | 1.86 | 23.2 | 2.18 | 25.2 | 2.46 | 25.9 | 2.53 | 27.0 | 2.57 | 27.7 | 2.62 |
| | | 86.5 | 19.6 | 1.58 | 21.3 | 1.84 | 23.2 | 2.14 | 25.2 | 2.43 | 25.9 | 2.49 | 27.0 | 2.53 | 27.7 | 2.58 |
| | | 173.0 | 19.6 | 1.45 | 21.3 | 1.73 | 23.2 | 2.02 | 25.2 | 2.27 | 25.9 | 2.32 | 27.0 | 2.39 | 27.7 | 2.43 |
| | | 216.3 | 19.6 | 1.40 | 21.3 | 1.69 | 23.2 | 1.97 | 25.2 | 2.23 | 25.9 | 2.27 | 27.0 | 2.34 | 27.7 | 2.36 |
| | | 259.5 | 19.6 | 1.38 | 21.3 | 1.67 | 23.2 | 1.95 | 25.2 | 2.21 | 25.9 | 2.25 | 27.0 | 2.32 | 27.7 | 2.32 |
| | 25 | 69.2 | 19.6 | 1.97 | 21.3 | 2.29 | 23.2 | 2.66 | 25.2 | 2.99 | 25.9 | 3.08 | 27.0 | 3.15 | 27.7 | 3.22 |
| | | 86.5 | 19.6 | 1.93 | 21.3 | 2.25 | 23.2 | 2.62 | 25.2 | 2.94 | 25.9 | 3.03 | 27.0 | 3.10 | 27.7 | 3.17 |
| | | 173.0 | 19.6 | 1.77 | 21.3 | 2.10 | 23.2 | 2.45 | 25.2 | 2.78 | 25.9 | 2.84 | 27.0 | 2.90 | 27.7 | 2.94 |
| | | 216.3 | 19.6 | 1.73 | 21.3 | 2.06 | 23.2 | 2.41 | 25.2 | 2.71 | 25.9 | 2.78 | 27.0 | 2.84 | 27.7 | 2.88 |
| | | 259.5 | 19.6 | 1.72 | 21.3 | 2.04 | 23.2 | 2.39 | 25.2 | 2.67 | 25.9 | 2.74 | 27.0 | 2.80 | 27.7 | 2.85 |
| | 30 | 69.2 | 19.6 | 2.43 | 21.3 | 2.82 | 23.2 | 3.28 | 25.2 | 3.70 | 25.9 | 3.79 | 27.0 | 3.88 | 27.7 | 3.93 |
| | | 86.5 | 19.6 | 2.39 | 21.3 | 2.78 | 23.2 | 3.23 | 25.2 | 3.63 | 25.9 | 3.72 | 27.0 | 3.81 | 27.7 | 3.88 |
| | | 173.0 | 19.6 | 2.18 | 21.3 | 2.60 | 23.2 | 3.01 | 25.2 | 3.40 | 25.9 | 3.49 | 27.0 | 3.58 | 27.7 | 3.63 |
| | | 216.3 | 19.6 | 2.12 | 21.3 | 2.53 | 23.2 | 2.94 | 25.2 | 3.33 | 25.9 | 3.42 | 27.0 | 3.51 | 27.7 | 3.53 |
| | | 259.5 | 19.6 | 2.09 | 21.3 | 2.50 | 23.2 | 2.91 | 25.2 | 3.30 | 25.9 | 3.39 | 27.0 | 3.47 | 27.7 | 3.47 |
| | 35 | 69.2 | 19.6 | 2.69 | 21.3 | 3.12 | 23.2 | 3.65 | 25.2 | 4.09 | 25.9 | 4.21 | 27.0 | 4.32 | 27.7 | 4.38 |
| | | 86.5 | 19.6 | 2.64 | 21.3 | 3.08 | 23.2 | 3.60 | 25.2 | 4.02 | 25.9 | 4.14 | 27.0 | 4.25 | 27.7 | 4.31 |
| | | 173.0 | 19.6 | 2.43 | 21.3 | 2.88 | 23.2 | 3.36 | 25.2 | 3.77 | 25.9 | 3.86 | 27.0 | 3.97 | 27.7 | 4.02 |
| | | 216.3 | 19.6 | 2.36 | 21.3 | 2.82 | 23.2 | 3.29 | 25.2 | 3.70 | 25.9 | 3.79 | 27.0 | 3.90 | 27.7 | 3.92 |
| | | 259.5 | 19.6 | 2.32 | 21.3 | 2.78 | 23.2 | 3.26 | 25.2 | 3.67 | 25.9 | 3.76 | 27.0 | 3.86 | 27.7 | 3.86 |
| | 40 | 69.2 | 19.6 | 3.17 | 21.3 | 3.70 | 23.2 | 4.32 | 25.2 | 4.87 | 25.9 | 4.98 | 27.0 | 5.10 | 27.7 | 5.19 |
| | | 86.5 | 19.6 | 3.12 | 21.3 | 3.63 | 23.2 | 4.25 | 25.2 | 4.78 | 25.9 | 4.89 | 27.0 | 5.03 | 27.7 | 5.12 |
| | | 173.0 | 19.6 | 2.88 | 21.3 | 3.40 | 23.2 | 3.97 | 25.2 | 4.46 | 25.9 | 4.57 | 27.0 | 4.70 | 27.7 | 4.78 |
| | | 216.3 | 19.6 | 2.80 | 21.3 | 3.33 | 23.2 | 3.90 | 25.2 | 4.38 | 25.9 | 4.48 | 27.0 | 4.61 | 27.7 | 4.66 |
| | | 259.5 | 19.6 | 2.75 | 21.3 | 3.30 | 23.2 | 3.86 | 25.2 | 4.34 | 25.9 | 4.44 | 27.0 | 4.57 | 27.7 | 4.59 |
| | 45 | 69.2 | 19.6 | 3.66 | 21.3 | 4.27 | 23.2 | 4.98 | 25.2 | 5.65 | 25.9 | 5.74 | 27.0 | 5.90 | 27.7 | 6.01 |
| | | 86.5 | 19.6 | 3.60 | 21.3 | 4.20 | 23.2 | 4.89 | 25.2 | 5.54 | 25.9 | 5.65 | 27.0 | 5.81 | 27.7 | 5.91 |
| | | 173.0 | 19.6 | 3.33 | 21.3 | 3.92 | 23.2 | 4.57 | 25.2 | 5.15 | 25.9 | 5.28 | 27.0 | 5.44 | 27.7 | 5.54 |
| | | 216.3 | 19.6 | 3.23 | 21.3 | 3.86 | 23.2 | 4.50 | 25.2 | 5.05 | 25.9 | 5.17 | 27.0 | 5.33 | 27.7 | 5.39 |
| | | 259.5 | 19.6 | 3.17 | 21.3 | 3.82 | 23.2 | 4.48 | 25.2 | 4.99 | 25.9 | 5.12 | 27.0 | 5.28 | 27.7 | 5.32 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

Cooling Capacity(20HP)

## ARWN200BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 77.2 | 52.0 | 3.60 | 56.4 | 4.22 | 61.4 | 4.92 | 66.6 | 5.54 | 68.6 | 5.70 | 71.4 | 5.80 | 73.4 | 5.86 |
| | | 96.5 | 52.0 | 3.54 | 56.4 | 4.16 | 61.4 | 4.84 | 66.6 | 5.46 | 68.6 | 5.60 | 71.4 | 5.72 | 73.4 | 5.78 |
| | | 193.0 | 52.0 | 3.28 | 56.4 | 3.90 | 61.4 | 4.54 | 66.6 | 5.10 | 68.6 | 5.20 | 71.4 | 5.36 | 73.4 | 5.48 |
| | | 241.3 | 52.0 | 3.20 | 56.4 | 3.80 | 61.4 | 4.44 | 66.6 | 4.98 | 68.6 | 5.12 | 71.4 | 5.24 | 73.4 | 5.34 |
| | | 289.5 | 52.0 | 3.14 | 56.4 | 3.76 | 61.4 | 4.40 | 66.6 | 4.92 | 68.6 | 5.10 | 71.4 | 5.18 | 73.4 | 5.26 |
| | 15 | 77.2 | 51.2 | 4.76 | 55.4 | 5.54 | 60.4 | 6.46 | 65.6 | 7.28 | 67.6 | 7.46 | 70.2 | 7.62 | 72.2 | 7.74 |
| | | 96.5 | 51.2 | 4.68 | 55.4 | 5.46 | 60.4 | 6.36 | 65.6 | 7.16 | 67.6 | 7.34 | 70.2 | 7.50 | 72.2 | 7.62 |
| | | 193.0 | 51.2 | 4.30 | 55.4 | 5.12 | 60.4 | 5.94 | 65.6 | 6.70 | 67.6 | 6.84 | 70.2 | 7.04 | 72.2 | 7.18 |
| | | 241.3 | 51.2 | 4.18 | 55.4 | 4.98 | 60.4 | 5.82 | 65.6 | 6.56 | 67.6 | 6.72 | 70.2 | 6.90 | 72.2 | 7.02 |
| | | 289.5 | 51.2 | 4.12 | 55.4 | 4.92 | 60.4 | 5.76 | 65.6 | 6.48 | 67.6 | 6.66 | 70.2 | 6.82 | 72.2 | 6.94 |
| | 20 | 77.2 | 50.4 | 5.80 | 54.6 | 6.70 | 59.6 | 7.84 | 64.8 | 8.82 | 66.6 | 9.02 | 69.2 | 9.24 | 71.2 | 9.42 |
| | | 96.5 | 50.4 | 5.68 | 54.6 | 6.60 | 59.6 | 7.70 | 64.8 | 8.68 | 66.6 | 8.88 | 69.2 | 9.10 | 71.2 | 9.26 |
| | | 193.0 | 50.4 | 5.20 | 54.6 | 6.18 | 59.6 | 7.18 | 64.8 | 8.12 | 66.6 | 8.32 | 69.2 | 8.54 | 71.2 | 8.70 |
| | | 241.3 | 50.4 | 5.06 | 54.6 | 6.04 | 59.6 | 7.04 | 64.8 | 7.94 | 66.6 | 8.14 | 69.2 | 8.36 | 71.2 | 8.52 |
| | | 289.5 | 50.4 | 4.98 | 54.6 | 5.96 | 59.6 | 6.96 | 64.8 | 7.86 | 66.6 | 8.06 | 69.2 | 8.28 | 71.2 | 8.42 |
| | 25 | 77.2 | 50.4 | 7.14 | 54.6 | 8.28 | 59.6 | 9.64 | 64.8 | 10.86 | 66.6 | 11.14 | 69.2 | 11.40 | 71.2 | 11.60 |
| | | 96.5 | 50.4 | 7.00 | 54.6 | 8.14 | 59.6 | 9.48 | 64.8 | 10.68 | 66.6 | 10.96 | 69.2 | 11.22 | 71.2 | 11.42 |
| | | 193.0 | 50.4 | 6.44 | 54.6 | 7.62 | 59.6 | 8.88 | 64.8 | 10.00 | 66.6 | 10.24 | 69.2 | 10.52 | 71.2 | 10.74 |
| | | 241.3 | 50.4 | 6.26 | 54.6 | 7.46 | 59.6 | 8.70 | 64.8 | 9.80 | 66.6 | 10.06 | 69.2 | 10.32 | 71.2 | 10.50 |
| | | 289.5 | 50.4 | 6.18 | 54.6 | 7.38 | 59.6 | 8.62 | 64.8 | 9.70 | 66.6 | 9.96 | 69.2 | 10.22 | 71.2 | 10.36 |
| | 30 | 77.2 | 50.4 | 8.56 | 54.6 | 9.94 | 59.6 | 11.58 | 64.8 | 13.04 | 66.6 | 13.34 | 69.2 | 13.70 | 71.2 | 13.90 |
| | | 96.5 | 50.4 | 8.38 | 54.6 | 9.78 | 59.6 | 11.40 | 64.8 | 12.84 | 66.6 | 13.14 | 69.2 | 13.48 | 71.2 | 13.70 |
| | | 193.0 | 50.4 | 7.70 | 54.6 | 9.14 | 59.6 | 10.66 | 64.8 | 12.00 | 66.6 | 12.30 | 69.2 | 12.62 | 71.2 | 12.88 |
| | | 241.3 | 50.4 | 7.50 | 54.6 | 8.96 | 59.6 | 10.44 | 64.8 | 11.76 | 66.6 | 12.08 | 69.2 | 12.38 | 71.2 | 12.60 |
| | | 289.5 | 50.4 | 7.42 | 54.6 | 8.86 | 59.6 | 10.34 | 64.8 | 11.64 | 66.6 | 11.98 | 69.2 | 12.26 | 71.2 | 12.44 |
| | 35 | 77.2 | 45.4 | 8.66 | 49.2 | 10.08 | 53.6 | 11.70 | 58.2 | 13.20 | 60.0 | 13.48 | 62.4 | 13.84 | 64.0 | 14.08 |
| | | 96.5 | 45.4 | 8.48 | 49.2 | 9.90 | 53.6 | 11.52 | 58.2 | 12.98 | 60.0 | 13.28 | 62.4 | 13.62 | 64.0 | 13.86 |
| | | 193.0 | 45.4 | 7.80 | 49.2 | 9.24 | 53.6 | 10.78 | 58.2 | 12.12 | 60.0 | 12.44 | 62.4 | 12.76 | 64.0 | 13.00 |
| | | 241.3 | 45.4 | 7.58 | 49.2 | 9.04 | 53.6 | 10.56 | 58.2 | 11.88 | 60.0 | 12.20 | 62.4 | 12.52 | 64.0 | 12.74 |
| | | 289.5 | 45.4 | 7.48 | 49.2 | 8.96 | 53.6 | 10.46 | 58.2 | 11.76 | 60.0 | 12.08 | 62.4 | 12.40 | 64.0 | 12.60 |
| | 40 | 77.2 | 40.4 | 9.14 | 43.8 | 10.62 | 47.6 | 12.36 | 51.8 | 13.92 | 53.2 | 14.24 | 55.4 | 14.58 | 57.0 | 14.84 |
| | | 96.5 | 40.4 | 8.96 | 43.8 | 10.44 | 47.6 | 12.16 | 51.8 | 13.70 | 53.2 | 14.02 | 55.4 | 14.36 | 57.0 | 14.62 |
| | | 193.0 | 40.4 | 8.22 | 43.8 | 9.76 | 47.6 | 11.38 | 51.8 | 12.78 | 53.2 | 13.10 | 55.4 | 13.48 | 57.0 | 13.74 |
| | | 241.3 | 40.4 | 8.00 | 43.8 | 9.54 | 47.6 | 11.12 | 51.8 | 12.54 | 53.2 | 12.86 | 55.4 | 13.20 | 57.0 | 13.42 |
| | | 289.5 | 40.4 | 7.88 | 43.8 | 9.42 | 47.6 | 11.00 | 51.8 | 12.42 | 53.2 | 12.74 | 55.4 | 13.08 | 57.0 | 13.26 |
| | 45 | 77.2 | 35.4 | 9.62 | 38.2 | 11.16 | 41.6 | 13.00 | 45.2 | 14.64 | 46.6 | 15.00 | 48.4 | 15.32 | 49.8 | 15.62 |
| | | 96.5 | 35.4 | 9.42 | 38.2 | 10.98 | 41.6 | 12.78 | 45.2 | 14.40 | 46.6 | 14.74 | 48.4 | 15.08 | 49.8 | 15.38 |
| | | 193.0 | 35.4 | 8.64 | 38.2 | 10.28 | 41.6 | 11.96 | 45.2 | 13.46 | 46.6 | 13.76 | 48.4 | 14.18 | 49.8 | 14.48 |
| | | 241.3 | 35.4 | 8.42 | 38.2 | 10.02 | 41.6 | 11.68 | 45.2 | 13.20 | 46.6 | 13.52 | 48.4 | 13.90 | 49.8 | 14.12 |
| | | 289.5 | 35.4 | 8.30 | 38.2 | 9.90 | 41.6 | 11.56 | 45.2 | 13.08 | 46.6 | 13.40 | 48.4 | 13.74 | 49.8 | 13.92 |
| 120 | 10 | 77.2 | 49.2 | 3.44 | 53.4 | 3.98 | 58.0 | 4.68 | 63.2 | 5.26 | 65.2 | 5.40 | 67.6 | 5.52 | 69.4 | 5.62 |
| | | 96.5 | 49.2 | 3.38 | 53.4 | 3.92 | 58.0 | 4.60 | 63.2 | 5.16 | 65.2 | 5.32 | 67.6 | 5.42 | 69.4 | 5.52 |
| | | 193.0 | 49.2 | 3.10 | 53.4 | 3.66 | 58.0 | 4.28 | 63.2 | 4.84 | 65.2 | 4.94 | 67.6 | 5.08 | 69.4 | 5.14 |
| | | 241.3 | 49.2 | 3.04 | 53.4 | 3.58 | 58.0 | 4.22 | 63.2 | 4.74 | 65.2 | 4.84 | 67.6 | 4.98 | 69.4 | 5.04 |
| | | 289.5 | 49.2 | 3.02 | 53.4 | 3.56 | 58.0 | 4.20 | 63.2 | 4.70 | 65.2 | 4.78 | 67.6 | 4.94 | 69.4 | 5.00 |
| | 15 | 77.2 | 48.6 | 4.56 | 52.8 | 5.30 | 57.4 | 6.20 | 62.4 | 6.96 | 64.4 | 7.14 | 66.8 | 7.30 | 68.6 | 7.42 |
| | | 96.5 | 48.6 | 4.48 | 52.8 | 5.20 | 57.4 | 6.08 | 62.4 | 6.84 | 64.4 | 7.02 | 66.8 | 7.18 | 68.6 | 7.32 |
| | | 193.0 | 48.6 | 4.10 | 52.8 | 4.86 | 57.4 | 5.68 | 62.4 | 6.40 | 64.4 | 6.56 | 66.8 | 6.72 | 68.6 | 6.84 |
| | | 241.3 | 48.6 | 4.02 | 52.8 | 4.76 | 57.4 | 5.58 | 62.4 | 6.28 | 64.4 | 6.44 | 66.8 | 6.60 | 68.6 | 6.70 |
| | | 289.5 | 48.6 | 3.96 | 52.8 | 4.72 | 57.4 | 5.52 | 62.4 | 6.22 | 64.4 | 6.38 | 66.8 | 6.54 | 68.6 | 6.62 |
| | 20 | 77.2 | 48.2 | 5.56 | 52.2 | 6.46 | 56.8 | 7.54 | 61.8 | 8.48 | 63.6 | 8.68 | 66.2 | 8.90 | 68.0 | 9.04 |
| | | 96.5 | 48.2 | 5.46 | 52.2 | 6.36 | 56.8 | 7.40 | 61.8 | 8.34 | 63.6 | 8.54 | 66.2 | 8.76 | 68.0 | 8.90 |
| | | 193.0 | 48.2 | 5.02 | 52.2 | 5.94 | 56.8 | 6.92 | 61.8 | 7.80 | 63.6 | 8.00 | 66.2 | 8.20 | 68.0 | 8.36 |
| | | 241.3 | 48.2 | 4.86 | 52.2 | 5.82 | 56.8 | 6.78 | 61.8 | 7.66 | 63.6 | 7.84 | 66.2 | 8.04 | 68.0 | 8.16 |
| | | 289.5 | 48.2 | 4.80 | 52.2 | 5.76 | 56.8 | 6.70 | 61.8 | 7.58 | 63.6 | 7.78 | 66.2 | 7.98 | 68.0 | 8.08 |
| | 25 | 77.2 | 48.2 | 6.84 | 52.2 | 7.92 | 56.8 | 9.24 | 61.8 | 10.42 | 63.6 | 10.66 | 66.2 | 10.94 | 68.0 | 11.12 |
| | | 96.5 | 48.2 | 6.70 | 52.2 | 7.80 | 56.8 | 9.10 | 61.8 | 10.24 | 63.6 | 10.50 | 66.2 | 10.76 | 68.0 | 10.96 |
| | | 193.0 | 48.2 | 6.16 | 52.2 | 7.32 | 56.8 | 8.52 | 61.8 | 9.58 | 63.6 | 9.80 | 66.2 | 10.08 | 68.0 | 10.28 |
| | | 241.3 | 48.2 | 6.00 | 52.2 | 7.14 | 56.8 | 8.34 | 61.8 | 9.40 | 63.6 | 9.64 | 66.2 | 9.88 | 68.0 | 10.02 |
| | | 289.5 | 48.2 | 5.90 | 52.2 | 7.06 | 56.8 | 8.26 | 61.8 | 9.30 | 63.6 | 9.54 | 66.2 | 9.78 | 68.0 | 9.90 |
| | 30 | 77.2 | 48.2 | 8.26 | 52.2 | 9.60 | 56.8 | 11.18 | 61.8 | 12.60 | 63.6 | 12.90 | 66.2 | 13.22 | 68.0 | 13.44 |
| | | 96.5 | 48.2 | 8.10 | 52.2 | 9.44 | 56.8 | 11.00 | 61.8 | 12.40 | 63.6 | 12.70 | 66.2 | 13.00 | 68.0 | 13.22 |
| | | 193.0 | 48.2 | 7.46 | 52.2 | 8.82 | 56.8 | 10.30 | 61.8 | 11.60 | 63.6 | 11.86 | 66.2 | 12.18 | 68.0 | 12.42 |
| | | 241.3 | 48.2 | 7.24 | 52.2 | 8.64 | 56.8 | 10.08 | 61.8 | 11.34 | 63.6 | 11.64 | 66.2 | 11.96 | 68.0 | 12.12 |
| | | 289.5 | 48.2 | 7.12 | 52.2 | 8.54 | 56.8 | 9.96 | 61.8 | 11.22 | 63.6 | 11.54 | 66.2 | 11.84 | 68.0 | 11.98 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 77.2 | 44.2 | 8.46 | 47.8 | 9.84 | 52.0 | 11.46 | 56.6 | 12.90 | 58.2 | 13.22 | 60.6 | 13.54 | 62.2 | 13.78 |
| | | 96.5 | 44.2 | 8.30 | 47.8 | 9.68 | 52.0 | 11.28 | 56.6 | 12.70 | 58.2 | 13.00 | 60.6 | 13.32 | 62.2 | 13.58 |
| | | 193.0 | 44.2 | 7.62 | 47.8 | 9.04 | 52.0 | 10.54 | 56.6 | 11.88 | 58.2 | 12.18 | 60.6 | 12.50 | 62.2 | 12.72 |
| | | 241.3 | 44.2 | 7.44 | 47.8 | 8.86 | 52.0 | 10.32 | 56.6 | 11.64 | 58.2 | 11.94 | 60.6 | 12.26 | 62.2 | 12.42 |
| | | 289.5 | 44.2 | 7.34 | 47.8 | 8.76 | 52.0 | 10.22 | 56.6 | 11.52 | 58.2 | 11.82 | 60.6 | 12.14 | 62.2 | 12.28 |
| | 40 | 77.2 | 40.0 | 9.10 | 43.4 | 10.60 | 47.2 | 12.32 | 51.4 | 13.90 | 52.8 | 14.22 | 55.0 | 14.56 | 56.4 | 14.82 |
| | | 96.5 | 40.0 | 8.92 | 43.4 | 10.42 | 47.2 | 12.12 | 51.4 | 13.68 | 52.8 | 13.98 | 55.0 | 14.34 | 56.4 | 14.60 |
| | | 193.0 | 40.0 | 8.22 | 43.4 | 9.74 | 47.2 | 11.34 | 51.4 | 12.78 | 52.8 | 13.08 | 55.0 | 13.42 | 56.4 | 13.70 |
| | | 241.3 | 40.0 | 8.00 | 43.4 | 9.54 | 47.2 | 11.12 | 51.4 | 12.52 | 52.8 | 12.84 | 55.0 | 13.18 | 56.4 | 13.38 |
| | | 289.5 | 40.0 | 7.88 | 43.4 | 9.44 | 47.2 | 11.02 | 51.4 | 12.38 | 52.8 | 12.72 | 55.0 | 13.06 | 56.4 | 13.22 |
| | 45 | 77.2 | 36.0 | 9.76 | 38.8 | 11.34 | 42.4 | 13.20 | 46.2 | 14.88 | 47.4 | 15.22 | 49.4 | 15.58 | 50.8 | 15.86 |
| | | 96.5 | 36.0 | 9.56 | 38.8 | 11.16 | 42.4 | 12.98 | 46.2 | 14.64 | 47.4 | 14.96 | 49.4 | 15.34 | 50.8 | 15.62 |
| | | 193.0 | 36.0 | 8.80 | 38.8 | 10.42 | 42.4 | 12.16 | 46.2 | 13.70 | 47.4 | 13.98 | 49.4 | 14.36 | 50.8 | 14.68 |
| | | 241.3 | 36.0 | 8.56 | 38.8 | 10.22 | 42.4 | 11.94 | 46.2 | 13.40 | 47.4 | 13.74 | 49.4 | 14.12 | 50.8 | 14.34 |
| | | 289.5 | 36.0 | 8.44 | 38.8 | 10.12 | 42.4 | 11.82 | 46.2 | 13.26 | 47.4 | 13.62 | 49.4 | 13.98 | 50.8 | 14.16 |
| 110 | 10 | 77.2 | 46.4 | 3.28 | 50.2 | 3.78 | 54.8 | 4.38 | 59.6 | 4.96 | 61.4 | 5.04 | 63.8 | 5.20 | 65.4 | 5.26 |
| | | 96.5 | 46.4 | 3.20 | 50.2 | 3.72 | 54.8 | 4.32 | 59.6 | 4.88 | 61.4 | 4.98 | 63.8 | 5.12 | 65.4 | 5.18 |
| | | 193.0 | 46.4 | 2.94 | 50.2 | 3.46 | 54.8 | 4.06 | 59.6 | 4.58 | 61.4 | 4.70 | 63.8 | 4.76 | 65.4 | 4.86 |
| | | 241.3 | 46.4 | 2.86 | 50.2 | 3.40 | 54.8 | 3.96 | 59.6 | 4.48 | 61.4 | 4.56 | 63.8 | 4.66 | 65.4 | 4.78 |
| | | 289.5 | 46.4 | 2.80 | 50.2 | 3.36 | 54.8 | 3.92 | 59.6 | 4.44 | 61.4 | 4.50 | 63.8 | 4.62 | 65.4 | 4.76 |
| | 15 | 77.2 | 46.2 | 4.36 | 50.0 | 5.08 | 54.4 | 5.88 | 59.2 | 6.64 | 61.0 | 6.78 | 63.4 | 6.96 | 65.2 | 7.08 |
| | | 96.5 | 46.2 | 4.28 | 50.0 | 4.98 | 54.4 | 5.80 | 59.2 | 6.52 | 61.0 | 6.68 | 63.4 | 6.84 | 65.2 | 6.96 |
| | | 193.0 | 46.2 | 3.94 | 50.0 | 4.64 | 54.4 | 5.42 | 59.2 | 6.12 | 61.0 | 6.26 | 63.4 | 6.40 | 65.2 | 6.52 |
| | | 241.3 | 46.2 | 3.82 | 50.0 | 4.54 | 54.4 | 5.30 | 59.2 | 6.00 | 61.0 | 6.14 | 63.4 | 6.28 | 65.2 | 6.38 |
| | | 289.5 | 46.2 | 3.76 | 50.0 | 4.50 | 54.4 | 5.24 | 59.2 | 5.94 | 61.0 | 6.08 | 63.4 | 6.22 | 65.2 | 6.30 |
| | 20 | 77.2 | 46.0 | 5.34 | 49.8 | 6.22 | 54.2 | 7.24 | 58.8 | 8.12 | 60.6 | 8.32 | 63.0 | 8.52 | 64.8 | 8.70 |
| | | 96.5 | 46.0 | 5.24 | 49.8 | 6.12 | 54.2 | 7.12 | 58.8 | 8.00 | 60.6 | 8.20 | 63.0 | 8.38 | 64.8 | 8.56 |
| | | 193.0 | 46.0 | 4.82 | 49.8 | 5.70 | 54.2 | 6.66 | 58.8 | 7.48 | 60.6 | 7.66 | 63.0 | 7.88 | 64.8 | 8.02 |
| | | 241.3 | 46.0 | 4.68 | 49.8 | 5.58 | 54.2 | 6.50 | 58.8 | 7.34 | 60.6 | 7.54 | 63.0 | 7.72 | 64.8 | 7.80 |
| | | 289.5 | 46.0 | 4.60 | 49.8 | 5.52 | 54.2 | 6.44 | 58.8 | 7.26 | 60.6 | 7.48 | 63.0 | 7.66 | 64.8 | 7.70 |
| | 25 | 77.2 | 46.0 | 6.54 | 49.8 | 7.60 | 54.2 | 8.84 | 58.8 | 9.96 | 60.6 | 10.18 | 63.0 | 10.44 | 64.8 | 10.64 |
| | | 96.5 | 46.0 | 6.40 | 49.8 | 7.48 | 54.2 | 8.70 | 58.8 | 9.80 | 60.6 | 10.02 | 63.0 | 10.28 | 64.8 | 10.46 |
| | | 193.0 | 46.0 | 5.90 | 49.8 | 7.00 | 54.2 | 8.14 | 58.8 | 9.18 | 60.6 | 9.40 | 63.0 | 9.64 | 64.8 | 9.80 |
| | | 241.3 | 46.0 | 5.72 | 49.8 | 6.84 | 54.2 | 7.98 | 58.8 | 8.98 | 60.6 | 9.22 | 63.0 | 9.44 | 64.8 | 9.56 |
| | | 289.5 | 46.0 | 5.64 | 49.8 | 6.78 | 54.2 | 7.88 | 58.8 | 8.88 | 60.6 | 9.14 | 63.0 | 9.34 | 64.8 | 9.44 |
| | 30 | 77.2 | 46.0 | 7.96 | 49.8 | 9.28 | 54.2 | 10.78 | 58.8 | 12.16 | 60.6 | 12.42 | 63.0 | 12.74 | 64.8 | 12.96 |
| | | 96.5 | 46.0 | 7.80 | 49.8 | 9.12 | 54.2 | 10.62 | 58.8 | 11.96 | 60.6 | 12.22 | 63.0 | 12.54 | 64.8 | 12.76 |
| | | 193.0 | 46.0 | 7.18 | 49.8 | 8.52 | 54.2 | 9.92 | 58.8 | 11.18 | 60.6 | 11.44 | 63.0 | 11.74 | 64.8 | 11.96 |
| | | 241.3 | 46.0 | 7.00 | 49.8 | 8.34 | 54.2 | 9.70 | 58.8 | 10.96 | 60.6 | 11.22 | 63.0 | 11.52 | 64.8 | 11.66 |
| | | 289.5 | 46.0 | 6.90 | 49.8 | 8.26 | 54.2 | 9.60 | 58.8 | 10.84 | 60.6 | 11.12 | 63.0 | 11.40 | 64.8 | 11.52 |
| | 35 | 77.2 | 42.8 | 8.28 | 46.4 | 9.62 | 50.4 | 11.20 | 55.0 | 12.62 | 56.6 | 12.92 | 58.8 | 13.24 | 60.4 | 13.50 |
| | | 96.5 | 42.8 | 8.12 | 46.4 | 9.46 | 50.4 | 11.02 | 55.0 | 12.42 | 56.6 | 12.72 | 58.8 | 13.04 | 60.4 | 13.28 |
| | | 193.0 | 42.8 | 7.46 | 46.4 | 8.86 | 50.4 | 10.32 | 55.0 | 11.62 | 56.6 | 11.90 | 58.8 | 12.20 | 60.4 | 12.42 |
| | | 241.3 | 42.8 | 7.26 | 46.4 | 8.66 | 50.4 | 10.10 | 55.0 | 11.40 | 56.6 | 11.66 | 58.8 | 11.98 | 60.4 | 12.12 |
| | | 289.5 | 42.8 | 7.16 | 46.4 | 8.56 | 50.4 | 10.00 | 55.0 | 11.28 | 56.6 | 11.54 | 58.8 | 11.88 | 60.4 | 11.98 |
| | 40 | 77.2 | 39.6 | 9.12 | 43.0 | 10.56 | 46.8 | 12.34 | 50.8 | 13.86 | 52.4 | 14.20 | 54.4 | 14.54 | 56.0 | 14.80 |
| | | 96.5 | 39.6 | 8.92 | 43.0 | 10.40 | 46.8 | 12.12 | 50.8 | 13.64 | 52.4 | 13.96 | 54.4 | 14.30 | 56.0 | 14.58 |
| | | 193.0 | 39.6 | 8.20 | 43.0 | 9.74 | 46.8 | 11.32 | 50.8 | 12.76 | 52.4 | 13.06 | 54.4 | 13.40 | 56.0 | 13.68 |
| | | 241.3 | 39.6 | 7.98 | 43.0 | 9.52 | 46.8 | 11.10 | 50.8 | 12.52 | 52.4 | 12.82 | 54.4 | 13.16 | 56.0 | 13.32 |
| | | 289.5 | 39.6 | 7.86 | 43.0 | 9.40 | 46.8 | 11.00 | 50.8 | 12.40 | 52.4 | 12.70 | 54.4 | 13.04 | 56.0 | 13.16 |
| | 45 | 77.2 | 36.6 | 9.94 | 39.6 | 11.50 | 43.2 | 13.46 | 46.8 | 15.10 | 48.2 | 15.46 | 50.2 | 15.82 | 51.4 | 16.12 |
| | | 96.5 | 36.6 | 9.74 | 39.6 | 11.32 | 43.2 | 13.22 | 46.8 | 14.86 | 48.2 | 15.22 | 50.2 | 15.58 | 51.4 | 15.88 |
| | | 193.0 | 36.6 | 8.92 | 39.6 | 10.62 | 43.2 | 12.32 | 46.8 | 13.92 | 48.2 | 14.20 | 50.2 | 14.60 | 51.4 | 14.92 |
| | | 241.3 | 36.6 | 8.68 | 39.6 | 10.36 | 43.2 | 12.10 | 46.8 | 13.64 | 48.2 | 13.96 | 50.2 | 14.34 | 51.4 | 14.52 |
| | | 289.5 | 36.6 | 8.56 | 39.6 | 10.24 | 43.2 | 12.00 | 46.8 | 13.52 | 48.2 | 13.84 | 50.2 | 14.20 | 51.4 | 14.34 |
| 100 | 10 | 77.2 | 43.8 | 3.04 | 47.2 | 3.58 | 51.4 | 4.14 | 56.0 | 4.62 | 57.8 | 4.74 | 59.8 | 4.90 | 61.6 | 5.00 |
| | | 96.5 | 43.8 | 2.98 | 47.2 | 3.50 | 51.4 | 4.06 | 56.0 | 4.56 | 57.8 | 4.68 | 59.8 | 4.82 | 61.6 | 4.92 |
| | | 193.0 | 43.8 | 2.76 | 47.2 | 3.24 | 51.4 | 3.82 | 56.0 | 4.30 | 57.8 | 4.42 | 59.8 | 4.52 | 61.6 | 4.56 |
| | | 241.3 | 43.8 | 2.70 | 47.2 | 3.18 | 51.4 | 3.74 | 56.0 | 4.18 | 57.8 | 4.30 | 59.8 | 4.42 | 61.6 | 4.50 |
| | | 289.5 | 43.8 | 2.68 | 47.2 | 3.14 | 51.4 | 3.70 | 56.0 | 4.12 | 57.8 | 4.24 | 59.8 | 4.38 | 61.6 | 4.46 |
| | 15 | 77.2 | 43.8 | 4.14 | 47.2 | 4.82 | 51.4 | 5.62 | 56.0 | 6.32 | 57.8 | 6.46 | 59.8 | 6.64 | 61.6 | 6.76 |
| | | 96.5 | 43.8 | 4.06 | 47.2 | 4.74 | 51.4 | 5.52 | 56.0 | 6.22 | 57.8 | 6.36 | 59.8 | 6.52 | 61.6 | 6.66 |
| | | 193.0 | 43.8 | 3.74 | 47.2 | 4.42 | 51.4 | 5.16 | 56.0 | 5.82 | 57.8 | 5.96 | 59.8 | 6.12 | 61.6 | 6.22 |
| | | 241.3 | 43.8 | 3.64 | 47.2 | 4.32 | 51.4 | 5.06 | 56.0 | 5.70 | 57.8 | 5.84 | 59.8 | 6.00 | 61.6 | 6.06 |
| | | 289.5 | 43.8 | 3.60 | 47.2 | 4.28 | 51.4 | 5.02 | 56.0 | 5.64 | 57.8 | 5.78 | 59.8 | 5.94 | 61.6 | 6.00 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 77.2 | 43.8 | 5.12 | 47.2 | 5.94 | 51.4 | 6.94 | 56.0 | 7.80 | 57.8 | 7.98 | 59.8 | 8.18 | 61.6 | 8.32 |
| | | 96.5 | 43.8 | 5.02 | 47.2 | 5.84 | 51.4 | 6.82 | 56.0 | 7.68 | 57.8 | 7.84 | 59.8 | 8.04 | 61.6 | 8.20 |
| | | 193.0 | 43.8 | 4.62 | 47.2 | 5.48 | 51.4 | 6.36 | 56.0 | 7.16 | 57.8 | 7.34 | 59.8 | 7.54 | 61.6 | 7.68 |
| | | 241.3 | 43.8 | 4.48 | 47.2 | 5.36 | 51.4 | 6.24 | 56.0 | 7.04 | 57.8 | 7.22 | 59.8 | 7.38 | 61.6 | 7.46 |
| | | 289.5 | 43.8 | 4.40 | 47.2 | 5.30 | 51.4 | 6.18 | 56.0 | 6.98 | 57.8 | 7.16 | 59.8 | 7.32 | 61.6 | 7.34 |
| | 25 | 77.2 | 43.8 | 6.24 | 47.2 | 7.26 | 51.4 | 8.46 | 56.0 | 9.52 | 57.8 | 9.74 | 59.8 | 9.96 | 61.6 | 10.16 |
| | | 96.5 | 43.8 | 6.12 | 47.2 | 7.14 | 51.4 | 8.32 | 56.0 | 9.36 | 57.8 | 9.58 | 59.8 | 9.80 | 61.6 | 10.00 |
| | | 193.0 | 43.8 | 5.62 | 47.2 | 6.68 | 51.4 | 7.78 | 56.0 | 8.76 | 57.8 | 8.96 | 59.8 | 9.20 | 61.6 | 9.34 |
| | | 241.3 | 43.8 | 5.48 | 47.2 | 6.52 | 51.4 | 7.60 | 56.0 | 8.58 | 57.8 | 8.78 | 59.8 | 9.02 | 61.6 | 9.10 |
| | | 289.5 | 43.8 | 5.40 | 47.2 | 6.46 | 51.4 | 7.52 | 56.0 | 8.50 | 57.8 | 8.70 | 59.8 | 8.94 | 61.6 | 8.98 |
| | 30 | 77.2 | 43.8 | 7.68 | 47.2 | 8.92 | 51.4 | 10.38 | 56.0 | 11.70 | 57.8 | 11.98 | 59.8 | 12.28 | 61.6 | 12.50 |
| | | 96.5 | 43.8 | 7.54 | 47.2 | 8.78 | 51.4 | 10.22 | 56.0 | 11.52 | 57.8 | 11.78 | 59.8 | 12.08 | 61.6 | 12.30 |
| | | 193.0 | 43.8 | 6.92 | 47.2 | 8.20 | 51.4 | 9.56 | 56.0 | 10.76 | 57.8 | 11.00 | 59.8 | 11.30 | 61.6 | 11.50 |
| | | 241.3 | 43.8 | 6.72 | 47.2 | 8.02 | 51.4 | 9.36 | 56.0 | 10.54 | 57.8 | 10.80 | 59.8 | 11.08 | 61.6 | 11.20 |
| | | 289.5 | 43.8 | 6.62 | 47.2 | 7.94 | 51.4 | 9.26 | 56.0 | 10.44 | 57.8 | 10.72 | 59.8 | 10.96 | 61.6 | 11.06 |
| | 35 | 77.2 | 41.6 | 8.10 | 45.0 | 9.42 | 49.0 | 10.96 | 53.2 | 12.36 | 54.8 | 12.66 | 57.0 | 12.94 | 58.4 | 13.18 |
| | | 96.5 | 41.6 | 7.94 | 45.0 | 9.26 | 49.0 | 10.78 | 53.2 | 12.16 | 54.8 | 12.44 | 57.0 | 12.74 | 58.4 | 12.96 |
| | | 193.0 | 41.6 | 7.32 | 45.0 | 8.66 | 49.0 | 10.08 | 53.2 | 11.34 | 54.8 | 11.64 | 57.0 | 11.94 | 58.4 | 12.12 |
| | | 241.3 | 41.6 | 7.10 | 45.0 | 8.48 | 49.0 | 9.88 | 53.2 | 11.12 | 54.8 | 11.42 | 57.0 | 11.72 | 58.4 | 11.82 |
| | | 289.5 | 41.6 | 6.98 | 45.0 | 8.40 | 49.0 | 9.78 | 53.2 | 11.02 | 54.8 | 11.32 | 57.0 | 11.60 | 58.4 | 11.66 |
| | 40 | 77.2 | 39.2 | 9.08 | 42.6 | 10.56 | 46.4 | 12.30 | 50.4 | 13.84 | 51.8 | 14.20 | 54.0 | 14.54 | 55.4 | 14.78 |
| | | 96.5 | 39.2 | 8.90 | 42.6 | 10.40 | 46.4 | 12.10 | 50.4 | 13.62 | 51.8 | 13.96 | 54.0 | 14.30 | 55.4 | 14.56 |
| | | 193.0 | 39.2 | 8.20 | 42.6 | 9.70 | 46.4 | 11.32 | 50.4 | 12.74 | 51.8 | 13.04 | 54.0 | 13.38 | 55.4 | 13.62 |
| | | 241.3 | 39.2 | 7.98 | 42.6 | 9.52 | 46.4 | 11.08 | 50.4 | 12.50 | 51.8 | 12.82 | 54.0 | 13.14 | 55.4 | 13.26 |
| | | 289.5 | 39.2 | 7.86 | 42.6 | 9.42 | 46.4 | 10.96 | 50.4 | 12.38 | 51.8 | 12.70 | 54.0 | 13.02 | 55.4 | 13.08 |
| | 45 | 77.2 | 37.0 | 10.06 | 40.2 | 11.70 | 43.8 | 13.64 | 47.6 | 15.32 | 49.0 | 15.74 | 50.8 | 16.14 | 52.4 | 16.40 |
| | | 96.5 | 37.0 | 9.86 | 40.2 | 11.52 | 43.8 | 13.42 | 47.6 | 15.08 | 49.0 | 15.48 | 50.8 | 15.88 | 52.4 | 16.14 |
| | | 193.0 | 37.0 | 9.08 | 40.2 | 10.76 | 43.8 | 12.56 | 47.6 | 14.14 | 49.0 | 14.42 | 50.8 | 14.82 | 52.4 | 15.12 |
| | | 241.3 | 37.0 | 8.86 | 40.2 | 10.54 | 43.8 | 12.28 | 47.6 | 13.86 | 49.0 | 14.20 | 50.8 | 14.56 | 52.4 | 14.70 |
| | | 289.5 | 37.0 | 8.74 | 40.2 | 10.44 | 43.8 | 12.14 | 47.6 | 13.74 | 49.0 | 14.10 | 50.8 | 14.42 | 52.4 | 14.50 |
| 90 | 10 | 77.2 | 39.2 | 2.64 | 42.6 | 3.06 | 46.4 | 3.52 | 50.4 | 4.02 | 51.8 | 4.12 | 54.0 | 4.24 | 55.4 | 4.30 |
| | | 96.5 | 39.2 | 2.58 | 42.6 | 3.02 | 46.4 | 3.48 | 50.4 | 3.96 | 51.8 | 4.04 | 54.0 | 4.16 | 55.4 | 4.24 |
| | | 193.0 | 39.2 | 2.40 | 42.6 | 2.82 | 46.4 | 3.30 | 50.4 | 3.72 | 51.8 | 3.78 | 54.0 | 3.88 | 55.4 | 3.96 |
| | | 241.3 | 39.2 | 2.30 | 42.6 | 2.78 | 46.4 | 3.20 | 50.4 | 3.62 | 51.8 | 3.72 | 54.0 | 3.82 | 55.4 | 3.84 |
| | | 289.5 | 39.2 | 2.26 | 42.6 | 2.76 | 46.4 | 3.14 | 50.4 | 3.58 | 51.8 | 3.68 | 54.0 | 3.78 | 55.4 | 3.78 |
| | 15 | 77.2 | 39.2 | 3.56 | 42.6 | 4.16 | 46.4 | 4.82 | 50.4 | 5.44 | 51.8 | 5.56 | 54.0 | 5.72 | 55.4 | 5.82 |
| | | 96.5 | 39.2 | 3.50 | 42.6 | 4.08 | 46.4 | 4.74 | 50.4 | 5.36 | 51.8 | 5.48 | 54.0 | 5.62 | 55.4 | 5.72 |
| | | 193.0 | 39.2 | 3.22 | 42.6 | 3.82 | 46.4 | 4.46 | 50.4 | 5.02 | 51.8 | 5.14 | 54.0 | 5.26 | 55.4 | 5.36 |
| | | 241.3 | 39.2 | 3.14 | 42.6 | 3.74 | 46.4 | 4.36 | 50.4 | 4.92 | 51.8 | 5.04 | 54.0 | 5.16 | 55.4 | 5.20 |
| | | 289.5 | 39.2 | 3.08 | 42.6 | 3.70 | 46.4 | 4.30 | 50.4 | 4.86 | 51.8 | 4.98 | 54.0 | 5.12 | 55.4 | 5.14 |
| | 20 | 77.2 | 39.2 | 4.40 | 42.6 | 5.12 | 46.4 | 5.96 | 50.4 | 6.72 | 51.8 | 6.86 | 54.0 | 7.04 | 55.4 | 7.16 |
| | | 96.5 | 39.2 | 4.30 | 42.6 | 5.04 | 46.4 | 5.86 | 50.4 | 6.60 | 51.8 | 6.74 | 54.0 | 6.92 | 55.4 | 7.04 |
| | | 193.0 | 39.2 | 3.96 | 42.6 | 4.70 | 46.4 | 5.48 | 50.4 | 6.16 | 51.8 | 6.34 | 54.0 | 6.48 | 55.4 | 6.60 |
| | | 241.3 | 39.2 | 3.86 | 42.6 | 4.60 | 46.4 | 5.38 | 50.4 | 6.06 | 51.8 | 6.22 | 54.0 | 6.36 | 55.4 | 6.44 |
| | | 289.5 | 39.2 | 3.82 | 42.6 | 4.54 | 46.4 | 5.34 | 50.4 | 6.02 | 51.8 | 6.16 | 54.0 | 6.30 | 55.4 | 6.34 |
| | 25 | 77.2 | 39.2 | 5.36 | 42.6 | 6.24 | 46.4 | 7.26 | 50.4 | 8.18 | 51.8 | 8.38 | 54.0 | 8.58 | 55.4 | 8.76 |
| | | 96.5 | 39.2 | 5.26 | 42.6 | 6.14 | 46.4 | 7.14 | 50.4 | 8.04 | 51.8 | 8.24 | 54.0 | 8.44 | 55.4 | 8.60 |
| | | 193.0 | 39.2 | 4.84 | 42.6 | 5.74 | 46.4 | 6.68 | 50.4 | 7.54 | 51.8 | 7.70 | 54.0 | 7.90 | 55.4 | 8.04 |
| | | 241.3 | 39.2 | 4.70 | 42.6 | 5.62 | 46.4 | 6.56 | 50.4 | 7.38 | 51.8 | 7.56 | 54.0 | 7.76 | 55.4 | 7.84 |
| | | 289.5 | 39.2 | 4.62 | 42.6 | 5.56 | 46.4 | 6.50 | 50.4 | 7.32 | 51.8 | 7.48 | 54.0 | 7.68 | 55.4 | 7.76 |
| | 30 | 77.2 | 39.2 | 6.62 | 42.6 | 7.68 | 46.4 | 8.96 | 50.4 | 10.06 | 51.8 | 10.32 | 54.0 | 10.56 | 55.4 | 10.76 |
| | | 96.5 | 39.2 | 6.48 | 42.6 | 7.56 | 46.4 | 8.80 | 50.4 | 9.90 | 51.8 | 10.14 | 54.0 | 10.40 | 55.4 | 10.58 |
| | | 193.0 | 39.2 | 5.94 | 42.6 | 7.06 | 46.4 | 8.22 | 50.4 | 9.26 | 51.8 | 9.48 | 54.0 | 9.74 | 55.4 | 9.90 |
| | | 241.3 | 39.2 | 5.80 | 42.6 | 6.92 | 46.4 | 8.04 | 50.4 | 9.08 | 51.8 | 9.32 | 54.0 | 9.54 | 55.4 | 9.64 |
| | | 289.5 | 39.2 | 5.72 | 42.6 | 6.84 | 46.4 | 7.96 | 50.4 | 8.98 | 51.8 | 9.24 | 54.0 | 9.44 | 55.4 | 9.50 |
| | 35 | 77.2 | 38.2 | 7.14 | 41.4 | 8.28 | 45.2 | 9.64 | 49.0 | 10.86 | 50.4 | 11.12 | 52.4 | 11.38 | 54.0 | 11.60 |
| | | 96.5 | 38.2 | 7.00 | 41.4 | 8.14 | 45.2 | 9.48 | 49.0 | 10.68 | 50.4 | 10.94 | 52.4 | 11.20 | 54.0 | 11.42 |
| | | 193.0 | 38.2 | 6.44 | 41.4 | 7.62 | 45.2 | 8.88 | 49.0 | 10.00 | 50.4 | 10.22 | 52.4 | 10.50 | 54.0 | 10.68 |
| | | 241.3 | 38.2 | 6.24 | 41.4 | 7.46 | 45.2 | 8.68 | 49.0 | 9.80 | 50.4 | 10.06 | 52.4 | 10.30 | 54.0 | 10.40 |
| | | 289.5 | 38.2 | 6.14 | 41.4 | 7.38 | 45.2 | 8.58 | 49.0 | 9.70 | 50.4 | 9.96 | 52.4 | 10.20 | 54.0 | 10.24 |
| | 40 | 77.2 | 37.2 | 8.18 | 40.2 | 9.52 | 43.8 | 11.08 | 47.6 | 12.48 | 49.0 | 12.78 | 51.0 | 13.10 | 52.4 | 13.32 |
| | | 96.5 | 37.2 | 8.02 | 40.2 | 9.36 | 43.8 | 10.90 | 47.6 | 12.28 | 49.0 | 12.56 | 51.0 | 12.88 | 52.4 | 13.10 |
| | | 193.0 | 37.2 | 7.38 | 40.2 | 8.76 | 43.8 | 10.20 | 47.6 | 11.46 | 49.0 | 11.76 | 51.0 | 12.06 | 52.4 | 12.28 |
| | | 241.3 | 37.2 | 7.16 | 40.2 | 8.56 | 43.8 | 9.98 | 47.6 | 11.24 | 49.0 | 11.54 | 51.0 | 11.84 | 52.4 | 11.96 |
| | | 289.5 | 37.2 | 7.06 | 40.2 | 8.46 | 43.8 | 9.86 | 47.6 | 11.14 | 49.0 | 11.44 | 51.0 | 11.72 | 52.4 | 11.80 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 77.2 | 36.0 | 9.22 | 39.0 | 10.76 | 42.4 | 12.52 | 46.2 | 14.10 | 47.6 | 14.44 | 49.4 | 14.82 | 50.8 | 15.02 |
| | | 96.5 | 36.0 | 9.04 | 39.0 | 10.58 | 42.4 | 12.32 | 46.2 | 13.86 | 47.6 | 14.20 | 49.4 | 14.58 | 50.8 | 14.80 |
| | | 193.0 | 36.0 | 8.34 | 39.0 | 9.88 | 42.4 | 11.52 | 46.2 | 12.94 | 47.6 | 13.30 | 49.4 | 13.62 | 50.8 | 13.86 |
| | | 241.3 | 36.0 | 8.10 | 39.0 | 9.66 | 42.4 | 11.28 | 46.2 | 12.70 | 47.6 | 13.04 | 49.4 | 13.38 | 50.8 | 13.52 |
| | | 289.5 | 36.0 | 7.98 | 39.0 | 9.56 | 42.4 | 11.16 | 46.2 | 12.58 | 47.6 | 12.90 | 49.4 | 13.26 | 50.8 | 13.36 |
| 80 | 10 | 77.2 | 35.0 | 2.22 | 37.8 | 2.56 | 41.2 | 3.00 | 44.8 | 3.40 | 46.2 | 3.44 | 48.0 | 3.58 | 49.4 | 3.58 |
| | | 96.5 | 35.0 | 2.16 | 37.8 | 2.52 | 41.2 | 2.94 | 44.8 | 3.34 | 46.2 | 3.38 | 48.0 | 3.50 | 49.4 | 3.52 |
| | | 193.0 | 35.0 | 1.98 | 37.8 | 2.38 | 41.2 | 2.72 | 44.8 | 3.10 | 46.2 | 3.18 | 48.0 | 3.24 | 49.4 | 3.30 |
| | | 241.3 | 35.0 | 1.92 | 37.8 | 2.30 | 41.2 | 2.68 | 44.8 | 3.00 | 46.2 | 3.08 | 48.0 | 3.20 | 49.4 | 3.24 |
| | | 289.5 | 35.0 | 1.90 | 37.8 | 2.26 | 41.2 | 2.66 | 44.8 | 2.96 | 46.2 | 3.02 | 48.0 | 3.18 | 49.4 | 3.22 |
| | 15 | 77.2 | 35.0 | 3.00 | 37.8 | 3.48 | 41.2 | 4.06 | 44.8 | 4.58 | 46.2 | 4.68 | 48.0 | 4.80 | 49.4 | 4.88 |
| | | 96.5 | 35.0 | 2.94 | 37.8 | 3.42 | 41.2 | 3.98 | 44.8 | 4.50 | 46.2 | 4.60 | 48.0 | 4.72 | 49.4 | 4.80 |
| | | 193.0 | 35.0 | 2.70 | 37.8 | 3.20 | 41.2 | 3.72 | 44.8 | 4.20 | 46.2 | 4.30 | 48.0 | 4.40 | 49.4 | 4.48 |
| | | 241.3 | 35.0 | 2.62 | 37.8 | 3.14 | 41.2 | 3.64 | 44.8 | 4.10 | 46.2 | 4.20 | 48.0 | 4.32 | 49.4 | 4.38 |
| | | 289.5 | 35.0 | 2.58 | 37.8 | 3.10 | 41.2 | 3.60 | 44.8 | 4.06 | 46.2 | 4.16 | 48.0 | 4.30 | 49.4 | 4.32 |
| | 20 | 77.2 | 35.0 | 3.70 | 37.8 | 4.30 | 41.2 | 5.00 | 44.8 | 5.62 | 46.2 | 5.76 | 48.0 | 5.88 | 49.4 | 6.02 |
| | | 96.5 | 35.0 | 3.62 | 37.8 | 4.24 | 41.2 | 4.92 | 44.8 | 5.52 | 46.2 | 5.68 | 48.0 | 5.80 | 49.4 | 5.92 |
| | | 193.0 | 35.0 | 3.32 | 37.8 | 3.94 | 41.2 | 4.60 | 44.8 | 5.18 | 46.2 | 5.30 | 48.0 | 5.42 | 49.4 | 5.52 |
| | | 241.3 | 35.0 | 3.22 | 37.8 | 3.86 | 41.2 | 4.50 | 44.8 | 5.08 | 46.2 | 5.20 | 48.0 | 5.34 | 49.4 | 5.38 |
| | | 289.5 | 35.0 | 3.18 | 37.8 | 3.82 | 41.2 | 4.46 | 44.8 | 5.04 | 46.2 | 5.16 | 48.0 | 5.28 | 49.4 | 5.30 |
| | 25 | 77.2 | 35.0 | 4.48 | 37.8 | 5.22 | 41.2 | 6.10 | 44.8 | 6.86 | 46.2 | 7.04 | 48.0 | 7.20 | 49.4 | 7.34 |
| | | 96.5 | 35.0 | 4.40 | 37.8 | 5.14 | 41.2 | 6.00 | 44.8 | 6.74 | 46.2 | 6.92 | 48.0 | 7.10 | 49.4 | 7.22 |
| | | 193.0 | 35.0 | 4.06 | 37.8 | 4.82 | 41.2 | 5.60 | 44.8 | 6.30 | 46.2 | 6.46 | 48.0 | 6.62 | 49.4 | 6.74 |
| | | 241.3 | 35.0 | 3.94 | 37.8 | 4.72 | 41.2 | 5.50 | 44.8 | 6.18 | 46.2 | 6.34 | 48.0 | 6.50 | 49.4 | 6.58 |
| | | 289.5 | 35.0 | 3.88 | 37.8 | 4.68 | 41.2 | 5.46 | 44.8 | 6.12 | 46.2 | 6.28 | 48.0 | 6.44 | 49.4 | 6.50 |
| | 30 | 77.2 | 35.0 | 5.54 | 37.8 | 6.44 | 41.2 | 7.50 | 44.8 | 8.46 | 46.2 | 8.66 | 48.0 | 8.84 | 49.4 | 9.02 |
| | | 96.5 | 35.0 | 5.42 | 37.8 | 6.34 | 41.2 | 7.38 | 44.8 | 8.32 | 46.2 | 8.52 | 48.0 | 8.70 | 49.4 | 8.88 |
| | | 193.0 | 35.0 | 4.98 | 37.8 | 5.92 | 41.2 | 6.90 | 44.8 | 7.76 | 46.2 | 7.94 | 48.0 | 8.14 | 49.4 | 8.30 |
| | | 241.3 | 35.0 | 4.84 | 37.8 | 5.80 | 41.2 | 6.74 | 44.8 | 7.60 | 46.2 | 7.80 | 48.0 | 8.00 | 49.4 | 8.08 |
| | | 289.5 | 35.0 | 4.76 | 37.8 | 5.74 | 41.2 | 6.68 | 44.8 | 7.54 | 46.2 | 7.72 | 48.0 | 7.92 | 49.4 | 7.96 |
| | 35 | 77.2 | 35.0 | 6.16 | 37.8 | 7.16 | 41.2 | 8.32 | 44.8 | 9.36 | 46.2 | 9.60 | 48.0 | 9.84 | 49.4 | 10.02 |
| | | 96.5 | 35.0 | 6.04 | 37.8 | 7.04 | 41.2 | 8.20 | 44.8 | 9.22 | 46.2 | 9.44 | 48.0 | 9.68 | 49.4 | 9.86 |
| | | 193.0 | 35.0 | 5.56 | 37.8 | 6.58 | 41.2 | 7.66 | 44.8 | 8.64 | 46.2 | 8.82 | 48.0 | 9.04 | 49.4 | 9.22 |
| | | 241.3 | 35.0 | 5.40 | 37.8 | 6.44 | 41.2 | 7.50 | 44.8 | 8.46 | 46.2 | 8.66 | 48.0 | 8.90 | 49.4 | 8.98 |
| | | 289.5 | 35.0 | 5.34 | 37.8 | 6.36 | 41.2 | 7.44 | 44.8 | 8.38 | 46.2 | 8.58 | 48.0 | 8.82 | 49.4 | 8.86 |
| | 40 | 77.2 | 35.0 | 7.28 | 37.8 | 8.48 | 41.2 | 9.86 | 44.8 | 11.12 | 46.2 | 11.36 | 48.0 | 11.66 | 49.4 | 11.86 |
| | | 96.5 | 35.0 | 7.14 | 37.8 | 8.34 | 41.2 | 9.70 | 44.8 | 10.94 | 46.2 | 11.18 | 48.0 | 11.46 | 49.4 | 11.66 |
| | | 193.0 | 35.0 | 6.58 | 37.8 | 7.78 | 41.2 | 9.08 | 44.8 | 10.22 | 46.2 | 10.46 | 48.0 | 10.74 | 49.4 | 10.94 |
| | | 241.3 | 35.0 | 6.38 | 37.8 | 7.62 | 41.2 | 8.88 | 44.8 | 10.02 | 46.2 | 10.28 | 48.0 | 10.52 | 49.4 | 10.64 |
| | | 289.5 | 35.0 | 6.28 | 37.8 | 7.56 | 41.2 | 8.78 | 44.8 | 9.92 | 46.2 | 10.18 | 48.0 | 10.40 | 49.4 | 10.50 |
| | 45 | 77.2 | 35.0 | 8.40 | 37.8 | 9.80 | 41.2 | 11.40 | 44.8 | 12.86 | 46.2 | 13.12 | 48.0 | 13.46 | 49.4 | 13.68 |
| | | 96.5 | 35.0 | 8.24 | 37.8 | 9.64 | 41.2 | 11.22 | 44.8 | 12.64 | 46.2 | 12.92 | 48.0 | 13.26 | 49.4 | 13.48 |
| | | 193.0 | 35.0 | 7.60 | 37.8 | 8.98 | 41.2 | 10.50 | 44.8 | 11.82 | 46.2 | 12.10 | 48.0 | 12.42 | 49.4 | 12.64 |
| | | 241.3 | 35.0 | 7.36 | 37.8 | 8.82 | 41.2 | 10.24 | 44.8 | 11.60 | 46.2 | 11.88 | 48.0 | 12.12 | 49.4 | 12.30 |
| | | 289.5 | 35.0 | 7.24 | 37.8 | 8.76 | 41.2 | 10.12 | 44.8 | 11.48 | 46.2 | 11.78 | 48.0 | 11.98 | 49.4 | 12.14 |
| 70 | 10 | 77.2 | 30.6 | 1.84 | 33.2 | 2.12 | 36.0 | 2.52 | 39.2 | 2.82 | 40.4 | 2.84 | 42.0 | 2.94 | 43.0 | 2.98 |
| | | 96.5 | 30.6 | 1.82 | 33.2 | 2.10 | 36.0 | 2.48 | 39.2 | 2.78 | 40.4 | 2.80 | 42.0 | 2.90 | 43.0 | 2.94 |
| | | 193.0 | 30.6 | 1.68 | 33.2 | 1.98 | 36.0 | 2.30 | 39.2 | 2.58 | 40.4 | 2.64 | 42.0 | 2.70 | 43.0 | 2.78 |
| | | 241.3 | 30.6 | 1.60 | 33.2 | 1.90 | 36.0 | 2.24 | 39.2 | 2.52 | 40.4 | 2.56 | 42.0 | 2.66 | 43.0 | 2.70 |
| | | 289.5 | 30.6 | 1.56 | 33.2 | 1.86 | 36.0 | 2.20 | 39.2 | 2.48 | 40.4 | 2.52 | 42.0 | 2.64 | 43.0 | 2.68 |
| | 15 | 77.2 | 30.6 | 2.50 | 33.2 | 2.88 | 36.0 | 3.38 | 39.2 | 3.80 | 40.4 | 3.88 | 42.0 | 3.98 | 43.0 | 4.04 |
| | | 96.5 | 30.6 | 2.44 | 33.2 | 2.84 | 36.0 | 3.32 | 39.2 | 3.74 | 40.4 | 3.82 | 42.0 | 3.92 | 43.0 | 3.98 |
| | | 193.0 | 30.6 | 2.24 | 33.2 | 2.66 | 36.0 | 3.10 | 39.2 | 3.50 | 40.4 | 3.58 | 42.0 | 3.66 | 43.0 | 3.74 |
| | | 241.3 | 30.6 | 2.18 | 33.2 | 2.60 | 36.0 | 3.04 | 39.2 | 3.42 | 40.4 | 3.50 | 42.0 | 3.60 | 43.0 | 3.64 |
| | | 289.5 | 30.6 | 2.14 | 33.2 | 2.56 | 36.0 | 3.00 | 39.2 | 3.38 | 40.4 | 3.46 | 42.0 | 3.56 | 43.0 | 3.60 |
| | 20 | 77.2 | 30.6 | 3.06 | 33.2 | 3.56 | 36.0 | 4.16 | 39.2 | 4.68 | 40.4 | 4.80 | 42.0 | 4.90 | 43.0 | 5.00 |
| | | 96.5 | 30.6 | 3.00 | 33.2 | 3.50 | 36.0 | 4.08 | 39.2 | 4.60 | 40.4 | 4.72 | 42.0 | 4.82 | 43.0 | 4.92 |
| | | 193.0 | 30.6 | 2.76 | 33.2 | 3.28 | 36.0 | 3.82 | 39.2 | 4.30 | 40.4 | 4.40 | 42.0 | 4.52 | 43.0 | 4.60 |
| | | 241.3 | 30.6 | 2.70 | 33.2 | 3.20 | 36.0 | 3.74 | 39.2 | 4.24 | 40.4 | 4.32 | 42.0 | 4.42 | 43.0 | 4.48 |
| | | 289.5 | 30.6 | 2.66 | 33.2 | 3.16 | 36.0 | 3.70 | 39.2 | 4.20 | 40.4 | 4.30 | 42.0 | 4.38 | 43.0 | 4.42 |
| | 25 | 77.2 | 30.6 | 3.74 | 33.2 | 4.34 | 36.0 | 5.06 | 39.2 | 5.72 | 40.4 | 5.84 | 42.0 | 6.00 | 43.0 | 6.10 |
| | | 96.5 | 30.6 | 3.66 | 33.2 | 4.28 | 36.0 | 4.98 | 39.2 | 5.62 | 40.4 | 5.74 | 42.0 | 5.90 | 43.0 | 6.00 |
| | | 193.0 | 30.6 | 3.38 | 33.2 | 4.02 | 36.0 | 4.68 | 39.2 | 5.26 | 40.4 | 5.38 | 42.0 | 5.50 | 43.0 | 5.60 |
| | | 241.3 | 30.6 | 3.28 | 33.2 | 3.92 | 36.0 | 4.58 | 39.2 | 5.14 | 40.4 | 5.28 | 42.0 | 5.40 | 43.0 | 5.46 |
| | | 289.5 | 30.6 | 3.22 | 33.2 | 3.86 | 36.0 | 4.52 | 39.2 | 5.08 | 40.4 | 5.24 | 42.0 | 5.36 | 43.0 | 5.38 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 77.2 | 30.6 | 4.62 | 33.2 | 5.34 | 36.0 | 6.24 | 39.2 | 7.00 | 40.4 | 7.18 | 42.0 | 7.36 | 43.0 | 7.48 |
| | | 96.5 | 30.6 | 4.52 | 33.2 | 5.26 | 36.0 | 6.14 | 39.2 | 6.90 | 40.4 | 7.06 | 42.0 | 7.24 | 43.0 | 7.36 |
| | | 193.0 | 30.6 | 4.16 | 33.2 | 4.92 | 36.0 | 5.72 | 39.2 | 6.46 | 40.4 | 6.60 | 42.0 | 6.78 | 43.0 | 6.90 |
| | | 241.3 | 30.6 | 4.04 | 33.2 | 4.82 | 36.0 | 5.62 | 39.2 | 6.34 | 40.4 | 6.48 | 42.0 | 6.66 | 43.0 | 6.72 |
| | | 289.5 | 30.6 | 3.98 | 33.2 | 4.76 | 36.0 | 5.58 | 39.2 | 6.28 | 40.4 | 6.42 | 42.0 | 6.60 | 43.0 | 6.64 |
| | 35 | 77.2 | 30.6 | 5.12 | 33.2 | 5.94 | 36.0 | 6.94 | 39.2 | 7.80 | 40.4 | 7.98 | 42.0 | 8.18 | 43.0 | 8.32 |
| | | 96.5 | 30.6 | 5.02 | 33.2 | 5.84 | 36.0 | 6.82 | 39.2 | 7.68 | 40.4 | 7.84 | 42.0 | 8.04 | 43.0 | 8.20 |
| | | 193.0 | 30.6 | 4.62 | 33.2 | 5.48 | 36.0 | 6.36 | 39.2 | 7.16 | 40.4 | 7.34 | 42.0 | 7.54 | 43.0 | 7.68 |
| | | 241.3 | 30.6 | 4.48 | 33.2 | 5.36 | 36.0 | 6.24 | 39.2 | 7.04 | 40.4 | 7.22 | 42.0 | 7.38 | 43.0 | 7.46 |
| | | 289.5 | 30.6 | 4.40 | 33.2 | 5.30 | 36.0 | 6.18 | 39.2 | 6.98 | 40.4 | 7.16 | 42.0 | 7.32 | 43.0 | 7.34 |
| | 40 | 77.2 | 30.6 | 6.06 | 33.2 | 7.04 | 36.0 | 8.20 | 39.2 | 9.22 | 40.4 | 9.44 | 42.0 | 9.70 | 43.0 | 9.86 |
| | | 96.5 | 30.6 | 5.94 | 33.2 | 6.92 | 36.0 | 8.08 | 39.2 | 9.08 | 40.4 | 9.30 | 42.0 | 9.54 | 43.0 | 9.70 |
| | | 193.0 | 30.6 | 5.46 | 33.2 | 6.48 | 36.0 | 7.54 | 39.2 | 8.48 | 40.4 | 8.70 | 42.0 | 8.92 | 43.0 | 9.08 |
| | | 241.3 | 30.6 | 5.30 | 33.2 | 6.34 | 36.0 | 7.38 | 39.2 | 8.34 | 40.4 | 8.54 | 42.0 | 8.76 | 43.0 | 8.86 |
| | | 289.5 | 30.6 | 5.24 | 33.2 | 6.26 | 36.0 | 7.32 | 39.2 | 8.26 | 40.4 | 8.44 | 42.0 | 8.66 | 43.0 | 8.74 |
| | 45 | 77.2 | 30.6 | 7.02 | 33.2 | 8.12 | 36.0 | 9.48 | 39.2 | 10.64 | 40.4 | 10.90 | 42.0 | 11.20 | 43.0 | 11.42 |
| | | 96.5 | 30.6 | 6.88 | 33.2 | 8.00 | 36.0 | 9.32 | 39.2 | 10.46 | 40.4 | 10.74 | 42.0 | 11.02 | 43.0 | 11.22 |
| | | 193.0 | 30.6 | 6.28 | 33.2 | 7.48 | 36.0 | 8.70 | 39.2 | 9.80 | 40.4 | 10.08 | 42.0 | 10.32 | 43.0 | 10.46 |
| | | 241.3 | 30.6 | 6.14 | 33.2 | 7.32 | 36.0 | 8.54 | 39.2 | 9.64 | 40.4 | 9.86 | 42.0 | 10.12 | 43.0 | 10.24 |
| | | 289.5 | 30.6 | 6.06 | 33.2 | 7.22 | 36.0 | 8.44 | 39.2 | 9.54 | 40.4 | 9.74 | 42.0 | 10.02 | 43.0 | 10.14 |
| 60 | 10 | 77.2 | 26.2 | 1.50 | 28.4 | 1.72 | 30.8 | 1.98 | 33.6 | 2.24 | 34.6 | 2.30 | 36.0 | 2.38 | 37.0 | 2.38 |
| | | 96.5 | 26.2 | 1.46 | 28.4 | 1.70 | 30.8 | 1.96 | 33.6 | 2.22 | 34.6 | 2.26 | 36.0 | 2.34 | 37.0 | 2.36 |
| | | 193.0 | 26.2 | 1.32 | 28.4 | 1.58 | 30.8 | 1.80 | 33.6 | 2.08 | 34.6 | 2.06 | 36.0 | 2.14 | 37.0 | 2.22 |
| | | 241.3 | 26.2 | 1.26 | 28.4 | 1.52 | 30.8 | 1.78 | 33.6 | 2.02 | 34.6 | 2.04 | 36.0 | 2.10 | 37.0 | 2.12 |
| | | 289.5 | 26.2 | 1.24 | 28.4 | 1.50 | 30.8 | 1.78 | 33.6 | 2.00 | 34.6 | 2.04 | 36.0 | 2.06 | 37.0 | 2.06 |
| | 15 | 77.2 | 26.2 | 2.00 | 28.4 | 2.32 | 30.8 | 2.68 | 33.6 | 3.04 | 34.6 | 3.12 | 36.0 | 3.18 | 37.0 | 3.22 |
| | | 96.5 | 26.2 | 1.96 | 28.4 | 2.28 | 30.8 | 2.64 | 33.6 | 2.98 | 34.6 | 3.06 | 36.0 | 3.14 | 37.0 | 3.18 |
| | | 193.0 | 26.2 | 1.78 | 28.4 | 2.12 | 30.8 | 2.46 | 33.6 | 2.78 | 34.6 | 2.84 | 36.0 | 2.92 | 37.0 | 2.98 |
| | | 241.3 | 26.2 | 1.74 | 28.4 | 2.08 | 30.8 | 2.42 | 33.6 | 2.74 | 34.6 | 2.78 | 36.0 | 2.86 | 37.0 | 2.88 |
| | | 289.5 | 26.2 | 1.72 | 28.4 | 2.06 | 30.8 | 2.40 | 33.6 | 2.72 | 34.6 | 2.76 | 36.0 | 2.84 | 37.0 | 2.84 |
| | 20 | 77.2 | 26.2 | 2.44 | 28.4 | 2.84 | 30.8 | 3.30 | 33.6 | 3.72 | 34.6 | 3.82 | 36.0 | 3.90 | 37.0 | 3.98 |
| | | 96.5 | 26.2 | 2.40 | 28.4 | 2.78 | 30.8 | 3.26 | 33.6 | 3.66 | 34.6 | 3.76 | 36.0 | 3.84 | 37.0 | 3.92 |
| | | 193.0 | 26.2 | 2.20 | 28.4 | 2.62 | 30.8 | 3.06 | 33.6 | 3.42 | 34.6 | 3.52 | 36.0 | 3.60 | 37.0 | 3.66 |
| | | 241.3 | 26.2 | 2.16 | 28.4 | 2.56 | 30.8 | 2.98 | 33.6 | 3.38 | 34.6 | 3.44 | 36.0 | 3.54 | 37.0 | 3.58 |
| | | 289.5 | 26.2 | 2.12 | 28.4 | 2.54 | 30.8 | 2.94 | 33.6 | 3.36 | 34.6 | 3.42 | 36.0 | 3.52 | 37.0 | 3.52 |
| | 25 | 77.2 | 26.2 | 3.00 | 28.4 | 3.46 | 30.8 | 4.02 | 33.6 | 4.54 | 34.6 | 4.64 | 36.0 | 4.76 | 37.0 | 4.84 |
| | | 96.5 | 26.2 | 2.94 | 28.4 | 3.40 | 30.8 | 3.96 | 33.6 | 4.48 | 34.6 | 4.58 | 36.0 | 4.70 | 37.0 | 4.76 |
| | | 193.0 | 26.2 | 2.70 | 28.4 | 3.18 | 30.8 | 3.72 | 33.6 | 4.18 | 34.6 | 4.28 | 36.0 | 4.40 | 37.0 | 4.48 |
| | | 241.3 | 26.2 | 2.62 | 28.4 | 3.14 | 30.8 | 3.64 | 33.6 | 4.10 | 34.6 | 4.20 | 36.0 | 4.30 | 37.0 | 4.36 |
| | | 289.5 | 26.2 | 2.58 | 28.4 | 3.10 | 30.8 | 3.60 | 33.6 | 4.08 | 34.6 | 4.16 | 36.0 | 4.26 | 37.0 | 4.30 |
| | 30 | 77.2 | 26.2 | 3.66 | 28.4 | 4.28 | 30.8 | 4.98 | 33.6 | 5.60 | 34.6 | 5.72 | 36.0 | 5.86 | 37.0 | 5.96 |
| | | 96.5 | 26.2 | 3.60 | 28.4 | 4.20 | 30.8 | 4.90 | 33.6 | 5.50 | 34.6 | 5.62 | 36.0 | 5.78 | 37.0 | 5.86 |
| | | 193.0 | 26.2 | 3.30 | 28.4 | 3.92 | 30.8 | 4.58 | 33.6 | 5.14 | 34.6 | 5.26 | 36.0 | 5.40 | 37.0 | 5.50 |
| | | 241.3 | 26.2 | 3.22 | 28.4 | 3.84 | 30.8 | 4.48 | 33.6 | 5.04 | 34.6 | 5.16 | 36.0 | 5.30 | 37.0 | 5.36 |
| | | 289.5 | 26.2 | 3.20 | 28.4 | 3.80 | 30.8 | 4.42 | 33.6 | 4.98 | 34.6 | 5.12 | 36.0 | 5.26 | 37.0 | 5.28 |
| | 35 | 77.2 | 26.2 | 4.06 | 28.4 | 4.76 | 30.8 | 5.52 | 33.6 | 6.22 | 34.6 | 6.36 | 36.0 | 6.50 | 37.0 | 6.64 |
| | | 96.5 | 26.2 | 3.98 | 28.4 | 4.68 | 30.8 | 5.42 | 33.6 | 6.12 | 34.6 | 6.26 | 36.0 | 6.40 | 37.0 | 6.52 |
| | | 193.0 | 26.2 | 3.66 | 28.4 | 4.36 | 30.8 | 5.08 | 33.6 | 5.72 | 34.6 | 5.84 | 36.0 | 6.02 | 37.0 | 6.12 |
| | | 241.3 | 26.2 | 3.58 | 28.4 | 4.26 | 30.8 | 4.96 | 33.6 | 5.60 | 34.6 | 5.74 | 36.0 | 5.90 | 37.0 | 5.94 |
| | | 289.5 | 26.2 | 3.52 | 28.4 | 4.20 | 30.8 | 4.90 | 33.6 | 5.54 | 34.6 | 5.70 | 36.0 | 5.84 | 37.0 | 5.86 |
| | 40 | 77.2 | 26.2 | 4.84 | 28.4 | 5.62 | 30.8 | 6.54 | 33.6 | 7.36 | 34.6 | 7.54 | 36.0 | 7.72 | 37.0 | 7.86 |
| | | 96.5 | 26.2 | 4.74 | 28.4 | 5.52 | 30.8 | 6.44 | 33.6 | 7.24 | 34.6 | 7.40 | 36.0 | 7.60 | 37.0 | 7.72 |
| | | 193.0 | 26.2 | 4.36 | 28.4 | 5.16 | 30.8 | 6.02 | 33.6 | 6.78 | 34.6 | 6.92 | 36.0 | 7.12 | 37.0 | 7.24 |
| | | 241.3 | 26.2 | 4.24 | 28.4 | 5.06 | 30.8 | 5.90 | 33.6 | 6.62 | 34.6 | 6.80 | 36.0 | 6.96 | 37.0 | 7.04 |
| | | 289.5 | 26.2 | 4.16 | 28.4 | 5.02 | 30.8 | 5.84 | 33.6 | 6.56 | 34.6 | 6.74 | 36.0 | 6.90 | 37.0 | 6.94 |
| | 45 | 77.2 | 26.2 | 5.62 | 28.4 | 6.48 | 30.8 | 7.56 | 33.6 | 8.50 | 34.6 | 8.70 | 36.0 | 8.96 | 37.0 | 9.06 |
| | | 96.5 | 26.2 | 5.50 | 28.4 | 6.38 | 30.8 | 7.44 | 33.6 | 8.36 | 34.6 | 8.56 | 36.0 | 8.80 | 37.0 | 8.92 |
| | | 193.0 | 26.2 | 5.04 | 28.4 | 5.96 | 30.8 | 6.94 | 33.6 | 7.82 | 34.6 | 8.00 | 36.0 | 8.22 | 37.0 | 8.36 |
| | | 241.3 | 26.2 | 4.90 | 28.4 | 5.86 | 30.8 | 6.82 | 33.6 | 7.66 | 34.6 | 7.84 | 36.0 | 8.04 | 37.0 | 8.14 |
| | | 289.5 | 26.2 | 4.82 | 28.4 | 5.82 | 30.8 | 6.76 | 33.6 | 7.56 | 34.6 | 7.78 | 36.0 | 7.96 | 37.0 | 8.04 |
| 50 | 10 | 77.2 | 21.8 | 1.06 | 23.6 | 1.26 | 25.8 | 1.52 | 28.0 | 1.68 | 28.8 | 1.70 | 30.0 | 1.74 | 30.8 | 1.80 |
| | | 96.5 | 21.8 | 1.06 | 23.6 | 1.24 | 25.8 | 1.48 | 28.0 | 1.64 | 28.8 | 1.66 | 30.0 | 1.72 | 30.8 | 1.76 |
| | | 193.0 | 21.8 | 1.02 | 23.6 | 1.18 | 25.8 | 1.34 | 28.0 | 1.52 | 28.8 | 1.58 | 30.0 | 1.60 | 30.8 | 1.64 |
| | | 241.3 | 21.8 | 0.96 | 23.6 | 1.12 | 25.8 | 1.34 | 28.0 | 1.48 | 28.8 | 1.52 | 30.0 | 1.54 | 30.8 | 1.58 |
| | | 289.5 | 21.8 | 0.94 | 23.6 | 1.10 | 25.8 | 1.34 | 28.0 | 1.46 | 28.8 | 1.50 | 30.0 | 1.52 | 30.8 | 1.54 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 77.2 | 21.8 | 1.46 | 23.6 | 1.72 | 25.8 | 2.02 | 28.0 | 2.26 | 28.8 | 2.32 | 30.0 | 2.36 | 30.8 | 2.40 |
| | | 96.5 | 21.8 | 1.44 | 23.6 | 1.68 | 25.8 | 1.98 | 28.0 | 2.22 | 28.8 | 2.28 | 30.0 | 2.32 | 30.8 | 2.38 |
| | | 193.0 | 21.8 | 1.34 | 23.6 | 1.58 | 25.8 | 1.84 | 28.0 | 2.08 | 28.8 | 2.12 | 30.0 | 2.18 | 30.8 | 2.22 |
| | | 241.3 | 21.8 | 1.30 | 23.6 | 1.54 | 25.8 | 1.80 | 28.0 | 2.02 | 28.8 | 2.08 | 30.0 | 2.12 | 30.8 | 2.16 |
| | | 289.5 | 21.8 | 1.28 | 23.6 | 1.52 | 25.8 | 1.80 | 28.0 | 2.00 | 28.8 | 2.06 | 30.0 | 2.10 | 30.8 | 2.12 |
| | 20 | 77.2 | 21.8 | 1.82 | 23.6 | 2.10 | 25.8 | 2.46 | 28.0 | 2.78 | 28.8 | 2.86 | 30.0 | 2.90 | 30.8 | 2.96 |
| | | 96.5 | 21.8 | 1.78 | 23.6 | 2.08 | 25.8 | 2.42 | 28.0 | 2.74 | 28.8 | 2.82 | 30.0 | 2.86 | 30.8 | 2.92 |
| | | 193.0 | 21.8 | 1.64 | 23.6 | 1.96 | 25.8 | 2.28 | 28.0 | 2.56 | 28.8 | 2.62 | 30.0 | 2.70 | 30.8 | 2.74 |
| | | 241.3 | 21.8 | 1.58 | 23.6 | 1.90 | 25.8 | 2.22 | 28.0 | 2.52 | 28.8 | 2.56 | 30.0 | 2.64 | 30.8 | 2.66 |
| | | 289.5 | 21.8 | 1.56 | 23.6 | 1.88 | 25.8 | 2.20 | 28.0 | 2.50 | 28.8 | 2.54 | 30.0 | 2.62 | 30.8 | 2.62 |
| | 25 | 77.2 | 21.8 | 2.22 | 23.6 | 2.58 | 25.8 | 3.00 | 28.0 | 3.38 | 28.8 | 3.48 | 30.0 | 3.56 | 30.8 | 3.64 |
| | | 96.5 | 21.8 | 2.18 | 23.6 | 2.54 | 25.8 | 2.96 | 28.0 | 3.32 | 28.8 | 3.42 | 30.0 | 3.50 | 30.8 | 3.58 |
| | | 193.0 | 21.8 | 2.00 | 23.6 | 2.38 | 25.8 | 2.76 | 28.0 | 3.14 | 28.8 | 3.20 | 30.0 | 3.28 | 30.8 | 3.32 |
| | | 241.3 | 21.8 | 1.96 | 23.6 | 2.32 | 25.8 | 2.72 | 28.0 | 3.06 | 28.8 | 3.14 | 30.0 | 3.20 | 30.8 | 3.26 |
| | | 289.5 | 21.8 | 1.94 | 23.6 | 2.30 | 25.8 | 2.70 | 28.0 | 3.02 | 28.8 | 3.10 | 30.0 | 3.16 | 30.8 | 3.22 |
| | 30 | 77.2 | 21.8 | 2.74 | 23.6 | 3.18 | 25.8 | 3.70 | 28.0 | 4.18 | 28.8 | 4.28 | 30.0 | 4.38 | 30.8 | 4.44 |
| | | 96.5 | 21.8 | 2.70 | 23.6 | 3.14 | 25.8 | 3.64 | 28.0 | 4.10 | 28.8 | 4.20 | 30.0 | 4.30 | 30.8 | 4.38 |
| | | 193.0 | 21.8 | 2.46 | 23.6 | 2.94 | 25.8 | 3.40 | 28.0 | 3.84 | 28.8 | 3.94 | 30.0 | 4.04 | 30.8 | 4.10 |
| | | 241.3 | 21.8 | 2.40 | 23.6 | 2.86 | 25.8 | 3.32 | 28.0 | 3.76 | 28.8 | 3.86 | 30.0 | 3.96 | 30.8 | 3.98 |
| | | 289.5 | 21.8 | 2.36 | 23.6 | 2.82 | 25.8 | 3.28 | 28.0 | 3.72 | 28.8 | 3.82 | 30.0 | 3.92 | 30.8 | 3.92 |
| | 35 | 77.2 | 21.8 | 3.04 | 23.6 | 3.52 | 25.8 | 4.12 | 28.0 | 4.62 | 28.8 | 4.76 | 30.0 | 4.88 | 30.8 | 4.94 |
| | | 96.5 | 21.8 | 2.98 | 23.6 | 3.48 | 25.8 | 4.06 | 28.0 | 4.54 | 28.8 | 4.68 | 30.0 | 4.80 | 30.8 | 4.86 |
| | | 193.0 | 21.8 | 2.74 | 23.6 | 3.26 | 25.8 | 3.80 | 28.0 | 4.26 | 28.8 | 4.36 | 30.0 | 4.48 | 30.8 | 4.54 |
| | | 241.3 | 21.8 | 2.66 | 23.6 | 3.18 | 25.8 | 3.72 | 28.0 | 4.18 | 28.8 | 4.28 | 30.0 | 4.40 | 30.8 | 4.42 |
| | | 289.5 | 21.8 | 2.62 | 23.6 | 3.14 | 25.8 | 3.68 | 28.0 | 4.14 | 28.8 | 4.24 | 30.0 | 4.36 | 30.8 | 4.36 |
| | 40 | 77.2 | 21.8 | 3.58 | 23.6 | 4.18 | 25.8 | 4.88 | 28.0 | 5.50 | 28.8 | 5.62 | 30.0 | 5.76 | 30.8 | 5.86 |
| | | 96.5 | 21.8 | 3.52 | 23.6 | 4.10 | 25.8 | 4.80 | 28.0 | 5.40 | 28.8 | 5.52 | 30.0 | 5.68 | 30.8 | 5.78 |
| | | 193.0 | 21.8 | 3.26 | 23.6 | 3.84 | 25.8 | 4.48 | 28.0 | 5.04 | 28.8 | 5.16 | 30.0 | 5.30 | 30.8 | 5.40 |
| | | 241.3 | 21.8 | 3.16 | 23.6 | 3.76 | 25.8 | 4.40 | 28.0 | 4.94 | 28.8 | 5.06 | 30.0 | 5.20 | 30.8 | 5.26 |
| | | 289.5 | 21.8 | 3.10 | 23.6 | 3.72 | 25.8 | 4.36 | 28.0 | 4.90 | 28.8 | 5.02 | 30.0 | 5.16 | 30.8 | 5.18 |
| | 45 | 77.2 | 21.8 | 4.14 | 23.6 | 4.82 | 25.8 | 5.62 | 28.0 | 6.38 | 28.8 | 6.48 | 30.0 | 6.66 | 30.8 | 6.78 |
| | | 96.5 | 21.8 | 4.06 | 23.6 | 4.74 | 25.8 | 5.52 | 28.0 | 6.26 | 28.8 | 6.38 | 30.0 | 6.56 | 30.8 | 6.68 |
| | | 193.0 | 21.8 | 3.76 | 23.6 | 4.42 | 25.8 | 5.16 | 28.0 | 5.82 | 28.8 | 5.96 | 30.0 | 6.14 | 30.8 | 6.26 |
| | | 241.3 | 21.8 | 3.64 | 23.6 | 4.36 | 25.8 | 5.08 | 28.0 | 5.70 | 28.8 | 5.84 | 30.0 | 6.02 | 30.8 | 6.08 |
| | | 289.5 | 21.8 | 3.58 | 23.6 | 4.32 | 25.8 | 5.06 | 28.0 | 5.64 | 28.8 | 5.78 | 30.0 | 5.96 | 30.8 | 6.00 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(22HP)**

## ARWN220BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 84.8 | 57.2 | 4.13 | 61.9 | 4.84 | 67.6 | 5.64 | 73.4 | 6.35 | 75.5 | 6.53 | 78.5 | 6.65 | 80.6 | 6.71 |
| | | 106.0 | 57.2 | 4.06 | 61.9 | 4.76 | 67.6 | 5.55 | 73.4 | 6.26 | 75.5 | 6.41 | 78.5 | 6.55 | 80.6 | 6.62 |
| | | 212.0 | 57.2 | 3.77 | 61.9 | 4.46 | 67.6 | 5.20 | 73.4 | 5.85 | 75.5 | 5.95 | 78.5 | 6.14 | 80.6 | 6.28 |
| | | 265.0 | 57.2 | 3.65 | 61.9 | 4.36 | 67.6 | 5.08 | 73.4 | 5.71 | 75.5 | 5.87 | 78.5 | 6.00 | 80.6 | 6.11 |
| | | 318.0 | 57.2 | 3.60 | 61.9 | 4.30 | 67.6 | 5.04 | 73.4 | 5.64 | 75.5 | 5.84 | 78.5 | 5.94 | 80.6 | 6.03 |
| | 15 | 84.8 | 56.3 | 5.46 | 61.0 | 6.35 | 66.5 | 7.40 | 72.3 | 8.34 | 74.3 | 8.54 | 77.3 | 8.73 | 79.4 | 8.87 |
| | | 106.0 | 56.3 | 5.35 | 61.0 | 6.24 | 66.5 | 7.28 | 72.3 | 8.20 | 74.3 | 8.40 | 77.3 | 8.60 | 79.4 | 8.73 |
| | | 212.0 | 56.3 | 4.93 | 61.0 | 5.85 | 66.5 | 6.80 | 72.3 | 7.67 | 74.3 | 7.84 | 77.3 | 8.07 | 79.4 | 8.23 |
| | | 265.0 | 56.3 | 4.79 | 61.0 | 5.71 | 66.5 | 6.66 | 72.3 | 7.51 | 74.3 | 7.70 | 77.3 | 7.90 | 79.4 | 8.04 |
| | | 318.0 | 56.3 | 4.72 | 61.0 | 5.64 | 66.5 | 6.59 | 72.3 | 7.42 | 74.3 | 7.63 | 77.3 | 7.81 | 79.4 | 7.93 |
| | 20 | 84.8 | 55.5 | 6.63 | 60.2 | 7.68 | 65.5 | 8.97 | 71.2 | 10.10 | 73.4 | 10.33 | 76.2 | 10.58 | 78.3 | 10.78 |
| | | 106.0 | 55.5 | 6.50 | 60.2 | 7.56 | 65.5 | 8.82 | 71.2 | 9.94 | 73.4 | 10.16 | 76.2 | 10.42 | 78.3 | 10.61 |
| | | 212.0 | 55.5 | 5.97 | 60.2 | 7.09 | 65.5 | 8.23 | 71.2 | 9.29 | 73.4 | 9.52 | 76.2 | 9.77 | 78.3 | 9.97 |
| | | 265.0 | 55.5 | 5.79 | 60.2 | 6.92 | 65.5 | 8.07 | 71.2 | 9.10 | 73.4 | 9.32 | 76.2 | 9.58 | 78.3 | 9.74 |
| | | 318.0 | 55.5 | 5.71 | 60.2 | 6.83 | 65.5 | 7.98 | 71.2 | 9.00 | 73.4 | 9.23 | 76.2 | 9.48 | 78.3 | 9.63 |
| | 25 | 84.8 | 55.5 | 8.17 | 60.2 | 9.47 | 65.5 | 11.04 | 71.2 | 12.44 | 73.4 | 12.74 | 76.2 | 13.06 | 78.3 | 13.27 |
| | | 106.0 | 55.5 | 8.01 | 60.2 | 9.32 | 65.5 | 10.86 | 71.2 | 12.23 | 73.4 | 12.55 | 76.2 | 12.85 | 78.3 | 13.07 |
| | | 212.0 | 55.5 | 7.36 | 60.2 | 8.73 | 65.5 | 10.16 | 71.2 | 11.45 | 73.4 | 11.73 | 76.2 | 12.04 | 78.3 | 12.29 |
| | | 265.0 | 55.5 | 7.16 | 60.2 | 8.54 | 65.5 | 9.97 | 71.2 | 11.23 | 73.4 | 11.51 | 76.2 | 11.82 | 78.3 | 12.02 |
| | | 318.0 | 55.5 | 7.07 | 60.2 | 8.44 | 65.5 | 9.87 | 71.2 | 11.11 | 73.4 | 11.40 | 76.2 | 11.70 | 78.3 | 11.87 |
| | 30 | 84.8 | 55.5 | 9.80 | 60.2 | 11.38 | 65.5 | 13.26 | 71.2 | 14.94 | 73.4 | 15.28 | 76.2 | 15.68 | 78.3 | 15.91 |
| | | 106.0 | 55.5 | 9.61 | 60.2 | 11.20 | 65.5 | 13.05 | 71.2 | 14.70 | 73.4 | 15.03 | 76.2 | 15.43 | 78.3 | 15.68 |
| | | 212.0 | 55.5 | 8.82 | 60.2 | 10.47 | 65.5 | 12.21 | 71.2 | 13.75 | 73.4 | 14.08 | 76.2 | 14.45 | 78.3 | 14.76 |
| | | 265.0 | 55.5 | 8.60 | 60.2 | 10.25 | 65.5 | 11.96 | 71.2 | 13.47 | 73.4 | 13.83 | 76.2 | 14.17 | 78.3 | 14.42 |
| | | 318.0 | 55.5 | 8.49 | 60.2 | 10.13 | 65.5 | 11.84 | 71.2 | 13.33 | 73.4 | 13.71 | 76.2 | 14.03 | 78.3 | 14.25 |
| | 35 | 84.8 | 50.0 | 9.91 | 54.1 | 11.53 | 58.9 | 13.40 | 64.1 | 15.11 | 66.0 | 15.44 | 68.5 | 15.85 | 70.4 | 16.12 |
| | | 106.0 | 50.0 | 9.71 | 54.1 | 11.34 | 58.9 | 13.19 | 64.1 | 14.87 | 66.0 | 15.20 | 68.5 | 15.59 | 70.4 | 15.88 |
| | | 212.0 | 50.0 | 8.93 | 54.1 | 10.59 | 58.9 | 12.35 | 64.1 | 13.89 | 66.0 | 14.25 | 68.5 | 14.61 | 70.4 | 14.90 |
| | | 265.0 | 50.0 | 8.68 | 54.1 | 10.36 | 58.9 | 12.09 | 64.1 | 13.60 | 66.0 | 13.98 | 68.5 | 14.34 | 70.4 | 14.58 |
| | | 318.0 | 50.0 | 8.55 | 54.1 | 10.25 | 58.9 | 11.97 | 64.1 | 13.47 | 66.0 | 13.83 | 68.5 | 14.19 | 70.4 | 14.43 |
| | 40 | 84.8 | 44.4 | 10.46 | 48.1 | 12.15 | 52.3 | 14.14 | 56.9 | 15.94 | 58.6 | 16.30 | 61.0 | 16.69 | 62.7 | 17.00 |
| | | 106.0 | 44.4 | 10.25 | 48.1 | 11.96 | 52.3 | 13.92 | 56.9 | 15.68 | 58.6 | 16.04 | 61.0 | 16.44 | 62.7 | 16.74 |
| | | 212.0 | 44.4 | 9.41 | 48.1 | 11.17 | 52.3 | 13.02 | 56.9 | 14.64 | 58.6 | 15.01 | 61.0 | 15.43 | 62.7 | 15.74 |
| | | 265.0 | 44.4 | 9.15 | 48.1 | 10.92 | 52.3 | 12.74 | 56.9 | 14.37 | 58.6 | 14.73 | 61.0 | 15.12 | 62.7 | 15.37 |
| | | 318.0 | 44.4 | 9.03 | 48.1 | 10.80 | 52.3 | 12.60 | 56.9 | 14.22 | 58.6 | 14.58 | 61.0 | 14.97 | 62.7 | 15.19 |
| | 45 | 84.8 | 38.8 | 11.01 | 42.1 | 12.77 | 45.7 | 14.88 | 49.7 | 16.77 | 51.2 | 17.16 | 53.3 | 17.54 | 54.8 | 17.87 |
| | | 106.0 | 38.8 | 10.78 | 42.1 | 12.57 | 45.7 | 14.64 | 49.7 | 16.50 | 51.2 | 16.89 | 53.3 | 17.28 | 54.8 | 17.61 |
| | | 212.0 | 38.8 | 9.88 | 42.1 | 11.76 | 45.7 | 13.69 | 49.7 | 15.40 | 51.2 | 15.76 | 53.3 | 16.24 | 54.8 | 16.57 |
| | | 265.0 | 38.8 | 9.63 | 42.1 | 11.48 | 45.7 | 13.39 | 49.7 | 15.12 | 51.2 | 15.49 | 53.3 | 15.91 | 54.8 | 16.15 |
| | | 318.0 | 38.8 | 9.50 | 42.1 | 11.34 | 45.7 | 13.23 | 49.7 | 14.98 | 51.2 | 15.35 | 53.3 | 15.74 | 54.8 | 15.95 |
| 120 | 10 | 84.8 | 54.1 | 3.95 | 58.6 | 4.56 | 63.8 | 5.37 | 69.5 | 6.02 | 71.6 | 6.20 | 74.3 | 6.32 | 76.4 | 6.44 |
| | | 106.0 | 54.1 | 3.86 | 58.6 | 4.48 | 63.8 | 5.28 | 69.5 | 5.91 | 71.6 | 6.08 | 74.3 | 6.21 | 76.4 | 6.32 |
| | | 212.0 | 54.1 | 3.54 | 58.6 | 4.19 | 63.8 | 4.89 | 69.5 | 5.54 | 71.6 | 5.64 | 74.3 | 5.81 | 76.4 | 5.88 |
| | | 265.0 | 54.1 | 3.49 | 58.6 | 4.10 | 63.8 | 4.84 | 69.5 | 5.43 | 71.6 | 5.54 | 74.3 | 5.70 | 76.4 | 5.78 |
| | | 318.0 | 54.1 | 3.47 | 58.6 | 4.07 | 63.8 | 4.81 | 69.5 | 5.38 | 71.6 | 5.49 | 74.3 | 5.65 | 76.4 | 5.73 |
| | 15 | 84.8 | 53.6 | 5.23 | 58.0 | 6.06 | 63.2 | 7.09 | 68.7 | 7.96 | 70.7 | 8.17 | 73.5 | 8.37 | 75.6 | 8.51 |
| | | 106.0 | 53.6 | 5.13 | 58.0 | 5.97 | 63.2 | 6.97 | 68.7 | 7.84 | 70.7 | 8.04 | 73.5 | 8.23 | 75.6 | 8.37 |
| | | 212.0 | 53.6 | 4.70 | 58.0 | 5.58 | 63.2 | 6.50 | 68.7 | 7.33 | 70.7 | 7.51 | 73.5 | 7.70 | 75.6 | 7.84 |
| | | 265.0 | 53.6 | 4.60 | 58.0 | 5.46 | 63.2 | 6.38 | 68.7 | 7.19 | 70.7 | 7.36 | 73.5 | 7.56 | 75.6 | 7.67 |
| | | 318.0 | 53.6 | 4.54 | 58.0 | 5.40 | 63.2 | 6.33 | 68.7 | 7.13 | 70.7 | 7.30 | 73.5 | 7.49 | 75.6 | 7.59 |
| | 20 | 84.8 | 53.1 | 6.38 | 57.4 | 7.40 | 62.5 | 8.63 | 68.0 | 9.70 | 69.9 | 9.92 | 72.7 | 10.19 | 74.8 | 10.35 |
| | | 106.0 | 53.1 | 6.24 | 57.4 | 7.28 | 62.5 | 8.49 | 68.0 | 9.55 | 69.9 | 9.77 | 72.7 | 10.03 | 74.8 | 10.19 |
| | | 212.0 | 53.1 | 5.74 | 57.4 | 6.80 | 62.5 | 7.92 | 68.0 | 8.93 | 69.9 | 9.15 | 72.7 | 9.38 | 74.8 | 9.58 |
| | | 265.0 | 53.1 | 5.58 | 57.4 | 6.66 | 62.5 | 7.75 | 68.0 | 8.76 | 69.9 | 8.99 | 72.7 | 9.21 | 74.8 | 9.35 |
| | | 318.0 | 53.1 | 5.49 | 57.4 | 6.59 | 62.5 | 7.67 | 68.0 | 8.68 | 69.9 | 8.90 | 72.7 | 9.12 | 74.8 | 9.24 |
| | 25 | 84.8 | 53.1 | 7.83 | 57.4 | 9.08 | 62.5 | 10.59 | 68.0 | 11.93 | 69.9 | 12.21 | 72.7 | 12.52 | 74.8 | 12.74 |
| | | 106.0 | 53.1 | 7.67 | 57.4 | 8.93 | 62.5 | 10.42 | 68.0 | 11.73 | 69.9 | 12.02 | 72.7 | 12.32 | 74.8 | 12.55 |
| | | 212.0 | 53.1 | 7.06 | 57.4 | 8.37 | 62.5 | 9.74 | 68.0 | 10.98 | 69.9 | 11.23 | 72.7 | 11.54 | 74.8 | 11.76 |
| | | 265.0 | 53.1 | 6.86 | 57.4 | 8.17 | 62.5 | 9.55 | 68.0 | 10.75 | 69.9 | 11.04 | 72.7 | 11.31 | 74.8 | 11.48 |
| | | 318.0 | 53.1 | 6.76 | 57.4 | 8.08 | 62.5 | 9.45 | 68.0 | 10.64 | 69.9 | 10.93 | 72.7 | 11.20 | 74.8 | 11.34 |
| | 30 | 84.8 | 53.1 | 9.45 | 57.4 | 10.98 | 62.5 | 12.80 | 68.0 | 14.43 | 69.9 | 14.78 | 72.7 | 15.14 | 74.8 | 15.38 |
| | | 106.0 | 53.1 | 9.27 | 57.4 | 10.81 | 62.5 | 12.60 | 68.0 | 14.19 | 69.9 | 14.54 | 72.7 | 14.90 | 74.8 | 15.15 |
| | | 212.0 | 53.1 | 8.54 | 57.4 | 10.10 | 62.5 | 11.79 | 68.0 | 13.27 | 69.9 | 13.58 | 72.7 | 13.95 | 74.8 | 14.22 |
| | | 265.0 | 53.1 | 8.29 | 57.4 | 9.88 | 62.5 | 11.54 | 68.0 | 13.00 | 69.9 | 13.33 | 72.7 | 13.69 | 74.8 | 13.89 |
| | | 318.0 | 53.1 | 8.16 | 57.4 | 9.77 | 62.5 | 11.41 | 68.0 | 12.85 | 69.9 | 13.21 | 72.7 | 13.57 | 74.8 | 13.72 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 84.8 | 48.5 | 9.68 | 52.5 | 11.27 | 57.2 | 13.12 | 62.2 | 14.76 | 64.1 | 15.14 | 66.6 | 15.50 | 68.5 | 15.79 |
| | | 106.0 | 48.5 | 9.49 | 52.5 | 11.09 | 57.2 | 12.91 | 62.2 | 14.54 | 64.1 | 14.90 | 66.6 | 15.26 | 68.5 | 15.54 |
| | | 212.0 | 48.5 | 8.73 | 52.5 | 10.36 | 57.2 | 12.07 | 62.2 | 13.60 | 64.1 | 13.95 | 66.6 | 14.31 | 68.5 | 14.56 |
| | | 265.0 | 48.5 | 8.51 | 52.5 | 10.13 | 57.2 | 11.82 | 62.2 | 13.33 | 64.1 | 13.66 | 66.6 | 14.03 | 68.5 | 14.22 |
| | | 318.0 | 48.5 | 8.40 | 52.5 | 10.03 | 57.2 | 11.69 | 62.2 | 13.19 | 64.1 | 13.53 | 66.6 | 13.89 | 68.5 | 14.06 |
| | 40 | 84.8 | 44.0 | 10.42 | 47.6 | 12.12 | 51.9 | 14.11 | 56.4 | 15.91 | 58.1 | 16.27 | 60.4 | 16.67 | 62.1 | 16.98 |
| | | 106.0 | 44.0 | 10.22 | 47.6 | 11.93 | 51.9 | 13.89 | 56.4 | 15.65 | 58.1 | 16.02 | 60.4 | 16.41 | 62.1 | 16.72 |
| | | 212.0 | 44.0 | 9.41 | 47.6 | 11.14 | 51.9 | 13.00 | 56.4 | 14.64 | 58.1 | 14.98 | 60.4 | 15.37 | 62.1 | 15.68 |
| | | 265.0 | 44.0 | 9.15 | 47.6 | 10.92 | 51.9 | 12.74 | 56.4 | 14.34 | 58.1 | 14.70 | 60.4 | 15.09 | 62.1 | 15.32 |
| | | 318.0 | 44.0 | 9.03 | 47.6 | 10.81 | 51.9 | 12.62 | 56.4 | 14.19 | 58.1 | 14.56 | 60.4 | 14.96 | 62.1 | 15.14 |
| | 45 | 84.8 | 39.6 | 11.17 | 42.8 | 12.98 | 46.7 | 15.11 | 50.7 | 17.05 | 52.1 | 17.42 | 54.2 | 17.84 | 55.8 | 18.17 |
| | | 106.0 | 39.6 | 10.95 | 42.8 | 12.77 | 46.7 | 14.87 | 50.7 | 16.77 | 52.1 | 17.13 | 54.2 | 17.55 | 55.8 | 17.90 |
| | | 212.0 | 39.6 | 10.08 | 42.8 | 11.93 | 46.7 | 13.92 | 50.7 | 15.68 | 52.1 | 16.02 | 54.2 | 16.44 | 55.8 | 16.80 |
| | | 265.0 | 39.6 | 9.80 | 42.8 | 11.70 | 46.7 | 13.66 | 50.7 | 15.35 | 52.1 | 15.74 | 54.2 | 16.15 | 55.8 | 16.41 |
| | | 318.0 | 39.6 | 9.66 | 42.8 | 11.59 | 46.7 | 13.54 | 50.7 | 15.17 | 52.1 | 15.59 | 54.2 | 16.02 | 55.8 | 16.21 |
| 110 | 10 | 84.8 | 51.1 | 3.74 | 55.3 | 4.34 | 60.2 | 5.01 | 65.5 | 5.67 | 67.4 | 5.77 | 70.2 | 5.96 | 72.0 | 6.03 |
| | | 106.0 | 51.1 | 3.67 | 55.3 | 4.27 | 60.2 | 4.93 | 65.5 | 5.58 | 67.4 | 5.69 | 70.2 | 5.85 | 72.0 | 5.93 |
| | | 212.0 | 51.1 | 3.38 | 55.3 | 3.97 | 60.2 | 4.64 | 65.5 | 5.23 | 67.4 | 5.37 | 70.2 | 5.44 | 72.0 | 5.55 |
| | | 265.0 | 51.1 | 3.27 | 55.3 | 3.89 | 60.2 | 4.54 | 65.5 | 5.13 | 67.4 | 5.23 | 70.2 | 5.34 | 72.0 | 5.48 |
| | | 318.0 | 51.1 | 3.21 | 55.3 | 3.85 | 60.2 | 4.48 | 65.5 | 5.07 | 67.4 | 5.16 | 70.2 | 5.28 | 72.0 | 5.44 |
| | 15 | 84.8 | 50.8 | 5.00 | 55.0 | 5.81 | 59.9 | 6.74 | 65.1 | 7.60 | 67.1 | 7.77 | 69.8 | 7.96 | 71.6 | 8.11 |
| | | 106.0 | 50.8 | 4.90 | 55.0 | 5.71 | 59.9 | 6.64 | 65.1 | 7.48 | 67.1 | 7.64 | 69.8 | 7.84 | 71.6 | 7.98 |
| | | 212.0 | 50.8 | 4.51 | 55.0 | 5.32 | 59.9 | 6.21 | 65.1 | 7.00 | 67.1 | 7.16 | 69.8 | 7.33 | 71.6 | 7.48 |
| | | 265.0 | 50.8 | 4.37 | 55.0 | 5.20 | 59.9 | 6.08 | 65.1 | 6.86 | 67.1 | 7.03 | 69.8 | 7.19 | 71.6 | 7.31 |
| | | 318.0 | 50.8 | 4.30 | 55.0 | 5.16 | 59.9 | 6.00 | 65.1 | 6.79 | 67.1 | 6.95 | 69.8 | 7.13 | 71.6 | 7.22 |
| | 20 | 84.8 | 50.6 | 6.11 | 54.7 | 7.12 | 59.6 | 8.28 | 64.8 | 9.30 | 66.8 | 9.53 | 69.3 | 9.76 | 71.3 | 9.95 |
| | | 106.0 | 50.6 | 5.99 | 54.7 | 7.00 | 59.6 | 8.14 | 64.8 | 9.15 | 66.8 | 9.38 | 69.3 | 9.61 | 71.3 | 9.80 |
| | | 212.0 | 50.6 | 5.52 | 54.7 | 6.53 | 59.6 | 7.62 | 64.8 | 8.57 | 66.8 | 8.76 | 69.3 | 9.02 | 71.3 | 9.18 |
| | | 265.0 | 50.6 | 5.35 | 54.7 | 6.38 | 59.6 | 7.45 | 64.8 | 8.40 | 66.8 | 8.63 | 69.3 | 8.85 | 71.3 | 8.93 |
| | | 318.0 | 50.6 | 5.26 | 54.7 | 6.32 | 59.6 | 7.36 | 64.8 | 8.32 | 66.8 | 8.55 | 69.3 | 8.76 | 71.3 | 8.81 |
| | 25 | 84.8 | 50.6 | 7.48 | 54.7 | 8.71 | 59.6 | 10.13 | 64.8 | 11.41 | 66.8 | 11.66 | 69.3 | 11.94 | 71.3 | 12.17 |
| | | 106.0 | 50.6 | 7.33 | 54.7 | 8.57 | 59.6 | 9.97 | 64.8 | 11.23 | 66.8 | 11.48 | 69.3 | 11.76 | 71.3 | 11.99 |
| | | 212.0 | 50.6 | 6.74 | 54.7 | 8.01 | 59.6 | 9.32 | 64.8 | 10.50 | 66.8 | 10.75 | 69.3 | 11.04 | 71.3 | 11.23 |
| | | 265.0 | 50.6 | 6.55 | 54.7 | 7.84 | 59.6 | 9.12 | 64.8 | 10.27 | 66.8 | 10.56 | 69.3 | 10.81 | 71.3 | 10.95 |
| | | 318.0 | 50.6 | 6.45 | 54.7 | 7.75 | 59.6 | 9.03 | 64.8 | 10.16 | 66.8 | 10.46 | 69.3 | 10.69 | 71.3 | 10.81 |
| | 30 | 84.8 | 50.6 | 9.11 | 54.7 | 10.62 | 59.6 | 12.35 | 64.8 | 13.92 | 66.8 | 14.22 | 69.3 | 14.60 | 71.3 | 14.85 |
| | | 106.0 | 50.6 | 8.93 | 54.7 | 10.45 | 59.6 | 12.15 | 64.8 | 13.69 | 66.8 | 14.00 | 69.3 | 14.37 | 71.3 | 14.61 |
| | | 212.0 | 50.6 | 8.23 | 54.7 | 9.74 | 59.6 | 11.37 | 64.8 | 12.80 | 66.8 | 13.10 | 69.3 | 13.44 | 71.3 | 13.69 |
| | | 265.0 | 50.6 | 8.01 | 54.7 | 9.55 | 59.6 | 11.11 | 64.8 | 12.55 | 66.8 | 12.85 | 69.3 | 13.19 | 71.3 | 13.36 |
| | | 318.0 | 50.6 | 7.90 | 54.7 | 9.45 | 59.6 | 10.99 | 64.8 | 12.42 | 66.8 | 12.73 | 69.3 | 13.06 | 71.3 | 13.19 |
| | 35 | 84.8 | 47.0 | 9.49 | 50.9 | 11.01 | 55.5 | 12.83 | 60.4 | 14.46 | 62.2 | 14.79 | 64.6 | 15.17 | 66.3 | 15.45 |
| | | 106.0 | 47.0 | 9.29 | 50.9 | 10.84 | 55.5 | 12.62 | 60.4 | 14.22 | 62.2 | 14.56 | 64.6 | 14.93 | 66.3 | 15.20 |
| | | 212.0 | 47.0 | 8.54 | 50.9 | 10.13 | 55.5 | 11.82 | 60.4 | 13.30 | 62.2 | 13.63 | 64.6 | 13.98 | 66.3 | 14.22 |
| | | 265.0 | 47.0 | 8.31 | 50.9 | 9.91 | 55.5 | 11.57 | 60.4 | 13.05 | 62.2 | 13.36 | 64.6 | 13.72 | 66.3 | 13.89 |
| | | 318.0 | 47.0 | 8.20 | 50.9 | 9.80 | 55.5 | 11.44 | 60.4 | 12.92 | 62.2 | 13.21 | 64.6 | 13.60 | 66.3 | 13.72 |
| | 40 | 84.8 | 43.7 | 10.43 | 47.3 | 12.09 | 51.5 | 14.12 | 55.9 | 15.88 | 57.5 | 16.25 | 59.9 | 16.65 | 61.5 | 16.95 |
| | | 106.0 | 43.7 | 10.22 | 47.3 | 11.90 | 51.5 | 13.89 | 55.9 | 15.62 | 57.5 | 15.99 | 59.9 | 16.38 | 61.5 | 16.69 |
| | | 212.0 | 43.7 | 9.38 | 47.3 | 11.14 | 51.5 | 12.97 | 55.9 | 14.61 | 57.5 | 14.96 | 59.9 | 15.35 | 61.5 | 15.65 |
| | | 265.0 | 43.7 | 9.12 | 47.3 | 10.89 | 51.5 | 12.71 | 55.9 | 14.34 | 57.5 | 14.67 | 59.9 | 15.06 | 61.5 | 15.26 |
| | | 318.0 | 43.7 | 9.00 | 47.3 | 10.77 | 51.5 | 12.59 | 55.9 | 14.19 | 57.5 | 14.54 | 59.9 | 14.93 | 61.5 | 15.06 |
| | 45 | 84.8 | 40.2 | 11.37 | 43.5 | 13.17 | 47.5 | 15.41 | 51.5 | 17.30 | 53.0 | 17.70 | 55.2 | 18.12 | 56.6 | 18.44 |
| | | 106.0 | 40.2 | 11.14 | 43.5 | 12.97 | 47.5 | 15.15 | 51.5 | 17.02 | 53.0 | 17.42 | 55.2 | 17.84 | 56.6 | 18.17 |
| | | 212.0 | 40.2 | 10.22 | 43.5 | 12.15 | 47.5 | 14.11 | 51.5 | 15.94 | 53.0 | 16.27 | 55.2 | 16.72 | 56.6 | 17.08 |
| | | 265.0 | 40.2 | 9.94 | 43.5 | 11.87 | 47.5 | 13.86 | 51.5 | 15.62 | 53.0 | 15.99 | 55.2 | 16.41 | 56.6 | 16.63 |
| | | 318.0 | 40.2 | 9.80 | 43.5 | 11.73 | 47.5 | 13.74 | 51.5 | 15.47 | 53.0 | 15.85 | 55.2 | 16.26 | 56.6 | 16.41 |
| 100 | 10 | 84.8 | 48.1 | 3.48 | 52.0 | 4.09 | 56.6 | 4.73 | 61.6 | 5.29 | 63.5 | 5.43 | 65.9 | 5.61 | 67.7 | 5.73 |
| | | 106.0 | 48.1 | 3.42 | 52.0 | 4.01 | 56.6 | 4.66 | 61.6 | 5.22 | 63.5 | 5.36 | 65.9 | 5.52 | 67.7 | 5.63 |
| | | 212.0 | 48.1 | 3.15 | 52.0 | 3.71 | 56.6 | 4.36 | 61.6 | 4.93 | 63.5 | 5.07 | 65.9 | 5.17 | 67.7 | 5.22 |
| | | 265.0 | 48.1 | 3.10 | 52.0 | 3.63 | 56.6 | 4.28 | 61.6 | 4.79 | 63.5 | 4.93 | 65.9 | 5.07 | 67.7 | 5.14 |
| | | 318.0 | 48.1 | 3.08 | 52.0 | 3.59 | 56.6 | 4.24 | 61.6 | 4.72 | 63.5 | 4.86 | 65.9 | 5.01 | 67.7 | 5.11 |
| | 15 | 84.8 | 48.1 | 4.74 | 52.0 | 5.52 | 56.6 | 6.44 | 61.6 | 7.22 | 63.5 | 7.39 | 65.9 | 7.60 | 67.7 | 7.74 |
| | | 106.0 | 48.1 | 4.65 | 52.0 | 5.43 | 56.6 | 6.33 | 61.6 | 7.12 | 63.5 | 7.28 | 65.9 | 7.48 | 67.7 | 7.62 |
| | | 212.0 | 48.1 | 4.28 | 52.0 | 5.07 | 56.6 | 5.91 | 61.6 | 6.66 | 63.5 | 6.83 | 65.9 | 7.00 | 67.7 | 7.12 |
| | | 265.0 | 48.1 | 4.18 | 52.0 | 4.96 | 56.6 | 5.79 | 61.6 | 6.53 | 63.5 | 6.69 | 65.9 | 6.86 | 67.7 | 6.94 |
| | | 318.0 | 48.1 | 4.12 | 52.0 | 4.90 | 56.6 | 5.74 | 61.6 | 6.45 | 63.5 | 6.62 | 65.9 | 6.79 | 67.7 | 6.86 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 84.8 | 48.1 | 5.85 | 52.0 | 6.80 | 56.6 | 7.95 | 61.6 | 8.94 | 63.5 | 9.14 | 65.9 | 9.36 | 67.7 | 9.53 |
| | | 106.0 | 48.1 | 5.74 | 52.0 | 6.69 | 56.6 | 7.81 | 61.6 | 8.79 | 63.5 | 8.99 | 65.9 | 9.21 | 67.7 | 9.38 |
| | | 212.0 | 48.1 | 5.29 | 52.0 | 6.27 | 56.6 | 7.28 | 61.6 | 8.20 | 63.5 | 8.40 | 65.9 | 8.63 | 67.7 | 8.79 |
| | | 265.0 | 48.1 | 5.13 | 52.0 | 6.14 | 56.6 | 7.14 | 61.6 | 8.07 | 63.5 | 8.26 | 65.9 | 8.46 | 67.7 | 8.54 |
| | | 318.0 | 48.1 | 5.04 | 52.0 | 6.06 | 56.6 | 7.07 | 61.6 | 7.99 | 63.5 | 8.19 | 65.9 | 8.37 | 67.7 | 8.41 |
| | 25 | 84.8 | 48.1 | 7.15 | 52.0 | 8.31 | 56.6 | 9.68 | 61.6 | 10.90 | 63.5 | 11.16 | 65.9 | 11.40 | 67.7 | 11.64 |
| | | 106.0 | 48.1 | 7.00 | 52.0 | 8.17 | 56.6 | 9.52 | 61.6 | 10.72 | 63.5 | 10.98 | 65.9 | 11.23 | 67.7 | 11.45 |
| | | 212.0 | 48.1 | 6.44 | 52.0 | 7.64 | 56.6 | 8.90 | 61.6 | 10.03 | 63.5 | 10.25 | 65.9 | 10.53 | 67.7 | 10.69 |
| | | 265.0 | 48.1 | 6.27 | 52.0 | 7.48 | 56.6 | 8.70 | 61.6 | 9.83 | 63.5 | 10.06 | 65.9 | 10.33 | 67.7 | 10.42 |
| | | 318.0 | 48.1 | 6.18 | 52.0 | 7.39 | 56.6 | 8.61 | 61.6 | 9.73 | 63.5 | 9.95 | 65.9 | 10.24 | 67.7 | 10.27 |
| | 30 | 84.8 | 48.1 | 8.80 | 52.0 | 10.22 | 56.6 | 11.90 | 61.6 | 13.41 | 63.5 | 13.72 | 65.9 | 14.06 | 67.7 | 14.31 |
| | | 106.0 | 48.1 | 8.63 | 52.0 | 10.06 | 56.6 | 11.70 | 61.6 | 13.19 | 63.5 | 13.50 | 65.9 | 13.83 | 67.7 | 14.08 |
| | | 212.0 | 48.1 | 7.92 | 52.0 | 9.38 | 56.6 | 10.95 | 61.6 | 12.32 | 63.5 | 12.60 | 65.9 | 12.94 | 67.7 | 13.16 |
| | | 265.0 | 48.1 | 7.70 | 52.0 | 9.18 | 56.6 | 10.72 | 61.6 | 12.07 | 63.5 | 12.38 | 65.9 | 12.68 | 67.7 | 12.82 |
| | | 318.0 | 48.1 | 7.59 | 52.0 | 9.09 | 56.6 | 10.61 | 61.6 | 11.94 | 63.5 | 12.26 | 65.9 | 12.56 | 67.7 | 12.65 |
| | 35 | 84.8 | 45.7 | 9.29 | 49.5 | 10.78 | 53.8 | 12.55 | 58.5 | 14.15 | 60.3 | 14.49 | 62.7 | 14.82 | 64.3 | 15.08 |
| | | 106.0 | 45.7 | 9.10 | 49.5 | 10.61 | 53.8 | 12.35 | 58.5 | 13.92 | 60.3 | 14.25 | 62.7 | 14.58 | 64.3 | 14.84 |
| | | 212.0 | 45.7 | 8.37 | 49.5 | 9.91 | 53.8 | 11.54 | 58.5 | 13.00 | 60.3 | 13.33 | 62.7 | 13.66 | 64.3 | 13.89 |
| | | 265.0 | 45.7 | 8.12 | 49.5 | 9.71 | 53.8 | 11.31 | 58.5 | 12.74 | 60.3 | 13.07 | 62.7 | 13.41 | 64.3 | 13.53 |
| | | 318.0 | 45.7 | 7.99 | 49.5 | 9.62 | 53.8 | 11.20 | 58.5 | 12.62 | 60.3 | 12.95 | 62.7 | 13.29 | 64.3 | 13.34 |
| | 40 | 84.8 | 43.2 | 10.39 | 46.8 | 12.10 | 50.9 | 14.08 | 55.5 | 15.85 | 57.1 | 16.26 | 59.3 | 16.65 | 61.0 | 16.93 |
| | | 106.0 | 43.2 | 10.19 | 46.8 | 11.90 | 50.9 | 13.86 | 55.5 | 15.59 | 57.1 | 15.99 | 59.3 | 16.38 | 61.0 | 16.66 |
| | | 212.0 | 43.2 | 9.38 | 46.8 | 11.11 | 50.9 | 12.97 | 55.5 | 14.58 | 57.1 | 14.93 | 59.3 | 15.32 | 61.0 | 15.59 |
| | | 265.0 | 43.2 | 9.12 | 46.8 | 10.89 | 50.9 | 12.68 | 55.5 | 14.31 | 57.1 | 14.67 | 59.3 | 15.03 | 61.0 | 15.17 |
| | | 318.0 | 43.2 | 9.00 | 46.8 | 10.78 | 50.9 | 12.55 | 55.5 | 14.17 | 57.1 | 14.55 | 59.3 | 14.90 | 61.0 | 14.97 |
| | 45 | 84.8 | 40.7 | 11.51 | 44.2 | 13.41 | 48.2 | 15.62 | 52.3 | 17.55 | 53.8 | 18.03 | 55.9 | 18.47 | 57.7 | 18.78 |
| | | 106.0 | 40.7 | 11.28 | 44.2 | 13.19 | 48.2 | 15.37 | 52.3 | 17.28 | 53.8 | 17.72 | 55.9 | 18.17 | 57.7 | 18.49 |
| | | 212.0 | 40.7 | 10.39 | 44.2 | 12.32 | 48.2 | 14.39 | 52.3 | 16.18 | 53.8 | 16.52 | 55.9 | 16.97 | 57.7 | 17.31 |
| | | 265.0 | 40.7 | 10.13 | 44.2 | 12.07 | 48.2 | 14.05 | 52.3 | 15.88 | 53.8 | 16.27 | 55.9 | 16.66 | 57.7 | 16.83 |
| | | 318.0 | 40.7 | 10.01 | 44.2 | 11.94 | 48.2 | 13.89 | 52.3 | 15.73 | 53.8 | 16.14 | 55.9 | 16.51 | 57.7 | 16.59 |
| 90 | 10 | 84.8 | 43.2 | 3.02 | 46.8 | 3.50 | 50.9 | 4.04 | 55.5 | 4.60 | 57.1 | 4.71 | 59.3 | 4.85 | 61.0 | 4.93 |
| | | 106.0 | 43.2 | 2.97 | 46.8 | 3.45 | 50.9 | 3.98 | 55.5 | 4.52 | 57.1 | 4.63 | 59.3 | 4.77 | 61.0 | 4.85 |
| | | 212.0 | 43.2 | 2.75 | 46.8 | 3.23 | 50.9 | 3.77 | 55.5 | 4.25 | 57.1 | 4.34 | 59.3 | 4.45 | 61.0 | 4.52 |
| | | 265.0 | 43.2 | 2.64 | 46.8 | 3.18 | 50.9 | 3.66 | 55.5 | 4.15 | 57.1 | 4.25 | 59.3 | 4.36 | 61.0 | 4.39 |
| | | 318.0 | 43.2 | 2.58 | 46.8 | 3.15 | 50.9 | 3.60 | 55.5 | 4.09 | 57.1 | 4.22 | 59.3 | 4.33 | 61.0 | 4.33 |
| | 15 | 84.8 | 43.2 | 4.08 | 46.8 | 4.75 | 50.9 | 5.52 | 55.5 | 6.23 | 57.1 | 6.37 | 59.3 | 6.55 | 61.0 | 6.66 |
| | | 106.0 | 43.2 | 4.01 | 46.8 | 4.68 | 50.9 | 5.43 | 55.5 | 6.14 | 57.1 | 6.27 | 59.3 | 6.44 | 61.0 | 6.55 |
| | | 212.0 | 43.2 | 3.70 | 46.8 | 4.37 | 50.9 | 5.10 | 55.5 | 5.74 | 57.1 | 5.88 | 59.3 | 6.02 | 61.0 | 6.14 |
| | | 265.0 | 43.2 | 3.59 | 46.8 | 4.28 | 50.9 | 4.99 | 55.5 | 5.63 | 57.1 | 5.77 | 59.3 | 5.91 | 61.0 | 5.97 |
| | | 318.0 | 43.2 | 3.53 | 46.8 | 4.24 | 50.9 | 4.93 | 55.5 | 5.58 | 57.1 | 5.71 | 59.3 | 5.85 | 61.0 | 5.88 |
| | 20 | 84.8 | 43.2 | 5.02 | 46.8 | 5.87 | 50.9 | 6.83 | 55.5 | 7.69 | 57.1 | 7.84 | 59.3 | 8.05 | 61.0 | 8.19 |
| | | 106.0 | 43.2 | 4.93 | 46.8 | 5.77 | 50.9 | 6.72 | 55.5 | 7.56 | 57.1 | 7.72 | 59.3 | 7.92 | 61.0 | 8.07 |
| | | 212.0 | 43.2 | 4.54 | 46.8 | 5.38 | 50.9 | 6.27 | 55.5 | 7.06 | 57.1 | 7.25 | 59.3 | 7.42 | 61.0 | 7.56 |
| | | 265.0 | 43.2 | 4.42 | 46.8 | 5.26 | 50.9 | 6.17 | 55.5 | 6.94 | 57.1 | 7.12 | 59.3 | 7.28 | 61.0 | 7.36 |
| | | 318.0 | 43.2 | 4.37 | 46.8 | 5.20 | 50.9 | 6.11 | 55.5 | 6.89 | 57.1 | 7.04 | 59.3 | 7.21 | 61.0 | 7.27 |
| | 25 | 84.8 | 43.2 | 6.14 | 46.8 | 7.15 | 50.9 | 8.31 | 55.5 | 9.36 | 57.1 | 9.59 | 59.3 | 9.82 | 61.0 | 10.01 |
| | | 106.0 | 43.2 | 6.02 | 46.8 | 7.03 | 50.9 | 8.17 | 55.5 | 9.21 | 57.1 | 9.44 | 59.3 | 9.66 | 61.0 | 9.86 |
| | | 212.0 | 43.2 | 5.55 | 46.8 | 6.58 | 50.9 | 7.64 | 55.5 | 8.63 | 57.1 | 8.82 | 59.3 | 9.05 | 61.0 | 9.21 |
| | | 265.0 | 43.2 | 5.38 | 46.8 | 6.44 | 50.9 | 7.51 | 55.5 | 8.46 | 57.1 | 8.65 | 59.3 | 8.88 | 61.0 | 8.99 |
| | | 318.0 | 43.2 | 5.29 | 46.8 | 6.37 | 50.9 | 7.43 | 55.5 | 8.37 | 57.1 | 8.57 | 59.3 | 8.79 | 61.0 | 8.88 |
| | 30 | 84.8 | 43.2 | 7.57 | 46.8 | 8.79 | 50.9 | 10.25 | 55.5 | 11.52 | 57.1 | 11.81 | 59.3 | 12.09 | 61.0 | 12.32 |
| | | 106.0 | 43.2 | 7.42 | 46.8 | 8.65 | 50.9 | 10.08 | 55.5 | 11.34 | 57.1 | 11.62 | 59.3 | 11.90 | 61.0 | 12.12 |
| | | 212.0 | 43.2 | 6.80 | 46.8 | 8.10 | 50.9 | 9.41 | 55.5 | 10.61 | 57.1 | 10.86 | 59.3 | 11.14 | 61.0 | 11.34 |
| | | 265.0 | 43.2 | 6.64 | 46.8 | 7.92 | 50.9 | 9.21 | 55.5 | 10.39 | 57.1 | 10.66 | 59.3 | 10.92 | 61.0 | 11.04 |
| | | 318.0 | 43.2 | 6.56 | 46.8 | 7.84 | 50.9 | 9.11 | 55.5 | 10.27 | 57.1 | 10.57 | 59.3 | 10.81 | 61.0 | 10.87 |
| | 35 | 84.8 | 42.0 | 8.17 | 45.6 | 9.47 | 49.6 | 11.04 | 53.9 | 12.44 | 55.5 | 12.73 | 57.7 | 13.03 | 59.3 | 13.29 |
| | | 106.0 | 42.0 | 8.01 | 45.6 | 9.32 | 49.6 | 10.86 | 53.9 | 12.23 | 55.5 | 12.52 | 57.7 | 12.82 | 59.3 | 13.07 |
| | | 212.0 | 42.0 | 7.36 | 45.6 | 8.73 | 49.6 | 10.16 | 53.9 | 11.45 | 55.5 | 11.70 | 57.7 | 12.02 | 59.3 | 12.23 |
| | | 265.0 | 42.0 | 7.14 | 45.6 | 8.54 | 49.6 | 9.94 | 53.9 | 11.23 | 55.5 | 11.51 | 57.7 | 11.79 | 59.3 | 11.90 |
| | | 318.0 | 42.0 | 7.03 | 45.6 | 8.44 | 49.6 | 9.83 | 53.9 | 11.11 | 55.5 | 11.41 | 57.7 | 11.67 | 59.3 | 11.73 |
| | 40 | 84.8 | 40.8 | 9.37 | 44.2 | 10.90 | 48.2 | 12.70 | 52.3 | 14.29 | 53.9 | 14.63 | 56.1 | 14.99 | 57.5 | 15.25 |
| | | 106.0 | 40.8 | 9.18 | 44.2 | 10.72 | 48.2 | 12.49 | 52.3 | 14.05 | 53.9 | 14.39 | 56.1 | 14.76 | 57.5 | 15.01 |
| | | 212.0 | 40.8 | 8.46 | 44.2 | 10.03 | 48.2 | 11.67 | 52.3 | 13.13 | 53.9 | 13.47 | 56.1 | 13.80 | 57.5 | 14.05 |
| | | 265.0 | 40.8 | 8.20 | 44.2 | 9.80 | 48.2 | 11.43 | 52.3 | 12.88 | 53.9 | 13.21 | 56.1 | 13.56 | 57.5 | 13.69 |
| | | 318.0 | 40.8 | 8.08 | 44.2 | 9.68 | 48.2 | 11.30 | 52.3 | 12.76 | 53.9 | 13.09 | 56.1 | 13.42 | 57.5 | 13.51 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 84.8 | 39.6 | 10.57 | 42.9 | 12.33 | 46.7 | 14.34 | 50.8 | 16.15 | 52.3 | 16.53 | 54.4 | 16.96 | 55.9 | 17.21 |
| | | 106.0 | 39.6 | 10.36 | 42.9 | 12.12 | 46.7 | 14.11 | 50.8 | 15.88 | 52.3 | 16.27 | 54.4 | 16.69 | 55.9 | 16.94 |
| | | 212.0 | 39.6 | 9.55 | 42.9 | 11.31 | 46.7 | 13.19 | 50.8 | 14.81 | 52.3 | 15.23 | 54.4 | 15.59 | 55.9 | 15.88 |
| | | 265.0 | 39.6 | 9.27 | 42.9 | 11.06 | 46.7 | 12.91 | 50.8 | 14.54 | 52.3 | 14.93 | 54.4 | 15.32 | 55.9 | 15.49 |
| | | 318.0 | 39.6 | 9.12 | 42.9 | 10.93 | 46.7 | 12.77 | 50.8 | 14.39 | 52.3 | 14.78 | 54.4 | 15.17 | 55.9 | 15.29 |
| 80 | 10 | 84.8 | 38.4 | 2.53 | 41.7 | 2.92 | 45.4 | 3.43 | 49.3 | 3.89 | 50.7 | 3.94 | 52.7 | 4.09 | 54.2 | 4.10 |
| | | 106.0 | 38.4 | 2.47 | 41.7 | 2.88 | 45.4 | 3.36 | 49.3 | 3.83 | 50.7 | 3.88 | 52.7 | 4.01 | 54.2 | 4.04 |
| | | 212.0 | 38.4 | 2.26 | 41.7 | 2.73 | 45.4 | 3.12 | 49.3 | 3.56 | 50.7 | 3.63 | 52.7 | 3.71 | 54.2 | 3.77 |
| | | 265.0 | 38.4 | 2.20 | 41.7 | 2.64 | 45.4 | 3.07 | 49.3 | 3.44 | 50.7 | 3.53 | 52.7 | 3.66 | 54.2 | 3.72 |
| | | 318.0 | 38.4 | 2.19 | 41.7 | 2.59 | 45.4 | 3.05 | 49.3 | 3.39 | 50.7 | 3.47 | 52.7 | 3.64 | 54.2 | 3.70 |
| | 15 | 84.8 | 38.4 | 3.44 | 41.7 | 3.98 | 45.4 | 4.64 | 49.3 | 5.23 | 50.7 | 5.35 | 52.7 | 5.49 | 54.2 | 5.58 |
| | | 106.0 | 38.4 | 3.36 | 41.7 | 3.92 | 45.4 | 4.57 | 49.3 | 5.16 | 50.7 | 5.26 | 52.7 | 5.40 | 54.2 | 5.49 |
| | | 212.0 | 38.4 | 3.08 | 41.7 | 3.67 | 45.4 | 4.25 | 49.3 | 4.81 | 50.7 | 4.93 | 52.7 | 5.04 | 54.2 | 5.13 |
| | | 265.0 | 38.4 | 3.00 | 41.7 | 3.59 | 45.4 | 4.18 | 49.3 | 4.70 | 50.7 | 4.81 | 52.7 | 4.96 | 54.2 | 5.01 |
| | | 318.0 | 38.4 | 2.96 | 41.7 | 3.54 | 45.4 | 4.13 | 49.3 | 4.65 | 50.7 | 4.76 | 52.7 | 4.92 | 54.2 | 4.96 |
| | 20 | 84.8 | 38.4 | 4.22 | 41.7 | 4.93 | 45.4 | 5.72 | 49.3 | 6.42 | 50.7 | 6.60 | 52.7 | 6.74 | 54.2 | 6.89 |
| | | 106.0 | 38.4 | 4.15 | 41.7 | 4.84 | 45.4 | 5.63 | 49.3 | 6.33 | 50.7 | 6.50 | 52.7 | 6.64 | 54.2 | 6.77 |
| | | 212.0 | 38.4 | 3.81 | 41.7 | 4.51 | 45.4 | 5.26 | 49.3 | 5.94 | 50.7 | 6.08 | 52.7 | 6.21 | 54.2 | 6.33 |
| | | 265.0 | 38.4 | 3.70 | 41.7 | 4.42 | 45.4 | 5.16 | 49.3 | 5.82 | 50.7 | 5.97 | 52.7 | 6.11 | 54.2 | 6.17 |
| | | 318.0 | 38.4 | 3.64 | 41.7 | 4.39 | 45.4 | 5.10 | 49.3 | 5.77 | 50.7 | 5.91 | 52.7 | 6.05 | 54.2 | 6.08 |
| | 25 | 84.8 | 38.4 | 5.14 | 41.7 | 5.97 | 45.4 | 6.97 | 49.3 | 7.86 | 50.7 | 8.05 | 52.7 | 8.25 | 54.2 | 8.40 |
| | | 106.0 | 38.4 | 5.04 | 41.7 | 5.88 | 45.4 | 6.86 | 49.3 | 7.72 | 50.7 | 7.92 | 52.7 | 8.12 | 54.2 | 8.26 |
| | | 212.0 | 38.4 | 4.65 | 41.7 | 5.52 | 45.4 | 6.41 | 49.3 | 7.22 | 50.7 | 7.39 | 52.7 | 7.59 | 54.2 | 7.72 |
| | | 265.0 | 38.4 | 4.51 | 41.7 | 5.40 | 45.4 | 6.30 | 49.3 | 7.09 | 50.7 | 7.25 | 52.7 | 7.45 | 54.2 | 7.53 |
| | | 318.0 | 38.4 | 4.44 | 41.7 | 5.35 | 45.4 | 6.24 | 49.3 | 7.01 | 50.7 | 7.18 | 52.7 | 7.38 | 54.2 | 7.43 |
| | 30 | 84.8 | 38.4 | 6.35 | 41.7 | 7.37 | 45.4 | 8.60 | 49.3 | 9.68 | 50.7 | 9.91 | 52.7 | 10.13 | 54.2 | 10.33 |
| | | 106.0 | 38.4 | 6.21 | 41.7 | 7.25 | 45.4 | 8.46 | 49.3 | 9.52 | 50.7 | 9.74 | 52.7 | 9.97 | 54.2 | 10.16 |
| | | 212.0 | 38.4 | 5.71 | 41.7 | 6.77 | 45.4 | 7.90 | 49.3 | 8.88 | 50.7 | 9.10 | 52.7 | 9.32 | 54.2 | 9.49 |
| | | 265.0 | 38.4 | 5.55 | 41.7 | 6.64 | 45.4 | 7.72 | 49.3 | 8.70 | 50.7 | 8.93 | 52.7 | 9.15 | 54.2 | 9.24 |
| | | 318.0 | 38.4 | 5.46 | 41.7 | 6.56 | 45.4 | 7.65 | 49.3 | 8.63 | 50.7 | 8.85 | 52.7 | 9.08 | 54.2 | 9.11 |
| | 35 | 84.8 | 38.4 | 7.06 | 41.7 | 8.20 | 45.4 | 9.53 | 49.3 | 10.72 | 50.7 | 10.98 | 52.7 | 11.27 | 54.2 | 11.46 |
| | | 106.0 | 38.4 | 6.92 | 41.7 | 8.07 | 45.4 | 9.38 | 49.3 | 10.56 | 50.7 | 10.81 | 52.7 | 11.09 | 54.2 | 11.28 |
| | | 212.0 | 38.4 | 6.35 | 41.7 | 7.53 | 45.4 | 8.76 | 49.3 | 9.88 | 50.7 | 10.10 | 52.7 | 10.36 | 54.2 | 10.56 |
| | | 265.0 | 38.4 | 6.18 | 41.7 | 7.36 | 45.4 | 8.60 | 49.3 | 9.68 | 50.7 | 9.91 | 52.7 | 10.19 | 54.2 | 10.27 |
| | | 318.0 | 38.4 | 6.11 | 41.7 | 7.28 | 45.4 | 8.51 | 49.3 | 9.59 | 50.7 | 9.82 | 52.7 | 10.11 | 54.2 | 10.13 |
| | 40 | 84.8 | 38.4 | 8.34 | 41.7 | 9.71 | 45.4 | 11.30 | 49.3 | 12.73 | 50.7 | 13.00 | 52.7 | 13.34 | 54.2 | 13.57 |
| | | 106.0 | 38.4 | 8.17 | 41.7 | 9.55 | 45.4 | 11.11 | 49.3 | 12.52 | 50.7 | 12.80 | 52.7 | 13.13 | 54.2 | 13.36 |
| | | 212.0 | 38.4 | 7.53 | 41.7 | 8.90 | 45.4 | 10.39 | 49.3 | 11.70 | 50.7 | 11.99 | 52.7 | 12.29 | 54.2 | 12.52 |
| | | 265.0 | 38.4 | 7.31 | 41.7 | 8.73 | 45.4 | 10.16 | 49.3 | 11.48 | 50.7 | 11.76 | 52.7 | 12.04 | 54.2 | 12.18 |
| | | 318.0 | 38.4 | 7.19 | 41.7 | 8.65 | 45.4 | 10.06 | 49.3 | 11.37 | 50.7 | 11.64 | 52.7 | 11.91 | 54.2 | 12.02 |
| | 45 | 84.8 | 38.4 | 9.62 | 41.7 | 11.22 | 45.4 | 13.06 | 49.3 | 14.72 | 50.7 | 15.02 | 52.7 | 15.41 | 54.2 | 15.67 |
| | | 106.0 | 38.4 | 9.44 | 41.7 | 11.04 | 45.4 | 12.85 | 49.3 | 14.48 | 50.7 | 14.78 | 52.7 | 15.17 | 54.2 | 15.43 |
| | | 212.0 | 38.4 | 8.70 | 41.7 | 10.27 | 45.4 | 12.02 | 49.3 | 13.53 | 50.7 | 13.86 | 52.7 | 14.22 | 54.2 | 14.48 |
| | | 265.0 | 38.4 | 8.43 | 41.7 | 10.10 | 45.4 | 11.73 | 49.3 | 13.27 | 50.7 | 13.60 | 52.7 | 13.89 | 54.2 | 14.08 |
| | | 318.0 | 38.4 | 8.29 | 41.7 | 10.03 | 45.4 | 11.59 | 49.3 | 13.15 | 50.7 | 13.48 | 52.7 | 13.72 | 54.2 | 13.89 |
| 70 | 10 | 84.8 | 33.6 | 2.11 | 36.5 | 2.43 | 39.7 | 2.88 | 43.1 | 3.24 | 44.4 | 3.24 | 46.1 | 3.36 | 47.4 | 3.41 |
| | | 106.0 | 33.6 | 2.08 | 36.5 | 2.40 | 39.7 | 2.83 | 43.1 | 3.18 | 44.4 | 3.20 | 46.1 | 3.32 | 47.4 | 3.36 |
| | | 212.0 | 33.6 | 1.91 | 36.5 | 2.26 | 39.7 | 2.64 | 43.1 | 2.97 | 44.4 | 3.02 | 46.1 | 3.09 | 47.4 | 3.18 |
| | | 265.0 | 33.6 | 1.83 | 36.5 | 2.18 | 39.7 | 2.56 | 43.1 | 2.88 | 44.4 | 2.94 | 46.1 | 3.05 | 47.4 | 3.10 |
| | | 318.0 | 33.6 | 1.79 | 36.5 | 2.14 | 39.7 | 2.52 | 43.1 | 2.84 | 44.4 | 2.89 | 46.1 | 3.02 | 47.4 | 3.06 |
| | 15 | 84.8 | 33.6 | 2.85 | 36.5 | 3.30 | 39.7 | 3.87 | 43.1 | 4.36 | 44.4 | 4.44 | 46.1 | 4.55 | 47.4 | 4.63 |
| | | 106.0 | 33.6 | 2.80 | 36.5 | 3.24 | 39.7 | 3.81 | 43.1 | 4.28 | 44.4 | 4.37 | 46.1 | 4.48 | 47.4 | 4.57 |
| | | 212.0 | 33.6 | 2.58 | 36.5 | 3.05 | 39.7 | 3.56 | 43.1 | 4.01 | 44.4 | 4.09 | 46.1 | 4.20 | 47.4 | 4.28 |
| | | 265.0 | 33.6 | 2.49 | 36.5 | 2.97 | 39.7 | 3.47 | 43.1 | 3.92 | 44.4 | 4.01 | 46.1 | 4.12 | 47.4 | 4.18 |
| | | 318.0 | 33.6 | 2.45 | 36.5 | 2.93 | 39.7 | 3.43 | 43.1 | 3.88 | 44.4 | 3.96 | 46.1 | 4.07 | 47.4 | 4.12 |
| | 20 | 84.8 | 33.6 | 3.51 | 36.5 | 4.07 | 39.7 | 4.75 | 43.1 | 5.35 | 44.4 | 5.49 | 46.1 | 5.60 | 47.4 | 5.72 |
| | | 106.0 | 33.6 | 3.44 | 36.5 | 4.01 | 39.7 | 4.68 | 43.1 | 5.26 | 44.4 | 5.40 | 46.1 | 5.52 | 47.4 | 5.63 |
| | | 212.0 | 33.6 | 3.17 | 36.5 | 3.75 | 39.7 | 4.37 | 43.1 | 4.93 | 44.4 | 5.04 | 46.1 | 5.18 | 47.4 | 5.26 |
| | | 265.0 | 33.6 | 3.08 | 36.5 | 3.67 | 39.7 | 4.28 | 43.1 | 4.84 | 44.4 | 4.96 | 46.1 | 5.07 | 47.4 | 5.13 |
| | | 318.0 | 33.6 | 3.03 | 36.5 | 3.62 | 39.7 | 4.24 | 43.1 | 4.80 | 44.4 | 4.92 | 46.1 | 5.01 | 47.4 | 5.05 |
| | 25 | 84.8 | 33.6 | 4.28 | 36.5 | 4.98 | 39.7 | 5.81 | 43.1 | 6.55 | 44.4 | 6.68 | 46.1 | 6.86 | 47.4 | 6.97 |
| | | 106.0 | 33.6 | 4.20 | 36.5 | 4.90 | 39.7 | 5.71 | 43.1 | 6.44 | 44.4 | 6.58 | 46.1 | 6.74 | 47.4 | 6.86 |
| | | 212.0 | 33.6 | 3.86 | 36.5 | 4.60 | 39.7 | 5.35 | 43.1 | 6.02 | 44.4 | 6.17 | 46.1 | 6.30 | 47.4 | 6.41 |
| | | 265.0 | 33.6 | 3.75 | 36.5 | 4.48 | 39.7 | 5.23 | 43.1 | 5.88 | 44.4 | 6.05 | 46.1 | 6.18 | 47.4 | 6.24 |
| | | 318.0 | 33.6 | 3.70 | 36.5 | 4.42 | 39.7 | 5.18 | 43.1 | 5.81 | 44.4 | 5.99 | 46.1 | 6.14 | 47.4 | 6.17 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 84.8 | 33.6 | 5.29 | 36.5 | 6.12 | 39.7 | 7.15 | 43.1 | 8.02 | 44.4 | 8.23 | 46.1 | 8.43 | 47.4 | 8.56 |
| | | 106.0 | 33.6 | 5.18 | 36.5 | 6.02 | 39.7 | 7.03 | 43.1 | 7.90 | 44.4 | 8.10 | 46.1 | 8.29 | 47.4 | 8.43 |
| | | 212.0 | 33.6 | 4.76 | 36.5 | 5.63 | 39.7 | 6.55 | 43.1 | 7.39 | 44.4 | 7.56 | 46.1 | 7.75 | 47.4 | 7.90 |
| | | 265.0 | 33.6 | 4.62 | 36.5 | 5.52 | 39.7 | 6.44 | 43.1 | 7.25 | 44.4 | 7.42 | 46.1 | 7.62 | 47.4 | 7.70 |
| | | 318.0 | 33.6 | 4.55 | 36.5 | 5.46 | 39.7 | 6.38 | 43.1 | 7.18 | 44.4 | 7.35 | 46.1 | 7.54 | 47.4 | 7.60 |
| | 35 | 84.8 | 33.6 | 5.85 | 36.5 | 6.80 | 39.7 | 7.95 | 43.1 | 8.94 | 44.4 | 9.14 | 46.1 | 9.36 | 47.4 | 9.53 |
| | | 106.0 | 33.6 | 5.74 | 36.5 | 6.69 | 39.7 | 7.81 | 43.1 | 8.79 | 44.4 | 8.99 | 46.1 | 9.21 | 47.4 | 9.38 |
| | | 212.0 | 33.6 | 5.29 | 36.5 | 6.27 | 39.7 | 7.28 | 43.1 | 8.20 | 44.4 | 8.40 | 46.1 | 8.63 | 47.4 | 8.79 |
| | | 265.0 | 33.6 | 5.13 | 36.5 | 6.14 | 39.7 | 7.14 | 43.1 | 8.07 | 44.4 | 8.26 | 46.1 | 8.46 | 47.4 | 8.54 |
| | | 318.0 | 33.6 | 5.04 | 36.5 | 6.06 | 39.7 | 7.07 | 43.1 | 7.99 | 44.4 | 8.19 | 46.1 | 8.37 | 47.4 | 8.41 |
| | 40 | 84.8 | 33.6 | 6.95 | 36.5 | 8.05 | 39.7 | 9.39 | 43.1 | 10.56 | 44.4 | 10.81 | 46.1 | 11.10 | 47.4 | 11.30 |
| | | 106.0 | 33.6 | 6.80 | 36.5 | 7.92 | 39.7 | 9.24 | 43.1 | 10.39 | 44.4 | 10.64 | 46.1 | 10.92 | 47.4 | 11.11 |
| | | 212.0 | 33.6 | 6.24 | 36.5 | 7.42 | 39.7 | 8.63 | 43.1 | 9.71 | 44.4 | 9.97 | 46.1 | 10.22 | 47.4 | 10.39 |
| | | 265.0 | 33.6 | 6.08 | 36.5 | 7.25 | 39.7 | 8.46 | 43.1 | 9.55 | 44.4 | 9.77 | 46.1 | 10.03 | 47.4 | 10.13 |
| | | 318.0 | 33.6 | 5.99 | 36.5 | 7.16 | 39.7 | 8.37 | 43.1 | 9.47 | 44.4 | 9.68 | 46.1 | 9.92 | 47.4 | 10.01 |
| | 45 | 84.8 | 33.6 | 8.04 | 36.5 | 9.30 | 39.7 | 10.84 | 43.1 | 12.17 | 44.4 | 12.48 | 46.1 | 12.83 | 47.4 | 13.07 |
| | | 106.0 | 33.6 | 7.87 | 36.5 | 9.15 | 39.7 | 10.66 | 43.1 | 11.99 | 44.4 | 12.29 | 46.1 | 12.62 | 47.4 | 12.85 |
| | | 212.0 | 33.6 | 7.19 | 36.5 | 8.57 | 39.7 | 9.97 | 43.1 | 11.23 | 44.4 | 11.54 | 46.1 | 11.82 | 47.4 | 11.99 |
| | | 265.0 | 33.6 | 7.03 | 36.5 | 8.37 | 39.7 | 9.77 | 43.1 | 11.04 | 44.4 | 11.28 | 46.1 | 11.59 | 47.4 | 11.73 |
| | | 318.0 | 33.6 | 6.95 | 36.5 | 8.28 | 39.7 | 9.68 | 43.1 | 10.93 | 44.4 | 11.16 | 46.1 | 11.48 | 47.4 | 11.61 |
| 60 | 10 | 84.8 | 28.8 | 1.72 | 31.3 | 1.98 | 34.0 | 2.28 | 36.9 | 2.58 | 38.0 | 2.64 | 39.6 | 2.73 | 40.7 | 2.73 |
| | | 106.0 | 28.8 | 1.67 | 31.3 | 1.94 | 34.0 | 2.23 | 36.9 | 2.53 | 38.0 | 2.59 | 39.6 | 2.67 | 40.7 | 2.70 |
| | | 212.0 | 28.8 | 1.51 | 31.3 | 1.81 | 34.0 | 2.07 | 36.9 | 2.37 | 38.0 | 2.37 | 39.6 | 2.45 | 40.7 | 2.53 |
| | | 265.0 | 28.8 | 1.45 | 31.3 | 1.75 | 34.0 | 2.05 | 36.9 | 2.32 | 38.0 | 2.34 | 39.6 | 2.40 | 40.7 | 2.43 |
| | | 318.0 | 28.8 | 1.42 | 31.3 | 1.72 | 34.0 | 2.04 | 36.9 | 2.29 | 38.0 | 2.32 | 39.6 | 2.37 | 40.7 | 2.37 |
| | 15 | 84.8 | 28.8 | 2.29 | 31.3 | 2.64 | 34.0 | 3.08 | 36.9 | 3.47 | 38.0 | 3.56 | 39.6 | 3.65 | 40.7 | 3.70 |
| | | 106.0 | 28.8 | 2.24 | 31.3 | 2.61 | 34.0 | 3.03 | 36.9 | 3.42 | 38.0 | 3.50 | 39.6 | 3.59 | 40.7 | 3.64 |
| | | 212.0 | 28.8 | 2.05 | 31.3 | 2.44 | 34.0 | 2.83 | 36.9 | 3.20 | 38.0 | 3.24 | 39.6 | 3.33 | 40.7 | 3.42 |
| | | 265.0 | 28.8 | 1.99 | 31.3 | 2.38 | 34.0 | 2.77 | 36.9 | 3.14 | 38.0 | 3.20 | 39.6 | 3.27 | 40.7 | 3.30 |
| | | 318.0 | 28.8 | 1.96 | 31.3 | 2.35 | 34.0 | 2.74 | 36.9 | 3.11 | 38.0 | 3.17 | 39.6 | 3.24 | 40.7 | 3.24 |
| | 20 | 84.8 | 28.8 | 2.80 | 31.3 | 3.24 | 34.0 | 3.78 | 36.9 | 4.27 | 38.0 | 4.39 | 39.6 | 4.46 | 40.7 | 4.55 |
| | | 106.0 | 28.8 | 2.74 | 31.3 | 3.20 | 34.0 | 3.72 | 36.9 | 4.20 | 38.0 | 4.31 | 39.6 | 4.40 | 40.7 | 4.48 |
| | | 212.0 | 28.8 | 2.52 | 31.3 | 3.00 | 34.0 | 3.50 | 36.9 | 3.92 | 38.0 | 4.03 | 39.6 | 4.12 | 40.7 | 4.20 |
| | | 265.0 | 28.8 | 2.46 | 31.3 | 2.94 | 34.0 | 3.42 | 36.9 | 3.86 | 38.0 | 3.95 | 39.6 | 4.06 | 40.7 | 4.09 |
| | | 318.0 | 28.8 | 2.44 | 31.3 | 2.91 | 34.0 | 3.38 | 36.9 | 3.83 | 38.0 | 3.91 | 39.6 | 4.03 | 40.7 | 4.03 |
| | 25 | 84.8 | 28.8 | 3.44 | 31.3 | 3.95 | 34.0 | 4.60 | 36.9 | 5.20 | 38.0 | 5.32 | 39.6 | 5.46 | 40.7 | 5.55 |
| | | 106.0 | 28.8 | 3.36 | 31.3 | 3.89 | 34.0 | 4.54 | 36.9 | 5.13 | 38.0 | 5.23 | 39.6 | 5.38 | 40.7 | 5.46 |
| | | 212.0 | 28.8 | 3.08 | 31.3 | 3.64 | 34.0 | 4.25 | 36.9 | 4.79 | 38.0 | 4.90 | 39.6 | 5.04 | 40.7 | 5.13 |
| | | 265.0 | 28.8 | 3.00 | 31.3 | 3.59 | 34.0 | 4.18 | 36.9 | 4.70 | 38.0 | 4.81 | 39.6 | 4.93 | 40.7 | 4.99 |
| | | 318.0 | 28.8 | 2.96 | 31.3 | 3.56 | 34.0 | 4.13 | 36.9 | 4.66 | 38.0 | 4.78 | 39.6 | 4.87 | 40.7 | 4.92 |
| | 30 | 84.8 | 28.8 | 4.21 | 31.3 | 4.90 | 34.0 | 5.69 | 36.9 | 6.41 | 38.0 | 6.55 | 39.6 | 6.71 | 40.7 | 6.83 |
| | | 106.0 | 28.8 | 4.12 | 31.3 | 4.81 | 34.0 | 5.60 | 36.9 | 6.30 | 38.0 | 6.44 | 39.6 | 6.61 | 40.7 | 6.72 |
| | | 212.0 | 28.8 | 3.78 | 31.3 | 4.48 | 34.0 | 5.23 | 36.9 | 5.88 | 38.0 | 6.02 | 39.6 | 6.18 | 40.7 | 6.30 |
| | | 265.0 | 28.8 | 3.70 | 31.3 | 4.40 | 34.0 | 5.13 | 36.9 | 5.77 | 38.0 | 5.91 | 39.6 | 6.08 | 40.7 | 6.14 |
| | | 318.0 | 28.8 | 3.65 | 31.3 | 4.36 | 34.0 | 5.07 | 36.9 | 5.71 | 38.0 | 5.85 | 39.6 | 6.02 | 40.7 | 6.05 |
| | 35 | 84.8 | 28.8 | 4.66 | 31.3 | 5.44 | 34.0 | 6.32 | 36.9 | 7.12 | 38.0 | 7.29 | 39.6 | 7.45 | 40.7 | 7.60 |
| | | 106.0 | 28.8 | 4.57 | 31.3 | 5.35 | 34.0 | 6.21 | 36.9 | 7.00 | 38.0 | 7.16 | 39.6 | 7.33 | 40.7 | 7.48 |
| | | 212.0 | 28.8 | 4.20 | 31.3 | 4.99 | 34.0 | 5.82 | 36.9 | 6.55 | 38.0 | 6.69 | 39.6 | 6.89 | 40.7 | 7.00 |
| | | 265.0 | 28.8 | 4.09 | 31.3 | 4.87 | 34.0 | 5.68 | 36.9 | 6.41 | 38.0 | 6.58 | 39.6 | 6.74 | 40.7 | 6.80 |
| | | 318.0 | 28.8 | 4.03 | 31.3 | 4.81 | 34.0 | 5.61 | 36.9 | 6.35 | 38.0 | 6.53 | 39.6 | 6.68 | 40.7 | 6.71 |
| | 40 | 84.8 | 28.8 | 5.55 | 31.3 | 6.44 | 34.0 | 7.48 | 36.9 | 8.43 | 38.0 | 8.63 | 39.6 | 8.85 | 40.7 | 8.99 |
| | | 106.0 | 28.8 | 5.43 | 31.3 | 6.33 | 34.0 | 7.36 | 36.9 | 8.29 | 38.0 | 8.49 | 39.6 | 8.70 | 40.7 | 8.85 |
| | | 212.0 | 28.8 | 4.99 | 31.3 | 5.91 | 34.0 | 6.89 | 36.9 | 7.75 | 38.0 | 7.92 | 39.6 | 8.14 | 40.7 | 8.29 |
| | | 265.0 | 28.8 | 4.84 | 31.3 | 5.79 | 34.0 | 6.74 | 36.9 | 7.59 | 38.0 | 7.78 | 39.6 | 7.98 | 40.7 | 8.07 |
| | | 318.0 | 28.8 | 4.78 | 31.3 | 5.74 | 34.0 | 6.68 | 36.9 | 7.51 | 38.0 | 7.72 | 39.6 | 7.90 | 40.7 | 7.95 |
| | 45 | 84.8 | 28.8 | 6.44 | 31.3 | 7.43 | 34.0 | 8.65 | 36.9 | 9.73 | 38.0 | 9.97 | 39.6 | 10.25 | 40.7 | 10.39 |
| | | 106.0 | 28.8 | 6.30 | 31.3 | 7.31 | 34.0 | 8.51 | 36.9 | 9.58 | 38.0 | 9.80 | 39.6 | 10.08 | 40.7 | 10.22 |
| | | 212.0 | 28.8 | 5.77 | 31.3 | 6.83 | 34.0 | 7.95 | 36.9 | 8.96 | 38.0 | 9.15 | 39.6 | 9.41 | 40.7 | 9.58 |
| | | 265.0 | 28.8 | 5.60 | 31.3 | 6.72 | 34.0 | 7.81 | 36.9 | 8.76 | 38.0 | 8.99 | 39.6 | 9.21 | 40.7 | 9.32 |
| | | 318.0 | 28.8 | 5.52 | 31.3 | 6.66 | 34.0 | 7.74 | 36.9 | 8.67 | 38.0 | 8.90 | 39.6 | 9.11 | 40.7 | 9.20 |
| 50 | 10 | 84.8 | 24.0 | 1.22 | 26.1 | 1.45 | 28.3 | 1.75 | 30.8 | 1.92 | 31.7 | 1.93 | 33.0 | 2.00 | 33.9 | 2.05 |
| | | 106.0 | 24.0 | 1.21 | 26.1 | 1.43 | 28.3 | 1.70 | 30.8 | 1.89 | 31.7 | 1.91 | 33.0 | 1.96 | 33.9 | 2.02 |
| | | 212.0 | 24.0 | 1.16 | 26.1 | 1.34 | 28.3 | 1.54 | 30.8 | 1.75 | 31.7 | 1.81 | 33.0 | 1.83 | 33.9 | 1.89 |
| | | 265.0 | 24.0 | 1.10 | 26.1 | 1.30 | 28.3 | 1.54 | 30.8 | 1.69 | 31.7 | 1.75 | 33.0 | 1.78 | 33.9 | 1.81 |
| | | 318.0 | 24.0 | 1.07 | 26.1 | 1.27 | 28.3 | 1.54 | 30.8 | 1.66 | 31.7 | 1.72 | 33.0 | 1.75 | 33.9 | 1.76 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 84.8 | 24.0 | 1.68 | 26.1 | 1.96 | 28.3 | 2.31 | 30.8 | 2.59 | 31.7 | 2.64 | 33.0 | 2.70 | 33.9 | 2.76 |
| | | 106.0 | 24.0 | 1.66 | 26.1 | 1.93 | 28.3 | 2.26 | 30.8 | 2.55 | 31.7 | 2.61 | 33.0 | 2.66 | 33.9 | 2.71 |
| | | 212.0 | 24.0 | 1.54 | 26.1 | 1.82 | 28.3 | 2.10 | 30.8 | 2.38 | 31.7 | 2.44 | 33.0 | 2.49 | 33.9 | 2.55 |
| | | 265.0 | 24.0 | 1.48 | 26.1 | 1.76 | 28.3 | 2.07 | 30.8 | 2.32 | 31.7 | 2.38 | 33.0 | 2.44 | 33.9 | 2.46 |
| | | 318.0 | 24.0 | 1.46 | 26.1 | 1.73 | 28.3 | 2.05 | 30.8 | 2.29 | 31.7 | 2.35 | 33.0 | 2.41 | 33.9 | 2.43 |
| | 20 | 84.8 | 24.0 | 2.08 | 26.1 | 2.41 | 28.3 | 2.82 | 30.8 | 3.18 | 31.7 | 3.27 | 33.0 | 3.33 | 33.9 | 3.38 |
| | | 106.0 | 24.0 | 2.05 | 26.1 | 2.38 | 28.3 | 2.77 | 30.8 | 3.14 | 31.7 | 3.22 | 33.0 | 3.27 | 33.9 | 3.33 |
| | | 212.0 | 24.0 | 1.87 | 26.1 | 2.24 | 28.3 | 2.61 | 30.8 | 2.94 | 31.7 | 3.00 | 33.0 | 3.08 | 33.9 | 3.14 |
| | | 265.0 | 24.0 | 1.82 | 26.1 | 2.19 | 28.3 | 2.55 | 30.8 | 2.88 | 31.7 | 2.94 | 33.0 | 3.03 | 33.9 | 3.05 |
| | | 318.0 | 24.0 | 1.79 | 26.1 | 2.16 | 28.3 | 2.52 | 30.8 | 2.85 | 31.7 | 2.91 | 33.0 | 3.00 | 33.9 | 3.01 |
| | 25 | 84.8 | 24.0 | 2.55 | 26.1 | 2.96 | 28.3 | 3.44 | 30.8 | 3.86 | 31.7 | 3.98 | 33.0 | 4.07 | 33.9 | 4.16 |
| | | 106.0 | 24.0 | 2.49 | 26.1 | 2.91 | 28.3 | 3.39 | 30.8 | 3.81 | 31.7 | 3.92 | 33.0 | 4.01 | 33.9 | 4.09 |
| | | 212.0 | 24.0 | 2.29 | 26.1 | 2.71 | 28.3 | 3.17 | 30.8 | 3.59 | 31.7 | 3.67 | 33.0 | 3.75 | 33.9 | 3.81 |
| | | 265.0 | 24.0 | 2.24 | 26.1 | 2.66 | 28.3 | 3.11 | 30.8 | 3.50 | 31.7 | 3.59 | 33.0 | 3.67 | 33.9 | 3.72 |
| | | 318.0 | 24.0 | 2.22 | 26.1 | 2.64 | 28.3 | 3.08 | 30.8 | 3.45 | 31.7 | 3.54 | 33.0 | 3.62 | 33.9 | 3.68 |
| | 30 | 84.8 | 24.0 | 3.14 | 26.1 | 3.64 | 28.3 | 4.24 | 30.8 | 4.78 | 31.7 | 4.90 | 33.0 | 5.01 | 33.9 | 5.09 |
| | | 106.0 | 24.0 | 3.08 | 26.1 | 3.59 | 28.3 | 4.18 | 30.8 | 4.70 | 31.7 | 4.81 | 33.0 | 4.93 | 33.9 | 5.01 |
| | | 212.0 | 24.0 | 2.83 | 26.1 | 3.36 | 28.3 | 3.89 | 30.8 | 4.40 | 31.7 | 4.51 | 33.0 | 4.62 | 33.9 | 4.70 |
| | | 265.0 | 24.0 | 2.74 | 26.1 | 3.27 | 28.3 | 3.81 | 30.8 | 4.31 | 31.7 | 4.42 | 33.0 | 4.54 | 33.9 | 4.57 |
| | | 318.0 | 24.0 | 2.70 | 26.1 | 3.23 | 28.3 | 3.77 | 30.8 | 4.27 | 31.7 | 4.39 | 33.0 | 4.49 | 33.9 | 4.49 |
| | 35 | 84.8 | 24.0 | 3.48 | 26.1 | 4.04 | 28.3 | 4.72 | 30.8 | 5.29 | 31.7 | 5.44 | 33.0 | 5.58 | 33.9 | 5.67 |
| | | 106.0 | 24.0 | 3.42 | 26.1 | 3.98 | 28.3 | 4.65 | 30.8 | 5.20 | 31.7 | 5.35 | 33.0 | 5.49 | 33.9 | 5.58 |
| | | 212.0 | 24.0 | 3.14 | 26.1 | 3.72 | 28.3 | 4.34 | 30.8 | 4.87 | 31.7 | 4.99 | 33.0 | 5.13 | 33.9 | 5.20 |
| | | 265.0 | 24.0 | 3.05 | 26.1 | 3.64 | 28.3 | 4.25 | 30.8 | 4.79 | 31.7 | 4.90 | 33.0 | 5.04 | 33.9 | 5.07 |
| | | 318.0 | 24.0 | 3.01 | 26.1 | 3.60 | 28.3 | 4.21 | 30.8 | 4.75 | 31.7 | 4.86 | 33.0 | 4.99 | 33.9 | 4.99 |
| | 40 | 84.8 | 24.0 | 4.11 | 26.1 | 4.78 | 28.3 | 5.58 | 30.8 | 6.29 | 31.7 | 6.44 | 33.0 | 6.60 | 33.9 | 6.71 |
| | | 106.0 | 24.0 | 4.03 | 26.1 | 4.70 | 28.3 | 5.49 | 30.8 | 6.18 | 31.7 | 6.33 | 33.0 | 6.50 | 33.9 | 6.61 |
| | | 212.0 | 24.0 | 3.72 | 26.1 | 4.40 | 28.3 | 5.13 | 30.8 | 5.77 | 31.7 | 5.91 | 33.0 | 6.08 | 33.9 | 6.18 |
| | | 265.0 | 24.0 | 3.62 | 26.1 | 4.31 | 28.3 | 5.04 | 30.8 | 5.66 | 31.7 | 5.79 | 33.0 | 5.97 | 33.9 | 6.02 |
| | | 318.0 | 24.0 | 3.56 | 26.1 | 4.27 | 28.3 | 4.99 | 30.8 | 5.60 | 31.7 | 5.74 | 33.0 | 5.91 | 33.9 | 5.94 |
| | 45 | 84.8 | 24.0 | 4.73 | 26.1 | 5.52 | 28.3 | 6.44 | 30.8 | 7.30 | 31.7 | 7.43 | 33.0 | 7.63 | 33.9 | 7.77 |
| | | 106.0 | 24.0 | 4.65 | 26.1 | 5.43 | 28.3 | 6.33 | 30.8 | 7.16 | 31.7 | 7.31 | 33.0 | 7.51 | 33.9 | 7.64 |
| | | 212.0 | 24.0 | 4.31 | 26.1 | 5.07 | 28.3 | 5.91 | 30.8 | 6.66 | 31.7 | 6.83 | 33.0 | 7.03 | 33.9 | 7.16 |
| | | 265.0 | 24.0 | 4.18 | 26.1 | 4.99 | 28.3 | 5.82 | 30.8 | 6.53 | 31.7 | 6.69 | 33.0 | 6.89 | 33.9 | 6.97 |
| | | 318.0 | 24.0 | 4.10 | 26.1 | 4.94 | 28.3 | 5.78 | 30.8 | 6.45 | 31.7 | 6.62 | 33.0 | 6.82 | 33.9 | 6.88 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN240BAS4

**Cooling Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 92.4 | 62.4 | 4.52 | 67.6 | 5.29 | 73.8 | 6.17 | 80.1 | 6.95 | 82.4 | 7.15 | 85.6 | 7.28 | 88.0 | 7.34 |
| | | 115.5 | 62.4 | 4.44 | 67.6 | 5.21 | 73.8 | 6.07 | 80.1 | 6.84 | 82.4 | 7.02 | 85.6 | 7.17 | 88.0 | 7.25 |
| | | 231.0 | 62.4 | 4.12 | 67.6 | 4.88 | 73.8 | 5.69 | 80.1 | 6.40 | 82.4 | 6.51 | 85.6 | 6.72 | 88.0 | 6.88 |
| | | 288.8 | 62.4 | 4.00 | 67.6 | 4.77 | 73.8 | 5.56 | 80.1 | 6.24 | 82.4 | 6.43 | 85.6 | 6.57 | 88.0 | 6.69 |
| | | 346.5 | 62.4 | 3.94 | 67.6 | 4.71 | 73.8 | 5.51 | 80.1 | 6.17 | 82.4 | 6.39 | 85.6 | 6.50 | 88.0 | 6.60 |
| | 15 | 92.4 | 61.4 | 5.97 | 66.6 | 6.94 | 72.5 | 8.09 | 78.8 | 9.12 | 81.1 | 9.35 | 84.3 | 9.55 | 86.6 | 9.70 |
| | | 115.5 | 61.4 | 5.85 | 66.6 | 6.83 | 72.5 | 7.96 | 78.8 | 8.97 | 81.1 | 9.19 | 84.3 | 9.41 | 86.6 | 9.56 |
| | | 231.0 | 61.4 | 5.39 | 66.6 | 6.40 | 72.5 | 7.44 | 78.8 | 8.39 | 81.1 | 8.58 | 84.3 | 8.83 | 86.6 | 9.00 |
| | | 288.8 | 61.4 | 5.24 | 66.6 | 6.25 | 72.5 | 7.29 | 78.8 | 8.21 | 81.1 | 8.42 | 84.3 | 8.64 | 86.6 | 8.80 |
| | | 346.5 | 61.4 | 5.16 | 66.6 | 6.17 | 72.5 | 7.21 | 78.8 | 8.12 | 81.1 | 8.35 | 84.3 | 8.55 | 86.6 | 8.68 |
| | 20 | 92.4 | 60.6 | 7.25 | 65.6 | 8.41 | 71.4 | 9.81 | 77.7 | 11.05 | 80.0 | 11.30 | 83.1 | 11.57 | 85.4 | 11.79 |
| | | 115.5 | 60.6 | 7.11 | 65.6 | 8.28 | 71.4 | 9.65 | 77.7 | 10.88 | 80.0 | 11.12 | 83.1 | 11.40 | 85.4 | 11.61 |
| | | 231.0 | 60.6 | 6.53 | 65.6 | 7.75 | 71.4 | 9.00 | 77.7 | 10.17 | 80.0 | 10.42 | 83.1 | 10.69 | 85.4 | 10.91 |
| | | 288.8 | 60.6 | 6.34 | 65.6 | 7.57 | 71.4 | 8.83 | 77.7 | 9.96 | 80.0 | 10.20 | 83.1 | 10.48 | 85.4 | 10.66 |
| | | 346.5 | 60.6 | 6.25 | 65.6 | 7.47 | 71.4 | 8.73 | 77.7 | 9.85 | 80.0 | 10.10 | 83.1 | 10.37 | 85.4 | 10.53 |
| | 25 | 92.4 | 60.6 | 8.94 | 65.6 | 10.36 | 71.4 | 12.08 | 77.7 | 13.61 | 80.0 | 13.94 | 83.1 | 14.29 | 85.4 | 14.52 |
| | | 115.5 | 60.6 | 8.76 | 65.6 | 10.20 | 71.4 | 11.89 | 77.7 | 13.39 | 80.0 | 13.73 | 83.1 | 14.06 | 85.4 | 14.30 |
| | | 231.0 | 60.6 | 8.06 | 65.6 | 9.56 | 71.4 | 11.12 | 77.7 | 12.53 | 80.0 | 12.83 | 83.1 | 13.18 | 85.4 | 13.45 |
| | | 288.8 | 60.6 | 7.84 | 65.6 | 9.35 | 71.4 | 10.91 | 77.7 | 12.28 | 80.0 | 12.60 | 83.1 | 12.93 | 85.4 | 13.15 |
| | | 346.5 | 60.6 | 7.73 | 65.6 | 9.23 | 71.4 | 10.79 | 77.7 | 12.16 | 80.0 | 12.47 | 83.1 | 12.80 | 85.4 | 12.99 |
| | 30 | 92.4 | 60.6 | 10.72 | 65.6 | 12.45 | 71.4 | 14.51 | 77.7 | 16.34 | 80.0 | 16.72 | 83.1 | 17.15 | 85.4 | 17.41 |
| | | 115.5 | 60.6 | 10.51 | 65.6 | 12.25 | 71.4 | 14.28 | 77.7 | 16.08 | 80.0 | 16.45 | 83.1 | 16.88 | 85.4 | 17.15 |
| | | 231.0 | 60.6 | 9.65 | 65.6 | 11.46 | 71.4 | 13.36 | 77.7 | 15.04 | 80.0 | 15.41 | 83.1 | 15.81 | 85.4 | 16.14 |
| | | 288.8 | 60.6 | 9.41 | 65.6 | 11.21 | 71.4 | 13.08 | 77.7 | 14.74 | 80.0 | 15.14 | 83.1 | 15.50 | 85.4 | 15.78 |
| | | 346.5 | 60.6 | 9.29 | 65.6 | 11.09 | 71.4 | 12.95 | 77.7 | 14.58 | 80.0 | 15.00 | 83.1 | 15.35 | 85.4 | 15.59 |
| | 35 | 92.4 | 54.5 | 10.85 | 59.0 | 12.61 | 64.3 | 14.66 | 69.9 | 16.54 | 72.0 | 16.90 | 74.7 | 17.34 | 76.8 | 17.64 |
| | | 115.5 | 54.5 | 10.63 | 59.0 | 12.41 | 64.3 | 14.43 | 69.9 | 16.27 | 72.0 | 16.63 | 74.7 | 17.06 | 76.8 | 17.37 |
| | | 231.0 | 54.5 | 9.77 | 59.0 | 11.59 | 64.3 | 13.51 | 69.9 | 15.20 | 72.0 | 15.59 | 74.7 | 15.99 | 76.8 | 16.30 |
| | | 288.8 | 54.5 | 9.49 | 59.0 | 11.34 | 64.3 | 13.23 | 69.9 | 14.89 | 72.0 | 15.29 | 74.7 | 15.69 | 76.8 | 15.96 |
| | | 346.5 | 54.5 | 9.36 | 59.0 | 11.21 | 64.3 | 13.10 | 69.9 | 14.74 | 72.0 | 15.14 | 74.7 | 15.53 | 76.8 | 15.79 |
| | 40 | 92.4 | 48.4 | 11.44 | 52.5 | 13.29 | 57.1 | 15.47 | 62.1 | 17.44 | 63.9 | 17.84 | 66.5 | 18.26 | 68.3 | 18.60 |
| | | 115.5 | 48.4 | 11.21 | 52.5 | 13.08 | 57.1 | 15.23 | 62.1 | 17.15 | 63.9 | 17.55 | 66.5 | 17.99 | 68.3 | 18.32 |
| | | 231.0 | 48.4 | 10.29 | 52.5 | 12.22 | 57.1 | 14.25 | 62.1 | 16.02 | 63.9 | 16.43 | 66.5 | 16.88 | 68.3 | 17.22 |
| | | 288.8 | 48.4 | 10.01 | 52.5 | 11.95 | 57.1 | 13.94 | 62.1 | 15.72 | 63.9 | 16.11 | 66.5 | 16.54 | 68.3 | 16.82 |
| | | 346.5 | 48.4 | 9.88 | 52.5 | 11.81 | 57.1 | 13.78 | 62.1 | 15.56 | 63.9 | 15.96 | 66.5 | 16.37 | 68.3 | 16.62 |
| | 45 | 92.4 | 42.3 | 12.05 | 45.9 | 13.98 | 49.9 | 16.28 | 54.3 | 18.35 | 55.9 | 18.78 | 58.2 | 19.19 | 59.8 | 19.56 |
| | | 115.5 | 42.3 | 11.79 | 45.9 | 13.75 | 49.9 | 16.02 | 54.3 | 18.05 | 55.9 | 18.48 | 58.2 | 18.90 | 59.8 | 19.27 |
| | | 231.0 | 42.3 | 10.82 | 45.9 | 12.87 | 49.9 | 14.98 | 54.3 | 16.85 | 55.9 | 17.25 | 58.2 | 17.77 | 59.8 | 18.13 |
| | | 288.8 | 42.3 | 10.53 | 45.9 | 12.56 | 49.9 | 14.65 | 54.3 | 16.54 | 55.9 | 16.95 | 58.2 | 17.40 | 59.8 | 17.68 |
| | | 346.5 | 42.3 | 10.40 | 45.9 | 12.41 | 49.9 | 14.48 | 54.3 | 16.39 | 55.9 | 16.79 | 58.2 | 17.22 | 59.8 | 17.45 |
| 120 | 10 | 92.4 | 59.1 | 4.32 | 64.0 | 4.99 | 69.6 | 5.87 | 75.8 | 6.58 | 78.1 | 6.78 | 81.1 | 6.92 | 83.4 | 7.04 |
| | | 115.5 | 59.1 | 4.23 | 64.0 | 4.91 | 69.6 | 5.77 | 75.8 | 6.47 | 78.1 | 6.66 | 81.1 | 6.80 | 83.4 | 6.92 |
| | | 231.0 | 59.1 | 3.87 | 64.0 | 4.58 | 69.6 | 5.35 | 75.8 | 6.07 | 78.1 | 6.18 | 81.1 | 6.36 | 83.4 | 6.44 |
| | | 288.8 | 59.1 | 3.82 | 64.0 | 4.49 | 69.6 | 5.30 | 75.8 | 5.94 | 78.1 | 6.06 | 81.1 | 6.24 | 83.4 | 6.33 |
| | | 346.5 | 59.1 | 3.79 | 64.0 | 4.45 | 69.6 | 5.27 | 75.8 | 5.88 | 78.1 | 6.00 | 81.1 | 6.18 | 83.4 | 6.27 |
| | 15 | 92.4 | 58.5 | 5.72 | 63.3 | 6.63 | 68.9 | 7.76 | 75.0 | 8.71 | 77.2 | 8.94 | 80.1 | 9.16 | 82.4 | 9.31 |
| | | 115.5 | 58.5 | 5.61 | 63.3 | 6.53 | 68.9 | 7.63 | 75.0 | 8.58 | 77.2 | 8.80 | 80.1 | 9.00 | 82.4 | 9.16 |
| | | 231.0 | 58.5 | 5.14 | 63.3 | 6.10 | 68.9 | 7.11 | 75.0 | 8.03 | 77.2 | 8.21 | 80.1 | 8.42 | 82.4 | 8.58 |
| | | 288.8 | 58.5 | 5.03 | 63.3 | 5.97 | 68.9 | 6.98 | 75.0 | 7.87 | 77.2 | 8.06 | 80.1 | 8.28 | 82.4 | 8.39 |
| | | 346.5 | 58.5 | 4.97 | 63.3 | 5.91 | 68.9 | 6.92 | 75.0 | 7.80 | 77.2 | 7.98 | 80.1 | 8.19 | 82.4 | 8.31 |
| | 20 | 92.4 | 57.9 | 6.98 | 62.7 | 8.09 | 68.2 | 9.44 | 74.2 | 10.62 | 76.3 | 10.86 | 79.3 | 11.14 | 81.6 | 11.33 |
| | | 115.5 | 57.9 | 6.83 | 62.7 | 7.96 | 68.2 | 9.28 | 74.2 | 10.45 | 76.3 | 10.69 | 79.3 | 10.97 | 81.6 | 11.15 |
| | | 231.0 | 57.9 | 6.28 | 62.7 | 7.44 | 68.2 | 8.67 | 74.2 | 9.77 | 76.3 | 10.01 | 79.3 | 10.26 | 81.6 | 10.48 |
| | | 288.8 | 57.9 | 6.10 | 62.7 | 7.29 | 68.2 | 8.48 | 74.2 | 9.59 | 76.3 | 9.84 | 79.3 | 10.08 | 81.6 | 10.23 |
| | | 346.5 | 57.9 | 6.01 | 62.7 | 7.21 | 68.2 | 8.39 | 74.2 | 9.49 | 76.3 | 9.74 | 79.3 | 9.98 | 81.6 | 10.11 |
| | 25 | 92.4 | 57.9 | 8.57 | 62.7 | 9.93 | 68.2 | 11.59 | 74.2 | 13.05 | 76.3 | 13.36 | 79.3 | 13.70 | 81.6 | 13.94 |
| | | 115.5 | 57.9 | 8.39 | 62.7 | 9.77 | 68.2 | 11.40 | 74.2 | 12.83 | 76.3 | 13.15 | 79.3 | 13.48 | 81.6 | 13.73 |
| | | 231.0 | 57.9 | 7.72 | 62.7 | 9.16 | 68.2 | 10.66 | 74.2 | 12.01 | 76.3 | 12.28 | 79.3 | 12.63 | 81.6 | 12.87 |
| | | 288.8 | 57.9 | 7.51 | 62.7 | 8.94 | 68.2 | 10.45 | 74.2 | 11.76 | 76.3 | 12.07 | 79.3 | 12.38 | 81.6 | 12.56 |
| | | 346.5 | 57.9 | 7.40 | 62.7 | 8.84 | 68.2 | 10.34 | 74.2 | 11.64 | 76.3 | 11.96 | 79.3 | 12.25 | 81.6 | 12.41 |
| | 30 | 92.4 | 57.9 | 10.34 | 62.7 | 12.02 | 68.2 | 14.01 | 74.2 | 15.79 | 76.3 | 16.17 | 79.3 | 16.56 | 81.6 | 16.83 |
| | | 115.5 | 57.9 | 10.14 | 62.7 | 11.82 | 68.2 | 13.78 | 74.2 | 15.53 | 76.3 | 15.91 | 79.3 | 16.30 | 81.6 | 16.57 |
| | | 231.0 | 57.9 | 9.35 | 62.7 | 11.05 | 68.2 | 12.90 | 74.2 | 14.52 | 76.3 | 14.85 | 79.3 | 15.26 | 81.6 | 15.56 |
| | | 288.8 | 57.9 | 9.07 | 62.7 | 10.82 | 68.2 | 12.63 | 74.2 | 14.22 | 76.3 | 14.58 | 79.3 | 14.98 | 81.6 | 15.20 |
| | | 346.5 | 57.9 | 8.93 | 62.7 | 10.69 | 68.2 | 12.48 | 74.2 | 14.06 | 76.3 | 14.45 | 79.3 | 14.84 | 81.6 | 15.01 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 92.4 | 52.9 | 10.59 | 57.3 | 12.34 | 62.4 | 14.36 | 67.8 | 16.15 | 69.9 | 16.56 | 72.6 | 16.96 | 74.7 | 17.28 |
| | | 115.5 | 52.9 | 10.39 | 57.3 | 12.14 | 62.4 | 14.13 | 67.8 | 15.91 | 69.9 | 16.30 | 72.6 | 16.70 | 74.7 | 17.00 |
| | | 231.0 | 52.9 | 9.56 | 57.3 | 11.34 | 62.4 | 13.21 | 67.8 | 14.89 | 69.9 | 15.26 | 72.6 | 15.66 | 74.7 | 15.93 |
| | | 288.8 | 52.9 | 9.32 | 57.3 | 11.09 | 62.4 | 12.93 | 67.8 | 14.58 | 69.9 | 14.95 | 72.6 | 15.35 | 74.7 | 15.56 |
| | | 346.5 | 52.9 | 9.19 | 57.3 | 10.97 | 62.4 | 12.79 | 67.8 | 14.43 | 69.9 | 14.80 | 72.6 | 15.20 | 74.7 | 15.39 |
| | 40 | 92.4 | 48.0 | 11.40 | 52.0 | 13.26 | 56.7 | 15.44 | 61.6 | 17.41 | 63.3 | 17.81 | 65.9 | 18.24 | 67.8 | 18.58 |
| | | 115.5 | 48.0 | 11.18 | 52.0 | 13.05 | 56.7 | 15.20 | 61.6 | 17.12 | 63.3 | 17.53 | 65.9 | 17.96 | 67.8 | 18.29 |
| | | 231.0 | 48.0 | 10.29 | 52.0 | 12.19 | 56.7 | 14.22 | 61.6 | 16.02 | 63.3 | 16.39 | 65.9 | 16.82 | 67.8 | 17.15 |
| | | 288.8 | 48.0 | 10.01 | 52.0 | 11.95 | 56.7 | 13.94 | 61.6 | 15.69 | 63.3 | 16.08 | 65.9 | 16.51 | 67.8 | 16.76 |
| | | 346.5 | 48.0 | 9.88 | 52.0 | 11.83 | 56.7 | 13.80 | 61.6 | 15.52 | 63.3 | 15.93 | 65.9 | 16.36 | 67.8 | 16.56 |
| | 45 | 92.4 | 43.2 | 12.22 | 46.7 | 14.20 | 50.9 | 16.53 | 55.3 | 18.65 | 56.8 | 19.06 | 59.1 | 19.52 | 60.9 | 19.88 |
| | | 115.5 | 43.2 | 11.98 | 46.7 | 13.97 | 50.9 | 16.27 | 55.3 | 18.35 | 56.8 | 18.75 | 59.1 | 19.21 | 60.9 | 19.58 |
| | | 231.0 | 43.2 | 11.03 | 46.7 | 13.05 | 50.9 | 15.23 | 55.3 | 17.15 | 56.8 | 17.53 | 59.1 | 17.99 | 60.9 | 18.38 |
| | | 288.8 | 43.2 | 10.72 | 46.7 | 12.80 | 50.9 | 14.95 | 55.3 | 16.79 | 56.8 | 17.22 | 59.1 | 17.68 | 60.9 | 17.96 |
| | | 346.5 | 43.2 | 10.57 | 46.7 | 12.68 | 50.9 | 14.81 | 55.3 | 16.60 | 56.8 | 17.06 | 59.1 | 17.53 | 60.9 | 17.74 |
| 110 | 10 | 92.4 | 55.8 | 4.10 | 60.3 | 4.75 | 65.7 | 5.48 | 71.4 | 6.21 | 73.6 | 6.31 | 76.6 | 6.52 | 78.6 | 6.60 |
| | | 115.5 | 55.8 | 4.02 | 60.3 | 4.67 | 65.7 | 5.40 | 71.4 | 6.11 | 73.6 | 6.23 | 76.6 | 6.40 | 78.6 | 6.49 |
| | | 231.0 | 55.8 | 3.70 | 60.3 | 4.34 | 65.7 | 5.07 | 71.4 | 5.73 | 73.6 | 5.88 | 76.6 | 5.95 | 78.6 | 6.08 |
| | | 288.8 | 55.8 | 3.57 | 60.3 | 4.25 | 65.7 | 4.96 | 71.4 | 5.61 | 73.6 | 5.72 | 76.6 | 5.84 | 78.6 | 6.00 |
| | | 346.5 | 55.8 | 3.51 | 60.3 | 4.21 | 65.7 | 4.90 | 71.4 | 5.55 | 73.6 | 5.65 | 76.6 | 5.78 | 78.6 | 5.95 |
| | 15 | 92.4 | 55.5 | 5.47 | 60.0 | 6.36 | 65.4 | 7.38 | 71.1 | 8.31 | 73.2 | 8.50 | 76.1 | 8.71 | 78.1 | 8.87 |
| | | 115.5 | 55.5 | 5.36 | 60.0 | 6.25 | 65.4 | 7.27 | 71.1 | 8.18 | 73.2 | 8.36 | 76.1 | 8.58 | 78.1 | 8.73 |
| | | 231.0 | 55.5 | 4.93 | 60.0 | 5.82 | 65.4 | 6.80 | 71.1 | 7.66 | 73.2 | 7.84 | 76.1 | 8.03 | 78.1 | 8.18 |
| | | 288.8 | 55.5 | 4.78 | 60.0 | 5.69 | 65.4 | 6.65 | 71.1 | 7.51 | 73.2 | 7.69 | 76.1 | 7.87 | 78.1 | 7.99 |
| | | 346.5 | 55.5 | 4.71 | 60.0 | 5.64 | 65.4 | 6.57 | 71.1 | 7.43 | 73.2 | 7.61 | 76.1 | 7.80 | 78.1 | 7.90 |
| | 20 | 92.4 | 55.2 | 6.69 | 59.7 | 7.79 | 65.1 | 9.06 | 70.7 | 10.18 | 72.8 | 10.43 | 75.6 | 10.68 | 77.7 | 10.89 |
| | | 115.5 | 55.2 | 6.56 | 59.7 | 7.66 | 65.1 | 8.91 | 70.7 | 10.01 | 72.8 | 10.26 | 75.6 | 10.51 | 77.7 | 10.72 |
| | | 231.0 | 55.2 | 6.04 | 59.7 | 7.14 | 65.1 | 8.34 | 70.7 | 9.38 | 72.8 | 9.59 | 75.6 | 9.87 | 77.7 | 10.05 |
| | | 288.8 | 55.2 | 5.85 | 59.7 | 6.98 | 65.1 | 8.15 | 70.7 | 9.19 | 72.8 | 9.44 | 75.6 | 9.68 | 77.7 | 9.77 |
| | | 346.5 | 55.2 | 5.76 | 59.7 | 6.91 | 65.1 | 8.06 | 70.7 | 9.10 | 72.8 | 9.36 | 75.6 | 9.59 | 77.7 | 9.64 |
| | 25 | 92.4 | 55.2 | 8.19 | 59.7 | 9.53 | 65.1 | 11.08 | 70.7 | 12.48 | 72.8 | 12.76 | 75.6 | 13.07 | 77.7 | 13.32 |
| | | 115.5 | 55.2 | 8.03 | 59.7 | 9.38 | 65.1 | 10.91 | 70.7 | 12.28 | 72.8 | 12.56 | 75.6 | 12.87 | 77.7 | 13.12 |
| | | 231.0 | 55.2 | 7.38 | 59.7 | 8.76 | 65.1 | 10.20 | 70.7 | 11.49 | 72.8 | 11.76 | 75.6 | 12.07 | 77.7 | 12.28 |
| | | 288.8 | 55.2 | 7.17 | 59.7 | 8.58 | 65.1 | 9.98 | 70.7 | 11.24 | 72.8 | 11.55 | 75.6 | 11.82 | 77.7 | 11.98 |
| | | 346.5 | 55.2 | 7.06 | 59.7 | 8.48 | 65.1 | 9.88 | 70.7 | 11.12 | 72.8 | 11.44 | 75.6 | 11.70 | 77.7 | 11.83 |
| | 30 | 92.4 | 55.2 | 9.97 | 59.7 | 11.62 | 65.1 | 13.51 | 70.7 | 15.23 | 72.8 | 15.56 | 75.6 | 15.97 | 77.7 | 16.25 |
| | | 115.5 | 55.2 | 9.77 | 59.7 | 11.43 | 65.1 | 13.29 | 70.7 | 14.98 | 72.8 | 15.32 | 75.6 | 15.72 | 77.7 | 15.99 |
| | | 231.0 | 55.2 | 9.00 | 59.7 | 10.66 | 65.1 | 12.44 | 70.7 | 14.00 | 72.8 | 14.33 | 75.6 | 14.71 | 77.7 | 14.98 |
| | | 288.8 | 55.2 | 8.76 | 59.7 | 10.45 | 65.1 | 12.16 | 70.7 | 13.73 | 72.8 | 14.06 | 75.6 | 14.43 | 77.7 | 14.61 |
| | | 346.5 | 55.2 | 8.64 | 59.7 | 10.34 | 65.1 | 12.02 | 70.7 | 13.58 | 72.8 | 13.93 | 75.6 | 14.29 | 77.7 | 14.43 |
| | 35 | 92.4 | 51.3 | 10.38 | 55.6 | 12.05 | 60.6 | 14.04 | 65.9 | 15.82 | 67.8 | 16.18 | 70.5 | 16.59 | 72.4 | 16.90 |
| | | 115.5 | 51.3 | 10.17 | 55.6 | 11.86 | 60.6 | 13.81 | 65.9 | 15.56 | 67.8 | 15.93 | 70.5 | 16.33 | 72.4 | 16.63 |
| | | 231.0 | 51.3 | 9.35 | 55.6 | 11.09 | 60.6 | 12.93 | 65.9 | 14.55 | 67.8 | 14.92 | 70.5 | 15.29 | 72.4 | 15.56 |
| | | 288.8 | 51.3 | 9.10 | 55.6 | 10.85 | 60.6 | 12.66 | 65.9 | 14.28 | 67.8 | 14.61 | 70.5 | 15.01 | 72.4 | 15.20 |
| | | 346.5 | 51.3 | 8.97 | 55.6 | 10.72 | 60.6 | 12.51 | 65.9 | 14.14 | 67.8 | 14.46 | 70.5 | 14.88 | 72.4 | 15.01 |
| | 40 | 92.4 | 47.6 | 11.41 | 51.5 | 13.23 | 56.2 | 15.45 | 61.0 | 17.37 | 62.8 | 17.78 | 65.4 | 18.21 | 67.1 | 18.55 |
| | | 115.5 | 47.6 | 11.18 | 51.5 | 13.02 | 56.2 | 15.20 | 61.0 | 17.09 | 62.8 | 17.50 | 65.4 | 17.92 | 67.1 | 18.26 |
| | | 231.0 | 47.6 | 10.26 | 51.5 | 12.19 | 56.2 | 14.19 | 61.0 | 15.99 | 62.8 | 16.36 | 65.4 | 16.79 | 67.1 | 17.12 |
| | | 288.8 | 47.6 | 9.98 | 51.5 | 11.92 | 56.2 | 13.91 | 61.0 | 15.69 | 62.8 | 16.05 | 65.4 | 16.48 | 67.1 | 16.70 |
| | | 346.5 | 47.6 | 9.85 | 51.5 | 11.78 | 56.2 | 13.77 | 61.0 | 15.53 | 62.8 | 15.91 | 65.4 | 16.33 | 67.1 | 16.48 |
| | 45 | 92.4 | 43.8 | 12.45 | 47.4 | 14.41 | 51.8 | 16.86 | 56.2 | 18.93 | 57.8 | 19.37 | 60.2 | 19.82 | 61.8 | 20.18 |
| | | 115.5 | 43.8 | 12.19 | 47.4 | 14.19 | 51.8 | 16.57 | 56.2 | 18.62 | 57.8 | 19.06 | 60.2 | 19.52 | 61.8 | 19.88 |
| | | 231.0 | 43.8 | 11.18 | 47.4 | 13.29 | 51.8 | 15.44 | 56.2 | 17.44 | 57.8 | 17.80 | 60.2 | 18.29 | 61.8 | 18.68 |
| | | 288.8 | 43.8 | 10.88 | 47.4 | 12.99 | 51.8 | 15.17 | 56.2 | 17.09 | 57.8 | 17.50 | 60.2 | 17.96 | 61.8 | 18.20 |
| | | 346.5 | 43.8 | 10.72 | 47.4 | 12.84 | 51.8 | 15.03 | 56.2 | 16.93 | 57.8 | 17.34 | 60.2 | 17.79 | 61.8 | 17.96 |
| 100 | 10 | 92.4 | 52.5 | 3.81 | 56.7 | 4.48 | 61.8 | 5.17 | 67.2 | 5.79 | 69.3 | 5.94 | 71.9 | 6.14 | 73.9 | 6.27 |
| | | 115.5 | 52.5 | 3.74 | 56.7 | 4.39 | 61.8 | 5.10 | 67.2 | 5.71 | 69.3 | 5.87 | 71.9 | 6.04 | 73.9 | 6.16 |
| | | 231.0 | 52.5 | 3.45 | 56.7 | 4.06 | 61.8 | 4.78 | 67.2 | 5.39 | 69.3 | 5.55 | 71.9 | 5.66 | 73.9 | 5.71 |
| | | 288.8 | 52.5 | 3.39 | 56.7 | 3.97 | 61.8 | 4.68 | 67.2 | 5.24 | 69.3 | 5.39 | 71.9 | 5.55 | 73.9 | 5.63 |
| | | 346.5 | 52.5 | 3.37 | 56.7 | 3.93 | 61.8 | 4.64 | 67.2 | 5.17 | 69.3 | 5.32 | 71.9 | 5.48 | 73.9 | 5.59 |
| | 15 | 92.4 | 52.5 | 5.19 | 56.7 | 6.04 | 61.8 | 7.04 | 67.2 | 7.90 | 69.3 | 8.09 | 71.9 | 8.31 | 73.9 | 8.47 |
| | | 115.5 | 52.5 | 5.09 | 56.7 | 5.94 | 61.8 | 6.92 | 67.2 | 7.79 | 69.3 | 7.96 | 71.9 | 8.18 | 73.9 | 8.34 |
| | | 231.0 | 52.5 | 4.68 | 56.7 | 5.55 | 61.8 | 6.46 | 67.2 | 7.29 | 69.3 | 7.47 | 71.9 | 7.66 | 73.9 | 7.79 |
| | | 288.8 | 52.5 | 4.57 | 56.7 | 5.42 | 61.8 | 6.34 | 67.2 | 7.14 | 69.3 | 7.32 | 71.9 | 7.51 | 73.9 | 7.60 |
| | | 346.5 | 52.5 | 4.51 | 56.7 | 5.36 | 61.8 | 6.28 | 67.2 | 7.06 | 69.3 | 7.25 | 71.9 | 7.43 | 73.9 | 7.51 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 92.4 | 52.5 | 6.40 | 56.7 | 7.44 | 61.8 | 8.70 | 67.2 | 9.78 | 69.3 | 10.00 | 71.9 | 10.24 | 73.9 | 10.43 |
| | | 115.5 | 52.5 | 6.28 | 56.7 | 7.32 | 61.8 | 8.55 | 67.2 | 9.62 | 69.3 | 9.84 | 71.9 | 10.08 | 73.9 | 10.26 |
| | | 231.0 | 52.5 | 5.79 | 56.7 | 6.86 | 61.8 | 7.96 | 67.2 | 8.97 | 69.3 | 9.19 | 71.9 | 9.44 | 73.9 | 9.62 |
| | | 288.8 | 52.5 | 5.61 | 56.7 | 6.71 | 61.8 | 7.82 | 67.2 | 8.83 | 69.3 | 9.04 | 71.9 | 9.25 | 73.9 | 9.35 |
| | | 346.5 | 52.5 | 5.52 | 56.7 | 6.63 | 61.8 | 7.73 | 67.2 | 8.74 | 69.3 | 8.96 | 71.9 | 9.16 | 73.9 | 9.20 |
| | 25 | 92.4 | 52.5 | 7.82 | 56.7 | 9.09 | 61.8 | 10.59 | 67.2 | 11.93 | 69.3 | 12.21 | 71.9 | 12.48 | 73.9 | 12.74 |
| | | 115.5 | 52.5 | 7.66 | 56.7 | 8.94 | 61.8 | 10.42 | 67.2 | 11.73 | 69.3 | 12.01 | 71.9 | 12.28 | 73.9 | 12.53 |
| | | 231.0 | 52.5 | 7.05 | 56.7 | 8.36 | 61.8 | 9.74 | 67.2 | 10.97 | 69.3 | 11.21 | 71.9 | 11.52 | 73.9 | 11.70 |
| | | 288.8 | 52.5 | 6.86 | 56.7 | 8.18 | 61.8 | 9.52 | 67.2 | 10.75 | 69.3 | 11.00 | 71.9 | 11.30 | 73.9 | 11.40 |
| | | 346.5 | 52.5 | 6.77 | 56.7 | 8.09 | 61.8 | 9.42 | 67.2 | 10.65 | 69.3 | 10.89 | 71.9 | 11.20 | 73.9 | 11.24 |
| | 30 | 92.4 | 52.5 | 9.62 | 56.7 | 11.18 | 61.8 | 13.02 | 67.2 | 14.67 | 69.3 | 15.01 | 71.9 | 15.39 | 73.9 | 15.66 |
| | | 115.5 | 52.5 | 9.44 | 56.7 | 11.00 | 61.8 | 12.80 | 67.2 | 14.43 | 69.3 | 14.77 | 71.9 | 15.14 | 73.9 | 15.41 |
| | | 231.0 | 52.5 | 8.67 | 56.7 | 10.26 | 61.8 | 11.98 | 67.2 | 13.48 | 69.3 | 13.78 | 71.9 | 14.16 | 73.9 | 14.40 |
| | | 288.8 | 52.5 | 8.42 | 56.7 | 10.05 | 61.8 | 11.73 | 67.2 | 13.21 | 69.3 | 13.54 | 71.9 | 13.88 | 73.9 | 14.03 |
| | | 346.5 | 52.5 | 8.31 | 56.7 | 9.94 | 61.8 | 11.61 | 67.2 | 13.06 | 69.3 | 13.42 | 71.9 | 13.74 | 73.9 | 13.85 |
| | 35 | 92.4 | 49.8 | 10.16 | 54.0 | 11.80 | 58.7 | 13.74 | 63.9 | 15.49 | 65.8 | 15.85 | 68.3 | 16.21 | 70.2 | 16.50 |
| | | 115.5 | 49.8 | 9.96 | 54.0 | 11.61 | 58.7 | 13.51 | 63.9 | 15.23 | 65.8 | 15.59 | 68.3 | 15.96 | 70.2 | 16.24 |
| | | 231.0 | 49.8 | 9.16 | 54.0 | 10.85 | 58.7 | 12.63 | 63.9 | 14.22 | 65.8 | 14.58 | 68.3 | 14.95 | 70.2 | 15.20 |
| | | 288.8 | 49.8 | 8.89 | 54.0 | 10.63 | 58.7 | 12.38 | 63.9 | 13.94 | 65.8 | 14.30 | 68.3 | 14.68 | 70.2 | 14.80 |
| | | 346.5 | 49.8 | 8.74 | 54.0 | 10.52 | 58.7 | 12.25 | 63.9 | 13.80 | 65.8 | 14.17 | 68.3 | 14.54 | 70.2 | 14.59 |
| | 40 | 92.4 | 47.1 | 11.37 | 51.0 | 13.24 | 55.6 | 15.41 | 60.5 | 17.34 | 62.3 | 17.79 | 64.7 | 18.22 | 66.6 | 18.52 |
| | | 115.5 | 47.1 | 11.15 | 51.0 | 13.02 | 55.6 | 15.17 | 60.5 | 17.06 | 62.3 | 17.50 | 64.7 | 17.92 | 66.6 | 18.23 |
| | | 231.0 | 47.1 | 10.26 | 51.0 | 12.16 | 55.6 | 14.19 | 60.5 | 15.96 | 62.3 | 16.33 | 64.7 | 16.76 | 66.6 | 17.06 |
| | | 288.8 | 47.1 | 9.98 | 51.0 | 11.92 | 55.6 | 13.88 | 60.5 | 15.66 | 62.3 | 16.05 | 64.7 | 16.45 | 66.6 | 16.60 |
| | | 346.5 | 47.1 | 9.85 | 51.0 | 11.79 | 55.6 | 13.73 | 60.5 | 15.50 | 62.3 | 15.92 | 64.7 | 16.30 | 66.6 | 16.37 |
| | 45 | 92.4 | 44.4 | 12.60 | 48.2 | 14.67 | 52.5 | 17.09 | 57.1 | 19.20 | 58.7 | 19.72 | 61.0 | 20.21 | 62.9 | 20.55 |
| | | 115.5 | 44.4 | 12.35 | 48.2 | 14.43 | 52.5 | 16.82 | 57.1 | 18.90 | 58.7 | 19.39 | 61.0 | 19.88 | 62.9 | 20.23 |
| | | 231.0 | 44.4 | 11.37 | 48.2 | 13.48 | 52.5 | 15.75 | 57.1 | 17.71 | 58.7 | 18.07 | 61.0 | 18.57 | 62.9 | 18.93 |
| | | 288.8 | 44.4 | 11.09 | 48.2 | 13.21 | 52.5 | 15.37 | 57.1 | 17.37 | 58.7 | 17.80 | 61.0 | 18.23 | 62.9 | 18.41 |
| | | 346.5 | 44.4 | 10.95 | 48.2 | 13.06 | 52.5 | 15.20 | 57.1 | 17.21 | 58.7 | 17.66 | 61.0 | 18.06 | 62.9 | 18.15 |
| 90 | 10 | 92.4 | 47.1 | 3.31 | 51.0 | 3.83 | 55.6 | 4.42 | 60.5 | 5.03 | 62.3 | 5.16 | 64.7 | 5.30 | 66.6 | 5.40 |
| | | 115.5 | 47.1 | 3.25 | 51.0 | 3.77 | 55.6 | 4.36 | 60.5 | 4.95 | 62.3 | 5.07 | 64.7 | 5.22 | 66.6 | 5.30 |
| | | 231.0 | 47.1 | 3.01 | 51.0 | 3.54 | 55.6 | 4.13 | 60.5 | 4.66 | 62.3 | 4.74 | 64.7 | 4.87 | 66.6 | 4.95 |
| | | 288.8 | 47.1 | 2.89 | 51.0 | 3.48 | 55.6 | 4.00 | 60.5 | 4.54 | 62.3 | 4.65 | 64.7 | 4.78 | 66.6 | 4.80 |
| | | 346.5 | 47.1 | 2.83 | 51.0 | 3.45 | 55.6 | 3.94 | 60.5 | 4.48 | 62.3 | 4.61 | 64.7 | 4.73 | 66.6 | 4.73 |
| | 15 | 92.4 | 47.1 | 4.46 | 51.0 | 5.20 | 55.6 | 6.04 | 60.5 | 6.82 | 62.3 | 6.97 | 64.7 | 7.17 | 66.6 | 7.28 |
| | | 115.5 | 47.1 | 4.38 | 51.0 | 5.12 | 55.6 | 5.94 | 60.5 | 6.71 | 62.3 | 6.86 | 64.7 | 7.05 | 66.6 | 7.17 |
| | | 231.0 | 47.1 | 4.05 | 51.0 | 4.78 | 55.6 | 5.58 | 60.5 | 6.28 | 62.3 | 6.43 | 64.7 | 6.59 | 66.6 | 6.71 |
| | | 288.8 | 47.1 | 3.92 | 51.0 | 4.68 | 55.6 | 5.45 | 60.5 | 6.16 | 62.3 | 6.31 | 64.7 | 6.46 | 66.6 | 6.53 |
| | | 346.5 | 47.1 | 3.86 | 51.0 | 4.64 | 55.6 | 5.39 | 60.5 | 6.10 | 62.3 | 6.25 | 64.7 | 6.40 | 66.6 | 6.43 |
| | 20 | 92.4 | 47.1 | 5.50 | 51.0 | 6.42 | 55.6 | 7.47 | 60.5 | 8.41 | 62.3 | 8.58 | 64.7 | 8.81 | 66.6 | 8.96 |
| | | 115.5 | 47.1 | 5.39 | 51.0 | 6.31 | 55.6 | 7.35 | 60.5 | 8.28 | 62.3 | 8.45 | 64.7 | 8.67 | 66.6 | 8.83 |
| | | 231.0 | 47.1 | 4.97 | 51.0 | 5.88 | 55.6 | 6.86 | 60.5 | 7.72 | 62.3 | 7.93 | 64.7 | 8.12 | 66.6 | 8.28 |
| | | 288.8 | 47.1 | 4.84 | 51.0 | 5.76 | 55.6 | 6.75 | 60.5 | 7.60 | 62.3 | 7.79 | 64.7 | 7.96 | 66.6 | 8.06 |
| | | 346.5 | 47.1 | 4.78 | 51.0 | 5.69 | 55.6 | 6.68 | 60.5 | 7.54 | 62.3 | 7.70 | 64.7 | 7.89 | 66.6 | 7.95 |
| | 25 | 92.4 | 47.1 | 6.72 | 51.0 | 7.82 | 55.6 | 9.09 | 60.5 | 10.24 | 62.3 | 10.49 | 64.7 | 10.74 | 66.6 | 10.96 |
| | | 115.5 | 47.1 | 6.59 | 51.0 | 7.69 | 55.6 | 8.94 | 60.5 | 10.08 | 62.3 | 10.33 | 64.7 | 10.57 | 66.6 | 10.78 |
| | | 231.0 | 47.1 | 6.07 | 51.0 | 7.20 | 55.6 | 8.36 | 60.5 | 9.44 | 62.3 | 9.65 | 64.7 | 9.90 | 66.6 | 10.08 |
| | | 288.8 | 47.1 | 5.88 | 51.0 | 7.05 | 55.6 | 8.21 | 60.5 | 9.25 | 62.3 | 9.46 | 64.7 | 9.71 | 66.6 | 9.84 |
| | | 346.5 | 47.1 | 5.79 | 51.0 | 6.97 | 55.6 | 8.13 | 60.5 | 9.16 | 62.3 | 9.38 | 64.7 | 9.62 | 66.6 | 9.71 |
| | 30 | 92.4 | 47.1 | 8.29 | 51.0 | 9.62 | 55.6 | 11.21 | 60.5 | 12.61 | 62.3 | 12.92 | 64.7 | 13.23 | 66.6 | 13.48 |
| | | 115.5 | 47.1 | 8.12 | 51.0 | 9.46 | 55.6 | 11.03 | 60.5 | 12.41 | 62.3 | 12.71 | 64.7 | 13.02 | 66.6 | 13.26 |
| | | 231.0 | 47.1 | 7.44 | 51.0 | 8.86 | 55.6 | 10.29 | 60.5 | 11.61 | 62.3 | 11.89 | 64.7 | 12.19 | 66.6 | 12.41 |
| | | 288.8 | 47.1 | 7.27 | 51.0 | 8.67 | 55.6 | 10.08 | 60.5 | 11.37 | 62.3 | 11.67 | 64.7 | 11.95 | 66.6 | 12.07 |
| | | 346.5 | 47.1 | 7.17 | 51.0 | 8.58 | 55.6 | 9.97 | 60.5 | 11.24 | 62.3 | 11.57 | 64.7 | 11.83 | 66.6 | 11.90 |
| | 35 | 92.4 | 45.9 | 8.94 | 49.7 | 10.36 | 54.1 | 12.08 | 58.8 | 13.61 | 60.6 | 13.92 | 62.9 | 14.26 | 64.7 | 14.54 |
| | | 115.5 | 45.9 | 8.76 | 49.7 | 10.20 | 54.1 | 11.89 | 58.8 | 13.39 | 60.6 | 13.70 | 62.9 | 14.03 | 64.7 | 14.30 |
| | | 231.0 | 45.9 | 8.06 | 49.7 | 9.56 | 54.1 | 11.12 | 58.8 | 12.53 | 60.6 | 12.80 | 62.9 | 13.15 | 64.7 | 13.39 |
| | | 288.8 | 45.9 | 7.82 | 49.7 | 9.35 | 54.1 | 10.88 | 58.8 | 12.28 | 60.6 | 12.60 | 62.9 | 12.90 | 64.7 | 13.02 |
| | | 346.5 | 45.9 | 7.69 | 49.7 | 9.23 | 54.1 | 10.75 | 58.8 | 12.16 | 60.6 | 12.48 | 62.9 | 12.77 | 64.7 | 12.84 |
| | 40 | 92.4 | 44.5 | 10.25 | 48.3 | 11.93 | 52.5 | 13.89 | 57.1 | 15.63 | 58.8 | 16.01 | 61.2 | 16.41 | 62.8 | 16.69 |
| | | 115.5 | 44.5 | 10.05 | 48.3 | 11.73 | 52.5 | 13.67 | 57.1 | 15.37 | 58.8 | 15.75 | 61.2 | 16.14 | 62.8 | 16.43 |
| | | 231.0 | 44.5 | 9.25 | 48.3 | 10.97 | 52.5 | 12.77 | 57.1 | 14.36 | 58.8 | 14.74 | 61.2 | 15.10 | 62.8 | 15.37 |
| | | 288.8 | 44.5 | 8.97 | 48.3 | 10.72 | 52.5 | 12.50 | 57.1 | 14.09 | 58.8 | 14.46 | 61.2 | 14.83 | 62.8 | 14.98 |
| | | 346.5 | 44.5 | 8.84 | 48.3 | 10.60 | 52.5 | 12.37 | 57.1 | 13.96 | 58.8 | 14.32 | 61.2 | 14.69 | 62.8 | 14.78 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 92.4 | 43.2 | 11.56 | 46.8 | 13.49 | 51.0 | 15.69 | 55.5 | 17.67 | 57.0 | 18.09 | 59.4 | 18.56 | 60.9 | 18.83 |
| | | 115.5 | 43.2 | 11.34 | 46.8 | 13.26 | 51.0 | 15.44 | 55.5 | 17.37 | 57.0 | 17.80 | 59.4 | 18.26 | 60.9 | 18.54 |
| | | 231.0 | 43.2 | 10.45 | 46.8 | 12.38 | 51.0 | 14.43 | 55.5 | 16.21 | 57.0 | 16.67 | 59.4 | 17.06 | 60.9 | 17.37 |
| | | 288.8 | 43.2 | 10.14 | 46.8 | 12.11 | 51.0 | 14.13 | 55.5 | 15.91 | 57.0 | 16.33 | 59.4 | 16.76 | 60.9 | 16.95 |
| | | 346.5 | 43.2 | 9.98 | 46.8 | 11.96 | 51.0 | 13.97 | 55.5 | 15.75 | 57.0 | 16.17 | 59.4 | 16.60 | 60.9 | 16.73 |
| 80 | 10 | 92.4 | 41.9 | 2.77 | 45.5 | 3.19 | 49.5 | 3.76 | 53.7 | 4.26 | 55.3 | 4.31 | 57.5 | 4.48 | 59.1 | 4.49 |
| | | 115.5 | 41.9 | 2.71 | 45.5 | 3.15 | 49.5 | 3.68 | 53.7 | 4.19 | 55.3 | 4.25 | 57.5 | 4.39 | 59.1 | 4.42 |
| | | 231.0 | 41.9 | 2.47 | 45.5 | 2.98 | 49.5 | 3.41 | 53.7 | 3.89 | 55.3 | 3.97 | 57.5 | 4.06 | 59.1 | 4.12 |
| | | 288.8 | 41.9 | 2.41 | 45.5 | 2.89 | 49.5 | 3.35 | 53.7 | 3.77 | 55.3 | 3.86 | 57.5 | 4.01 | 59.1 | 4.07 |
| | | 346.5 | 41.9 | 2.39 | 45.5 | 2.84 | 49.5 | 3.33 | 53.7 | 3.71 | 55.3 | 3.80 | 57.5 | 3.99 | 59.1 | 4.05 |
| | 15 | 92.4 | 41.9 | 3.76 | 45.5 | 4.36 | 49.5 | 5.08 | 53.7 | 5.73 | 55.3 | 5.85 | 57.5 | 6.01 | 59.1 | 6.11 |
| | | 115.5 | 41.9 | 3.67 | 45.5 | 4.29 | 49.5 | 5.00 | 53.7 | 5.64 | 55.3 | 5.76 | 57.5 | 5.91 | 59.1 | 6.01 |
| | | 231.0 | 41.9 | 3.37 | 45.5 | 4.02 | 49.5 | 4.65 | 53.7 | 5.27 | 55.3 | 5.39 | 57.5 | 5.52 | 59.1 | 5.61 |
| | | 288.8 | 41.9 | 3.28 | 45.5 | 3.92 | 49.5 | 4.57 | 53.7 | 5.14 | 55.3 | 5.27 | 57.5 | 5.42 | 59.1 | 5.49 |
| | | 346.5 | 41.9 | 3.24 | 45.5 | 3.87 | 49.5 | 4.52 | 53.7 | 5.09 | 55.3 | 5.20 | 57.5 | 5.38 | 59.1 | 5.42 |
| | 20 | 92.4 | 41.9 | 4.62 | 45.5 | 5.39 | 49.5 | 6.26 | 53.7 | 7.03 | 55.3 | 7.22 | 57.5 | 7.38 | 59.1 | 7.54 |
| | | 115.5 | 41.9 | 4.54 | 45.5 | 5.30 | 49.5 | 6.16 | 53.7 | 6.92 | 55.3 | 7.11 | 57.5 | 7.27 | 59.1 | 7.41 |
| | | 231.0 | 41.9 | 4.16 | 45.5 | 4.93 | 49.5 | 5.76 | 53.7 | 6.50 | 55.3 | 6.65 | 57.5 | 6.80 | 59.1 | 6.92 |
| | | 288.8 | 41.9 | 4.05 | 45.5 | 4.84 | 49.5 | 5.64 | 53.7 | 6.37 | 55.3 | 6.53 | 57.5 | 6.68 | 59.1 | 6.75 |
| | | 346.5 | 41.9 | 3.99 | 45.5 | 4.80 | 49.5 | 5.58 | 53.7 | 6.31 | 55.3 | 6.46 | 57.5 | 6.62 | 59.1 | 6.65 |
| | 25 | 92.4 | 41.9 | 5.62 | 45.5 | 6.53 | 49.5 | 7.63 | 53.7 | 8.60 | 55.3 | 8.81 | 57.5 | 9.03 | 59.1 | 9.19 |
| | | 115.5 | 41.9 | 5.52 | 45.5 | 6.43 | 49.5 | 7.51 | 53.7 | 8.45 | 55.3 | 8.67 | 57.5 | 8.89 | 59.1 | 9.04 |
| | | 231.0 | 41.9 | 5.09 | 45.5 | 6.04 | 49.5 | 7.02 | 53.7 | 7.90 | 55.3 | 8.09 | 57.5 | 8.31 | 59.1 | 8.45 |
| | | 288.8 | 41.9 | 4.93 | 45.5 | 5.91 | 49.5 | 6.89 | 53.7 | 7.75 | 55.3 | 7.93 | 57.5 | 8.15 | 59.1 | 8.24 |
| | | 346.5 | 41.9 | 4.86 | 45.5 | 5.85 | 49.5 | 6.83 | 53.7 | 7.67 | 55.3 | 7.86 | 57.5 | 8.08 | 59.1 | 8.13 |
| | 30 | 92.4 | 41.9 | 6.94 | 45.5 | 8.06 | 49.5 | 9.41 | 53.7 | 10.59 | 55.3 | 10.84 | 57.5 | 11.08 | 59.1 | 11.31 |
| | | 115.5 | 41.9 | 6.80 | 45.5 | 7.93 | 49.5 | 9.25 | 53.7 | 10.42 | 55.3 | 10.66 | 57.5 | 10.91 | 59.1 | 11.12 |
| | | 231.0 | 41.9 | 6.25 | 45.5 | 7.41 | 49.5 | 8.64 | 53.7 | 9.71 | 55.3 | 9.96 | 57.5 | 10.20 | 59.1 | 10.39 |
| | | 288.8 | 41.9 | 6.07 | 45.5 | 7.27 | 49.5 | 8.45 | 53.7 | 9.52 | 55.3 | 9.77 | 57.5 | 10.01 | 59.1 | 10.11 |
| | | 346.5 | 41.9 | 5.98 | 45.5 | 7.18 | 49.5 | 8.37 | 53.7 | 9.44 | 55.3 | 9.68 | 57.5 | 9.93 | 59.1 | 9.97 |
| | 35 | 92.4 | 41.9 | 7.72 | 45.5 | 8.97 | 49.5 | 10.43 | 53.7 | 11.73 | 55.3 | 12.02 | 57.5 | 12.34 | 59.1 | 12.54 |
| | | 115.5 | 41.9 | 7.57 | 45.5 | 8.83 | 49.5 | 10.26 | 53.7 | 11.55 | 55.3 | 11.82 | 57.5 | 12.14 | 59.1 | 12.35 |
| | | 231.0 | 41.9 | 6.95 | 45.5 | 8.24 | 49.5 | 9.59 | 53.7 | 10.82 | 55.3 | 11.05 | 57.5 | 11.34 | 59.1 | 11.55 |
| | | 288.8 | 41.9 | 6.77 | 45.5 | 8.06 | 49.5 | 9.41 | 53.7 | 10.60 | 55.3 | 10.85 | 57.5 | 11.15 | 59.1 | 11.24 |
| | | 346.5 | 41.9 | 6.68 | 45.5 | 7.96 | 49.5 | 9.32 | 53.7 | 10.49 | 55.3 | 10.74 | 57.5 | 11.07 | 59.1 | 11.09 |
| | 40 | 92.4 | 41.9 | 9.12 | 45.5 | 10.62 | 49.5 | 12.37 | 53.7 | 13.92 | 55.3 | 14.23 | 57.5 | 14.60 | 59.1 | 14.85 |
| | | 115.5 | 41.9 | 8.94 | 45.5 | 10.45 | 49.5 | 12.16 | 53.7 | 13.70 | 55.3 | 14.00 | 57.5 | 14.36 | 59.1 | 14.61 |
| | | 231.0 | 41.9 | 8.24 | 45.5 | 9.74 | 49.5 | 11.37 | 53.7 | 12.80 | 55.3 | 13.12 | 57.5 | 13.45 | 59.1 | 13.70 |
| | | 288.8 | 41.9 | 7.99 | 45.5 | 9.56 | 49.5 | 11.12 | 53.7 | 12.56 | 55.3 | 12.87 | 57.5 | 13.18 | 59.1 | 13.32 |
| | | 346.5 | 41.9 | 7.87 | 45.5 | 9.46 | 49.5 | 11.00 | 53.7 | 12.44 | 55.3 | 12.74 | 57.5 | 13.03 | 59.1 | 13.15 |
| | 45 | 92.4 | 41.9 | 10.53 | 45.5 | 12.28 | 49.5 | 14.29 | 53.7 | 16.10 | 55.3 | 16.43 | 57.5 | 16.86 | 59.1 | 17.15 |
| | | 115.5 | 41.9 | 10.33 | 45.5 | 12.07 | 49.5 | 14.06 | 53.7 | 15.84 | 55.3 | 16.18 | 57.5 | 16.60 | 59.1 | 16.88 |
| | | 231.0 | 41.9 | 9.52 | 45.5 | 11.24 | 49.5 | 13.15 | 53.7 | 14.80 | 55.3 | 15.17 | 57.5 | 15.56 | 59.1 | 15.84 |
| | | 288.8 | 41.9 | 9.22 | 45.5 | 11.05 | 49.5 | 12.83 | 53.7 | 14.52 | 55.3 | 14.89 | 57.5 | 15.20 | 59.1 | 15.41 |
| | | 346.5 | 41.9 | 9.07 | 45.5 | 10.97 | 49.5 | 12.68 | 53.7 | 14.39 | 55.3 | 14.75 | 57.5 | 15.01 | 59.1 | 15.20 |
| 70 | 10 | 92.4 | 36.7 | 2.31 | 39.8 | 2.66 | 43.3 | 3.15 | 47.1 | 3.54 | 48.4 | 3.55 | 50.3 | 3.68 | 51.7 | 3.74 |
| | | 115.5 | 36.7 | 2.27 | 39.8 | 2.63 | 43.3 | 3.09 | 47.1 | 3.48 | 48.4 | 3.51 | 50.3 | 3.63 | 51.7 | 3.68 |
| | | 231.0 | 36.7 | 2.09 | 39.8 | 2.47 | 43.3 | 2.89 | 47.1 | 3.25 | 48.4 | 3.30 | 50.3 | 3.39 | 51.7 | 3.48 |
| | | 288.8 | 36.7 | 2.01 | 39.8 | 2.38 | 43.3 | 2.80 | 47.1 | 3.15 | 48.4 | 3.21 | 50.3 | 3.34 | 51.7 | 3.39 |
| | | 346.5 | 36.7 | 1.95 | 39.8 | 2.34 | 43.3 | 2.76 | 47.1 | 3.11 | 48.4 | 3.16 | 50.3 | 3.31 | 51.7 | 3.35 |
| | 15 | 92.4 | 36.7 | 3.12 | 39.8 | 3.61 | 43.3 | 4.23 | 47.1 | 4.77 | 48.4 | 4.86 | 50.3 | 4.98 | 51.7 | 5.07 |
| | | 115.5 | 36.7 | 3.06 | 39.8 | 3.55 | 43.3 | 4.16 | 47.1 | 4.68 | 48.4 | 4.78 | 50.3 | 4.90 | 51.7 | 5.00 |
| | | 231.0 | 36.7 | 2.82 | 39.8 | 3.34 | 43.3 | 3.89 | 47.1 | 4.38 | 48.4 | 4.48 | 50.3 | 4.59 | 51.7 | 4.68 |
| | | 288.8 | 36.7 | 2.73 | 39.8 | 3.25 | 43.3 | 3.80 | 47.1 | 4.29 | 48.4 | 4.38 | 50.3 | 4.51 | 51.7 | 4.57 |
| | | 346.5 | 36.7 | 2.69 | 39.8 | 3.21 | 43.3 | 3.76 | 47.1 | 4.25 | 48.4 | 4.33 | 50.3 | 4.46 | 51.7 | 4.51 |
| | 20 | 92.4 | 36.7 | 3.84 | 39.8 | 4.45 | 43.3 | 5.20 | 47.1 | 5.85 | 48.4 | 6.01 | 50.3 | 6.13 | 51.7 | 6.26 |
| | | 115.5 | 36.7 | 3.77 | 39.8 | 4.38 | 43.3 | 5.12 | 47.1 | 5.76 | 48.4 | 5.91 | 50.3 | 6.04 | 51.7 | 6.16 |
| | | 231.0 | 36.7 | 3.47 | 39.8 | 4.10 | 43.3 | 4.78 | 47.1 | 5.39 | 48.4 | 5.52 | 50.3 | 5.66 | 51.7 | 5.76 |
| | | 288.8 | 36.7 | 3.37 | 39.8 | 4.02 | 43.3 | 4.68 | 47.1 | 5.30 | 48.4 | 5.42 | 50.3 | 5.55 | 51.7 | 5.61 |
| | | 346.5 | 36.7 | 3.32 | 39.8 | 3.97 | 43.3 | 4.64 | 47.1 | 5.26 | 48.4 | 5.38 | 50.3 | 5.49 | 51.7 | 5.53 |
| | 25 | 92.4 | 36.7 | 4.68 | 39.8 | 5.45 | 43.3 | 6.36 | 47.1 | 7.17 | 48.4 | 7.31 | 50.3 | 7.51 | 51.7 | 7.63 |
| | | 115.5 | 36.7 | 4.59 | 39.8 | 5.36 | 43.3 | 6.25 | 47.1 | 7.05 | 48.4 | 7.20 | 50.3 | 7.38 | 51.7 | 7.51 |
| | | 231.0 | 36.7 | 4.23 | 39.8 | 5.03 | 43.3 | 5.85 | 47.1 | 6.59 | 48.4 | 6.75 | 50.3 | 6.89 | 51.7 | 7.02 |
| | | 288.8 | 36.7 | 4.10 | 39.8 | 4.90 | 43.3 | 5.73 | 47.1 | 6.43 | 48.4 | 6.62 | 50.3 | 6.77 | 51.7 | 6.83 |
| | | 346.5 | 36.7 | 4.05 | 39.8 | 4.84 | 43.3 | 5.66 | 47.1 | 6.36 | 48.4 | 6.56 | 50.3 | 6.71 | 51.7 | 6.75 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 92.4 | 36.7 | 5.78 | 39.8 | 6.69 | 43.3 | 7.82 | 47.1 | 8.78 | 48.4 | 9.00 | 50.3 | 9.22 | 51.7 | 9.36 |
| | | 115.5 | 36.7 | 5.66 | 39.8 | 6.59 | 43.3 | 7.69 | 47.1 | 8.64 | 48.4 | 8.86 | 50.3 | 9.07 | 51.7 | 9.22 |
| | | 231.0 | 36.7 | 5.20 | 39.8 | 6.16 | 43.3 | 7.17 | 47.1 | 8.09 | 48.4 | 8.28 | 50.3 | 8.48 | 51.7 | 8.64 |
| | | 288.8 | 36.7 | 5.06 | 39.8 | 6.04 | 43.3 | 7.05 | 47.1 | 7.93 | 48.4 | 8.12 | 50.3 | 8.34 | 51.7 | 8.42 |
| | | 346.5 | 36.7 | 4.98 | 39.8 | 5.98 | 43.3 | 6.98 | 47.1 | 7.86 | 48.4 | 8.05 | 50.3 | 8.25 | 51.7 | 8.32 |
| | 35 | 92.4 | 36.7 | 6.40 | 39.8 | 7.44 | 43.3 | 8.70 | 47.1 | 9.78 | 48.4 | 10.00 | 50.3 | 10.24 | 51.7 | 10.43 |
| | | 115.5 | 36.7 | 6.28 | 39.8 | 7.32 | 43.3 | 8.55 | 47.1 | 9.62 | 48.4 | 9.84 | 50.3 | 10.08 | 51.7 | 10.26 |
| | | 231.0 | 36.7 | 5.79 | 39.8 | 6.86 | 43.3 | 7.96 | 47.1 | 8.97 | 48.4 | 9.19 | 50.3 | 9.44 | 51.7 | 9.62 |
| | | 288.8 | 36.7 | 5.61 | 39.8 | 6.71 | 43.3 | 7.82 | 47.1 | 8.83 | 48.4 | 9.04 | 50.3 | 9.25 | 51.7 | 9.35 |
| | | 346.5 | 36.7 | 5.52 | 39.8 | 6.63 | 43.3 | 7.73 | 47.1 | 8.74 | 48.4 | 8.96 | 50.3 | 9.16 | 51.7 | 9.20 |
| | 40 | 92.4 | 36.7 | 7.60 | 39.8 | 8.81 | 43.3 | 10.28 | 47.1 | 11.56 | 48.4 | 11.83 | 50.3 | 12.14 | 51.7 | 12.37 |
| | | 115.5 | 36.7 | 7.44 | 39.8 | 8.67 | 43.3 | 10.11 | 47.1 | 11.37 | 48.4 | 11.64 | 50.3 | 11.95 | 51.7 | 12.16 |
| | | 231.0 | 36.7 | 6.83 | 39.8 | 8.12 | 43.3 | 9.44 | 47.1 | 10.63 | 48.4 | 10.91 | 50.3 | 11.18 | 51.7 | 11.37 |
| | | 288.8 | 36.7 | 6.65 | 39.8 | 7.93 | 43.3 | 9.25 | 47.1 | 10.45 | 48.4 | 10.69 | 50.3 | 10.97 | 51.7 | 11.09 |
| | | 346.5 | 36.7 | 6.56 | 39.8 | 7.84 | 43.3 | 9.16 | 47.1 | 10.36 | 48.4 | 10.59 | 50.3 | 10.86 | 51.7 | 10.95 |
| | 45 | 92.4 | 36.7 | 8.80 | 39.8 | 10.18 | 43.3 | 11.86 | 47.1 | 13.32 | 48.4 | 13.65 | 50.3 | 14.04 | 51.7 | 14.30 |
| | | 115.5 | 36.7 | 8.61 | 39.8 | 10.01 | 43.3 | 11.67 | 47.1 | 13.12 | 48.4 | 13.45 | 50.3 | 13.81 | 51.7 | 14.06 |
| | | 231.0 | 36.7 | 7.87 | 39.8 | 9.38 | 43.3 | 10.91 | 47.1 | 12.28 | 48.4 | 12.63 | 50.3 | 12.93 | 51.7 | 13.12 |
| | | 288.8 | 36.7 | 7.69 | 39.8 | 9.16 | 43.3 | 10.69 | 47.1 | 12.07 | 48.4 | 12.35 | 50.3 | 12.68 | 51.7 | 12.83 |
| | | 346.5 | 36.7 | 7.60 | 39.8 | 9.06 | 43.3 | 10.59 | 47.1 | 11.96 | 48.4 | 12.21 | 50.3 | 12.56 | 51.7 | 12.70 |
| 60 | 10 | 92.4 | 31.5 | 1.88 | 34.1 | 2.17 | 37.1 | 2.50 | 40.3 | 2.82 | 41.5 | 2.89 | 43.1 | 2.98 | 44.4 | 2.99 |
| | | 115.5 | 31.5 | 1.83 | 34.1 | 2.12 | 37.1 | 2.44 | 40.3 | 2.77 | 41.5 | 2.83 | 43.1 | 2.92 | 44.4 | 2.95 |
| | | 231.0 | 31.5 | 1.65 | 34.1 | 1.98 | 37.1 | 2.27 | 40.3 | 2.60 | 41.5 | 2.59 | 43.1 | 2.69 | 44.4 | 2.77 |
| | | 288.8 | 31.5 | 1.59 | 34.1 | 1.92 | 37.1 | 2.24 | 40.3 | 2.53 | 41.5 | 2.56 | 43.1 | 2.62 | 44.4 | 2.65 |
| | | 346.5 | 31.5 | 1.56 | 34.1 | 1.88 | 37.1 | 2.23 | 40.3 | 2.50 | 41.5 | 2.54 | 43.1 | 2.59 | 44.4 | 2.59 |
| | 15 | 92.4 | 31.5 | 2.50 | 34.1 | 2.89 | 37.1 | 3.37 | 40.3 | 3.80 | 41.5 | 3.90 | 43.1 | 3.99 | 44.4 | 4.05 |
| | | 115.5 | 31.5 | 2.45 | 34.1 | 2.85 | 37.1 | 3.31 | 40.3 | 3.74 | 41.5 | 3.83 | 43.1 | 3.92 | 44.4 | 3.99 |
| | | 231.0 | 31.5 | 2.24 | 34.1 | 2.66 | 37.1 | 3.09 | 40.3 | 3.50 | 41.5 | 3.55 | 43.1 | 3.64 | 44.4 | 3.74 |
| | | 288.8 | 31.5 | 2.18 | 34.1 | 2.60 | 37.1 | 3.03 | 40.3 | 3.43 | 41.5 | 3.50 | 43.1 | 3.58 | 44.4 | 3.61 |
| | | 346.5 | 31.5 | 2.14 | 34.1 | 2.57 | 37.1 | 3.00 | 40.3 | 3.40 | 41.5 | 3.47 | 43.1 | 3.55 | 44.4 | 3.55 |
| | 20 | 92.4 | 31.5 | 3.06 | 34.1 | 3.54 | 37.1 | 4.13 | 40.3 | 4.67 | 41.5 | 4.80 | 43.1 | 4.88 | 44.4 | 4.98 |
| | | 115.5 | 31.5 | 3.00 | 34.1 | 3.50 | 37.1 | 4.07 | 40.3 | 4.59 | 41.5 | 4.72 | 43.1 | 4.81 | 44.4 | 4.90 |
| | | 231.0 | 31.5 | 2.76 | 34.1 | 3.28 | 37.1 | 3.83 | 40.3 | 4.29 | 41.5 | 4.41 | 43.1 | 4.51 | 44.4 | 4.59 |
| | | 288.8 | 31.5 | 2.70 | 34.1 | 3.22 | 37.1 | 3.74 | 40.3 | 4.23 | 41.5 | 4.32 | 43.1 | 4.44 | 44.4 | 4.48 |
| | | 346.5 | 31.5 | 2.66 | 34.1 | 3.19 | 37.1 | 3.70 | 40.3 | 4.20 | 41.5 | 4.28 | 43.1 | 4.41 | 44.4 | 4.41 |
| | 25 | 92.4 | 31.5 | 3.76 | 34.1 | 4.33 | 37.1 | 5.04 | 40.3 | 5.69 | 41.5 | 5.82 | 43.1 | 5.98 | 44.4 | 6.07 |
| | | 115.5 | 31.5 | 3.67 | 34.1 | 4.26 | 37.1 | 4.97 | 40.3 | 5.61 | 41.5 | 5.73 | 43.1 | 5.88 | 44.4 | 5.97 |
| | | 231.0 | 31.5 | 3.37 | 34.1 | 3.99 | 37.1 | 4.65 | 40.3 | 5.24 | 41.5 | 5.36 | 43.1 | 5.52 | 44.4 | 5.61 |
| | | 288.8 | 31.5 | 3.28 | 34.1 | 3.92 | 37.1 | 4.57 | 40.3 | 5.14 | 41.5 | 5.27 | 43.1 | 5.39 | 44.4 | 5.45 |
| | | 346.5 | 31.5 | 3.24 | 34.1 | 3.89 | 37.1 | 4.52 | 40.3 | 5.10 | 41.5 | 5.23 | 43.1 | 5.33 | 44.4 | 5.38 |
| | 30 | 92.4 | 31.5 | 4.60 | 34.1 | 5.36 | 37.1 | 6.23 | 40.3 | 7.01 | 41.5 | 7.17 | 43.1 | 7.34 | 44.4 | 7.47 |
| | | 115.5 | 31.5 | 4.51 | 34.1 | 5.27 | 37.1 | 6.13 | 40.3 | 6.89 | 41.5 | 7.05 | 43.1 | 7.23 | 44.4 | 7.35 |
| | | 231.0 | 31.5 | 4.13 | 34.1 | 4.90 | 37.1 | 5.73 | 40.3 | 6.43 | 41.5 | 6.59 | 43.1 | 6.77 | 44.4 | 6.89 |
| | | 288.8 | 31.5 | 4.05 | 34.1 | 4.81 | 37.1 | 5.61 | 40.3 | 6.31 | 41.5 | 6.46 | 43.1 | 6.65 | 44.4 | 6.71 |
| | | 346.5 | 31.5 | 4.00 | 34.1 | 4.77 | 37.1 | 5.55 | 40.3 | 6.25 | 41.5 | 6.40 | 43.1 | 6.59 | 44.4 | 6.62 |
| | 35 | 92.4 | 31.5 | 5.10 | 34.1 | 5.95 | 37.1 | 6.91 | 40.3 | 7.79 | 41.5 | 7.98 | 43.1 | 8.15 | 44.4 | 8.31 |
| | | 115.5 | 31.5 | 5.00 | 34.1 | 5.85 | 37.1 | 6.80 | 40.3 | 7.66 | 41.5 | 7.84 | 43.1 | 8.03 | 44.4 | 8.18 |
| | | 231.0 | 31.5 | 4.59 | 34.1 | 5.45 | 37.1 | 6.37 | 40.3 | 7.17 | 41.5 | 7.32 | 43.1 | 7.54 | 44.4 | 7.66 |
| | | 288.8 | 31.5 | 4.48 | 34.1 | 5.33 | 37.1 | 6.21 | 40.3 | 7.02 | 41.5 | 7.20 | 43.1 | 7.38 | 44.4 | 7.44 |
| | | 346.5 | 31.5 | 4.41 | 34.1 | 5.27 | 37.1 | 6.14 | 40.3 | 6.94 | 41.5 | 7.14 | 43.1 | 7.31 | 44.4 | 7.34 |
| | 40 | 92.4 | 31.5 | 6.07 | 34.1 | 7.04 | 37.1 | 8.19 | 40.3 | 9.22 | 41.5 | 9.44 | 43.1 | 9.68 | 44.4 | 9.84 |
| | | 115.5 | 31.5 | 5.94 | 34.1 | 6.92 | 37.1 | 8.06 | 40.3 | 9.07 | 41.5 | 9.28 | 43.1 | 9.52 | 44.4 | 9.68 |
| | | 231.0 | 31.5 | 5.45 | 34.1 | 6.46 | 37.1 | 7.54 | 40.3 | 8.48 | 41.5 | 8.67 | 43.1 | 8.91 | 44.4 | 9.07 |
| | | 288.8 | 31.5 | 5.30 | 34.1 | 6.34 | 37.1 | 7.38 | 40.3 | 8.31 | 41.5 | 8.51 | 43.1 | 8.73 | 44.4 | 8.83 |
| | | 346.5 | 31.5 | 5.23 | 34.1 | 6.28 | 37.1 | 7.31 | 40.3 | 8.21 | 41.5 | 8.44 | 43.1 | 8.64 | 44.4 | 8.70 |
| | 45 | 92.4 | 31.5 | 7.04 | 34.1 | 8.13 | 37.1 | 9.46 | 40.3 | 10.65 | 41.5 | 10.90 | 43.1 | 11.21 | 44.4 | 11.36 |
| | | 115.5 | 31.5 | 6.89 | 34.1 | 7.99 | 37.1 | 9.32 | 40.3 | 10.48 | 41.5 | 10.72 | 43.1 | 11.03 | 44.4 | 11.18 |
| | | 231.0 | 31.5 | 6.31 | 34.1 | 7.47 | 37.1 | 8.70 | 40.3 | 9.81 | 41.5 | 10.01 | 43.1 | 10.29 | 44.4 | 10.48 |
| | | 288.8 | 31.5 | 6.13 | 34.1 | 7.35 | 37.1 | 8.55 | 40.3 | 9.59 | 41.5 | 9.84 | 43.1 | 10.08 | 44.4 | 10.20 |
| | | 346.5 | 31.5 | 6.04 | 34.1 | 7.29 | 37.1 | 8.47 | 40.3 | 9.48 | 41.5 | 9.74 | 43.1 | 9.97 | 44.4 | 10.07 |
| 50 | 10 | 92.4 | 26.2 | 1.34 | 28.4 | 1.59 | 30.9 | 1.91 | 33.6 | 2.10 | 34.6 | 2.12 | 36.0 | 2.19 | 36.9 | 2.25 |
| | | 115.5 | 26.2 | 1.33 | 28.4 | 1.56 | 30.9 | 1.86 | 33.6 | 2.07 | 34.6 | 2.09 | 36.0 | 2.15 | 36.9 | 2.21 |
| | | 231.0 | 26.2 | 1.27 | 28.4 | 1.47 | 30.9 | 1.68 | 33.6 | 1.92 | 34.6 | 1.98 | 36.0 | 2.01 | 36.9 | 2.07 |
| | | 288.8 | 26.2 | 1.21 | 28.4 | 1.42 | 30.9 | 1.68 | 33.6 | 1.85 | 34.6 | 1.92 | 36.0 | 1.94 | 36.9 | 1.98 |
| | | 346.5 | 26.2 | 1.18 | 28.4 | 1.39 | 30.9 | 1.68 | 33.6 | 1.82 | 34.6 | 1.88 | 36.0 | 1.91 | 36.9 | 1.92 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 92.4 | 26.2 | 1.84 | 28.4 | 2.14 | 30.9 | 2.53 | 33.6 | 2.83 | 34.6 | 2.89 | 36.0 | 2.96 | 36.9 | 3.02 |
| | | 115.5 | 26.2 | 1.81 | 28.4 | 2.11 | 30.9 | 2.48 | 33.6 | 2.79 | 34.6 | 2.85 | 36.0 | 2.91 | 36.9 | 2.97 |
| | | 231.0 | 26.2 | 1.69 | 28.4 | 1.99 | 30.9 | 2.30 | 33.6 | 2.60 | 34.6 | 2.66 | 36.0 | 2.73 | 36.9 | 2.79 |
| | | 288.8 | 26.2 | 1.62 | 28.4 | 1.93 | 30.9 | 2.27 | 33.6 | 2.54 | 34.6 | 2.60 | 36.0 | 2.66 | 36.9 | 2.70 |
| | | 346.5 | 26.2 | 1.59 | 28.4 | 1.89 | 30.9 | 2.25 | 33.6 | 2.51 | 34.6 | 2.57 | 36.0 | 2.63 | 36.9 | 2.65 |
| | 20 | 92.4 | 26.2 | 2.28 | 28.4 | 2.64 | 30.9 | 3.08 | 33.6 | 3.48 | 34.6 | 3.58 | 36.0 | 3.64 | 36.9 | 3.70 |
| | | 115.5 | 26.2 | 2.24 | 28.4 | 2.60 | 30.9 | 3.03 | 33.6 | 3.43 | 34.6 | 3.52 | 36.0 | 3.58 | 36.9 | 3.64 |
| | | 231.0 | 26.2 | 2.05 | 28.4 | 2.45 | 30.9 | 2.85 | 33.6 | 3.22 | 34.6 | 3.28 | 36.0 | 3.37 | 36.9 | 3.43 |
| | | 288.8 | 26.2 | 1.99 | 28.4 | 2.39 | 30.9 | 2.79 | 33.6 | 3.15 | 34.6 | 3.22 | 36.0 | 3.31 | 36.9 | 3.34 |
| | | 346.5 | 26.2 | 1.96 | 28.4 | 2.36 | 30.9 | 2.76 | 33.6 | 3.12 | 34.6 | 3.19 | 36.0 | 3.28 | 36.9 | 3.29 |
| | 25 | 92.4 | 26.2 | 2.78 | 28.4 | 3.24 | 30.9 | 3.77 | 33.6 | 4.23 | 34.6 | 4.36 | 36.0 | 4.45 | 36.9 | 4.55 |
| | | 115.5 | 26.2 | 2.73 | 28.4 | 3.19 | 30.9 | 3.71 | 33.6 | 4.16 | 34.6 | 4.29 | 36.0 | 4.38 | 36.9 | 4.48 |
| | | 231.0 | 26.2 | 2.51 | 28.4 | 2.97 | 30.9 | 3.47 | 33.6 | 3.92 | 34.6 | 4.02 | 36.0 | 4.10 | 36.9 | 4.16 |
| | | 288.8 | 26.2 | 2.45 | 28.4 | 2.91 | 30.9 | 3.40 | 33.6 | 3.83 | 34.6 | 3.92 | 36.0 | 4.02 | 36.9 | 4.07 |
| | | 346.5 | 26.2 | 2.43 | 28.4 | 2.88 | 30.9 | 3.37 | 33.6 | 3.78 | 34.6 | 3.87 | 36.0 | 3.97 | 36.9 | 4.03 |
| | 30 | 92.4 | 26.2 | 3.44 | 28.4 | 3.99 | 30.9 | 4.64 | 33.6 | 5.23 | 34.6 | 5.36 | 36.0 | 5.48 | 36.9 | 5.56 |
| | | 115.5 | 26.2 | 3.37 | 28.4 | 3.92 | 30.9 | 4.57 | 33.6 | 5.14 | 34.6 | 5.27 | 36.0 | 5.39 | 36.9 | 5.49 |
| | | 231.0 | 26.2 | 3.09 | 28.4 | 3.67 | 30.9 | 4.26 | 33.6 | 4.81 | 34.6 | 4.93 | 36.0 | 5.06 | 36.9 | 5.14 |
| | | 288.8 | 26.2 | 3.00 | 28.4 | 3.58 | 30.9 | 4.16 | 33.6 | 4.72 | 34.6 | 4.84 | 36.0 | 4.97 | 36.9 | 5.00 |
| | | 346.5 | 26.2 | 2.96 | 28.4 | 3.54 | 30.9 | 4.12 | 33.6 | 4.67 | 34.6 | 4.80 | 36.0 | 4.91 | 36.9 | 4.91 |
| | 35 | 92.4 | 26.2 | 3.81 | 28.4 | 4.42 | 30.9 | 5.17 | 33.6 | 5.79 | 34.6 | 5.95 | 36.0 | 6.11 | 36.9 | 6.20 |
| | | 115.5 | 26.2 | 3.74 | 28.4 | 4.35 | 30.9 | 5.09 | 33.6 | 5.69 | 34.6 | 5.85 | 36.0 | 6.01 | 36.9 | 6.10 |
| | | 231.0 | 26.2 | 3.43 | 28.4 | 4.07 | 30.9 | 4.75 | 33.6 | 5.33 | 34.6 | 5.45 | 36.0 | 5.61 | 36.9 | 5.69 |
| | | 288.8 | 26.2 | 3.34 | 28.4 | 3.99 | 30.9 | 4.65 | 33.6 | 5.24 | 34.6 | 5.36 | 36.0 | 5.52 | 36.9 | 5.55 |
| | | 346.5 | 26.2 | 3.29 | 28.4 | 3.93 | 30.9 | 4.61 | 33.6 | 5.19 | 34.6 | 5.32 | 36.0 | 5.47 | 36.9 | 5.47 |
| | 40 | 92.4 | 26.2 | 4.49 | 28.4 | 5.23 | 30.9 | 6.11 | 33.6 | 6.89 | 34.6 | 7.04 | 36.0 | 7.22 | 36.9 | 7.34 |
| | | 115.5 | 26.2 | 4.41 | 28.4 | 5.14 | 30.9 | 6.01 | 33.6 | 6.77 | 34.6 | 6.92 | 36.0 | 7.11 | 36.9 | 7.23 |
| | | 231.0 | 26.2 | 4.07 | 28.4 | 4.81 | 30.9 | 5.61 | 33.6 | 6.31 | 34.6 | 6.46 | 36.0 | 6.65 | 36.9 | 6.77 |
| | | 288.8 | 26.2 | 3.96 | 28.4 | 4.72 | 30.9 | 5.52 | 33.6 | 6.19 | 34.6 | 6.34 | 36.0 | 6.53 | 36.9 | 6.59 |
| | | 346.5 | 26.2 | 3.89 | 28.4 | 4.67 | 30.9 | 5.47 | 33.6 | 6.13 | 34.6 | 6.28 | 36.0 | 6.46 | 36.9 | 6.50 |
| | 45 | 92.4 | 26.2 | 5.17 | 28.4 | 6.04 | 30.9 | 7.04 | 33.6 | 7.98 | 34.6 | 8.13 | 36.0 | 8.34 | 36.9 | 8.50 |
| | | 115.5 | 26.2 | 5.09 | 28.4 | 5.94 | 30.9 | 6.92 | 33.6 | 7.84 | 34.6 | 7.99 | 36.0 | 8.21 | 36.9 | 8.36 |
| | | 231.0 | 26.2 | 4.72 | 28.4 | 5.55 | 30.9 | 6.46 | 33.6 | 7.29 | 34.6 | 7.47 | 36.0 | 7.69 | 36.9 | 7.84 |
| | | 288.8 | 26.2 | 4.57 | 28.4 | 5.45 | 30.9 | 6.37 | 33.6 | 7.14 | 34.6 | 7.32 | 36.0 | 7.54 | 36.9 | 7.63 |
| | | 346.5 | 26.2 | 4.49 | 28.4 | 5.40 | 30.9 | 6.33 | 33.6 | 7.06 | 34.6 | 7.25 | 36.0 | 7.46 | 36.9 | 7.53 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN260BAS4

**Cooling Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 100.4 | 67.6 | 4.93 | 73.3 | 5.77 | 79.9 | 6.73 | 86.7 | 7.58 | 89.2 | 7.80 | 92.8 | 7.94 | 95.4 | 8.01 |
| | | 125.5 | 67.6 | 4.84 | 73.3 | 5.69 | 79.9 | 6.62 | 86.7 | 7.46 | 89.2 | 7.66 | 92.8 | 7.82 | 95.4 | 7.91 |
| | | 251.0 | 67.6 | 4.49 | 73.3 | 5.33 | 79.9 | 6.21 | 86.7 | 6.98 | 89.2 | 7.11 | 92.8 | 7.33 | 95.4 | 7.50 |
| | | 313.8 | 67.6 | 4.37 | 73.3 | 5.20 | 79.9 | 6.07 | 86.7 | 6.81 | 89.2 | 7.01 | 92.8 | 7.17 | 95.4 | 7.30 |
| | | 376.5 | 67.6 | 4.30 | 73.3 | 5.14 | 79.9 | 6.01 | 86.7 | 6.73 | 89.2 | 6.97 | 92.8 | 7.09 | 95.4 | 7.20 |
| | 15 | 100.4 | 66.5 | 6.51 | 72.1 | 7.57 | 78.5 | 8.83 | 85.3 | 9.95 | 87.9 | 10.20 | 91.3 | 10.42 | 93.8 | 10.58 |
| | | 125.5 | 66.5 | 6.39 | 72.1 | 7.46 | 78.5 | 8.69 | 85.3 | 9.79 | 87.9 | 10.03 | 91.3 | 10.26 | 93.8 | 10.43 |
| | | 251.0 | 66.5 | 5.88 | 72.1 | 6.99 | 78.5 | 8.12 | 85.3 | 9.16 | 87.9 | 9.36 | 91.3 | 9.63 | 93.8 | 9.82 |
| | | 313.8 | 66.5 | 5.72 | 72.1 | 6.82 | 78.5 | 7.96 | 85.3 | 8.96 | 87.9 | 9.19 | 91.3 | 9.43 | 93.8 | 9.60 |
| | | 376.5 | 66.5 | 5.63 | 72.1 | 6.73 | 78.5 | 7.87 | 85.3 | 8.86 | 87.9 | 9.11 | 91.3 | 9.33 | 93.8 | 9.48 |
| | 20 | 100.4 | 65.6 | 7.92 | 71.0 | 9.17 | 77.4 | 10.71 | 84.2 | 12.06 | 86.6 | 12.33 | 90.0 | 12.63 | 92.5 | 12.87 |
| | | 125.5 | 65.6 | 7.76 | 71.0 | 9.03 | 77.4 | 10.53 | 84.2 | 11.87 | 86.6 | 12.14 | 90.0 | 12.44 | 92.5 | 12.67 |
| | | 251.0 | 65.6 | 7.12 | 71.0 | 8.45 | 77.4 | 9.82 | 84.2 | 11.10 | 86.6 | 11.37 | 90.0 | 11.67 | 92.5 | 11.90 |
| | | 313.8 | 65.6 | 6.92 | 71.0 | 8.26 | 77.4 | 9.63 | 84.2 | 10.86 | 86.6 | 11.13 | 90.0 | 11.43 | 92.5 | 11.64 |
| | | 376.5 | 65.6 | 6.82 | 71.0 | 8.15 | 77.4 | 9.52 | 84.2 | 10.75 | 86.6 | 11.02 | 90.0 | 11.32 | 92.5 | 11.50 |
| | 25 | 100.4 | 65.6 | 9.76 | 71.0 | 11.31 | 77.4 | 13.18 | 84.2 | 14.85 | 86.6 | 15.22 | 90.0 | 15.59 | 92.5 | 15.85 |
| | | 125.5 | 65.6 | 9.56 | 71.0 | 11.13 | 77.4 | 12.97 | 84.2 | 14.61 | 86.6 | 14.98 | 90.0 | 15.34 | 92.5 | 15.61 |
| | | 251.0 | 65.6 | 8.80 | 71.0 | 10.43 | 77.4 | 12.14 | 84.2 | 13.67 | 86.6 | 14.00 | 90.0 | 14.38 | 92.5 | 14.68 |
| | | 313.8 | 65.6 | 8.56 | 71.0 | 10.20 | 77.4 | 11.90 | 84.2 | 13.40 | 86.6 | 13.75 | 90.0 | 14.11 | 92.5 | 14.35 |
| | | 376.5 | 65.6 | 8.44 | 71.0 | 10.08 | 77.4 | 11.78 | 84.2 | 13.27 | 86.6 | 13.61 | 90.0 | 13.97 | 92.5 | 14.17 |
| | 30 | 100.4 | 65.6 | 11.70 | 71.0 | 13.59 | 77.4 | 15.83 | 84.2 | 17.83 | 86.6 | 18.24 | 90.0 | 18.72 | 92.5 | 19.00 |
| | | 125.5 | 65.6 | 11.46 | 71.0 | 13.37 | 77.4 | 15.58 | 84.2 | 17.55 | 86.6 | 17.96 | 90.0 | 18.42 | 92.5 | 18.72 |
| | | 251.0 | 65.6 | 10.53 | 71.0 | 12.50 | 77.4 | 14.58 | 84.2 | 16.41 | 86.6 | 16.82 | 90.0 | 17.25 | 92.5 | 17.61 |
| | | 313.8 | 65.6 | 10.26 | 71.0 | 12.24 | 77.4 | 14.27 | 84.2 | 16.08 | 86.6 | 16.52 | 90.0 | 16.92 | 92.5 | 17.22 |
| | | 376.5 | 65.6 | 10.14 | 71.0 | 12.11 | 77.4 | 14.13 | 84.2 | 15.91 | 86.6 | 16.37 | 90.0 | 16.75 | 92.5 | 17.01 |
| | 35 | 100.4 | 59.0 | 11.84 | 63.9 | 13.77 | 69.7 | 16.00 | 75.7 | 18.05 | 78.0 | 18.44 | 81.0 | 18.92 | 83.2 | 19.25 |
| | | 125.5 | 59.0 | 11.60 | 63.9 | 13.54 | 69.7 | 15.75 | 75.7 | 17.75 | 78.0 | 18.15 | 81.0 | 18.62 | 83.2 | 18.95 |
| | | 251.0 | 59.0 | 10.66 | 63.9 | 12.64 | 69.7 | 14.74 | 75.7 | 16.58 | 78.0 | 17.01 | 81.0 | 17.45 | 83.2 | 17.78 |
| | | 313.8 | 59.0 | 10.36 | 63.9 | 12.37 | 69.7 | 14.44 | 75.7 | 16.25 | 78.0 | 16.68 | 81.0 | 17.12 | 83.2 | 17.42 |
| | | 376.5 | 59.0 | 10.22 | 63.9 | 12.24 | 69.7 | 14.30 | 75.7 | 16.08 | 78.0 | 16.52 | 81.0 | 16.95 | 83.2 | 17.23 |
| | 40 | 100.4 | 52.5 | 12.49 | 56.9 | 14.51 | 61.9 | 16.89 | 67.3 | 19.03 | 69.2 | 19.47 | 72.0 | 19.93 | 74.0 | 20.29 |
| | | 125.5 | 52.5 | 12.24 | 56.9 | 14.27 | 61.9 | 16.62 | 67.3 | 18.72 | 69.2 | 19.16 | 72.0 | 19.63 | 74.0 | 19.99 |
| | | 251.0 | 52.5 | 11.23 | 56.9 | 13.34 | 61.9 | 15.55 | 67.3 | 17.48 | 69.2 | 17.92 | 72.0 | 18.42 | 74.0 | 18.79 |
| | | 313.8 | 52.5 | 10.93 | 56.9 | 13.04 | 61.9 | 15.21 | 67.3 | 17.15 | 69.2 | 17.58 | 72.0 | 18.05 | 74.0 | 18.35 |
| | | 376.5 | 52.5 | 10.78 | 56.9 | 12.88 | 61.9 | 15.04 | 67.3 | 16.98 | 69.2 | 17.42 | 72.0 | 17.87 | 74.0 | 18.13 |
| | 45 | 100.4 | 45.9 | 13.15 | 49.7 | 15.26 | 54.1 | 17.77 | 58.8 | 20.02 | 60.6 | 20.50 | 63.0 | 20.94 | 64.8 | 21.35 |
| | | 125.5 | 45.9 | 12.87 | 49.7 | 15.01 | 54.1 | 17.48 | 58.8 | 19.69 | 60.6 | 20.16 | 63.0 | 20.62 | 64.8 | 21.03 |
| | | 251.0 | 45.9 | 11.81 | 49.7 | 14.05 | 54.1 | 16.35 | 58.8 | 18.39 | 60.6 | 18.82 | 63.0 | 19.39 | 64.8 | 19.79 |
| | | 313.8 | 45.9 | 11.50 | 49.7 | 13.70 | 54.1 | 15.98 | 58.8 | 18.05 | 60.6 | 18.49 | 63.0 | 18.99 | 64.8 | 19.30 |
| | | 376.5 | 45.9 | 11.35 | 49.7 | 13.54 | 54.1 | 15.80 | 58.8 | 17.88 | 60.6 | 18.32 | 63.0 | 18.79 | 64.8 | 19.04 |
| 120 | 10 | 100.4 | 64.0 | 4.71 | 69.4 | 5.44 | 75.4 | 6.40 | 82.1 | 7.18 | 84.7 | 7.39 | 87.9 | 7.55 | 90.3 | 7.68 |
| | | 125.5 | 64.0 | 4.62 | 69.4 | 5.36 | 75.4 | 6.29 | 82.1 | 7.06 | 84.7 | 7.27 | 87.9 | 7.42 | 90.3 | 7.55 |
| | | 251.0 | 64.0 | 4.23 | 69.4 | 5.00 | 75.4 | 5.84 | 82.1 | 6.62 | 84.7 | 6.75 | 87.9 | 6.94 | 90.3 | 7.03 |
| | | 313.8 | 64.0 | 4.16 | 69.4 | 4.90 | 75.4 | 5.78 | 82.1 | 6.48 | 84.7 | 6.61 | 87.9 | 6.81 | 90.3 | 6.90 |
| | | 376.5 | 64.0 | 4.13 | 69.4 | 4.86 | 75.4 | 5.75 | 82.1 | 6.42 | 84.7 | 6.54 | 87.9 | 6.75 | 90.3 | 6.84 |
| | 15 | 100.4 | 63.3 | 6.24 | 68.6 | 7.24 | 74.6 | 8.47 | 81.2 | 9.51 | 83.7 | 9.76 | 86.8 | 9.99 | 89.2 | 10.15 |
| | | 125.5 | 63.3 | 6.12 | 68.6 | 7.12 | 74.6 | 8.32 | 81.2 | 9.36 | 83.7 | 9.60 | 86.8 | 9.82 | 89.2 | 10.00 |
| | | 251.0 | 63.3 | 5.61 | 68.6 | 6.65 | 74.6 | 7.76 | 81.2 | 8.76 | 83.7 | 8.96 | 86.8 | 9.19 | 89.2 | 9.36 |
| | | 313.8 | 63.3 | 5.49 | 68.6 | 6.51 | 74.6 | 7.62 | 81.2 | 8.59 | 83.7 | 8.80 | 86.8 | 9.03 | 89.2 | 9.16 |
| | | 376.5 | 63.3 | 5.42 | 68.6 | 6.45 | 74.6 | 7.55 | 81.2 | 8.51 | 83.7 | 8.71 | 86.8 | 8.94 | 89.2 | 9.06 |
| | 20 | 100.4 | 62.7 | 7.61 | 67.9 | 8.83 | 73.9 | 10.30 | 80.4 | 11.59 | 82.7 | 11.86 | 86.0 | 12.16 | 88.4 | 12.36 |
| | | 125.5 | 62.7 | 7.46 | 67.9 | 8.69 | 73.9 | 10.12 | 80.4 | 11.40 | 82.7 | 11.67 | 86.0 | 11.97 | 88.4 | 12.17 |
| | | 251.0 | 62.7 | 6.86 | 67.9 | 8.12 | 73.9 | 9.46 | 80.4 | 10.66 | 82.7 | 10.93 | 86.0 | 11.20 | 88.4 | 11.43 |
| | | 313.8 | 62.7 | 6.65 | 67.9 | 7.96 | 73.9 | 9.26 | 80.4 | 10.47 | 82.7 | 10.73 | 86.0 | 11.00 | 88.4 | 11.16 |
| | | 376.5 | 62.7 | 6.56 | 67.9 | 7.87 | 73.9 | 9.16 | 80.4 | 10.36 | 82.7 | 10.63 | 86.0 | 10.90 | 88.4 | 11.04 |
| | 25 | 100.4 | 62.7 | 9.35 | 67.9 | 10.83 | 73.9 | 12.64 | 80.4 | 14.24 | 82.7 | 14.58 | 86.0 | 14.95 | 88.4 | 15.21 |
| | | 125.5 | 62.7 | 9.16 | 67.9 | 10.66 | 73.9 | 12.44 | 80.4 | 14.00 | 82.7 | 14.35 | 86.0 | 14.71 | 88.4 | 14.98 |
| | | 251.0 | 62.7 | 8.42 | 67.9 | 10.00 | 73.9 | 11.64 | 80.4 | 13.10 | 82.7 | 13.40 | 86.0 | 13.78 | 88.4 | 14.05 |
| | | 313.8 | 62.7 | 8.20 | 67.9 | 9.76 | 73.9 | 11.40 | 80.4 | 12.84 | 82.7 | 13.17 | 86.0 | 13.51 | 88.4 | 13.70 |
| | | 376.5 | 62.7 | 8.07 | 67.9 | 9.65 | 73.9 | 11.29 | 80.4 | 12.71 | 82.7 | 13.05 | 86.0 | 13.37 | 88.4 | 13.54 |
| | 30 | 100.4 | 62.7 | 11.29 | 67.9 | 13.12 | 73.9 | 15.29 | 80.4 | 17.23 | 82.7 | 17.64 | 86.0 | 18.07 | 88.4 | 18.37 |
| | | 125.5 | 62.7 | 11.07 | 67.9 | 12.90 | 73.9 | 15.04 | 80.4 | 16.95 | 82.7 | 17.36 | 86.0 | 17.78 | 88.4 | 18.08 |
| | | 251.0 | 62.7 | 10.20 | 67.9 | 12.06 | 73.9 | 14.08 | 80.4 | 15.85 | 82.7 | 16.21 | 86.0 | 16.65 | 88.4 | 16.98 |
| | | 313.8 | 62.7 | 9.90 | 67.9 | 11.81 | 73.9 | 13.78 | 80.4 | 15.51 | 82.7 | 15.91 | 86.0 | 16.35 | 88.4 | 16.58 |
| | | 376.5 | 62.7 | 9.74 | 67.9 | 11.67 | 73.9 | 13.62 | 80.4 | 15.34 | 82.7 | 15.77 | 86.0 | 16.19 | 88.4 | 16.38 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 100.4 | 57.4 | 11.56 | 62.1 | 13.46 | 67.6 | 15.67 | 73.5 | 17.63 | 75.7 | 18.07 | 78.7 | 18.51 | 80.9 | 18.85 |
| | | 125.5 | 57.4 | 11.34 | 62.1 | 13.24 | 67.6 | 15.42 | 73.5 | 17.36 | 75.7 | 17.78 | 78.7 | 18.22 | 80.9 | 18.56 |
| | | 251.0 | 57.4 | 10.43 | 62.1 | 12.37 | 67.6 | 14.41 | 73.5 | 16.25 | 75.7 | 16.65 | 78.7 | 17.09 | 80.9 | 17.39 |
| | | 313.8 | 57.4 | 10.17 | 62.1 | 12.11 | 67.6 | 14.11 | 73.5 | 15.91 | 75.7 | 16.32 | 78.7 | 16.75 | 80.9 | 16.98 |
| | | 376.5 | 57.4 | 10.03 | 62.1 | 11.97 | 67.6 | 13.96 | 73.5 | 15.75 | 75.7 | 16.15 | 78.7 | 16.59 | 80.9 | 16.79 |
| | 40 | 100.4 | 52.0 | 12.44 | 56.4 | 14.48 | 61.4 | 16.85 | 66.8 | 19.00 | 68.6 | 19.44 | 71.4 | 19.90 | 73.4 | 20.27 |
| | | 125.5 | 52.0 | 12.20 | 56.4 | 14.24 | 61.4 | 16.58 | 66.8 | 18.69 | 68.6 | 19.12 | 71.4 | 19.60 | 73.4 | 19.96 |
| | | 251.0 | 52.0 | 11.23 | 56.4 | 13.31 | 61.4 | 15.51 | 66.8 | 17.48 | 68.6 | 17.88 | 71.4 | 18.35 | 73.4 | 18.72 |
| | | 313.8 | 52.0 | 10.93 | 56.4 | 13.04 | 61.4 | 15.21 | 66.8 | 17.12 | 68.6 | 17.55 | 71.4 | 18.02 | 73.4 | 18.29 |
| | | 376.5 | 52.0 | 10.78 | 56.4 | 12.91 | 61.4 | 15.06 | 66.8 | 16.93 | 68.6 | 17.39 | 71.4 | 17.85 | 73.4 | 18.07 |
| | 45 | 100.4 | 46.8 | 13.34 | 50.5 | 15.50 | 55.1 | 18.04 | 60.0 | 20.35 | 61.6 | 20.80 | 64.1 | 21.30 | 66.0 | 21.69 |
| | | 125.5 | 46.8 | 13.07 | 50.5 | 15.25 | 55.1 | 17.75 | 60.0 | 20.02 | 61.6 | 20.46 | 64.1 | 20.97 | 66.0 | 21.36 |
| | | 251.0 | 46.8 | 12.03 | 50.5 | 14.24 | 55.1 | 16.62 | 60.0 | 18.72 | 61.6 | 19.12 | 64.1 | 19.63 | 66.0 | 20.06 |
| | | 313.8 | 46.8 | 11.70 | 50.5 | 13.97 | 55.1 | 16.32 | 60.0 | 18.32 | 61.6 | 18.79 | 64.1 | 19.30 | 66.0 | 19.60 |
| | | 376.5 | 46.8 | 11.54 | 50.5 | 13.84 | 55.1 | 16.16 | 60.0 | 18.12 | 61.6 | 18.62 | 64.1 | 19.12 | 66.0 | 19.36 |
| 110 | 10 | 100.4 | 60.4 | 4.48 | 65.3 | 5.18 | 71.2 | 5.98 | 77.4 | 6.78 | 79.8 | 6.89 | 83.0 | 7.11 | 85.1 | 7.20 |
| | | 125.5 | 60.4 | 4.38 | 65.3 | 5.09 | 71.2 | 5.90 | 77.4 | 6.67 | 79.8 | 6.80 | 83.0 | 6.99 | 85.1 | 7.08 |
| | | 251.0 | 60.4 | 4.03 | 65.3 | 4.73 | 71.2 | 5.54 | 77.4 | 6.26 | 79.8 | 6.42 | 83.0 | 6.50 | 85.1 | 6.64 |
| | | 313.8 | 60.4 | 3.90 | 65.3 | 4.64 | 71.2 | 5.41 | 77.4 | 6.12 | 79.8 | 6.24 | 83.0 | 6.37 | 85.1 | 6.54 |
| | | 376.5 | 60.4 | 3.83 | 65.3 | 4.59 | 71.2 | 5.35 | 77.4 | 6.06 | 79.8 | 6.16 | 83.0 | 6.31 | 85.1 | 6.50 |
| | 15 | 100.4 | 60.1 | 5.97 | 65.0 | 6.94 | 70.8 | 8.05 | 77.0 | 9.07 | 79.3 | 9.27 | 82.4 | 9.51 | 84.7 | 9.68 |
| | | 125.5 | 60.1 | 5.85 | 65.0 | 6.82 | 70.8 | 7.93 | 77.0 | 8.92 | 79.3 | 9.13 | 82.4 | 9.36 | 84.7 | 9.52 |
| | | 251.0 | 60.1 | 5.38 | 65.0 | 6.35 | 70.8 | 7.42 | 77.0 | 8.36 | 79.3 | 8.56 | 82.4 | 8.76 | 84.7 | 8.92 |
| | | 313.8 | 60.1 | 5.22 | 65.0 | 6.21 | 70.8 | 7.25 | 77.0 | 8.20 | 79.3 | 8.39 | 82.4 | 8.59 | 84.7 | 8.72 |
| | | 376.5 | 60.1 | 5.14 | 65.0 | 6.15 | 70.8 | 7.17 | 77.0 | 8.11 | 79.3 | 8.31 | 82.4 | 8.51 | 84.7 | 8.62 |
| | 20 | 100.4 | 59.8 | 7.30 | 64.7 | 8.50 | 70.5 | 9.89 | 76.5 | 11.11 | 78.8 | 11.38 | 81.9 | 11.65 | 84.2 | 11.89 |
| | | 125.5 | 59.8 | 7.16 | 64.7 | 8.36 | 70.5 | 9.73 | 76.5 | 10.93 | 78.8 | 11.20 | 81.9 | 11.46 | 84.2 | 11.70 |
| | | 251.0 | 59.8 | 6.59 | 64.7 | 7.79 | 70.5 | 9.10 | 76.5 | 10.23 | 78.8 | 10.47 | 81.9 | 10.77 | 84.2 | 10.97 |
| | | 313.8 | 59.8 | 6.39 | 64.7 | 7.62 | 70.5 | 8.89 | 76.5 | 10.03 | 78.8 | 10.30 | 81.9 | 10.56 | 84.2 | 10.66 |
| | | 376.5 | 59.8 | 6.29 | 64.7 | 7.54 | 70.5 | 8.80 | 76.5 | 9.93 | 78.8 | 10.22 | 81.9 | 10.47 | 84.2 | 10.52 |
| | 25 | 100.4 | 59.8 | 8.94 | 64.7 | 10.40 | 70.5 | 12.09 | 76.5 | 13.62 | 78.8 | 13.92 | 81.9 | 14.27 | 84.2 | 14.54 |
| | | 125.5 | 59.8 | 8.76 | 64.7 | 10.23 | 70.5 | 11.90 | 76.5 | 13.40 | 78.8 | 13.70 | 81.9 | 14.05 | 84.2 | 14.31 |
| | | 251.0 | 59.8 | 8.06 | 64.7 | 9.56 | 70.5 | 11.13 | 76.5 | 12.54 | 78.8 | 12.84 | 81.9 | 13.17 | 84.2 | 13.40 |
| | | 313.8 | 59.8 | 7.82 | 64.7 | 9.36 | 70.5 | 10.90 | 76.5 | 12.27 | 78.8 | 12.60 | 81.9 | 12.90 | 84.2 | 13.07 |
| | | 376.5 | 59.8 | 7.71 | 64.7 | 9.26 | 70.5 | 10.78 | 76.5 | 12.14 | 78.8 | 12.49 | 81.9 | 12.77 | 84.2 | 12.91 |
| | 30 | 100.4 | 59.8 | 10.88 | 64.7 | 12.68 | 70.5 | 14.74 | 76.5 | 16.62 | 78.8 | 16.98 | 81.9 | 17.42 | 84.2 | 17.73 |
| | | 125.5 | 59.8 | 10.66 | 64.7 | 12.47 | 70.5 | 14.51 | 76.5 | 16.35 | 78.8 | 16.71 | 81.9 | 17.15 | 84.2 | 17.45 |
| | | 251.0 | 59.8 | 9.82 | 64.7 | 11.64 | 70.5 | 13.57 | 76.5 | 15.28 | 78.8 | 15.64 | 81.9 | 16.05 | 84.2 | 16.35 |
| | | 313.8 | 59.8 | 9.56 | 64.7 | 11.40 | 70.5 | 13.27 | 76.5 | 14.98 | 78.8 | 15.34 | 81.9 | 15.75 | 84.2 | 15.94 |
| | | 376.5 | 59.8 | 9.43 | 64.7 | 11.29 | 70.5 | 13.12 | 76.5 | 14.82 | 78.8 | 15.20 | 81.9 | 15.59 | 84.2 | 15.75 |
| | 35 | 100.4 | 55.6 | 11.32 | 60.3 | 13.15 | 65.6 | 15.32 | 71.4 | 17.26 | 73.5 | 17.66 | 76.4 | 18.10 | 78.5 | 18.45 |
| | | 125.5 | 55.6 | 11.10 | 60.3 | 12.94 | 65.6 | 15.07 | 71.4 | 16.98 | 73.5 | 17.39 | 76.4 | 17.82 | 78.5 | 18.15 |
| | | 251.0 | 55.6 | 10.20 | 60.3 | 12.11 | 65.6 | 14.11 | 71.4 | 15.88 | 73.5 | 16.28 | 76.4 | 16.68 | 78.5 | 16.98 |
| | | 313.8 | 55.6 | 9.93 | 60.3 | 11.84 | 65.6 | 13.81 | 71.4 | 15.58 | 73.5 | 15.94 | 76.4 | 16.38 | 78.5 | 16.58 |
| | | 376.5 | 55.6 | 9.79 | 60.3 | 11.70 | 65.6 | 13.66 | 71.4 | 15.43 | 73.5 | 15.78 | 76.4 | 16.24 | 78.5 | 16.38 |
| | 40 | 100.4 | 51.5 | 12.46 | 55.8 | 14.44 | 60.9 | 16.86 | 66.1 | 18.95 | 68.1 | 19.41 | 70.8 | 19.87 | 72.7 | 20.24 |
| | | 125.5 | 51.5 | 12.20 | 55.8 | 14.21 | 60.9 | 16.58 | 66.1 | 18.65 | 68.1 | 19.09 | 70.8 | 19.55 | 72.7 | 19.93 |
| | | 251.0 | 51.5 | 11.20 | 55.8 | 13.31 | 60.9 | 15.48 | 66.1 | 17.45 | 68.1 | 17.85 | 70.8 | 18.32 | 72.7 | 18.69 |
| | | 313.8 | 51.5 | 10.90 | 55.8 | 13.01 | 60.9 | 15.18 | 66.1 | 17.12 | 68.1 | 17.52 | 70.8 | 17.99 | 72.7 | 18.22 |
| | | 376.5 | 51.5 | 10.75 | 55.8 | 12.85 | 60.9 | 15.03 | 66.1 | 16.95 | 68.1 | 17.36 | 70.8 | 17.82 | 72.7 | 17.99 |
| | 45 | 100.4 | 47.5 | 13.59 | 51.4 | 15.72 | 56.1 | 18.40 | 60.9 | 20.65 | 62.6 | 21.14 | 65.2 | 21.63 | 66.9 | 22.03 |
| | | 125.5 | 47.5 | 13.31 | 51.4 | 15.48 | 56.1 | 18.08 | 60.9 | 20.32 | 62.6 | 20.80 | 65.2 | 21.30 | 66.9 | 21.70 |
| | | 251.0 | 47.5 | 12.20 | 51.4 | 14.51 | 56.1 | 16.85 | 60.9 | 19.03 | 62.6 | 19.42 | 65.2 | 19.96 | 66.9 | 20.39 |
| | | 313.8 | 47.5 | 11.87 | 51.4 | 14.17 | 56.1 | 16.55 | 60.9 | 18.65 | 62.6 | 19.09 | 65.2 | 19.60 | 66.9 | 19.86 |
| | | 376.5 | 47.5 | 11.70 | 51.4 | 14.01 | 56.1 | 16.40 | 60.9 | 18.48 | 62.6 | 18.92 | 65.2 | 19.41 | 66.9 | 19.60 |
| 100 | 10 | 100.4 | 56.9 | 4.16 | 61.4 | 4.89 | 66.9 | 5.65 | 72.8 | 6.32 | 75.1 | 6.48 | 77.8 | 6.70 | 80.1 | 6.84 |
| | | 125.5 | 56.9 | 4.08 | 61.4 | 4.79 | 66.9 | 5.56 | 72.8 | 6.23 | 75.1 | 6.40 | 77.8 | 6.59 | 80.1 | 6.72 |
| | | 251.0 | 56.9 | 3.77 | 61.4 | 4.43 | 66.9 | 5.22 | 72.8 | 5.88 | 75.1 | 6.05 | 77.8 | 6.18 | 80.1 | 6.23 |
| | | 313.8 | 56.9 | 3.70 | 61.4 | 4.34 | 66.9 | 5.11 | 72.8 | 5.72 | 75.1 | 5.88 | 77.8 | 6.05 | 80.1 | 6.15 |
| | | 376.5 | 56.9 | 3.67 | 61.4 | 4.29 | 66.9 | 5.06 | 72.8 | 5.64 | 75.1 | 5.80 | 77.8 | 5.98 | 80.1 | 6.10 |
| | 15 | 100.4 | 56.9 | 5.66 | 61.4 | 6.59 | 66.9 | 7.68 | 72.8 | 8.63 | 75.1 | 8.83 | 77.8 | 9.07 | 80.1 | 9.24 |
| | | 125.5 | 56.9 | 5.55 | 61.4 | 6.48 | 66.9 | 7.55 | 72.8 | 8.50 | 75.1 | 8.69 | 77.8 | 8.92 | 80.1 | 9.10 |
| | | 251.0 | 56.9 | 5.11 | 61.4 | 6.05 | 66.9 | 7.05 | 72.8 | 7.96 | 75.1 | 8.15 | 77.8 | 8.36 | 80.1 | 8.50 |
| | | 313.8 | 56.9 | 4.98 | 61.4 | 5.91 | 66.9 | 6.92 | 72.8 | 7.79 | 75.1 | 7.99 | 77.8 | 8.20 | 80.1 | 8.29 |
| | | 376.5 | 56.9 | 4.92 | 61.4 | 5.85 | 66.9 | 6.86 | 72.8 | 7.71 | 75.1 | 7.91 | 77.8 | 8.11 | 80.1 | 8.20 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 100.4 | 56.9 | 6.99 | 61.4 | 8.12 | 66.9 | 9.49 | 72.8 | 10.67 | 75.1 | 10.91 | 77.8 | 11.18 | 80.1 | 11.38 |
| | | 125.5 | 56.9 | 6.86 | 61.4 | 7.99 | 66.9 | 9.33 | 72.8 | 10.50 | 75.1 | 10.73 | 77.8 | 11.00 | 80.1 | 11.20 |
| | | 251.0 | 56.9 | 6.32 | 61.4 | 7.49 | 66.9 | 8.69 | 72.8 | 9.79 | 75.1 | 10.03 | 77.8 | 10.30 | 80.1 | 10.50 |
| | | 313.8 | 56.9 | 6.12 | 61.4 | 7.32 | 66.9 | 8.53 | 72.8 | 9.63 | 75.1 | 9.87 | 77.8 | 10.09 | 80.1 | 10.20 |
| | | 376.5 | 56.9 | 6.02 | 61.4 | 7.24 | 66.9 | 8.44 | 72.8 | 9.54 | 75.1 | 9.78 | 77.8 | 10.00 | 80.1 | 10.04 |
| | 25 | 100.4 | 56.9 | 8.53 | 61.4 | 9.92 | 66.9 | 11.56 | 72.8 | 13.02 | 75.1 | 13.32 | 77.8 | 13.62 | 80.1 | 13.90 |
| | | 125.5 | 56.9 | 8.36 | 61.4 | 9.76 | 66.9 | 11.37 | 72.8 | 12.80 | 75.1 | 13.10 | 77.8 | 13.40 | 80.1 | 13.67 |
| | | 251.0 | 56.9 | 7.69 | 61.4 | 9.13 | 66.9 | 10.63 | 72.8 | 11.97 | 75.1 | 12.24 | 77.8 | 12.57 | 80.1 | 12.77 |
| | | 313.8 | 56.9 | 7.49 | 61.4 | 8.92 | 66.9 | 10.39 | 72.8 | 11.73 | 75.1 | 12.00 | 77.8 | 12.33 | 80.1 | 12.44 |
| | | 376.5 | 56.9 | 7.39 | 61.4 | 8.83 | 66.9 | 10.28 | 72.8 | 11.62 | 75.1 | 11.89 | 77.8 | 12.22 | 80.1 | 12.27 |
| | 30 | 100.4 | 56.9 | 10.50 | 61.4 | 12.20 | 66.9 | 14.20 | 72.8 | 16.00 | 75.1 | 16.38 | 77.8 | 16.79 | 80.1 | 17.09 |
| | | 125.5 | 56.9 | 10.30 | 61.4 | 12.00 | 66.9 | 13.97 | 72.8 | 15.75 | 75.1 | 16.11 | 77.8 | 16.52 | 80.1 | 16.82 |
| | | 251.0 | 56.9 | 9.46 | 61.4 | 11.20 | 66.9 | 13.07 | 72.8 | 14.71 | 75.1 | 15.04 | 77.8 | 15.45 | 80.1 | 15.72 |
| | | 313.8 | 56.9 | 9.19 | 61.4 | 10.97 | 66.9 | 12.80 | 72.8 | 14.41 | 75.1 | 14.77 | 77.8 | 15.15 | 80.1 | 15.31 |
| | | 376.5 | 56.9 | 9.06 | 61.4 | 10.85 | 66.9 | 12.67 | 72.8 | 14.26 | 75.1 | 14.65 | 77.8 | 14.99 | 80.1 | 15.12 |
| | 35 | 100.4 | 54.0 | 11.08 | 58.5 | 12.88 | 63.6 | 14.99 | 69.2 | 16.90 | 71.3 | 17.30 | 74.0 | 17.69 | 76.0 | 18.01 |
| | | 125.5 | 54.0 | 10.86 | 58.5 | 12.67 | 63.6 | 14.74 | 69.2 | 16.62 | 71.3 | 17.01 | 74.0 | 17.42 | 76.0 | 17.72 |
| | | 251.0 | 54.0 | 10.00 | 58.5 | 11.84 | 63.6 | 13.78 | 69.2 | 15.51 | 71.3 | 15.91 | 74.0 | 16.32 | 76.0 | 16.58 |
| | | 313.8 | 54.0 | 9.70 | 58.5 | 11.60 | 63.6 | 13.51 | 69.2 | 15.21 | 71.3 | 15.61 | 74.0 | 16.02 | 76.0 | 16.15 |
| | | 376.5 | 54.0 | 9.54 | 58.5 | 11.48 | 63.6 | 13.37 | 69.2 | 15.06 | 71.3 | 15.47 | 74.0 | 15.86 | 76.0 | 15.93 |
| | 40 | 100.4 | 51.0 | 12.41 | 55.3 | 14.44 | 60.3 | 16.82 | 65.5 | 18.92 | 67.4 | 19.41 | 70.1 | 19.88 | 72.1 | 20.21 |
| | | 125.5 | 51.0 | 12.17 | 55.3 | 14.21 | 60.3 | 16.55 | 65.5 | 18.62 | 67.4 | 19.09 | 70.1 | 19.55 | 72.1 | 19.90 |
| | | 251.0 | 51.0 | 11.20 | 55.3 | 13.27 | 60.3 | 15.48 | 65.5 | 17.42 | 67.4 | 17.82 | 70.1 | 18.29 | 72.1 | 18.62 |
| | | 313.8 | 51.0 | 10.90 | 55.3 | 13.01 | 60.3 | 15.15 | 65.5 | 17.09 | 67.4 | 17.52 | 70.1 | 17.96 | 72.1 | 18.12 |
| | | 376.5 | 51.0 | 10.75 | 55.3 | 12.87 | 60.3 | 14.98 | 65.5 | 16.92 | 67.4 | 17.37 | 70.1 | 17.79 | 72.1 | 17.87 |
| | 45 | 100.4 | 48.1 | 13.75 | 52.2 | 16.00 | 56.9 | 18.65 | 61.9 | 20.95 | 63.6 | 21.52 | 66.1 | 22.06 | 68.1 | 22.42 |
| | | 125.5 | 48.1 | 13.48 | 52.2 | 15.75 | 56.9 | 18.35 | 61.9 | 20.62 | 63.6 | 21.16 | 66.1 | 21.70 | 68.1 | 22.07 |
| | | 251.0 | 48.1 | 12.41 | 52.2 | 14.71 | 56.9 | 17.18 | 61.9 | 19.33 | 63.6 | 19.72 | 66.1 | 20.26 | 68.1 | 20.66 |
| | | 313.8 | 48.1 | 12.11 | 52.2 | 14.41 | 56.9 | 16.78 | 61.9 | 18.95 | 63.6 | 19.42 | 66.1 | 19.90 | 68.1 | 20.09 |
| | | 376.5 | 48.1 | 11.95 | 52.2 | 14.26 | 56.9 | 16.59 | 61.9 | 18.78 | 63.6 | 19.27 | 66.1 | 19.71 | 68.1 | 19.81 |
| 90 | 10 | 100.4 | 51.0 | 3.61 | 55.3 | 4.18 | 60.3 | 4.82 | 65.5 | 5.49 | 67.4 | 5.63 | 70.1 | 5.79 | 72.1 | 5.89 |
| | | 125.5 | 51.0 | 3.54 | 55.3 | 4.12 | 60.3 | 4.76 | 65.5 | 5.41 | 67.4 | 5.53 | 70.1 | 5.69 | 72.1 | 5.79 |
| | | 251.0 | 51.0 | 3.28 | 55.3 | 3.86 | 60.3 | 4.51 | 65.5 | 5.09 | 67.4 | 5.17 | 70.1 | 5.31 | 72.1 | 5.41 |
| | | 313.8 | 51.0 | 3.15 | 55.3 | 3.80 | 60.3 | 4.37 | 65.5 | 4.95 | 67.4 | 5.08 | 70.1 | 5.22 | 72.1 | 5.24 |
| | | 376.5 | 51.0 | 3.09 | 55.3 | 3.77 | 60.3 | 4.30 | 65.5 | 4.89 | 67.4 | 5.03 | 70.1 | 5.16 | 72.1 | 5.16 |
| | 15 | 100.4 | 51.0 | 4.87 | 55.3 | 5.68 | 60.3 | 6.59 | 65.5 | 7.44 | 67.4 | 7.60 | 70.1 | 7.82 | 72.1 | 7.95 |
| | | 125.5 | 51.0 | 4.78 | 55.3 | 5.58 | 60.3 | 6.48 | 65.5 | 7.32 | 67.4 | 7.49 | 70.1 | 7.69 | 72.1 | 7.82 |
| | | 251.0 | 51.0 | 4.41 | 55.3 | 5.22 | 60.3 | 6.09 | 65.5 | 6.86 | 67.4 | 7.02 | 70.1 | 7.19 | 72.1 | 7.32 |
| | | 313.8 | 51.0 | 4.28 | 55.3 | 5.11 | 60.3 | 5.95 | 65.5 | 6.72 | 67.4 | 6.89 | 70.1 | 7.05 | 72.1 | 7.12 |
| | | 376.5 | 51.0 | 4.21 | 55.3 | 5.06 | 60.3 | 5.88 | 65.5 | 6.65 | 67.4 | 6.82 | 70.1 | 6.99 | 72.1 | 7.02 |
| | 20 | 100.4 | 51.0 | 6.01 | 55.3 | 7.00 | 60.3 | 8.15 | 65.5 | 9.18 | 67.4 | 9.37 | 70.1 | 9.62 | 72.1 | 9.78 |
| | | 125.5 | 51.0 | 5.88 | 55.3 | 6.89 | 60.3 | 8.02 | 65.5 | 9.03 | 67.4 | 9.22 | 70.1 | 9.46 | 72.1 | 9.63 |
| | | 251.0 | 51.0 | 5.42 | 55.3 | 6.42 | 60.3 | 7.49 | 65.5 | 8.42 | 67.4 | 8.66 | 70.1 | 8.86 | 72.1 | 9.03 |
| | | 313.8 | 51.0 | 5.28 | 55.3 | 6.29 | 60.3 | 7.36 | 65.5 | 8.29 | 67.4 | 8.50 | 70.1 | 8.69 | 72.1 | 8.80 |
| | | 376.5 | 51.0 | 5.22 | 55.3 | 6.21 | 60.3 | 7.29 | 65.5 | 8.23 | 67.4 | 8.41 | 70.1 | 8.61 | 72.1 | 8.67 |
| | 25 | 100.4 | 51.0 | 7.33 | 55.3 | 8.53 | 60.3 | 9.92 | 65.5 | 11.18 | 67.4 | 11.45 | 70.1 | 11.72 | 72.1 | 11.97 |
| | | 125.5 | 51.0 | 7.19 | 55.3 | 8.39 | 60.3 | 9.76 | 65.5 | 11.00 | 67.4 | 11.27 | 70.1 | 11.54 | 72.1 | 11.76 |
| | | 251.0 | 51.0 | 6.62 | 55.3 | 7.85 | 60.3 | 9.13 | 65.5 | 10.30 | 67.4 | 10.53 | 70.1 | 10.80 | 72.1 | 11.00 |
| | | 313.8 | 51.0 | 6.42 | 55.3 | 7.69 | 60.3 | 8.96 | 65.5 | 10.09 | 67.4 | 10.33 | 70.1 | 10.60 | 72.1 | 10.73 |
| | | 376.5 | 51.0 | 6.32 | 55.3 | 7.60 | 60.3 | 8.88 | 65.5 | 10.00 | 67.4 | 10.23 | 70.1 | 10.50 | 72.1 | 10.60 |
| | 30 | 100.4 | 51.0 | 9.05 | 55.3 | 10.50 | 60.3 | 12.24 | 65.5 | 13.76 | 67.4 | 14.10 | 70.1 | 14.44 | 72.1 | 14.71 |
| | | 125.5 | 51.0 | 8.86 | 55.3 | 10.33 | 60.3 | 12.03 | 65.5 | 13.54 | 67.4 | 13.87 | 70.1 | 14.21 | 72.1 | 14.47 |
| | | 251.0 | 51.0 | 8.12 | 55.3 | 9.66 | 60.3 | 11.23 | 65.5 | 12.67 | 67.4 | 12.97 | 70.1 | 13.31 | 72.1 | 13.54 |
| | | 313.8 | 51.0 | 7.93 | 55.3 | 9.46 | 60.3 | 11.00 | 65.5 | 12.41 | 67.4 | 12.74 | 70.1 | 13.04 | 72.1 | 13.17 |
| | | 376.5 | 51.0 | 7.82 | 55.3 | 9.36 | 60.3 | 10.88 | 65.5 | 12.27 | 67.4 | 12.63 | 70.1 | 12.91 | 72.1 | 12.99 |
| | 35 | 100.4 | 49.7 | 9.76 | 53.8 | 11.31 | 58.7 | 13.18 | 63.7 | 14.85 | 65.6 | 15.19 | 68.1 | 15.56 | 70.1 | 15.86 |
| | | 125.5 | 49.7 | 9.56 | 53.8 | 11.13 | 58.7 | 12.97 | 63.7 | 14.61 | 65.6 | 14.95 | 68.1 | 15.31 | 70.1 | 15.61 |
| | | 251.0 | 49.7 | 8.80 | 53.8 | 10.43 | 58.7 | 12.14 | 63.7 | 13.67 | 65.6 | 13.97 | 68.1 | 14.35 | 70.1 | 14.61 |
| | | 313.8 | 49.7 | 8.53 | 53.8 | 10.20 | 58.7 | 11.87 | 63.7 | 13.40 | 65.6 | 13.75 | 68.1 | 14.08 | 70.1 | 14.21 |
| | | 376.5 | 49.7 | 8.39 | 53.8 | 10.08 | 58.7 | 11.73 | 63.7 | 13.27 | 65.6 | 13.62 | 68.1 | 13.94 | 70.1 | 14.01 |
| | 40 | 100.4 | 48.3 | 11.18 | 52.3 | 13.02 | 56.9 | 15.15 | 61.9 | 17.06 | 63.7 | 17.47 | 66.3 | 17.91 | 68.1 | 18.21 |
| | | 125.5 | 48.3 | 10.97 | 52.3 | 12.80 | 56.9 | 14.91 | 61.9 | 16.78 | 63.7 | 17.18 | 66.3 | 17.61 | 68.1 | 17.92 |
| | | 251.0 | 48.3 | 10.09 | 52.3 | 11.97 | 56.9 | 13.94 | 61.9 | 15.67 | 63.7 | 16.08 | 66.3 | 16.48 | 68.1 | 16.78 |
| | | 313.8 | 48.3 | 9.79 | 52.3 | 11.70 | 56.9 | 13.64 | 61.9 | 15.37 | 63.7 | 15.78 | 66.3 | 16.18 | 68.1 | 16.35 |
| | | 376.5 | 48.3 | 9.65 | 52.3 | 11.57 | 56.9 | 13.49 | 61.9 | 15.23 | 63.7 | 15.63 | 66.3 | 16.03 | 68.1 | 16.13 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 100.4 | 46.8 | 12.61 | 50.7 | 14.72 | 55.2 | 17.12 | 60.1 | 19.28 | 61.8 | 19.74 | 64.3 | 20.26 | 66.0 | 20.54 |
| | | 125.5 | 46.8 | 12.37 | 50.7 | 14.47 | 55.2 | 16.85 | 60.1 | 18.95 | 61.8 | 19.42 | 64.3 | 19.93 | 66.0 | 20.23 |
| | | 251.0 | 46.8 | 11.40 | 50.7 | 13.51 | 55.2 | 15.75 | 60.1 | 17.69 | 61.8 | 18.19 | 64.3 | 18.62 | 66.0 | 18.95 |
| | | 313.8 | 46.8 | 11.07 | 50.7 | 13.21 | 55.2 | 15.42 | 60.1 | 17.36 | 61.8 | 17.82 | 64.3 | 18.29 | 66.0 | 18.49 |
| | | 376.5 | 46.8 | 10.90 | 50.7 | 13.06 | 55.2 | 15.25 | 60.1 | 17.19 | 61.8 | 17.64 | 64.3 | 18.12 | 66.0 | 18.26 |
| 80 | 10 | 100.4 | 45.4 | 3.03 | 49.2 | 3.49 | 53.6 | 4.10 | 58.2 | 4.65 | 60.0 | 4.70 | 62.3 | 4.89 | 64.1 | 4.90 |
| | | 125.5 | 45.4 | 2.96 | 49.2 | 3.44 | 53.6 | 4.02 | 58.2 | 4.57 | 60.0 | 4.63 | 62.3 | 4.79 | 64.1 | 4.82 |
| | | 251.0 | 45.4 | 2.70 | 49.2 | 3.25 | 53.6 | 3.72 | 58.2 | 4.24 | 60.0 | 4.34 | 62.3 | 4.43 | 64.1 | 4.50 |
| | | 313.8 | 45.4 | 2.63 | 49.2 | 3.15 | 53.6 | 3.66 | 58.2 | 4.11 | 60.0 | 4.21 | 62.3 | 4.38 | 64.1 | 4.44 |
| | | 376.5 | 45.4 | 2.60 | 49.2 | 3.10 | 53.6 | 3.63 | 58.2 | 4.05 | 60.0 | 4.14 | 62.3 | 4.35 | 64.1 | 4.41 |
| | 15 | 100.4 | 45.4 | 4.10 | 49.2 | 4.76 | 53.6 | 5.55 | 58.2 | 6.26 | 60.0 | 6.39 | 62.3 | 6.56 | 64.1 | 6.67 |
| | | 125.5 | 45.4 | 4.01 | 49.2 | 4.68 | 53.6 | 5.45 | 58.2 | 6.15 | 60.0 | 6.29 | 62.3 | 6.45 | 64.1 | 6.56 |
| | | 251.0 | 45.4 | 3.68 | 49.2 | 4.38 | 53.6 | 5.08 | 58.2 | 5.75 | 60.0 | 5.88 | 62.3 | 6.02 | 64.1 | 6.12 |
| | | 313.8 | 45.4 | 3.58 | 49.2 | 4.28 | 53.6 | 4.98 | 58.2 | 5.61 | 60.0 | 5.75 | 62.3 | 5.91 | 64.1 | 5.99 |
| | | 376.5 | 45.4 | 3.53 | 49.2 | 4.23 | 53.6 | 4.93 | 58.2 | 5.55 | 60.0 | 5.68 | 62.3 | 5.87 | 64.1 | 5.91 |
| | 20 | 100.4 | 45.4 | 5.05 | 49.2 | 5.88 | 53.6 | 6.83 | 58.2 | 7.68 | 60.0 | 7.88 | 62.3 | 8.05 | 64.1 | 8.23 |
| | | 125.5 | 45.4 | 4.95 | 49.2 | 5.79 | 53.6 | 6.72 | 58.2 | 7.55 | 60.0 | 7.76 | 62.3 | 7.93 | 64.1 | 8.09 |
| | | 251.0 | 45.4 | 4.54 | 49.2 | 5.38 | 53.6 | 6.29 | 58.2 | 7.09 | 60.0 | 7.25 | 62.3 | 7.42 | 64.1 | 7.55 |
| | | 313.8 | 45.4 | 4.41 | 49.2 | 5.28 | 53.6 | 6.15 | 58.2 | 6.95 | 60.0 | 7.12 | 62.3 | 7.29 | 64.1 | 7.36 |
| | | 376.5 | 45.4 | 4.35 | 49.2 | 5.23 | 53.6 | 6.09 | 58.2 | 6.89 | 60.0 | 7.05 | 62.3 | 7.22 | 64.1 | 7.25 |
| | 25 | 100.4 | 45.4 | 6.13 | 49.2 | 7.13 | 53.6 | 8.33 | 58.2 | 9.38 | 60.0 | 9.62 | 62.3 | 9.85 | 64.1 | 10.03 |
| | | 125.5 | 45.4 | 6.02 | 49.2 | 7.02 | 53.6 | 8.20 | 58.2 | 9.22 | 60.0 | 9.46 | 62.3 | 9.70 | 64.1 | 9.87 |
| | | 251.0 | 45.4 | 5.55 | 49.2 | 6.59 | 53.6 | 7.66 | 58.2 | 8.62 | 60.0 | 8.83 | 62.3 | 9.06 | 64.1 | 9.22 |
| | | 313.8 | 45.4 | 5.38 | 49.2 | 6.45 | 53.6 | 7.52 | 58.2 | 8.45 | 60.0 | 8.66 | 62.3 | 8.89 | 64.1 | 8.99 |
| | | 376.5 | 45.4 | 5.30 | 49.2 | 6.39 | 53.6 | 7.46 | 58.2 | 8.37 | 60.0 | 8.58 | 62.3 | 8.81 | 64.1 | 8.88 |
| | 30 | 100.4 | 45.4 | 7.57 | 49.2 | 8.80 | 53.6 | 10.26 | 58.2 | 11.56 | 60.0 | 11.83 | 62.3 | 12.09 | 64.1 | 12.34 |
| | | 125.5 | 45.4 | 7.42 | 49.2 | 8.66 | 53.6 | 10.09 | 58.2 | 11.37 | 60.0 | 11.64 | 62.3 | 11.90 | 64.1 | 12.14 |
| | | 251.0 | 45.4 | 6.82 | 49.2 | 8.09 | 53.6 | 9.43 | 58.2 | 10.60 | 60.0 | 10.86 | 62.3 | 11.13 | 64.1 | 11.34 |
| | | 313.8 | 45.4 | 6.62 | 49.2 | 7.93 | 53.6 | 9.22 | 58.2 | 10.39 | 60.0 | 10.66 | 62.3 | 10.93 | 64.1 | 11.04 |
| | | 376.5 | 45.4 | 6.52 | 49.2 | 7.84 | 53.6 | 9.13 | 58.2 | 10.30 | 60.0 | 10.56 | 62.3 | 10.83 | 64.1 | 10.88 |
| | 35 | 100.4 | 45.4 | 8.42 | 49.2 | 9.79 | 53.6 | 11.38 | 58.2 | 12.80 | 60.0 | 13.12 | 62.3 | 13.46 | 64.1 | 13.69 |
| | | 125.5 | 45.4 | 8.26 | 49.2 | 9.63 | 53.6 | 11.20 | 58.2 | 12.60 | 60.0 | 12.90 | 62.3 | 13.24 | 64.1 | 13.48 |
| | | 251.0 | 45.4 | 7.59 | 49.2 | 8.99 | 53.6 | 10.47 | 58.2 | 11.81 | 60.0 | 12.06 | 62.3 | 12.37 | 64.1 | 12.60 |
| | | 313.8 | 45.4 | 7.39 | 49.2 | 8.80 | 53.6 | 10.26 | 58.2 | 11.57 | 60.0 | 11.84 | 62.3 | 12.17 | 64.1 | 12.27 |
| | | 376.5 | 45.4 | 7.29 | 49.2 | 8.69 | 53.6 | 10.17 | 58.2 | 11.45 | 60.0 | 11.72 | 62.3 | 12.07 | 64.1 | 12.11 |
| | 40 | 100.4 | 45.4 | 9.95 | 49.2 | 11.59 | 53.6 | 13.49 | 58.2 | 15.19 | 60.0 | 15.53 | 62.3 | 15.94 | 64.1 | 16.21 |
| | | 125.5 | 45.4 | 9.76 | 49.2 | 11.40 | 53.6 | 13.27 | 58.2 | 14.95 | 60.0 | 15.28 | 62.3 | 15.67 | 64.1 | 15.94 |
| | | 251.0 | 45.4 | 8.99 | 49.2 | 10.63 | 53.6 | 12.41 | 58.2 | 13.97 | 60.0 | 14.31 | 62.3 | 14.68 | 64.1 | 14.95 |
| | | 313.8 | 45.4 | 8.72 | 49.2 | 10.43 | 53.6 | 12.14 | 58.2 | 13.70 | 60.0 | 14.05 | 62.3 | 14.38 | 64.1 | 14.54 |
| | | 376.5 | 45.4 | 8.59 | 49.2 | 10.33 | 53.6 | 12.00 | 58.2 | 13.57 | 60.0 | 13.91 | 62.3 | 14.22 | 64.1 | 14.35 |
| | 45 | 100.4 | 45.4 | 11.49 | 49.2 | 13.40 | 53.6 | 15.59 | 58.2 | 17.57 | 60.0 | 17.93 | 62.3 | 18.40 | 64.1 | 18.71 |
| | | 125.5 | 45.4 | 11.27 | 49.2 | 13.17 | 53.6 | 15.34 | 58.2 | 17.28 | 60.0 | 17.66 | 62.3 | 18.12 | 64.1 | 18.42 |
| | | 251.0 | 45.4 | 10.39 | 49.2 | 12.27 | 53.6 | 14.35 | 58.2 | 16.15 | 60.0 | 16.55 | 62.3 | 16.98 | 64.1 | 17.28 |
| | | 313.8 | 45.4 | 10.06 | 49.2 | 12.06 | 53.6 | 14.00 | 58.2 | 15.85 | 60.0 | 16.25 | 62.3 | 16.58 | 64.1 | 16.82 |
| | | 376.5 | 45.4 | 9.90 | 49.2 | 11.97 | 53.6 | 13.84 | 58.2 | 15.70 | 60.0 | 16.10 | 62.3 | 16.38 | 64.1 | 16.59 |
| 70 | 10 | 100.4 | 39.8 | 2.52 | 43.1 | 2.90 | 46.9 | 3.44 | 51.0 | 3.86 | 52.5 | 3.88 | 54.5 | 4.02 | 56.0 | 4.08 |
| | | 125.5 | 39.8 | 2.48 | 43.1 | 2.87 | 46.9 | 3.38 | 51.0 | 3.80 | 52.5 | 3.83 | 54.5 | 3.96 | 56.0 | 4.02 |
| | | 251.0 | 39.8 | 2.29 | 43.1 | 2.70 | 46.9 | 3.15 | 51.0 | 3.54 | 52.5 | 3.60 | 54.5 | 3.70 | 56.0 | 3.80 |
| | | 313.8 | 39.8 | 2.19 | 43.1 | 2.60 | 46.9 | 3.06 | 51.0 | 3.44 | 52.5 | 3.50 | 54.5 | 3.64 | 56.0 | 3.70 |
| | | 376.5 | 39.8 | 2.13 | 43.1 | 2.55 | 46.9 | 3.01 | 51.0 | 3.39 | 52.5 | 3.45 | 54.5 | 3.61 | 56.0 | 3.66 |
| | 15 | 100.4 | 39.8 | 3.41 | 43.1 | 3.94 | 46.9 | 4.62 | 51.0 | 5.20 | 52.5 | 5.30 | 54.5 | 5.44 | 56.0 | 5.53 |
| | | 125.5 | 39.8 | 3.34 | 43.1 | 3.88 | 46.9 | 4.54 | 51.0 | 5.11 | 52.5 | 5.22 | 54.5 | 5.35 | 56.0 | 5.45 |
| | | 251.0 | 39.8 | 3.07 | 43.1 | 3.64 | 46.9 | 4.24 | 51.0 | 4.78 | 52.5 | 4.89 | 54.5 | 5.01 | 56.0 | 5.11 |
| | | 313.8 | 39.8 | 2.98 | 43.1 | 3.55 | 46.9 | 4.15 | 51.0 | 4.68 | 52.5 | 4.78 | 54.5 | 4.92 | 56.0 | 4.98 |
| | | 376.5 | 39.8 | 2.93 | 43.1 | 3.50 | 46.9 | 4.10 | 51.0 | 4.63 | 52.5 | 4.73 | 54.5 | 4.87 | 56.0 | 4.92 |
| | 20 | 100.4 | 39.8 | 4.19 | 43.1 | 4.86 | 46.9 | 5.68 | 51.0 | 6.39 | 52.5 | 6.56 | 54.5 | 6.69 | 56.0 | 6.83 |
| | | 125.5 | 39.8 | 4.11 | 43.1 | 4.78 | 46.9 | 5.58 | 51.0 | 6.29 | 52.5 | 6.45 | 54.5 | 6.59 | 56.0 | 6.72 |
| | | 251.0 | 39.8 | 3.78 | 43.1 | 4.48 | 46.9 | 5.22 | 51.0 | 5.88 | 52.5 | 6.02 | 54.5 | 6.18 | 56.0 | 6.29 |
| | | 313.8 | 39.8 | 3.68 | 43.1 | 4.38 | 46.9 | 5.11 | 51.0 | 5.79 | 52.5 | 5.91 | 54.5 | 6.05 | 56.0 | 6.12 |
| | | 376.5 | 39.8 | 3.63 | 43.1 | 4.33 | 46.9 | 5.06 | 51.0 | 5.74 | 52.5 | 5.87 | 54.5 | 5.99 | 56.0 | 6.04 |
| | 25 | 100.4 | 39.8 | 5.11 | 43.1 | 5.94 | 46.9 | 6.93 | 51.0 | 7.82 | 52.5 | 7.98 | 54.5 | 8.20 | 56.0 | 8.33 |
| | | 125.5 | 39.8 | 5.01 | 43.1 | 5.85 | 46.9 | 6.82 | 51.0 | 7.69 | 52.5 | 7.85 | 54.5 | 8.06 | 56.0 | 8.20 |
| | | 251.0 | 39.8 | 4.62 | 43.1 | 5.49 | 46.9 | 6.39 | 51.0 | 7.19 | 52.5 | 7.36 | 54.5 | 7.52 | 56.0 | 7.66 |
| | | 313.8 | 39.8 | 4.48 | 43.1 | 5.35 | 46.9 | 6.26 | 51.0 | 7.02 | 52.5 | 7.22 | 54.5 | 7.39 | 56.0 | 7.46 |
| | | 376.5 | 39.8 | 4.41 | 43.1 | 5.28 | 46.9 | 6.18 | 51.0 | 6.94 | 52.5 | 7.16 | 54.5 | 7.32 | 56.0 | 7.36 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 100.4 | 39.8 | 6.31 | 43.1 | 7.30 | 46.9 | 8.53 | 51.0 | 9.58 | 52.5 | 9.82 | 54.5 | 10.06 | 56.0 | 10.22 |
| | | 125.5 | 39.8 | 6.18 | 43.1 | 7.19 | 46.9 | 8.39 | 51.0 | 9.43 | 52.5 | 9.66 | 54.5 | 9.90 | 56.0 | 10.06 |
| | | 251.0 | 39.8 | 5.68 | 43.1 | 6.72 | 46.9 | 7.82 | 51.0 | 8.83 | 52.5 | 9.03 | 54.5 | 9.26 | 56.0 | 9.43 |
| | | 313.8 | 39.8 | 5.52 | 43.1 | 6.59 | 46.9 | 7.69 | 51.0 | 8.66 | 52.5 | 8.86 | 54.5 | 9.10 | 56.0 | 9.19 |
| | | 376.5 | 39.8 | 5.44 | 43.1 | 6.52 | 46.9 | 7.62 | 51.0 | 8.58 | 52.5 | 8.78 | 54.5 | 9.01 | 56.0 | 9.08 |
| | 35 | 100.4 | 39.8 | 6.99 | 43.1 | 8.12 | 46.9 | 9.49 | 51.0 | 10.67 | 52.5 | 10.91 | 54.5 | 11.18 | 56.0 | 11.38 |
| | | 125.5 | 39.8 | 6.86 | 43.1 | 7.99 | 46.9 | 9.33 | 51.0 | 10.50 | 52.5 | 10.73 | 54.5 | 11.00 | 56.0 | 11.20 |
| | | 251.0 | 39.8 | 6.32 | 43.1 | 7.49 | 46.9 | 8.69 | 51.0 | 9.79 | 52.5 | 10.03 | 54.5 | 10.30 | 56.0 | 10.50 |
| | | 313.8 | 39.8 | 6.12 | 43.1 | 7.32 | 46.9 | 8.53 | 51.0 | 9.63 | 52.5 | 9.87 | 54.5 | 10.09 | 56.0 | 10.20 |
| | | 376.5 | 39.8 | 6.02 | 43.1 | 7.24 | 46.9 | 8.44 | 51.0 | 9.54 | 52.5 | 9.78 | 54.5 | 10.00 | 56.0 | 10.04 |
| | 40 | 100.4 | 39.8 | 8.29 | 43.1 | 9.62 | 46.9 | 11.22 | 51.0 | 12.61 | 52.5 | 12.91 | 54.5 | 13.25 | 56.0 | 13.49 |
| | | 125.5 | 39.8 | 8.12 | 43.1 | 9.46 | 46.9 | 11.04 | 51.0 | 12.41 | 52.5 | 12.71 | 54.5 | 13.04 | 56.0 | 13.27 |
| | | 251.0 | 39.8 | 7.46 | 43.1 | 8.86 | 46.9 | 10.30 | 51.0 | 11.60 | 52.5 | 11.90 | 54.5 | 12.20 | 56.0 | 12.41 |
| | | 313.8 | 39.8 | 7.25 | 43.1 | 8.66 | 46.9 | 10.09 | 51.0 | 11.40 | 52.5 | 11.67 | 54.5 | 11.97 | 56.0 | 12.11 |
| | | 376.5 | 39.8 | 7.16 | 43.1 | 8.56 | 46.9 | 10.00 | 51.0 | 11.30 | 52.5 | 11.55 | 54.5 | 11.85 | 56.0 | 11.95 |
| | 45 | 100.4 | 39.8 | 9.60 | 43.1 | 11.11 | 46.9 | 12.95 | 51.0 | 14.54 | 52.5 | 14.90 | 54.5 | 15.32 | 56.0 | 15.61 |
| | | 125.5 | 39.8 | 9.40 | 43.1 | 10.93 | 46.9 | 12.74 | 51.0 | 14.31 | 52.5 | 14.68 | 54.5 | 15.07 | 56.0 | 15.34 |
| | | 251.0 | 39.8 | 8.59 | 43.1 | 10.23 | 46.9 | 11.90 | 51.0 | 13.40 | 52.5 | 13.78 | 54.5 | 14.11 | 56.0 | 14.31 |
| | | 313.8 | 39.8 | 8.39 | 43.1 | 10.00 | 46.9 | 11.67 | 51.0 | 13.17 | 52.5 | 13.48 | 54.5 | 13.84 | 56.0 | 14.00 |
| | | 376.5 | 39.8 | 8.29 | 43.1 | 9.88 | 46.9 | 11.55 | 51.0 | 13.05 | 52.5 | 13.32 | 54.5 | 13.70 | 56.0 | 13.86 |
| 60 | 10 | 100.4 | 34.1 | 2.05 | 36.9 | 2.36 | 40.1 | 2.72 | 43.7 | 3.07 | 45.0 | 3.15 | 46.7 | 3.25 | 48.1 | 3.26 |
| | | 125.5 | 34.1 | 2.00 | 36.9 | 2.32 | 40.1 | 2.67 | 43.7 | 3.03 | 45.0 | 3.09 | 46.7 | 3.19 | 48.1 | 3.22 |
| | | 251.0 | 34.1 | 1.80 | 36.9 | 2.16 | 40.1 | 2.47 | 43.7 | 2.84 | 45.0 | 2.82 | 46.7 | 2.93 | 48.1 | 3.03 |
| | | 313.8 | 34.1 | 1.73 | 36.9 | 2.09 | 40.1 | 2.44 | 43.7 | 2.76 | 45.0 | 2.79 | 46.7 | 2.86 | 48.1 | 2.89 |
| | | 376.5 | 34.1 | 1.70 | 36.9 | 2.05 | 40.1 | 2.43 | 43.7 | 2.73 | 45.0 | 2.78 | 46.7 | 2.82 | 48.1 | 2.82 |
| | 15 | 100.4 | 34.1 | 2.73 | 36.9 | 3.16 | 40.1 | 3.67 | 43.7 | 4.15 | 45.0 | 4.26 | 46.7 | 4.35 | 48.1 | 4.41 |
| | | 125.5 | 34.1 | 2.68 | 36.9 | 3.11 | 40.1 | 3.61 | 43.7 | 4.08 | 45.0 | 4.18 | 46.7 | 4.28 | 48.1 | 4.35 |
| | | 251.0 | 34.1 | 2.44 | 36.9 | 2.90 | 40.1 | 3.37 | 43.7 | 3.81 | 45.0 | 3.88 | 46.7 | 3.98 | 48.1 | 4.08 |
| | | 313.8 | 34.1 | 2.38 | 36.9 | 2.84 | 40.1 | 3.31 | 43.7 | 3.74 | 45.0 | 3.81 | 46.7 | 3.91 | 48.1 | 3.94 |
| | | 376.5 | 34.1 | 2.34 | 36.9 | 2.81 | 40.1 | 3.28 | 43.7 | 3.71 | 45.0 | 3.78 | 46.7 | 3.88 | 48.1 | 3.88 |
| | 20 | 100.4 | 34.1 | 3.34 | 36.9 | 3.87 | 40.1 | 4.51 | 43.7 | 5.09 | 45.0 | 5.23 | 46.7 | 5.33 | 48.1 | 5.44 |
| | | 125.5 | 34.1 | 3.28 | 36.9 | 3.81 | 40.1 | 4.45 | 43.7 | 5.01 | 45.0 | 5.15 | 46.7 | 5.25 | 48.1 | 5.35 |
| | | 251.0 | 34.1 | 3.01 | 36.9 | 3.58 | 40.1 | 4.18 | 43.7 | 4.68 | 45.0 | 4.81 | 46.7 | 4.92 | 48.1 | 5.01 |
| | | 313.8 | 34.1 | 2.95 | 36.9 | 3.51 | 40.1 | 4.08 | 43.7 | 4.62 | 45.0 | 4.71 | 46.7 | 4.84 | 48.1 | 4.89 |
| | | 376.5 | 34.1 | 2.90 | 36.9 | 3.48 | 40.1 | 4.03 | 43.7 | 4.59 | 45.0 | 4.67 | 46.7 | 4.81 | 48.1 | 4.81 |
| | 25 | 100.4 | 34.1 | 4.10 | 36.9 | 4.73 | 40.1 | 5.50 | 43.7 | 6.21 | 45.0 | 6.35 | 46.7 | 6.52 | 48.1 | 6.62 |
| | | 125.5 | 34.1 | 4.01 | 36.9 | 4.65 | 40.1 | 5.42 | 43.7 | 6.12 | 45.0 | 6.26 | 46.7 | 6.42 | 48.1 | 6.51 |
| | | 251.0 | 34.1 | 3.68 | 36.9 | 4.35 | 40.1 | 5.08 | 43.7 | 5.72 | 45.0 | 5.85 | 46.7 | 6.02 | 48.1 | 6.12 |
| | | 313.8 | 34.1 | 3.58 | 36.9 | 4.28 | 40.1 | 4.98 | 43.7 | 5.61 | 45.0 | 5.75 | 46.7 | 5.88 | 48.1 | 5.95 |
| | | 376.5 | 34.1 | 3.53 | 36.9 | 4.24 | 40.1 | 4.93 | 43.7 | 5.57 | 45.0 | 5.70 | 46.7 | 5.82 | 48.1 | 5.87 |
| | 30 | 100.4 | 34.1 | 5.01 | 36.9 | 5.85 | 40.1 | 6.80 | 43.7 | 7.65 | 45.0 | 7.82 | 46.7 | 8.01 | 48.1 | 8.15 |
| | | 125.5 | 34.1 | 4.92 | 36.9 | 5.75 | 40.1 | 6.69 | 43.7 | 7.52 | 45.0 | 7.69 | 46.7 | 7.89 | 48.1 | 8.02 |
| | | 251.0 | 34.1 | 4.51 | 36.9 | 5.35 | 40.1 | 6.26 | 43.7 | 7.02 | 45.0 | 7.19 | 46.7 | 7.39 | 48.1 | 7.52 |
| | | 313.8 | 34.1 | 4.41 | 36.9 | 5.25 | 40.1 | 6.12 | 43.7 | 6.89 | 45.0 | 7.05 | 46.7 | 7.25 | 48.1 | 7.32 |
| | | 376.5 | 34.1 | 4.37 | 36.9 | 5.20 | 40.1 | 6.05 | 43.7 | 6.82 | 45.0 | 6.99 | 46.7 | 7.19 | 48.1 | 7.22 |
| | 35 | 100.4 | 34.1 | 5.56 | 36.9 | 6.50 | 40.1 | 7.54 | 43.7 | 8.50 | 45.0 | 8.70 | 46.7 | 8.89 | 48.1 | 9.07 |
| | | 125.5 | 34.1 | 5.45 | 36.9 | 6.39 | 40.1 | 7.42 | 43.7 | 8.36 | 45.0 | 8.56 | 46.7 | 8.76 | 48.1 | 8.92 |
| | | 251.0 | 34.1 | 5.01 | 36.9 | 5.95 | 40.1 | 6.95 | 43.7 | 7.82 | 45.0 | 7.99 | 46.7 | 8.23 | 48.1 | 8.36 |
| | | 313.8 | 34.1 | 4.89 | 36.9 | 5.82 | 40.1 | 6.78 | 43.7 | 7.66 | 45.0 | 7.85 | 46.7 | 8.06 | 48.1 | 8.12 |
| | | 376.5 | 34.1 | 4.81 | 36.9 | 5.75 | 40.1 | 6.70 | 43.7 | 7.57 | 45.0 | 7.79 | 46.7 | 7.98 | 48.1 | 8.01 |
| | 40 | 100.4 | 34.1 | 6.62 | 36.9 | 7.68 | 40.1 | 8.94 | 43.7 | 10.06 | 45.0 | 10.30 | 46.7 | 10.56 | 48.1 | 10.74 |
| | | 125.5 | 34.1 | 6.48 | 36.9 | 7.55 | 40.1 | 8.80 | 43.7 | 9.90 | 45.0 | 10.12 | 46.7 | 10.39 | 48.1 | 10.56 |
| | | 251.0 | 34.1 | 5.95 | 36.9 | 7.05 | 40.1 | 8.23 | 43.7 | 9.26 | 45.0 | 9.46 | 46.7 | 9.73 | 48.1 | 9.90 |
| | | 313.8 | 34.1 | 5.79 | 36.9 | 6.92 | 40.1 | 8.06 | 43.7 | 9.06 | 45.0 | 9.29 | 46.7 | 9.52 | 48.1 | 9.63 |
| | | 376.5 | 34.1 | 5.70 | 36.9 | 6.86 | 40.1 | 7.98 | 43.7 | 8.96 | 45.0 | 9.21 | 46.7 | 9.43 | 48.1 | 9.49 |
| | 45 | 100.4 | 34.1 | 7.68 | 36.9 | 8.87 | 40.1 | 10.33 | 43.7 | 11.62 | 45.0 | 11.89 | 46.7 | 12.24 | 48.1 | 12.39 |
| | | 125.5 | 34.1 | 7.52 | 36.9 | 8.72 | 40.1 | 10.17 | 43.7 | 11.43 | 45.0 | 11.70 | 46.7 | 12.03 | 48.1 | 12.20 |
| | | 251.0 | 34.1 | 6.89 | 36.9 | 8.15 | 40.1 | 9.49 | 43.7 | 10.70 | 45.0 | 10.93 | 46.7 | 11.23 | 48.1 | 11.43 |
| | | 313.8 | 34.1 | 6.69 | 36.9 | 8.02 | 40.1 | 9.33 | 43.7 | 10.47 | 45.0 | 10.73 | 46.7 | 11.00 | 48.1 | 11.13 |
| | | 376.5 | 34.1 | 6.59 | 36.9 | 7.96 | 40.1 | 9.24 | 43.7 | 10.34 | 45.0 | 10.63 | 46.7 | 10.88 | 48.1 | 10.99 |
| 50 | 10 | 100.4 | 28.4 | 1.46 | 30.7 | 1.73 | 33.5 | 2.08 | 36.4 | 2.29 | 37.5 | 2.32 | 39.0 | 2.39 | 40.0 | 2.46 |
| | | 125.5 | 28.4 | 1.45 | 30.7 | 1.70 | 33.5 | 2.03 | 36.4 | 2.25 | 37.5 | 2.28 | 39.0 | 2.35 | 40.0 | 2.41 |
| | | 251.0 | 28.4 | 1.39 | 30.7 | 1.61 | 33.5 | 1.83 | 36.4 | 2.09 | 37.5 | 2.16 | 39.0 | 2.19 | 40.0 | 2.25 |
| | | 313.8 | 28.4 | 1.32 | 30.7 | 1.54 | 33.5 | 1.83 | 36.4 | 2.02 | 37.5 | 2.09 | 39.0 | 2.11 | 40.0 | 2.16 |
| | | 376.5 | 28.4 | 1.29 | 30.7 | 1.51 | 33.5 | 1.83 | 36.4 | 1.99 | 37.5 | 2.05 | 39.0 | 2.08 | 40.0 | 2.10 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Cooling Capacity(26HP)

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 100.4 | 28.4 | 2.00 | 30.7 | 2.34 | 33.5 | 2.76 | 36.4 | 3.09 | 37.5 | 3.16 | 39.0 | 3.23 | 40.0 | 3.29 |
| | | 125.5 | 28.4 | 1.97 | 30.7 | 2.30 | 33.5 | 2.71 | 36.4 | 3.04 | 37.5 | 3.11 | 39.0 | 3.17 | 40.0 | 3.25 |
| | | 251.0 | 28.4 | 1.84 | 30.7 | 2.17 | 33.5 | 2.51 | 36.4 | 2.84 | 37.5 | 2.90 | 39.0 | 2.98 | 40.0 | 3.04 |
| | | 313.8 | 28.4 | 1.77 | 30.7 | 2.11 | 33.5 | 2.47 | 36.4 | 2.77 | 37.5 | 2.84 | 39.0 | 2.90 | 40.0 | 2.95 |
| | | 376.5 | 28.4 | 1.74 | 30.7 | 2.07 | 33.5 | 2.46 | 36.4 | 2.74 | 37.5 | 2.81 | 39.0 | 2.87 | 40.0 | 2.89 |
| | 20 | 100.4 | 28.4 | 2.49 | 30.7 | 2.88 | 33.5 | 3.36 | 36.4 | 3.80 | 37.5 | 3.91 | 39.0 | 3.97 | 40.0 | 4.04 |
| | | 125.5 | 28.4 | 2.44 | 30.7 | 2.84 | 33.5 | 3.31 | 36.4 | 3.74 | 37.5 | 3.85 | 39.0 | 3.91 | 40.0 | 3.98 |
| | | 251.0 | 28.4 | 2.24 | 30.7 | 2.68 | 33.5 | 3.11 | 36.4 | 3.51 | 37.5 | 3.58 | 39.0 | 3.68 | 40.0 | 3.74 |
| | | 313.8 | 28.4 | 2.17 | 30.7 | 2.60 | 33.5 | 3.04 | 36.4 | 3.44 | 37.5 | 3.51 | 39.0 | 3.61 | 40.0 | 3.64 |
| | | 376.5 | 28.4 | 2.14 | 30.7 | 2.57 | 33.5 | 3.01 | 36.4 | 3.41 | 37.5 | 3.48 | 39.0 | 3.58 | 40.0 | 3.59 |
| | 25 | 100.4 | 28.4 | 3.03 | 30.7 | 3.53 | 33.5 | 4.11 | 36.4 | 4.62 | 37.5 | 4.76 | 39.0 | 4.86 | 40.0 | 4.97 |
| | | 125.5 | 28.4 | 2.98 | 30.7 | 3.48 | 33.5 | 4.05 | 36.4 | 4.54 | 37.5 | 4.68 | 39.0 | 4.78 | 40.0 | 4.89 |
| | | 251.0 | 28.4 | 2.74 | 30.7 | 3.25 | 33.5 | 3.78 | 36.4 | 4.28 | 37.5 | 4.38 | 39.0 | 4.48 | 40.0 | 4.54 |
| | | 313.8 | 28.4 | 2.68 | 30.7 | 3.17 | 33.5 | 3.71 | 36.4 | 4.18 | 37.5 | 4.28 | 39.0 | 4.38 | 40.0 | 4.45 |
| | | 376.5 | 28.4 | 2.65 | 30.7 | 3.14 | 33.5 | 3.68 | 36.4 | 4.13 | 37.5 | 4.23 | 39.0 | 4.33 | 40.0 | 4.40 |
| | 30 | 100.4 | 28.4 | 3.75 | 30.7 | 4.35 | 33.5 | 5.06 | 36.4 | 5.71 | 37.5 | 5.85 | 39.0 | 5.98 | 40.0 | 6.07 |
| | | 125.5 | 28.4 | 3.68 | 30.7 | 4.28 | 33.5 | 4.98 | 36.4 | 5.61 | 37.5 | 5.75 | 39.0 | 5.88 | 40.0 | 5.99 |
| | | 251.0 | 28.4 | 3.37 | 30.7 | 4.01 | 33.5 | 4.65 | 36.4 | 5.25 | 37.5 | 5.38 | 39.0 | 5.52 | 40.0 | 5.61 |
| | | 313.8 | 28.4 | 3.28 | 30.7 | 3.91 | 33.5 | 4.54 | 36.4 | 5.15 | 37.5 | 5.28 | 39.0 | 5.42 | 40.0 | 5.45 |
| | | 376.5 | 28.4 | 3.23 | 30.7 | 3.86 | 33.5 | 4.49 | 36.4 | 5.09 | 37.5 | 5.23 | 39.0 | 5.36 | 40.0 | 5.36 |
| | 35 | 100.4 | 28.4 | 4.16 | 30.7 | 4.82 | 33.5 | 5.64 | 36.4 | 6.32 | 37.5 | 6.50 | 39.0 | 6.67 | 40.0 | 6.76 |
| | | 125.5 | 28.4 | 4.08 | 30.7 | 4.75 | 33.5 | 5.55 | 36.4 | 6.21 | 37.5 | 6.39 | 39.0 | 6.56 | 40.0 | 6.65 |
| | | 251.0 | 28.4 | 3.74 | 30.7 | 4.45 | 33.5 | 5.19 | 36.4 | 5.82 | 37.5 | 5.95 | 39.0 | 6.12 | 40.0 | 6.21 |
| | | 313.8 | 28.4 | 3.64 | 30.7 | 4.35 | 33.5 | 5.08 | 36.4 | 5.72 | 37.5 | 5.85 | 39.0 | 6.02 | 40.0 | 6.05 |
| | | 376.5 | 28.4 | 3.59 | 30.7 | 4.29 | 33.5 | 5.03 | 36.4 | 5.66 | 37.5 | 5.80 | 39.0 | 5.97 | 40.0 | 5.97 |
| | 40 | 100.4 | 28.4 | 4.90 | 30.7 | 5.71 | 33.5 | 6.67 | 36.4 | 7.52 | 37.5 | 7.68 | 39.0 | 7.88 | 40.0 | 8.01 |
| | | 125.5 | 28.4 | 4.81 | 30.7 | 5.61 | 33.5 | 6.56 | 36.4 | 7.39 | 37.5 | 7.55 | 39.0 | 7.76 | 40.0 | 7.89 |
| | | 251.0 | 28.4 | 4.45 | 30.7 | 5.25 | 33.5 | 6.12 | 36.4 | 6.89 | 37.5 | 7.05 | 39.0 | 7.25 | 40.0 | 7.39 |
| | | 313.8 | 28.4 | 4.32 | 30.7 | 5.15 | 33.5 | 6.02 | 36.4 | 6.75 | 37.5 | 6.92 | 39.0 | 7.12 | 40.0 | 7.19 |
| | | 376.5 | 28.4 | 4.24 | 30.7 | 5.09 | 33.5 | 5.97 | 36.4 | 6.69 | 37.5 | 6.86 | 39.0 | 7.05 | 40.0 | 7.09 |
| | 45 | 100.4 | 28.4 | 5.65 | 30.7 | 6.59 | 33.5 | 7.68 | 36.4 | 8.71 | 37.5 | 8.87 | 39.0 | 9.10 | 40.0 | 9.27 |
| | | 125.5 | 28.4 | 5.55 | 30.7 | 6.48 | 33.5 | 7.55 | 36.4 | 8.56 | 37.5 | 8.72 | 39.0 | 8.96 | 40.0 | 9.13 |
| | | 251.0 | 28.4 | 5.15 | 30.7 | 6.05 | 33.5 | 7.05 | 36.4 | 7.96 | 37.5 | 8.15 | 39.0 | 8.39 | 40.0 | 8.56 |
| | | 313.8 | 28.4 | 4.98 | 30.7 | 5.95 | 33.5 | 6.95 | 36.4 | 7.79 | 37.5 | 7.99 | 39.0 | 8.23 | 40.0 | 8.32 |
| | | 376.5 | 28.4 | 4.90 | 30.7 | 5.90 | 33.5 | 6.91 | 36.4 | 7.71 | 37.5 | 7.91 | 39.0 | 8.14 | 40.0 | 8.21 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

**Cooling Capacity(28HP)**

## ARWN280BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 108.0 | 72.8 | 5.48 | 78.8 | 6.42 | 86.0 | 7.48 | 93.4 | 8.42 | 96.0 | 8.66 | 100.0 | 8.82 | 102.6 | 8.90 |
| | | 135.0 | 72.8 | 5.38 | 78.8 | 6.32 | 86.0 | 7.36 | 93.4 | 8.30 | 96.0 | 8.50 | 100.0 | 8.68 | 102.6 | 8.78 |
| | | 270.0 | 72.8 | 5.00 | 78.8 | 5.92 | 86.0 | 6.90 | 93.4 | 7.76 | 96.0 | 7.90 | 100.0 | 8.14 | 102.6 | 8.32 |
| | | 337.5 | 72.8 | 4.84 | 78.8 | 5.78 | 86.0 | 6.74 | 93.4 | 7.58 | 96.0 | 7.78 | 100.0 | 7.96 | 102.6 | 8.10 |
| | | 405.0 | 72.8 | 4.78 | 78.8 | 5.70 | 86.0 | 6.68 | 93.4 | 7.48 | 96.0 | 7.74 | 100.0 | 7.88 | 102.6 | 8.00 |
| | 15 | 108.0 | 71.6 | 7.24 | 77.6 | 8.42 | 84.6 | 9.82 | 92.0 | 11.06 | 94.6 | 11.32 | 98.4 | 11.58 | 101.0 | 11.76 |
| | | 135.0 | 71.6 | 7.10 | 77.6 | 8.28 | 84.6 | 9.66 | 92.0 | 10.88 | 94.6 | 11.14 | 98.4 | 11.40 | 101.0 | 11.58 |
| | | 270.0 | 71.6 | 6.54 | 77.6 | 7.76 | 84.6 | 9.02 | 92.0 | 10.18 | 94.6 | 10.40 | 98.4 | 10.70 | 101.0 | 10.92 |
| | | 337.5 | 71.6 | 6.36 | 77.6 | 7.58 | 84.6 | 8.84 | 92.0 | 9.96 | 94.6 | 10.22 | 98.4 | 10.48 | 101.0 | 10.66 |
| | | 405.0 | 71.6 | 6.26 | 77.6 | 7.48 | 84.6 | 8.74 | 92.0 | 9.84 | 94.6 | 10.12 | 98.4 | 10.36 | 101.0 | 10.52 |
| | 20 | 108.0 | 70.6 | 8.80 | 76.6 | 10.18 | 83.4 | 11.90 | 90.6 | 13.40 | 93.4 | 13.70 | 97.0 | 14.04 | 99.6 | 14.30 |
| | | 135.0 | 70.6 | 8.62 | 76.6 | 10.02 | 83.4 | 11.70 | 90.6 | 13.18 | 93.4 | 13.48 | 97.0 | 13.82 | 99.6 | 14.08 |
| | | 270.0 | 70.6 | 7.92 | 76.6 | 9.40 | 83.4 | 10.92 | 90.6 | 12.32 | 93.4 | 12.62 | 97.0 | 12.96 | 99.6 | 13.22 |
| | | 337.5 | 70.6 | 7.68 | 76.6 | 9.18 | 83.4 | 10.70 | 90.6 | 12.06 | 93.4 | 12.36 | 97.0 | 12.70 | 99.6 | 12.92 |
| | | 405.0 | 70.6 | 7.58 | 76.6 | 9.06 | 83.4 | 10.58 | 90.6 | 11.94 | 93.4 | 12.24 | 97.0 | 12.58 | 99.6 | 12.78 |
| | 25 | 108.0 | 70.6 | 10.84 | 76.6 | 12.56 | 83.4 | 14.64 | 90.6 | 16.50 | 93.4 | 16.90 | 97.0 | 17.32 | 99.6 | 17.60 |
| | | 135.0 | 70.6 | 10.62 | 76.6 | 12.36 | 83.4 | 14.40 | 90.6 | 16.22 | 93.4 | 16.64 | 97.0 | 17.04 | 99.6 | 17.34 |
| | | 270.0 | 70.6 | 9.76 | 76.6 | 11.58 | 83.4 | 13.48 | 90.6 | 15.18 | 93.4 | 15.56 | 97.0 | 15.96 | 99.6 | 16.30 |
| | | 337.5 | 70.6 | 9.50 | 76.6 | 11.32 | 83.4 | 13.22 | 90.6 | 14.90 | 93.4 | 15.26 | 97.0 | 15.68 | 99.6 | 15.94 |
| | | 405.0 | 70.6 | 9.38 | 76.6 | 11.20 | 83.4 | 13.10 | 90.6 | 14.74 | 93.4 | 15.12 | 97.0 | 15.52 | 99.6 | 15.74 |
| | 30 | 108.0 | 70.6 | 13.00 | 76.6 | 15.10 | 83.4 | 17.58 | 90.6 | 19.82 | 93.4 | 20.26 | 97.0 | 20.80 | 99.6 | 21.10 |
| | | 135.0 | 70.6 | 12.74 | 76.6 | 14.86 | 83.4 | 17.30 | 90.6 | 19.50 | 93.4 | 19.94 | 97.0 | 20.46 | 99.6 | 20.80 |
| | | 270.0 | 70.6 | 11.70 | 76.6 | 13.88 | 83.4 | 16.20 | 90.6 | 18.24 | 93.4 | 18.68 | 97.0 | 19.16 | 99.6 | 19.58 |
| | | 337.5 | 70.6 | 11.40 | 76.6 | 13.60 | 83.4 | 15.86 | 90.6 | 17.86 | 93.4 | 18.34 | 97.0 | 18.80 | 99.6 | 19.12 |
| | | 405.0 | 70.6 | 11.26 | 76.6 | 13.44 | 83.4 | 15.70 | 90.6 | 17.68 | 93.4 | 18.18 | 97.0 | 18.60 | 99.6 | 18.90 |
| | 35 | 108.0 | 63.6 | 13.14 | 68.8 | 15.30 | 75.0 | 17.78 | 81.6 | 20.04 | 84.0 | 20.48 | 87.2 | 21.02 | 89.6 | 21.38 |
| | | 135.0 | 63.6 | 12.88 | 68.8 | 15.04 | 75.0 | 17.50 | 81.6 | 19.72 | 84.0 | 20.16 | 87.2 | 20.68 | 89.6 | 21.06 |
| | | 270.0 | 63.6 | 11.84 | 68.8 | 14.04 | 75.0 | 16.38 | 81.6 | 18.42 | 84.0 | 18.90 | 87.2 | 19.38 | 89.6 | 19.76 |
| | | 337.5 | 63.6 | 11.52 | 68.8 | 13.74 | 75.0 | 16.04 | 81.6 | 18.04 | 84.0 | 18.54 | 87.2 | 19.02 | 89.6 | 19.34 |
| | | 405.0 | 63.6 | 11.34 | 68.8 | 13.60 | 75.0 | 15.88 | 81.6 | 17.86 | 84.0 | 18.34 | 87.2 | 18.82 | 89.6 | 19.14 |
| | 40 | 108.0 | 56.6 | 13.88 | 61.2 | 16.12 | 66.6 | 18.76 | 72.4 | 21.14 | 74.6 | 21.62 | 77.6 | 22.14 | 79.8 | 22.54 |
| | | 135.0 | 56.6 | 13.60 | 61.2 | 15.86 | 66.6 | 18.46 | 72.4 | 20.80 | 74.6 | 21.28 | 77.6 | 21.80 | 79.8 | 22.20 |
| | | 270.0 | 56.6 | 12.48 | 61.2 | 14.82 | 66.6 | 17.26 | 72.4 | 19.42 | 74.6 | 19.90 | 77.6 | 20.46 | 79.8 | 20.88 |
| | | 337.5 | 56.6 | 12.14 | 61.2 | 14.48 | 66.6 | 16.90 | 72.4 | 19.06 | 74.6 | 19.54 | 77.6 | 20.06 | 79.8 | 20.38 |
| | | 405.0 | 56.6 | 11.98 | 61.2 | 14.32 | 66.6 | 16.72 | 72.4 | 18.86 | 74.6 | 19.34 | 77.6 | 19.86 | 79.8 | 20.14 |
| | 45 | 108.0 | 49.4 | 14.60 | 53.6 | 16.94 | 58.2 | 19.74 | 63.2 | 22.24 | 65.2 | 22.76 | 67.8 | 23.26 | 69.8 | 23.70 |
| | | 135.0 | 49.4 | 14.30 | 53.6 | 16.68 | 58.2 | 19.42 | 63.2 | 21.88 | 65.2 | 22.40 | 67.8 | 22.92 | 69.8 | 23.36 |
| | | 270.0 | 49.4 | 13.10 | 53.6 | 15.60 | 58.2 | 18.16 | 63.2 | 20.42 | 65.2 | 20.90 | 67.8 | 21.54 | 69.8 | 21.98 |
| | | 337.5 | 49.4 | 12.78 | 53.6 | 15.22 | 58.2 | 17.76 | 63.2 | 20.06 | 65.2 | 20.54 | 67.8 | 21.10 | 69.8 | 21.42 |
| | | 405.0 | 49.4 | 12.60 | 53.6 | 15.04 | 58.2 | 17.54 | 63.2 | 19.86 | 65.2 | 20.36 | 67.8 | 20.88 | 69.8 | 21.16 |
| 120 | 10 | 108.0 | 68.8 | 5.24 | 74.6 | 6.04 | 81.2 | 7.12 | 88.4 | 7.98 | 91.2 | 8.22 | 94.6 | 8.38 | 97.2 | 8.54 |
| | | 135.0 | 68.8 | 5.12 | 74.6 | 5.94 | 81.2 | 7.00 | 88.4 | 7.84 | 91.2 | 8.06 | 94.6 | 8.24 | 97.2 | 8.38 |
| | | 270.0 | 68.8 | 4.70 | 74.6 | 5.56 | 81.2 | 6.48 | 88.4 | 7.34 | 91.2 | 7.48 | 94.6 | 7.70 | 97.2 | 7.80 |
| | | 337.5 | 68.8 | 4.62 | 74.6 | 5.44 | 81.2 | 6.42 | 88.4 | 7.20 | 91.2 | 7.34 | 94.6 | 7.56 | 97.2 | 7.66 |
| | | 405.0 | 68.8 | 4.60 | 74.6 | 5.40 | 81.2 | 6.38 | 88.4 | 7.14 | 91.2 | 7.28 | 94.6 | 7.50 | 97.2 | 7.60 |
| | 15 | 108.0 | 68.2 | 6.94 | 73.8 | 8.04 | 80.4 | 9.40 | 87.4 | 10.56 | 90.0 | 10.84 | 93.6 | 11.10 | 96.2 | 11.28 |
| | | 135.0 | 68.2 | 6.80 | 73.8 | 7.92 | 80.4 | 9.24 | 87.4 | 10.40 | 90.0 | 10.66 | 93.6 | 10.92 | 96.2 | 11.10 |
| | | 270.0 | 68.2 | 6.24 | 73.8 | 7.40 | 80.4 | 8.62 | 87.4 | 9.72 | 90.0 | 9.96 | 93.6 | 10.22 | 96.2 | 10.40 |
| | | 337.5 | 68.2 | 6.10 | 73.8 | 7.24 | 80.4 | 8.46 | 87.4 | 9.54 | 90.0 | 9.76 | 93.6 | 10.02 | 96.2 | 10.18 |
| | | 405.0 | 68.2 | 6.02 | 73.8 | 7.16 | 80.4 | 8.40 | 87.4 | 9.46 | 90.0 | 9.68 | 93.6 | 9.94 | 96.2 | 10.06 |
| | 20 | 108.0 | 67.6 | 8.46 | 73.0 | 9.82 | 79.6 | 11.44 | 86.6 | 12.86 | 89.0 | 13.16 | 92.6 | 13.52 | 95.2 | 13.72 |
| | | 135.0 | 67.6 | 8.28 | 73.0 | 9.66 | 79.6 | 11.26 | 86.6 | 12.66 | 89.0 | 12.96 | 92.6 | 13.30 | 95.2 | 13.52 |
| | | 270.0 | 67.6 | 7.62 | 73.0 | 9.02 | 79.6 | 10.50 | 86.6 | 11.84 | 89.0 | 12.14 | 92.6 | 12.44 | 95.2 | 12.70 |
| | | 337.5 | 67.6 | 7.40 | 73.0 | 8.84 | 79.6 | 10.28 | 86.6 | 11.62 | 89.0 | 11.92 | 92.6 | 12.22 | 95.2 | 12.40 |
| | | 405.0 | 67.6 | 7.28 | 73.0 | 8.74 | 79.6 | 10.18 | 86.6 | 11.52 | 89.0 | 11.80 | 92.6 | 12.10 | 95.2 | 12.26 |
| | 25 | 108.0 | 67.6 | 10.38 | 73.0 | 12.04 | 79.6 | 14.04 | 86.6 | 15.82 | 89.0 | 16.20 | 92.6 | 16.60 | 95.2 | 16.90 |
| | | 135.0 | 67.6 | 10.18 | 73.0 | 11.84 | 79.6 | 13.82 | 86.6 | 15.56 | 89.0 | 15.94 | 92.6 | 16.34 | 95.2 | 16.64 |
| | | 270.0 | 67.6 | 9.36 | 73.0 | 11.10 | 79.6 | 12.92 | 86.6 | 14.56 | 89.0 | 14.90 | 92.6 | 15.30 | 95.2 | 15.60 |
| | | 337.5 | 67.6 | 9.10 | 73.0 | 10.84 | 79.6 | 12.66 | 86.6 | 14.26 | 89.0 | 14.64 | 92.6 | 15.00 | 95.2 | 15.22 |
| | | 405.0 | 67.6 | 8.96 | 73.0 | 10.72 | 79.6 | 12.54 | 86.6 | 14.12 | 89.0 | 14.50 | 92.6 | 14.86 | 95.2 | 15.04 |
| | 30 | 108.0 | 67.6 | 12.54 | 73.0 | 14.56 | 79.6 | 16.98 | 86.6 | 19.14 | 89.0 | 19.60 | 92.6 | 20.08 | 95.2 | 20.40 |
| | | 135.0 | 67.6 | 12.30 | 73.0 | 14.34 | 79.6 | 16.72 | 86.6 | 18.82 | 89.0 | 19.28 | 92.6 | 19.76 | 95.2 | 20.10 |
| | | 270.0 | 67.6 | 11.32 | 73.0 | 13.40 | 79.6 | 15.64 | 86.6 | 17.60 | 89.0 | 18.02 | 92.6 | 18.50 | 95.2 | 18.86 |
| | | 337.5 | 67.6 | 11.00 | 73.0 | 13.10 | 79.6 | 15.30 | 86.6 | 17.24 | 89.0 | 17.68 | 92.6 | 18.16 | 95.2 | 18.42 |
| | | 405.0 | 67.6 | 10.82 | 73.0 | 12.96 | 79.6 | 15.14 | 86.6 | 17.04 | 89.0 | 17.52 | 92.6 | 18.00 | 95.2 | 18.20 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 108.0 | 61.8 | 12.84 | 66.8 | 14.94 | 72.8 | 17.40 | 79.2 | 19.58 | 81.6 | 20.08 | 84.8 | 20.56 | 87.2 | 20.94 |
| | | 135.0 | 61.8 | 12.58 | 66.8 | 14.70 | 72.8 | 17.12 | 79.2 | 19.28 | 81.6 | 19.76 | 84.8 | 20.24 | 87.2 | 20.62 |
| | | 270.0 | 61.8 | 11.58 | 66.8 | 13.74 | 72.8 | 16.00 | 79.2 | 18.04 | 81.6 | 18.50 | 84.8 | 18.98 | 87.2 | 19.32 |
| | | 337.5 | 61.8 | 11.28 | 66.8 | 13.44 | 72.8 | 15.68 | 79.2 | 17.68 | 81.6 | 18.12 | 84.8 | 18.60 | 87.2 | 18.86 |
| | | 405.0 | 61.8 | 11.14 | 66.8 | 13.30 | 72.8 | 15.50 | 79.2 | 17.50 | 81.6 | 17.94 | 84.8 | 18.42 | 87.2 | 18.64 |
| | 40 | 108.0 | 56.0 | 13.82 | 60.6 | 16.08 | 66.0 | 18.72 | 71.8 | 21.10 | 74.0 | 21.58 | 76.8 | 22.10 | 79.0 | 22.52 |
| | | 135.0 | 56.0 | 13.56 | 60.6 | 15.82 | 66.0 | 18.42 | 71.8 | 20.76 | 74.0 | 21.24 | 76.8 | 21.76 | 79.0 | 22.18 |
| | | 270.0 | 56.0 | 12.48 | 60.6 | 14.78 | 66.0 | 17.24 | 71.8 | 19.42 | 74.0 | 19.86 | 76.8 | 20.38 | 79.0 | 20.80 |
| | | 337.5 | 56.0 | 12.14 | 60.6 | 14.48 | 66.0 | 16.90 | 71.8 | 19.02 | 74.0 | 19.50 | 76.8 | 20.02 | 79.0 | 20.32 |
| | | 405.0 | 56.0 | 11.98 | 60.6 | 14.34 | 66.0 | 16.74 | 71.8 | 18.82 | 74.0 | 19.32 | 76.8 | 19.84 | 79.0 | 20.08 |
| | 45 | 108.0 | 50.4 | 14.82 | 54.4 | 17.22 | 59.4 | 20.04 | 64.6 | 22.62 | 66.4 | 23.10 | 69.0 | 23.66 | 71.0 | 24.10 |
| | | 135.0 | 50.4 | 14.52 | 54.4 | 16.94 | 59.4 | 19.72 | 64.6 | 22.24 | 66.4 | 22.72 | 69.0 | 23.28 | 71.0 | 23.74 |
| | | 270.0 | 50.4 | 13.36 | 54.4 | 15.82 | 59.4 | 18.46 | 64.6 | 20.80 | 66.4 | 21.24 | 69.0 | 21.80 | 71.0 | 22.28 |
| | | 337.5 | 50.4 | 13.00 | 54.4 | 15.52 | 59.4 | 18.12 | 64.6 | 20.36 | 66.4 | 20.88 | 69.0 | 21.42 | 71.0 | 21.76 |
| | | 405.0 | 50.4 | 12.82 | 54.4 | 15.38 | 59.4 | 17.96 | 64.6 | 20.12 | 66.4 | 20.68 | 69.0 | 21.24 | 71.0 | 21.50 |
| 110 | 10 | 108.0 | 65.0 | 4.96 | 70.4 | 5.76 | 76.6 | 6.64 | 83.4 | 7.52 | 85.8 | 7.66 | 89.4 | 7.90 | 91.6 | 8.00 |
| | | 135.0 | 65.0 | 4.86 | 70.4 | 5.66 | 76.6 | 6.54 | 83.4 | 7.40 | 85.8 | 7.54 | 89.4 | 7.76 | 91.6 | 7.86 |
| | | 270.0 | 65.0 | 4.48 | 70.4 | 5.26 | 76.6 | 6.16 | 83.4 | 6.94 | 85.8 | 7.12 | 89.4 | 7.22 | 91.6 | 7.36 |
| | | 337.5 | 65.0 | 4.34 | 70.4 | 5.16 | 76.6 | 6.02 | 83.4 | 6.80 | 85.8 | 6.94 | 89.4 | 7.08 | 91.6 | 7.26 |
| | | 405.0 | 65.0 | 4.26 | 70.4 | 5.10 | 76.6 | 5.94 | 83.4 | 6.72 | 85.8 | 6.84 | 89.4 | 7.00 | 91.6 | 7.22 |
| | 15 | 108.0 | 64.6 | 6.64 | 70.0 | 7.70 | 76.2 | 8.94 | 82.8 | 10.08 | 85.4 | 10.30 | 88.8 | 10.56 | 91.2 | 10.76 |
| | | 135.0 | 64.6 | 6.50 | 70.0 | 7.58 | 76.2 | 8.80 | 82.8 | 9.92 | 85.4 | 10.14 | 88.8 | 10.40 | 91.2 | 10.58 |
| | | 270.0 | 64.6 | 5.98 | 70.0 | 7.06 | 76.2 | 8.24 | 82.8 | 9.28 | 85.4 | 9.50 | 88.8 | 9.72 | 91.2 | 9.92 |
| | | 337.5 | 64.6 | 5.80 | 70.0 | 6.90 | 76.2 | 8.06 | 82.8 | 9.10 | 85.4 | 9.32 | 88.8 | 9.54 | 91.2 | 9.70 |
| | | 405.0 | 64.6 | 5.70 | 70.0 | 6.84 | 76.2 | 7.96 | 82.8 | 9.00 | 85.4 | 9.22 | 88.8 | 9.46 | 91.2 | 9.58 |
| | 20 | 108.0 | 64.4 | 8.10 | 69.6 | 9.44 | 75.8 | 10.98 | 82.4 | 12.34 | 85.0 | 12.64 | 88.2 | 12.94 | 90.8 | 13.20 |
| | | 135.0 | 64.4 | 7.94 | 69.6 | 9.28 | 75.8 | 10.80 | 82.4 | 12.14 | 85.0 | 12.44 | 88.2 | 12.74 | 90.8 | 13.00 |
| | | 270.0 | 64.4 | 7.32 | 69.6 | 8.66 | 75.8 | 10.10 | 82.4 | 11.36 | 85.0 | 11.62 | 88.2 | 11.96 | 90.8 | 12.18 |
| | | 337.5 | 64.4 | 7.10 | 69.6 | 8.46 | 75.8 | 9.88 | 82.4 | 11.14 | 85.0 | 11.44 | 88.2 | 11.74 | 90.8 | 11.84 |
| | | 405.0 | 64.4 | 6.98 | 69.6 | 8.38 | 75.8 | 9.76 | 82.4 | 11.04 | 85.0 | 11.34 | 88.2 | 11.62 | 90.8 | 11.68 |
| | 25 | 108.0 | 64.4 | 9.92 | 69.6 | 11.56 | 75.8 | 13.44 | 82.4 | 15.14 | 85.0 | 15.46 | 88.2 | 15.84 | 90.8 | 16.14 |
| | | 135.0 | 64.4 | 9.72 | 69.6 | 11.36 | 75.8 | 13.22 | 82.4 | 14.90 | 85.0 | 15.22 | 88.2 | 15.60 | 90.8 | 15.90 |
| | | 270.0 | 64.4 | 8.94 | 69.6 | 10.62 | 75.8 | 12.36 | 82.4 | 13.92 | 85.0 | 14.26 | 88.2 | 14.64 | 90.8 | 14.90 |
| | | 337.5 | 64.4 | 8.68 | 69.6 | 10.40 | 75.8 | 12.10 | 82.4 | 13.62 | 85.0 | 14.00 | 88.2 | 14.34 | 90.8 | 14.52 |
| | | 405.0 | 64.4 | 8.56 | 69.6 | 10.28 | 75.8 | 11.98 | 82.4 | 13.48 | 85.0 | 13.88 | 88.2 | 14.18 | 90.8 | 14.34 |
| | 30 | 108.0 | 64.4 | 12.08 | 69.6 | 14.08 | 75.8 | 16.38 | 82.4 | 18.46 | 85.0 | 18.86 | 88.2 | 19.36 | 90.8 | 19.70 |
| | | 135.0 | 64.4 | 11.84 | 69.6 | 13.86 | 75.8 | 16.12 | 82.4 | 18.16 | 85.0 | 18.56 | 88.2 | 19.06 | 90.8 | 19.38 |
| | | 270.0 | 64.4 | 10.92 | 69.6 | 12.92 | 75.8 | 15.08 | 82.4 | 16.98 | 85.0 | 17.38 | 88.2 | 17.82 | 90.8 | 18.16 |
| | | 337.5 | 64.4 | 10.62 | 69.6 | 12.66 | 75.8 | 14.74 | 82.4 | 16.64 | 85.0 | 17.04 | 88.2 | 17.50 | 90.8 | 17.72 |
| | | 405.0 | 64.4 | 10.48 | 69.6 | 12.54 | 75.8 | 14.58 | 82.4 | 16.48 | 85.0 | 16.88 | 88.2 | 17.32 | 90.8 | 17.50 |
| | 35 | 108.0 | 59.8 | 12.58 | 64.8 | 14.60 | 70.6 | 17.02 | 76.8 | 19.18 | 79.2 | 19.62 | 82.2 | 20.12 | 84.4 | 20.50 |
| | | 135.0 | 59.8 | 12.32 | 64.8 | 14.38 | 70.6 | 16.74 | 76.8 | 18.86 | 79.2 | 19.32 | 82.2 | 19.80 | 84.4 | 20.16 |
| | | 270.0 | 59.8 | 11.32 | 64.8 | 13.44 | 70.6 | 15.68 | 76.8 | 17.64 | 79.2 | 18.08 | 82.2 | 18.54 | 84.4 | 18.86 |
| | | 337.5 | 59.8 | 11.02 | 64.8 | 13.14 | 70.6 | 15.34 | 76.8 | 17.30 | 79.2 | 17.72 | 82.2 | 18.20 | 84.4 | 18.42 |
| | | 405.0 | 59.8 | 10.88 | 64.8 | 13.00 | 70.6 | 15.18 | 76.8 | 17.14 | 79.2 | 17.52 | 82.2 | 18.04 | 84.4 | 18.20 |
| | 40 | 108.0 | 55.6 | 13.84 | 60.2 | 16.04 | 65.6 | 18.72 | 71.2 | 21.06 | 73.2 | 21.56 | 76.2 | 22.08 | 78.2 | 22.48 |
| | | 135.0 | 55.6 | 13.56 | 60.2 | 15.78 | 65.6 | 18.42 | 71.2 | 20.72 | 73.2 | 21.20 | 76.2 | 21.72 | 78.2 | 22.14 |
| | | 270.0 | 55.6 | 12.44 | 60.2 | 14.78 | 65.6 | 17.20 | 71.2 | 19.38 | 73.2 | 19.84 | 76.2 | 20.36 | 78.2 | 20.76 |
| | | 337.5 | 55.6 | 12.10 | 60.2 | 14.44 | 65.6 | 16.86 | 71.2 | 19.02 | 73.2 | 19.46 | 76.2 | 19.98 | 78.2 | 20.24 |
| | | 405.0 | 55.6 | 11.94 | 60.2 | 14.28 | 65.6 | 16.70 | 71.2 | 18.82 | 73.2 | 19.28 | 76.2 | 19.80 | 78.2 | 19.98 |
| | 45 | 108.0 | 51.2 | 15.08 | 55.4 | 17.46 | 60.4 | 20.44 | 65.6 | 22.94 | 67.4 | 23.48 | 70.2 | 24.04 | 72.0 | 24.46 |
| | | 135.0 | 51.2 | 14.78 | 55.4 | 17.20 | 60.4 | 20.10 | 65.6 | 22.58 | 67.4 | 23.10 | 70.2 | 23.66 | 72.0 | 24.10 |
| | | 270.0 | 51.2 | 13.56 | 55.4 | 16.12 | 60.4 | 18.72 | 65.6 | 21.14 | 67.4 | 21.58 | 70.2 | 22.18 | 72.0 | 22.66 |
| | | 337.5 | 51.2 | 13.18 | 55.4 | 15.74 | 60.4 | 18.38 | 65.6 | 20.72 | 67.4 | 21.20 | 70.2 | 21.76 | 72.0 | 22.06 |
| | | 405.0 | 51.2 | 13.00 | 55.4 | 15.56 | 60.4 | 18.22 | 65.6 | 20.52 | 67.4 | 21.02 | 70.2 | 21.56 | 72.0 | 21.76 |
| 100 | 10 | 108.0 | 61.2 | 4.62 | 66.2 | 5.42 | 72.0 | 6.28 | 78.4 | 7.02 | 80.8 | 7.20 | 83.8 | 7.44 | 86.2 | 7.60 |
| | | 135.0 | 61.2 | 4.54 | 66.2 | 5.32 | 72.0 | 6.18 | 78.4 | 6.92 | 80.8 | 7.10 | 83.8 | 7.32 | 86.2 | 7.46 |
| | | 270.0 | 61.2 | 4.18 | 66.2 | 4.92 | 72.0 | 5.78 | 78.4 | 6.54 | 80.8 | 6.72 | 83.8 | 6.86 | 86.2 | 6.92 |
| | | 337.5 | 61.2 | 4.12 | 66.2 | 4.82 | 72.0 | 5.68 | 78.4 | 6.36 | 80.8 | 6.54 | 83.8 | 6.72 | 86.2 | 6.82 |
| | | 405.0 | 61.2 | 4.08 | 66.2 | 4.76 | 72.0 | 5.62 | 78.4 | 6.26 | 80.8 | 6.44 | 83.8 | 6.64 | 86.2 | 6.78 |
| | 15 | 108.0 | 61.2 | 6.28 | 66.2 | 7.32 | 72.0 | 8.54 | 78.4 | 9.58 | 80.8 | 9.80 | 83.8 | 10.08 | 86.2 | 10.26 |
| | | 135.0 | 61.2 | 6.16 | 66.2 | 7.20 | 72.0 | 8.40 | 78.4 | 9.44 | 80.8 | 9.66 | 83.8 | 9.92 | 86.2 | 10.10 |
| | | 270.0 | 61.2 | 5.68 | 66.2 | 6.72 | 72.0 | 7.84 | 78.4 | 8.84 | 80.8 | 9.06 | 83.8 | 9.28 | 86.2 | 9.44 |
| | | 337.5 | 61.2 | 5.54 | 66.2 | 6.58 | 72.0 | 7.68 | 78.4 | 8.66 | 80.8 | 8.88 | 83.8 | 9.10 | 86.2 | 9.20 |
| | | 405.0 | 61.2 | 5.46 | 66.2 | 6.50 | 72.0 | 7.62 | 78.4 | 8.56 | 80.8 | 8.78 | 83.8 | 9.00 | 86.2 | 9.10 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 108.0 | 61.2 | 7.76 | 66.2 | 9.02 | 72.0 | 10.54 | 78.4 | 11.86 | 80.8 | 12.12 | 83.8 | 12.42 | 86.2 | 12.64 |
| | | 135.0 | 61.2 | 7.62 | 66.2 | 8.88 | 72.0 | 10.36 | 78.4 | 11.66 | 80.8 | 11.92 | 83.8 | 12.22 | 86.2 | 12.44 |
| | | 270.0 | 61.2 | 7.02 | 66.2 | 8.32 | 72.0 | 9.66 | 78.4 | 10.88 | 80.8 | 11.14 | 83.8 | 11.44 | 86.2 | 11.66 |
| | | 337.5 | 61.2 | 6.80 | 66.2 | 8.14 | 72.0 | 9.46 | 78.4 | 10.70 | 80.8 | 10.96 | 83.8 | 11.22 | 86.2 | 11.32 |
| | | 405.0 | 61.2 | 6.68 | 66.2 | 8.04 | 72.0 | 9.38 | 78.4 | 10.60 | 80.8 | 10.86 | 83.8 | 11.10 | 86.2 | 11.16 |
| | 25 | 108.0 | 61.2 | 9.48 | 66.2 | 11.02 | 72.0 | 12.84 | 78.4 | 14.46 | 80.8 | 14.80 | 83.8 | 15.12 | 86.2 | 15.44 |
| | | 135.0 | 61.2 | 9.28 | 66.2 | 10.84 | 72.0 | 12.62 | 78.4 | 14.22 | 80.8 | 14.56 | 83.8 | 14.90 | 86.2 | 15.18 |
| | | 270.0 | 61.2 | 8.54 | 66.2 | 10.14 | 72.0 | 11.80 | 78.4 | 13.30 | 80.8 | 13.60 | 83.8 | 13.96 | 86.2 | 14.18 |
| | | 337.5 | 61.2 | 8.32 | 66.2 | 9.92 | 72.0 | 11.54 | 78.4 | 13.04 | 80.8 | 13.34 | 83.8 | 13.70 | 86.2 | 13.82 |
| | | 405.0 | 61.2 | 8.20 | 66.2 | 9.80 | 72.0 | 11.42 | 78.4 | 12.90 | 80.8 | 13.20 | 83.8 | 13.58 | 86.2 | 13.62 |
| | 30 | 108.0 | 61.2 | 11.68 | 66.2 | 13.56 | 72.0 | 15.78 | 78.4 | 17.78 | 80.8 | 18.20 | 83.8 | 18.64 | 86.2 | 18.98 |
| | | 135.0 | 61.2 | 11.44 | 66.2 | 13.34 | 72.0 | 15.52 | 78.4 | 17.50 | 80.8 | 17.90 | 83.8 | 18.34 | 86.2 | 18.68 |
| | | 270.0 | 61.2 | 10.50 | 66.2 | 12.44 | 72.0 | 14.52 | 78.4 | 16.34 | 80.8 | 16.72 | 83.8 | 17.16 | 86.2 | 17.46 |
| | | 337.5 | 61.2 | 10.22 | 66.2 | 12.18 | 72.0 | 14.22 | 78.4 | 16.00 | 80.8 | 16.42 | 83.8 | 16.82 | 86.2 | 17.00 |
| | | 405.0 | 61.2 | 10.06 | 66.2 | 12.06 | 72.0 | 14.08 | 78.4 | 15.84 | 80.8 | 16.26 | 83.8 | 16.66 | 86.2 | 16.78 |
| | 35 | 108.0 | 58.2 | 12.32 | 63.0 | 14.30 | 68.4 | 16.64 | 74.4 | 18.76 | 76.8 | 19.22 | 79.8 | 19.66 | 81.8 | 20.00 |
| | | 135.0 | 58.2 | 12.06 | 63.0 | 14.08 | 68.4 | 16.38 | 74.4 | 18.46 | 76.8 | 18.90 | 79.8 | 19.34 | 81.8 | 19.68 |
| | | 270.0 | 58.2 | 11.10 | 63.0 | 13.14 | 68.4 | 15.30 | 74.4 | 17.24 | 76.8 | 17.68 | 79.8 | 18.12 | 81.8 | 18.42 |
| | | 337.5 | 58.2 | 10.76 | 63.0 | 12.88 | 68.4 | 15.00 | 74.4 | 16.90 | 76.8 | 17.34 | 79.8 | 17.78 | 81.8 | 17.94 |
| | | 405.0 | 58.2 | 10.60 | 63.0 | 12.76 | 68.4 | 14.86 | 74.4 | 16.74 | 76.8 | 17.18 | 79.8 | 17.62 | 81.8 | 17.70 |
| | 40 | 108.0 | 55.0 | 13.78 | 59.6 | 16.04 | 64.8 | 18.68 | 70.6 | 21.02 | 72.6 | 21.56 | 75.4 | 22.08 | 77.6 | 22.46 |
| | | 135.0 | 55.0 | 13.52 | 59.6 | 15.78 | 64.8 | 18.38 | 70.6 | 20.68 | 72.6 | 21.20 | 75.4 | 21.72 | 77.6 | 22.10 |
| | | 270.0 | 55.0 | 12.44 | 59.6 | 14.74 | 64.8 | 17.20 | 70.6 | 19.34 | 72.6 | 19.80 | 75.4 | 20.32 | 77.6 | 20.68 |
| | | 337.5 | 55.0 | 12.10 | 59.6 | 14.44 | 64.8 | 16.82 | 70.6 | 18.98 | 72.6 | 19.46 | 75.4 | 19.94 | 77.6 | 20.12 |
| | | 405.0 | 55.0 | 11.94 | 59.6 | 14.30 | 64.8 | 16.64 | 70.6 | 18.80 | 72.6 | 19.30 | 75.4 | 19.76 | 77.6 | 19.86 |
| | 45 | 108.0 | 51.8 | 15.26 | 56.2 | 17.78 | 61.4 | 20.72 | 66.6 | 23.28 | 68.4 | 23.92 | 71.2 | 24.50 | 73.4 | 24.90 |
| | | 135.0 | 51.8 | 14.96 | 56.2 | 17.50 | 61.4 | 20.38 | 66.6 | 22.92 | 68.4 | 23.50 | 71.2 | 24.10 | 73.4 | 24.52 |
| | | 270.0 | 51.8 | 13.78 | 56.2 | 16.34 | 61.4 | 19.08 | 66.6 | 21.46 | 68.4 | 21.92 | 71.2 | 22.50 | 73.4 | 22.96 |
| | | 337.5 | 51.8 | 13.44 | 56.2 | 16.00 | 61.4 | 18.64 | 66.6 | 21.06 | 68.4 | 21.58 | 71.2 | 22.10 | 73.4 | 22.32 |
| | | 405.0 | 51.8 | 13.28 | 56.2 | 15.84 | 61.4 | 18.42 | 66.6 | 20.86 | 68.4 | 21.40 | 71.2 | 21.90 | 73.4 | 22.00 |
| 90 | 10 | 108.0 | 55.0 | 4.00 | 59.6 | 4.64 | 64.8 | 5.36 | 70.6 | 6.10 | 72.6 | 6.24 | 75.4 | 6.44 | 77.6 | 6.54 |
| | | 135.0 | 55.0 | 3.94 | 59.6 | 4.58 | 64.8 | 5.28 | 70.6 | 6.00 | 72.6 | 6.14 | 75.4 | 6.32 | 77.6 | 6.44 |
| | | 270.0 | 55.0 | 3.64 | 59.6 | 4.28 | 64.8 | 5.00 | 70.6 | 5.64 | 72.6 | 5.76 | 75.4 | 5.90 | 77.6 | 6.00 |
| | | 337.5 | 55.0 | 3.50 | 59.6 | 4.22 | 64.8 | 4.86 | 70.6 | 5.50 | 72.6 | 5.64 | 75.4 | 5.78 | 77.6 | 5.82 |
| | | 405.0 | 55.0 | 3.42 | 59.6 | 4.18 | 64.8 | 4.78 | 70.6 | 5.42 | 72.6 | 5.60 | 75.4 | 5.74 | 77.6 | 5.74 |
| | 15 | 108.0 | 55.0 | 5.42 | 59.6 | 6.30 | 64.8 | 7.32 | 70.6 | 8.26 | 72.6 | 8.44 | 75.4 | 8.68 | 77.6 | 8.84 |
| | | 135.0 | 55.0 | 5.32 | 59.6 | 6.20 | 64.8 | 7.20 | 70.6 | 8.14 | 72.6 | 8.32 | 75.4 | 8.54 | 77.6 | 8.68 |
| | | 270.0 | 55.0 | 4.90 | 59.6 | 5.80 | 64.8 | 6.76 | 70.6 | 7.62 | 72.6 | 7.80 | 75.4 | 7.98 | 77.6 | 8.14 |
| | | 337.5 | 55.0 | 4.76 | 59.6 | 5.68 | 64.8 | 6.62 | 70.6 | 7.46 | 72.6 | 7.66 | 75.4 | 7.84 | 77.6 | 7.92 |
| | | 405.0 | 55.0 | 4.68 | 59.6 | 5.62 | 64.8 | 6.54 | 70.6 | 7.40 | 72.6 | 7.58 | 75.4 | 7.76 | 77.6 | 7.80 |
| | 20 | 108.0 | 55.0 | 6.66 | 59.6 | 7.78 | 64.8 | 9.06 | 70.6 | 10.20 | 72.6 | 10.40 | 75.4 | 10.68 | 77.6 | 10.86 |
| | | 135.0 | 55.0 | 6.54 | 59.6 | 7.66 | 64.8 | 8.92 | 70.6 | 10.02 | 72.6 | 10.24 | 75.4 | 10.50 | 77.6 | 10.70 |
| | | 270.0 | 55.0 | 6.02 | 59.6 | 7.14 | 64.8 | 8.32 | 70.6 | 9.36 | 72.6 | 9.62 | 75.4 | 9.84 | 77.6 | 10.02 |
| | | 337.5 | 55.0 | 5.86 | 59.6 | 6.98 | 64.8 | 8.18 | 70.6 | 9.20 | 72.6 | 9.44 | 75.4 | 9.66 | 77.6 | 9.76 |
| | | 405.0 | 55.0 | 5.80 | 59.6 | 6.90 | 64.8 | 8.10 | 70.6 | 9.14 | 72.6 | 9.34 | 75.4 | 9.56 | 77.6 | 9.64 |
| | 25 | 108.0 | 55.0 | 8.14 | 59.6 | 9.48 | 64.8 | 11.02 | 70.6 | 12.42 | 72.6 | 12.72 | 75.4 | 13.02 | 77.6 | 13.28 |
| | | 135.0 | 55.0 | 7.98 | 59.6 | 9.32 | 64.8 | 10.84 | 70.6 | 12.22 | 72.6 | 12.52 | 75.4 | 12.82 | 77.6 | 13.08 |
| | | 270.0 | 55.0 | 7.36 | 59.6 | 8.72 | 64.8 | 10.14 | 70.6 | 11.44 | 72.6 | 11.70 | 75.4 | 12.00 | 77.6 | 12.22 |
| | | 337.5 | 55.0 | 7.14 | 59.6 | 8.54 | 64.8 | 9.96 | 70.6 | 11.22 | 72.6 | 11.48 | 75.4 | 11.78 | 77.6 | 11.92 |
| | | 405.0 | 55.0 | 7.02 | 59.6 | 8.44 | 64.8 | 9.86 | 70.6 | 11.10 | 72.6 | 11.36 | 75.4 | 11.66 | 77.6 | 11.78 |
| | 30 | 108.0 | 55.0 | 10.04 | 59.6 | 11.66 | 64.8 | 13.60 | 70.6 | 15.28 | 72.6 | 15.66 | 75.4 | 16.04 | 77.6 | 16.34 |
| | | 135.0 | 55.0 | 9.84 | 59.6 | 11.48 | 64.8 | 13.36 | 70.6 | 15.04 | 72.6 | 15.42 | 75.4 | 15.78 | 77.6 | 16.08 |
| | | 270.0 | 55.0 | 9.02 | 59.6 | 10.74 | 64.8 | 12.48 | 70.6 | 14.08 | 72.6 | 14.40 | 75.4 | 14.78 | 77.6 | 15.04 |
| | | 337.5 | 55.0 | 8.80 | 59.6 | 10.50 | 64.8 | 12.22 | 70.6 | 13.78 | 72.6 | 14.14 | 75.4 | 14.48 | 77.6 | 14.64 |
| | | 405.0 | 55.0 | 8.70 | 59.6 | 10.40 | 64.8 | 12.08 | 70.6 | 13.62 | 72.6 | 14.02 | 75.4 | 14.34 | 77.6 | 14.42 |
| | 35 | 108.0 | 53.4 | 10.84 | 58.0 | 12.56 | 63.2 | 14.64 | 68.6 | 16.50 | 70.6 | 16.88 | 73.4 | 17.28 | 75.4 | 17.62 |
| | | 135.0 | 53.4 | 10.62 | 58.0 | 12.36 | 63.2 | 14.40 | 68.6 | 16.22 | 70.6 | 16.60 | 73.4 | 17.00 | 75.4 | 17.34 |
| | | 270.0 | 53.4 | 9.76 | 58.0 | 11.58 | 63.2 | 13.48 | 68.6 | 15.18 | 70.6 | 15.52 | 73.4 | 15.94 | 75.4 | 16.22 |
| | | 337.5 | 53.4 | 9.46 | 58.0 | 11.32 | 63.2 | 13.18 | 68.6 | 14.90 | 70.6 | 15.26 | 73.4 | 15.64 | 75.4 | 15.78 |
| | | 405.0 | 53.4 | 9.32 | 58.0 | 11.20 | 63.2 | 13.04 | 68.6 | 14.74 | 70.6 | 15.14 | 73.4 | 15.48 | 75.4 | 15.56 |
| | 40 | 108.0 | 52.0 | 12.42 | 56.2 | 14.46 | 61.4 | 16.84 | 66.6 | 18.96 | 68.6 | 19.40 | 71.4 | 19.88 | 73.2 | 20.22 |
| | | 135.0 | 52.0 | 12.18 | 56.2 | 14.22 | 61.4 | 16.56 | 66.6 | 18.64 | 68.6 | 19.08 | 71.4 | 19.58 | 73.2 | 19.90 |
| | | 270.0 | 52.0 | 11.22 | 56.2 | 13.30 | 61.4 | 15.48 | 66.6 | 17.42 | 68.6 | 17.86 | 71.4 | 18.30 | 73.2 | 18.64 |
| | | 337.5 | 52.0 | 10.88 | 56.2 | 13.00 | 61.4 | 15.16 | 66.6 | 17.08 | 68.6 | 17.52 | 71.4 | 17.98 | 73.2 | 18.16 |
| | | 405.0 | 52.0 | 10.72 | 56.2 | 12.84 | 61.4 | 14.98 | 66.6 | 16.92 | 68.6 | 17.36 | 71.4 | 17.80 | 73.2 | 17.92 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 108.0 | 50.4 | 14.02 | 54.6 | 16.36 | 59.4 | 19.02 | 64.6 | 21.42 | 66.6 | 21.92 | 69.2 | 22.50 | 71.2 | 22.82 |
| | | 135.0 | 50.4 | 13.74 | 54.6 | 16.08 | 59.4 | 18.72 | 64.6 | 21.06 | 66.6 | 21.58 | 69.2 | 22.14 | 71.2 | 22.46 |
| | | 270.0 | 50.4 | 12.66 | 54.6 | 15.00 | 59.4 | 17.50 | 64.6 | 19.64 | 66.6 | 20.20 | 69.2 | 20.68 | 71.2 | 21.06 |
| | | 337.5 | 50.4 | 12.30 | 54.6 | 14.66 | 59.4 | 17.12 | 64.6 | 19.28 | 66.6 | 19.80 | 69.2 | 20.32 | 71.2 | 20.54 |
| | | 405.0 | 50.4 | 12.10 | 54.6 | 14.50 | 59.4 | 16.94 | 64.6 | 19.08 | 66.6 | 19.60 | 69.2 | 20.12 | 71.2 | 20.28 |
| 80 | 10 | 108.0 | 48.8 | 3.36 | 53.0 | 3.88 | 57.8 | 4.54 | 62.8 | 5.16 | 64.6 | 5.22 | 67.0 | 5.42 | 69.0 | 5.44 |
| | | 135.0 | 48.8 | 3.28 | 53.0 | 3.82 | 57.8 | 4.46 | 62.8 | 5.08 | 64.6 | 5.14 | 67.0 | 5.32 | 69.0 | 5.36 |
| | | 270.0 | 48.8 | 3.00 | 53.0 | 3.62 | 57.8 | 4.14 | 62.8 | 4.72 | 64.6 | 4.82 | 67.0 | 4.92 | 69.0 | 5.00 |
| | | 337.5 | 48.8 | 2.92 | 53.0 | 3.50 | 57.8 | 4.08 | 62.8 | 4.56 | 64.6 | 4.68 | 67.0 | 4.86 | 69.0 | 4.94 |
| | | 405.0 | 48.8 | 2.90 | 53.0 | 3.44 | 57.8 | 4.04 | 62.8 | 4.50 | 64.6 | 4.60 | 67.0 | 4.82 | 69.0 | 4.90 |
| | 15 | 108.0 | 48.8 | 4.56 | 53.0 | 5.28 | 57.8 | 6.16 | 62.8 | 6.94 | 64.6 | 7.10 | 67.0 | 7.28 | 69.0 | 7.40 |
| | | 135.0 | 48.8 | 4.46 | 53.0 | 5.20 | 57.8 | 6.06 | 62.8 | 6.84 | 64.6 | 6.98 | 67.0 | 7.16 | 69.0 | 7.28 |
| | | 270.0 | 48.8 | 4.08 | 53.0 | 4.86 | 57.8 | 5.64 | 62.8 | 6.38 | 64.6 | 6.54 | 67.0 | 6.68 | 69.0 | 6.80 |
| | | 337.5 | 48.8 | 3.98 | 53.0 | 4.76 | 57.8 | 5.54 | 62.8 | 6.24 | 64.6 | 6.38 | 67.0 | 6.58 | 69.0 | 6.64 |
| | | 405.0 | 48.8 | 3.92 | 53.0 | 4.70 | 57.8 | 5.48 | 62.8 | 6.16 | 64.6 | 6.32 | 67.0 | 6.52 | 69.0 | 6.58 |
| | 20 | 108.0 | 48.8 | 5.60 | 53.0 | 6.54 | 57.8 | 7.58 | 62.8 | 8.52 | 64.6 | 8.76 | 67.0 | 8.94 | 69.0 | 9.14 |
| | | 135.0 | 48.8 | 5.50 | 53.0 | 6.42 | 57.8 | 7.46 | 62.8 | 8.40 | 64.6 | 8.62 | 67.0 | 8.80 | 69.0 | 8.98 |
| | | 270.0 | 48.8 | 5.06 | 53.0 | 5.98 | 57.8 | 6.98 | 62.8 | 7.88 | 64.6 | 8.06 | 67.0 | 8.24 | 69.0 | 8.40 |
| | | 337.5 | 48.8 | 4.90 | 53.0 | 5.86 | 57.8 | 6.84 | 62.8 | 7.72 | 64.6 | 7.92 | 67.0 | 8.10 | 69.0 | 8.18 |
| | | 405.0 | 48.8 | 4.82 | 53.0 | 5.82 | 57.8 | 6.76 | 62.8 | 7.66 | 64.6 | 7.84 | 67.0 | 8.02 | 69.0 | 8.06 |
| | 25 | 108.0 | 48.8 | 6.82 | 53.0 | 7.92 | 57.8 | 9.24 | 62.8 | 10.42 | 64.6 | 10.68 | 67.0 | 10.94 | 69.0 | 11.14 |
| | | 135.0 | 48.8 | 6.68 | 53.0 | 7.80 | 57.8 | 9.10 | 62.8 | 10.24 | 64.6 | 10.50 | 67.0 | 10.76 | 69.0 | 10.96 |
| | | 270.0 | 48.8 | 6.16 | 53.0 | 7.32 | 57.8 | 8.50 | 62.8 | 9.58 | 64.6 | 9.80 | 67.0 | 10.06 | 69.0 | 10.24 |
| | | 337.5 | 48.8 | 5.98 | 53.0 | 7.16 | 57.8 | 8.36 | 62.8 | 9.40 | 64.6 | 9.62 | 67.0 | 9.88 | 69.0 | 9.98 |
| | | 405.0 | 48.8 | 5.88 | 53.0 | 7.10 | 57.8 | 8.28 | 62.8 | 9.30 | 64.6 | 9.52 | 67.0 | 9.78 | 69.0 | 9.86 |
| | 30 | 108.0 | 48.8 | 8.42 | 53.0 | 9.78 | 57.8 | 11.40 | 62.8 | 12.84 | 64.6 | 13.14 | 67.0 | 13.44 | 69.0 | 13.70 |
| | | 135.0 | 48.8 | 8.24 | 53.0 | 9.62 | 57.8 | 11.22 | 62.8 | 12.62 | 64.6 | 12.92 | 67.0 | 13.22 | 69.0 | 13.48 |
| | | 270.0 | 48.8 | 7.58 | 53.0 | 8.98 | 57.8 | 10.48 | 62.8 | 11.78 | 64.6 | 12.06 | 67.0 | 12.36 | 69.0 | 12.58 |
| | | 337.5 | 48.8 | 7.36 | 53.0 | 8.80 | 57.8 | 10.24 | 62.8 | 11.54 | 64.6 | 11.84 | 67.0 | 12.14 | 69.0 | 12.26 |
| | | 405.0 | 48.8 | 7.24 | 53.0 | 8.70 | 57.8 | 10.14 | 62.8 | 11.44 | 64.6 | 11.74 | 67.0 | 12.04 | 69.0 | 12.08 |
| | 35 | 108.0 | 48.8 | 9.36 | 53.0 | 10.88 | 57.8 | 12.64 | 62.8 | 14.22 | 64.6 | 14.56 | 67.0 | 14.94 | 69.0 | 15.20 |
| | | 135.0 | 48.8 | 9.18 | 53.0 | 10.70 | 57.8 | 12.44 | 62.8 | 14.00 | 64.6 | 14.34 | 67.0 | 14.70 | 69.0 | 14.96 |
| | | 270.0 | 48.8 | 8.42 | 53.0 | 9.98 | 57.8 | 11.62 | 62.8 | 13.10 | 64.6 | 13.40 | 67.0 | 13.74 | 69.0 | 14.00 |
| | | 337.5 | 48.8 | 8.20 | 53.0 | 9.76 | 57.8 | 11.40 | 62.8 | 12.84 | 64.6 | 13.14 | 67.0 | 13.52 | 69.0 | 13.62 |
| | | 405.0 | 48.8 | 8.10 | 53.0 | 9.66 | 57.8 | 11.28 | 62.8 | 12.72 | 64.6 | 13.02 | 67.0 | 13.40 | 69.0 | 13.44 |
| | 40 | 108.0 | 48.8 | 11.06 | 53.0 | 12.88 | 57.8 | 14.98 | 62.8 | 16.88 | 64.6 | 17.24 | 67.0 | 17.70 | 69.0 | 18.00 |
| | | 135.0 | 48.8 | 10.84 | 53.0 | 12.66 | 57.8 | 14.74 | 62.8 | 16.60 | 64.6 | 16.98 | 67.0 | 17.42 | 69.0 | 17.72 |
| | | 270.0 | 48.8 | 9.98 | 53.0 | 11.80 | 57.8 | 13.78 | 62.8 | 15.52 | 64.6 | 15.90 | 67.0 | 16.30 | 69.0 | 16.60 |
| | | 337.5 | 48.8 | 9.70 | 53.0 | 11.58 | 57.8 | 13.48 | 62.8 | 15.22 | 64.6 | 15.60 | 67.0 | 15.96 | 69.0 | 16.16 |
| | | 405.0 | 48.8 | 9.54 | 53.0 | 11.48 | 57.8 | 13.34 | 62.8 | 15.08 | 64.6 | 15.44 | 67.0 | 15.80 | 69.0 | 15.94 |
| | 45 | 108.0 | 48.8 | 12.76 | 53.0 | 14.88 | 57.8 | 17.32 | 62.8 | 19.52 | 64.6 | 19.92 | 67.0 | 20.44 | 69.0 | 20.78 |
| | | 135.0 | 48.8 | 12.52 | 53.0 | 14.64 | 57.8 | 17.04 | 62.8 | 19.20 | 64.6 | 19.60 | 67.0 | 20.12 | 69.0 | 20.46 |
| | | 270.0 | 48.8 | 11.54 | 53.0 | 13.62 | 57.8 | 15.94 | 62.8 | 17.94 | 64.6 | 18.38 | 67.0 | 18.86 | 69.0 | 19.20 |
| | | 337.5 | 48.8 | 11.18 | 53.0 | 13.40 | 57.8 | 15.56 | 62.8 | 17.60 | 64.6 | 18.04 | 67.0 | 18.42 | 69.0 | 18.68 |
| | | 405.0 | 48.8 | 11.00 | 53.0 | 13.30 | 57.8 | 15.38 | 62.8 | 17.44 | 64.6 | 17.88 | 67.0 | 18.20 | 69.0 | 18.42 |
| 70 | 10 | 108.0 | 42.8 | 2.80 | 46.4 | 3.22 | 50.6 | 3.82 | 54.8 | 4.30 | 56.6 | 4.30 | 58.6 | 4.46 | 60.4 | 4.52 |
| | | 135.0 | 42.8 | 2.76 | 46.4 | 3.18 | 50.6 | 3.76 | 54.8 | 4.22 | 56.6 | 4.24 | 58.6 | 4.40 | 60.4 | 4.46 |
| | | 270.0 | 42.8 | 2.54 | 46.4 | 3.00 | 50.6 | 3.50 | 54.8 | 3.94 | 56.6 | 4.00 | 58.6 | 4.10 | 60.4 | 4.22 |
| | | 337.5 | 42.8 | 2.42 | 46.4 | 2.90 | 50.6 | 3.40 | 54.8 | 3.82 | 56.6 | 3.90 | 58.6 | 4.04 | 60.4 | 4.12 |
| | | 405.0 | 42.8 | 2.38 | 46.4 | 2.84 | 50.6 | 3.34 | 54.8 | 3.76 | 56.6 | 3.84 | 58.6 | 4.00 | 60.4 | 4.06 |
| | 15 | 108.0 | 42.8 | 3.78 | 46.4 | 4.38 | 50.6 | 5.14 | 54.8 | 5.78 | 56.6 | 5.88 | 58.6 | 6.04 | 60.4 | 6.14 |
| | | 135.0 | 42.8 | 3.72 | 46.4 | 4.30 | 50.6 | 5.06 | 54.8 | 5.68 | 56.6 | 5.80 | 58.6 | 5.94 | 60.4 | 6.06 |
| | | 270.0 | 42.8 | 3.42 | 46.4 | 4.04 | 50.6 | 4.72 | 54.8 | 5.32 | 56.6 | 5.42 | 58.6 | 5.58 | 60.4 | 5.68 |
| | | 337.5 | 42.8 | 3.30 | 46.4 | 3.94 | 50.6 | 4.60 | 54.8 | 5.20 | 56.6 | 5.32 | 58.6 | 5.46 | 60.4 | 5.54 |
| | | 405.0 | 42.8 | 3.24 | 46.4 | 3.88 | 50.6 | 4.54 | 54.8 | 5.14 | 56.6 | 5.26 | 58.6 | 5.40 | 60.4 | 5.46 |
| | 20 | 108.0 | 42.8 | 4.66 | 46.4 | 5.40 | 50.6 | 6.30 | 54.8 | 7.10 | 56.6 | 7.28 | 58.6 | 7.42 | 60.4 | 7.58 |
| | | 135.0 | 42.8 | 4.56 | 46.4 | 5.32 | 50.6 | 6.20 | 54.8 | 6.98 | 56.6 | 7.16 | 58.6 | 7.32 | 60.4 | 7.46 |
| | | 270.0 | 42.8 | 4.20 | 46.4 | 4.98 | 50.6 | 5.80 | 54.8 | 6.54 | 56.6 | 6.68 | 58.6 | 6.88 | 60.4 | 6.98 |
| | | 337.5 | 42.8 | 4.08 | 46.4 | 4.86 | 50.6 | 5.68 | 54.8 | 6.42 | 56.6 | 6.58 | 58.6 | 6.72 | 60.4 | 6.80 |
| | | 405.0 | 42.8 | 4.02 | 46.4 | 4.80 | 50.6 | 5.62 | 54.8 | 6.36 | 56.6 | 6.52 | 58.6 | 6.64 | 60.4 | 6.70 |
| | 25 | 108.0 | 42.8 | 5.68 | 46.4 | 6.60 | 50.6 | 7.70 | 54.8 | 8.68 | 56.6 | 8.86 | 58.6 | 9.10 | 60.4 | 9.24 |
| | | 135.0 | 42.8 | 5.58 | 46.4 | 6.50 | 50.6 | 7.58 | 54.8 | 8.54 | 56.6 | 8.72 | 58.6 | 8.94 | 60.4 | 9.10 |
| | | 270.0 | 42.8 | 5.12 | 46.4 | 6.10 | 50.6 | 7.10 | 54.8 | 7.98 | 56.6 | 8.18 | 58.6 | 8.36 | 60.4 | 8.50 |
| | | 337.5 | 42.8 | 4.98 | 46.4 | 5.94 | 50.6 | 6.94 | 54.8 | 7.80 | 56.6 | 8.02 | 58.6 | 8.20 | 60.4 | 8.28 |
| | | 405.0 | 42.8 | 4.90 | 46.4 | 5.86 | 50.6 | 6.88 | 54.8 | 7.70 | 56.6 | 7.94 | 58.6 | 8.14 | 60.4 | 8.18 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 108.0 | 42.8 | 7.02 | 46.4 | 8.12 | 50.6 | 9.48 | 54.8 | 10.64 | 56.6 | 10.92 | 58.6 | 11.18 | 60.4 | 11.36 |
| | | 135.0 | 42.8 | 6.88 | 46.4 | 7.98 | 50.6 | 9.32 | 54.8 | 10.48 | 56.6 | 10.74 | 58.6 | 11.00 | 60.4 | 11.18 |
| | | 270.0 | 42.8 | 6.32 | 46.4 | 7.46 | 50.6 | 8.68 | 54.8 | 9.80 | 56.6 | 10.02 | 58.6 | 10.28 | 60.4 | 10.48 |
| | | 337.5 | 42.8 | 6.12 | 46.4 | 7.32 | 50.6 | 8.54 | 54.8 | 9.62 | 56.6 | 9.84 | 58.6 | 10.10 | 60.4 | 10.22 |
| | | 405.0 | 42.8 | 6.04 | 46.4 | 7.24 | 50.6 | 8.46 | 54.8 | 9.52 | 56.6 | 9.74 | 58.6 | 10.00 | 60.4 | 10.08 |
| | 35 | 108.0 | 42.8 | 7.76 | 46.4 | 9.02 | 50.6 | 10.54 | 54.8 | 11.86 | 56.6 | 12.12 | 58.6 | 12.42 | 60.4 | 12.64 |
| | | 135.0 | 42.8 | 7.62 | 46.4 | 8.88 | 50.6 | 10.36 | 54.8 | 11.66 | 56.6 | 11.92 | 58.6 | 12.22 | 60.4 | 12.44 |
| | | 270.0 | 42.8 | 7.02 | 46.4 | 8.32 | 50.6 | 9.66 | 54.8 | 10.88 | 56.6 | 11.14 | 58.6 | 11.44 | 60.4 | 11.66 |
| | | 337.5 | 42.8 | 6.80 | 46.4 | 8.14 | 50.6 | 9.46 | 54.8 | 10.70 | 56.6 | 10.96 | 58.6 | 11.22 | 60.4 | 11.32 |
| | | 405.0 | 42.8 | 6.68 | 46.4 | 8.04 | 50.6 | 9.38 | 54.8 | 10.60 | 56.6 | 10.86 | 58.6 | 11.10 | 60.4 | 11.16 |
| | 40 | 108.0 | 42.8 | 9.22 | 46.4 | 10.68 | 50.6 | 12.46 | 54.8 | 14.00 | 56.6 | 14.34 | 58.6 | 14.72 | 60.4 | 14.98 |
| | | 135.0 | 42.8 | 9.02 | 46.4 | 10.50 | 50.6 | 12.26 | 54.8 | 13.78 | 56.6 | 14.12 | 58.6 | 14.48 | 60.4 | 14.74 |
| | | 270.0 | 42.8 | 8.28 | 46.4 | 9.84 | 50.6 | 11.44 | 54.8 | 12.88 | 56.6 | 13.22 | 58.6 | 13.56 | 60.4 | 13.78 |
| | | 337.5 | 42.8 | 8.06 | 46.4 | 9.62 | 50.6 | 11.22 | 54.8 | 12.66 | 56.6 | 12.96 | 58.6 | 13.30 | 60.4 | 13.44 |
| | | 405.0 | 42.8 | 7.94 | 46.4 | 9.50 | 50.6 | 11.10 | 54.8 | 12.56 | 56.6 | 12.84 | 58.6 | 13.16 | 60.4 | 13.28 |
| | 45 | 108.0 | 42.8 | 10.66 | 46.4 | 12.34 | 50.6 | 14.38 | 54.8 | 16.14 | 56.6 | 16.56 | 58.6 | 17.02 | 60.4 | 17.34 |
| | | 135.0 | 42.8 | 10.44 | 46.4 | 12.14 | 50.6 | 14.14 | 54.8 | 15.90 | 56.6 | 16.30 | 58.6 | 16.74 | 60.4 | 17.04 |
| | | 270.0 | 42.8 | 9.54 | 46.4 | 11.36 | 50.6 | 13.22 | 54.8 | 14.90 | 56.6 | 15.30 | 58.6 | 15.68 | 60.4 | 15.90 |
| | | 337.5 | 42.8 | 9.32 | 46.4 | 11.10 | 50.6 | 12.96 | 54.8 | 14.64 | 56.6 | 14.96 | 58.6 | 15.38 | 60.4 | 15.56 |
| | | 405.0 | 42.8 | 9.22 | 46.4 | 10.98 | 50.6 | 12.84 | 54.8 | 14.50 | 56.6 | 14.80 | 58.6 | 15.22 | 60.4 | 15.40 |
| 60 | 10 | 108.0 | 36.6 | 2.28 | 39.8 | 2.62 | 43.2 | 3.02 | 47.0 | 3.42 | 48.4 | 3.50 | 50.4 | 3.62 | 51.8 | 3.62 |
| | | 135.0 | 36.6 | 2.22 | 39.8 | 2.58 | 43.2 | 2.96 | 47.0 | 3.36 | 48.4 | 3.44 | 50.4 | 3.54 | 51.8 | 3.58 |
| | | 270.0 | 36.6 | 2.00 | 39.8 | 2.40 | 43.2 | 2.74 | 47.0 | 3.14 | 48.4 | 3.14 | 50.4 | 3.24 | 51.8 | 3.36 |
| | | 337.5 | 36.6 | 1.92 | 39.8 | 2.32 | 43.2 | 2.72 | 47.0 | 3.08 | 48.4 | 3.10 | 50.4 | 3.18 | 51.8 | 3.22 |
| | | 405.0 | 36.6 | 1.88 | 39.8 | 2.28 | 43.2 | 2.70 | 47.0 | 3.04 | 48.4 | 3.08 | 50.4 | 3.14 | 51.8 | 3.14 |
| | 15 | 108.0 | 36.6 | 3.04 | 39.8 | 3.50 | 43.2 | 4.08 | 47.0 | 4.60 | 48.4 | 4.72 | 50.4 | 4.84 | 51.8 | 4.90 |
| | | 135.0 | 36.6 | 2.98 | 39.8 | 3.46 | 43.2 | 4.02 | 47.0 | 4.54 | 48.4 | 4.64 | 50.4 | 4.76 | 51.8 | 4.82 |
| | | 270.0 | 36.6 | 2.72 | 39.8 | 3.24 | 43.2 | 3.76 | 47.0 | 4.24 | 48.4 | 4.30 | 50.4 | 4.42 | 51.8 | 4.54 |
| | | 337.5 | 36.6 | 2.64 | 39.8 | 3.16 | 43.2 | 3.68 | 47.0 | 4.16 | 48.4 | 4.24 | 50.4 | 4.34 | 51.8 | 4.38 |
| | | 405.0 | 36.6 | 2.60 | 39.8 | 3.12 | 43.2 | 3.64 | 47.0 | 4.12 | 48.4 | 4.20 | 50.4 | 4.30 | 51.8 | 4.30 |
| | 20 | 108.0 | 36.6 | 3.72 | 39.8 | 4.30 | 43.2 | 5.02 | 47.0 | 5.66 | 48.4 | 5.82 | 50.4 | 5.92 | 51.8 | 6.04 |
| | | 135.0 | 36.6 | 3.64 | 39.8 | 4.24 | 43.2 | 4.94 | 47.0 | 5.58 | 48.4 | 5.72 | 50.4 | 5.84 | 51.8 | 5.94 |
| | | 270.0 | 36.6 | 3.34 | 39.8 | 3.98 | 43.2 | 4.64 | 47.0 | 5.20 | 48.4 | 5.34 | 50.4 | 5.46 | 51.8 | 5.58 |
| | | 337.5 | 36.6 | 3.26 | 39.8 | 3.90 | 43.2 | 4.54 | 47.0 | 5.12 | 48.4 | 5.24 | 50.4 | 5.38 | 51.8 | 5.42 |
| | | 405.0 | 36.6 | 3.24 | 39.8 | 3.86 | 43.2 | 4.48 | 47.0 | 5.08 | 48.4 | 5.18 | 50.4 | 5.34 | 51.8 | 5.34 |
| | 25 | 108.0 | 36.6 | 4.56 | 39.8 | 5.24 | 43.2 | 6.10 | 47.0 | 6.90 | 48.4 | 7.06 | 50.4 | 7.24 | 51.8 | 7.36 |
| | | 135.0 | 36.6 | 4.46 | 39.8 | 5.16 | 43.2 | 6.02 | 47.0 | 6.80 | 48.4 | 6.94 | 50.4 | 7.14 | 51.8 | 7.24 |
| | | 270.0 | 36.6 | 4.08 | 39.8 | 4.82 | 43.2 | 5.64 | 47.0 | 6.36 | 48.4 | 6.50 | 50.4 | 6.68 | 51.8 | 6.80 |
| | | 337.5 | 36.6 | 3.98 | 39.8 | 4.76 | 43.2 | 5.54 | 47.0 | 6.24 | 48.4 | 6.38 | 50.4 | 6.54 | 51.8 | 6.62 |
| | | 405.0 | 36.6 | 3.92 | 39.8 | 4.72 | 43.2 | 5.48 | 47.0 | 6.18 | 48.4 | 6.34 | 50.4 | 6.46 | 51.8 | 6.52 |
| | 30 | 108.0 | 36.6 | 5.58 | 39.8 | 6.50 | 43.2 | 7.54 | 47.0 | 8.50 | 48.4 | 8.68 | 50.4 | 8.90 | 51.8 | 9.06 |
| | | 135.0 | 36.6 | 5.46 | 39.8 | 6.38 | 43.2 | 7.42 | 47.0 | 8.36 | 48.4 | 8.54 | 50.4 | 8.76 | 51.8 | 8.92 |
| | | 270.0 | 36.6 | 5.02 | 39.8 | 5.94 | 43.2 | 6.94 | 47.0 | 7.80 | 48.4 | 7.98 | 50.4 | 8.20 | 51.8 | 8.36 |
| | | 337.5 | 36.6 | 4.90 | 39.8 | 5.84 | 43.2 | 6.80 | 47.0 | 7.66 | 48.4 | 7.84 | 50.4 | 8.06 | 51.8 | 8.14 |
| | | 405.0 | 36.6 | 4.84 | 39.8 | 5.78 | 43.2 | 6.72 | 47.0 | 7.58 | 48.4 | 7.76 | 50.4 | 7.98 | 51.8 | 8.02 |
| | 35 | 108.0 | 36.6 | 6.18 | 39.8 | 7.22 | 43.2 | 8.38 | 47.0 | 9.44 | 48.4 | 9.66 | 50.4 | 9.88 | 51.8 | 10.08 |
| | | 135.0 | 36.6 | 6.06 | 39.8 | 7.10 | 43.2 | 8.24 | 47.0 | 9.28 | 48.4 | 9.50 | 50.4 | 9.72 | 51.8 | 9.92 |
| | | 270.0 | 36.6 | 5.58 | 39.8 | 6.62 | 43.2 | 7.72 | 47.0 | 8.68 | 48.4 | 8.88 | 50.4 | 9.14 | 51.8 | 9.28 |
| | | 337.5 | 36.6 | 5.42 | 39.8 | 6.46 | 43.2 | 7.54 | 47.0 | 8.50 | 48.4 | 8.72 | 50.4 | 8.94 | 51.8 | 9.02 |
| | | 405.0 | 36.6 | 5.34 | 39.8 | 6.38 | 43.2 | 7.44 | 47.0 | 8.42 | 48.4 | 8.66 | 50.4 | 8.86 | 51.8 | 8.90 |
| | 40 | 108.0 | 36.6 | 7.36 | 39.8 | 8.54 | 43.2 | 9.92 | 47.0 | 11.18 | 48.4 | 11.44 | 50.4 | 11.74 | 51.8 | 11.92 |
| | | 135.0 | 36.6 | 7.20 | 39.8 | 8.40 | 43.2 | 9.76 | 47.0 | 11.00 | 48.4 | 11.26 | 50.4 | 11.54 | 51.8 | 11.74 |
| | | 270.0 | 36.6 | 6.62 | 39.8 | 7.84 | 43.2 | 9.14 | 47.0 | 10.28 | 48.4 | 10.50 | 50.4 | 10.80 | 51.8 | 11.00 |
| | | 337.5 | 36.6 | 6.42 | 39.8 | 7.68 | 43.2 | 8.94 | 47.0 | 10.06 | 48.4 | 10.32 | 50.4 | 10.58 | 51.8 | 10.70 |
| | | 405.0 | 36.6 | 6.34 | 39.8 | 7.62 | 43.2 | 8.86 | 47.0 | 9.96 | 48.4 | 10.24 | 50.4 | 10.48 | 51.8 | 10.54 |
| | 45 | 108.0 | 36.6 | 8.54 | 39.8 | 9.86 | 43.2 | 11.48 | 47.0 | 12.90 | 48.4 | 13.22 | 50.4 | 13.60 | 51.8 | 13.78 |
| | | 135.0 | 36.6 | 8.36 | 39.8 | 9.70 | 43.2 | 11.28 | 47.0 | 12.70 | 48.4 | 13.00 | 50.4 | 13.36 | 51.8 | 13.56 |
| | | 270.0 | 36.6 | 7.66 | 39.8 | 9.06 | 43.2 | 10.54 | 47.0 | 11.88 | 48.4 | 12.14 | 50.4 | 12.48 | 51.8 | 12.70 |
| | | 337.5 | 36.6 | 7.42 | 39.8 | 8.92 | 43.2 | 10.36 | 47.0 | 11.62 | 48.4 | 11.92 | 50.4 | 12.22 | 51.8 | 12.36 |
| | | 405.0 | 36.6 | 7.32 | 39.8 | 8.84 | 43.2 | 10.26 | 47.0 | 11.50 | 48.4 | 11.80 | 50.4 | 12.08 | 51.8 | 12.20 |
| 50 | 10 | 108.0 | 30.6 | 1.62 | 33.2 | 1.92 | 36.0 | 2.32 | 39.2 | 2.54 | 40.4 | 2.56 | 42.0 | 2.66 | 43.2 | 2.72 |
| | | 135.0 | 30.6 | 1.60 | 33.2 | 1.90 | 36.0 | 2.26 | 39.2 | 2.50 | 40.4 | 2.54 | 42.0 | 2.60 | 43.2 | 2.68 |
| | | 270.0 | 30.6 | 1.54 | 33.2 | 1.78 | 36.0 | 2.04 | 39.2 | 2.32 | 40.4 | 2.40 | 42.0 | 2.42 | 43.2 | 2.50 |
| | | 337.5 | 30.6 | 1.46 | 33.2 | 1.72 | 36.0 | 2.04 | 39.2 | 2.24 | 40.4 | 2.32 | 42.0 | 2.36 | 43.2 | 2.40 |
| | | 405.0 | 30.6 | 1.42 | 33.2 | 1.68 | 36.0 | 2.04 | 39.2 | 2.20 | 40.4 | 2.28 | 42.0 | 2.32 | 43.2 | 2.34 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 108.0 | 30.6 | 2.22 | 33.2 | 2.60 | 36.0 | 3.06 | 39.2 | 3.44 | 40.4 | 3.50 | 42.0 | 3.58 | 43.2 | 3.66 |
| | | 135.0 | 30.6 | 2.20 | 33.2 | 2.56 | 36.0 | 3.00 | 39.2 | 3.38 | 40.4 | 3.46 | 42.0 | 3.52 | 43.2 | 3.60 |
| | | 270.0 | 30.6 | 2.04 | 33.2 | 2.42 | 36.0 | 2.78 | 39.2 | 3.16 | 40.4 | 3.24 | 42.0 | 3.30 | 43.2 | 3.38 |
| | | 337.5 | 30.6 | 1.96 | 33.2 | 2.34 | 36.0 | 2.74 | 39.2 | 3.08 | 40.4 | 3.16 | 42.0 | 3.24 | 43.2 | 3.26 |
| | | 405.0 | 30.6 | 1.94 | 33.2 | 2.30 | 36.0 | 2.72 | 39.2 | 3.04 | 40.4 | 3.12 | 42.0 | 3.20 | 43.2 | 3.22 |
| | 20 | 108.0 | 30.6 | 2.76 | 33.2 | 3.20 | 36.0 | 3.74 | 39.2 | 4.22 | 40.4 | 4.34 | 42.0 | 4.42 | 43.2 | 4.48 |
| | | 135.0 | 30.6 | 2.72 | 33.2 | 3.16 | 36.0 | 3.68 | 39.2 | 4.16 | 40.4 | 4.28 | 42.0 | 4.34 | 43.2 | 4.42 |
| | | 270.0 | 30.6 | 2.48 | 33.2 | 2.98 | 36.0 | 3.46 | 39.2 | 3.90 | 40.4 | 3.98 | 42.0 | 4.08 | 43.2 | 4.16 |
| | | 337.5 | 30.6 | 2.42 | 33.2 | 2.90 | 36.0 | 3.38 | 39.2 | 3.82 | 40.4 | 3.90 | 42.0 | 4.02 | 43.2 | 4.04 |
| | | 405.0 | 30.6 | 2.38 | 33.2 | 2.86 | 36.0 | 3.34 | 39.2 | 3.78 | 40.4 | 3.86 | 42.0 | 3.98 | 43.2 | 4.00 |
| | 25 | 108.0 | 30.6 | 3.38 | 33.2 | 3.92 | 36.0 | 4.56 | 39.2 | 5.12 | 40.4 | 5.28 | 42.0 | 5.40 | 43.2 | 5.52 |
| | | 135.0 | 30.6 | 3.30 | 33.2 | 3.86 | 36.0 | 4.50 | 39.2 | 5.06 | 40.4 | 5.20 | 42.0 | 5.32 | 43.2 | 5.42 |
| | | 270.0 | 30.6 | 3.04 | 33.2 | 3.60 | 36.0 | 4.20 | 39.2 | 4.76 | 40.4 | 4.86 | 42.0 | 4.98 | 43.2 | 5.06 |
| | | 337.5 | 30.6 | 2.98 | 33.2 | 3.52 | 36.0 | 4.12 | 39.2 | 4.64 | 40.4 | 4.76 | 42.0 | 4.86 | 43.2 | 4.94 |
| | | 405.0 | 30.6 | 2.94 | 33.2 | 3.50 | 36.0 | 4.08 | 39.2 | 4.58 | 40.4 | 4.70 | 42.0 | 4.80 | 43.2 | 4.88 |
| | 30 | 108.0 | 30.6 | 4.16 | 33.2 | 4.82 | 36.0 | 5.62 | 39.2 | 6.34 | 40.4 | 6.50 | 42.0 | 6.64 | 43.2 | 6.76 |
| | | 135.0 | 30.6 | 4.08 | 33.2 | 4.76 | 36.0 | 5.54 | 39.2 | 6.24 | 40.4 | 6.38 | 42.0 | 6.54 | 43.2 | 6.64 |
| | | 270.0 | 30.6 | 3.76 | 33.2 | 4.46 | 36.0 | 5.16 | 39.2 | 5.84 | 40.4 | 5.98 | 42.0 | 6.12 | 43.2 | 6.24 |
| | | 337.5 | 30.6 | 3.64 | 33.2 | 4.34 | 36.0 | 5.06 | 39.2 | 5.72 | 40.4 | 5.86 | 42.0 | 6.02 | 43.2 | 6.06 |
| | | 405.0 | 30.6 | 3.58 | 33.2 | 4.28 | 36.0 | 5.00 | 39.2 | 5.66 | 40.4 | 5.82 | 42.0 | 5.96 | 43.2 | 5.96 |
| | 35 | 108.0 | 30.6 | 4.62 | 33.2 | 5.36 | 36.0 | 6.26 | 39.2 | 7.02 | 40.4 | 7.22 | 42.0 | 7.40 | 43.2 | 7.52 |
| | | 135.0 | 30.6 | 4.54 | 33.2 | 5.28 | 36.0 | 6.16 | 39.2 | 6.90 | 40.4 | 7.10 | 42.0 | 7.28 | 43.2 | 7.40 |
| | | 270.0 | 30.6 | 4.16 | 33.2 | 4.94 | 36.0 | 5.76 | 39.2 | 6.46 | 40.4 | 6.62 | 42.0 | 6.80 | 43.2 | 6.90 |
| | | 337.5 | 30.6 | 4.04 | 33.2 | 4.82 | 36.0 | 5.64 | 39.2 | 6.36 | 40.4 | 6.50 | 42.0 | 6.68 | 43.2 | 6.72 |
| | | 405.0 | 30.6 | 4.00 | 33.2 | 4.78 | 36.0 | 5.58 | 39.2 | 6.30 | 40.4 | 6.44 | 42.0 | 6.62 | 43.2 | 6.62 |
| | 40 | 108.0 | 30.6 | 5.46 | 33.2 | 6.34 | 36.0 | 7.40 | 39.2 | 8.34 | 40.4 | 8.54 | 42.0 | 8.76 | 43.2 | 8.90 |
| | | 135.0 | 30.6 | 5.34 | 33.2 | 6.24 | 36.0 | 7.28 | 39.2 | 8.20 | 40.4 | 8.40 | 42.0 | 8.62 | 43.2 | 8.76 |
| | | 270.0 | 30.6 | 4.94 | 33.2 | 5.84 | 36.0 | 6.80 | 39.2 | 7.66 | 40.4 | 7.84 | 42.0 | 8.06 | 43.2 | 8.20 |
| | | 337.5 | 30.6 | 4.80 | 33.2 | 5.72 | 36.0 | 6.68 | 39.2 | 7.50 | 40.4 | 7.68 | 42.0 | 7.92 | 43.2 | 7.98 |
| | | 405.0 | 30.6 | 4.72 | 33.2 | 5.66 | 36.0 | 6.62 | 39.2 | 7.42 | 40.4 | 7.62 | 42.0 | 7.84 | 43.2 | 7.88 |
| | 45 | 108.0 | 30.6 | 6.28 | 33.2 | 7.32 | 36.0 | 8.54 | 39.2 | 9.68 | 40.4 | 9.86 | 42.0 | 10.12 | 43.2 | 10.30 |
| | | 135.0 | 30.6 | 6.16 | 33.2 | 7.20 | 36.0 | 8.40 | 39.2 | 9.50 | 40.4 | 9.70 | 42.0 | 9.96 | 43.2 | 10.14 |
| | | 270.0 | 30.6 | 5.72 | 33.2 | 6.72 | 36.0 | 7.84 | 39.2 | 8.84 | 40.4 | 9.06 | 42.0 | 9.32 | 43.2 | 9.50 |
| | | 337.5 | 30.6 | 5.54 | 33.2 | 6.62 | 36.0 | 7.72 | 39.2 | 8.66 | 40.4 | 8.88 | 42.0 | 9.14 | 43.2 | 9.24 |
| | | 405.0 | 30.6 | 5.44 | 33.2 | 6.56 | 36.0 | 7.66 | 39.2 | 8.56 | 40.4 | 8.78 | 42.0 | 9.04 | 43.2 | 9.12 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN300BAS4

**Cooling Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 115.6 | 78.0 | 5.87 | 84.5 | 6.87 | 92.2 | 8.01 | 100.1 | 9.02 | 102.9 | 9.28 | 107.1 | 9.45 | 110.0 | 9.53 |
| | | 144.5 | 78.0 | 5.76 | 84.5 | 6.77 | 92.2 | 7.88 | 100.1 | 8.88 | 102.9 | 9.11 | 107.1 | 9.30 | 110.0 | 9.41 |
| | | 289.0 | 78.0 | 5.35 | 84.5 | 6.34 | 92.2 | 7.39 | 100.1 | 8.31 | 102.9 | 8.46 | 107.1 | 8.72 | 110.0 | 8.92 |
| | | 361.3 | 78.0 | 5.19 | 84.5 | 6.19 | 92.2 | 7.22 | 100.1 | 8.11 | 102.9 | 8.34 | 107.1 | 8.53 | 110.0 | 8.68 |
| | | 433.5 | 78.0 | 5.12 | 84.5 | 6.11 | 92.2 | 7.15 | 100.1 | 8.01 | 102.9 | 8.29 | 107.1 | 8.44 | 110.0 | 8.57 |
| | 15 | 115.6 | 76.7 | 7.75 | 83.2 | 9.01 | 90.6 | 10.51 | 98.5 | 11.84 | 101.4 | 12.13 | 105.4 | 12.40 | 108.2 | 12.59 |
| | | 144.5 | 76.7 | 7.60 | 83.2 | 8.87 | 90.6 | 10.34 | 98.5 | 11.65 | 101.4 | 11.93 | 105.4 | 12.21 | 108.2 | 12.41 |
| | | 289.0 | 76.7 | 7.00 | 83.2 | 8.31 | 90.6 | 9.66 | 98.5 | 10.90 | 101.4 | 11.14 | 105.4 | 11.46 | 108.2 | 11.69 |
| | | 361.3 | 76.7 | 6.81 | 83.2 | 8.12 | 90.6 | 9.47 | 98.5 | 10.66 | 101.4 | 10.94 | 105.4 | 11.22 | 108.2 | 11.42 |
| | | 433.5 | 76.7 | 6.70 | 83.2 | 8.01 | 90.6 | 9.36 | 98.5 | 10.54 | 101.4 | 10.84 | 105.4 | 11.10 | 108.2 | 11.27 |
| | 20 | 115.6 | 75.7 | 9.42 | 82.0 | 10.91 | 89.3 | 12.74 | 97.1 | 14.35 | 100.0 | 14.67 | 103.9 | 15.03 | 106.7 | 15.31 |
| | | 144.5 | 75.7 | 9.23 | 82.0 | 10.74 | 89.3 | 12.53 | 97.1 | 14.12 | 100.0 | 14.44 | 103.9 | 14.80 | 106.7 | 15.08 |
| | | 289.0 | 75.7 | 8.48 | 82.0 | 10.06 | 89.3 | 11.69 | 97.1 | 13.20 | 100.0 | 13.52 | 103.9 | 13.88 | 106.7 | 14.16 |
| | | 361.3 | 75.7 | 8.23 | 82.0 | 9.83 | 89.3 | 11.46 | 97.1 | 12.92 | 100.0 | 13.24 | 103.9 | 13.60 | 106.7 | 13.84 |
| | | 433.5 | 75.7 | 8.12 | 82.0 | 9.70 | 89.3 | 11.33 | 97.1 | 12.79 | 100.0 | 13.11 | 103.9 | 13.47 | 106.7 | 13.68 |
| | 25 | 115.6 | 75.7 | 11.61 | 82.0 | 13.45 | 89.3 | 15.68 | 97.1 | 17.67 | 100.0 | 18.10 | 103.9 | 18.55 | 106.7 | 18.85 |
| | | 144.5 | 75.7 | 11.37 | 82.0 | 13.24 | 89.3 | 15.43 | 97.1 | 17.38 | 100.0 | 17.82 | 103.9 | 18.25 | 106.7 | 18.57 |
| | | 289.0 | 75.7 | 10.46 | 82.0 | 12.41 | 89.3 | 14.44 | 97.1 | 16.26 | 100.0 | 16.66 | 103.9 | 17.10 | 106.7 | 17.46 |
| | | 361.3 | 75.7 | 10.18 | 82.0 | 12.13 | 89.3 | 14.16 | 97.1 | 15.95 | 100.0 | 16.35 | 103.9 | 16.79 | 106.7 | 17.07 |
| | | 433.5 | 75.7 | 10.04 | 82.0 | 11.99 | 89.3 | 14.02 | 97.1 | 15.79 | 100.0 | 16.19 | 103.9 | 16.62 | 106.7 | 16.86 |
| | 30 | 115.6 | 75.7 | 13.92 | 82.0 | 16.17 | 89.3 | 18.83 | 97.1 | 21.22 | 100.0 | 21.70 | 103.9 | 22.27 | 106.7 | 22.60 |
| | | 144.5 | 75.7 | 13.64 | 82.0 | 15.91 | 89.3 | 18.53 | 97.1 | 20.88 | 100.0 | 21.36 | 103.9 | 21.91 | 106.7 | 22.27 |
| | | 289.0 | 75.7 | 12.53 | 82.0 | 14.87 | 89.3 | 17.35 | 97.1 | 19.53 | 100.0 | 20.01 | 103.9 | 20.52 | 106.7 | 20.96 |
| | | 361.3 | 75.7 | 12.21 | 82.0 | 14.56 | 89.3 | 16.98 | 97.1 | 19.13 | 100.0 | 19.65 | 103.9 | 20.13 | 106.7 | 20.48 |
| | | 433.5 | 75.7 | 12.06 | 82.0 | 14.40 | 89.3 | 16.81 | 97.1 | 18.93 | 100.0 | 19.47 | 103.9 | 19.92 | 106.7 | 20.24 |
| | 35 | 115.6 | 68.1 | 14.08 | 73.7 | 16.38 | 80.4 | 19.04 | 87.4 | 21.47 | 90.0 | 21.94 | 93.4 | 22.51 | 96.0 | 22.90 |
| | | 144.5 | 68.1 | 13.80 | 73.7 | 16.11 | 80.4 | 18.74 | 87.4 | 21.12 | 90.0 | 21.59 | 93.4 | 22.15 | 96.0 | 22.55 |
| | | 289.0 | 68.1 | 12.68 | 73.7 | 15.04 | 80.4 | 17.54 | 87.4 | 19.73 | 90.0 | 20.24 | 93.4 | 20.76 | 96.0 | 21.16 |
| | | 361.3 | 68.1 | 12.33 | 73.7 | 14.72 | 80.4 | 17.18 | 87.4 | 19.33 | 90.0 | 19.85 | 93.4 | 20.37 | 96.0 | 20.72 |
| | | 433.5 | 68.1 | 12.15 | 73.7 | 14.56 | 80.4 | 17.01 | 87.4 | 19.13 | 90.0 | 19.65 | 93.4 | 20.16 | 96.0 | 20.50 |
| | 40 | 115.6 | 60.6 | 14.86 | 65.6 | 17.26 | 71.4 | 20.09 | 77.6 | 22.64 | 79.9 | 23.16 | 83.1 | 23.71 | 85.4 | 24.14 |
| | | 144.5 | 60.6 | 14.56 | 65.6 | 16.98 | 71.4 | 19.77 | 77.6 | 22.27 | 79.9 | 22.79 | 83.1 | 23.35 | 85.4 | 23.78 |
| | | 289.0 | 60.6 | 13.36 | 65.6 | 15.87 | 71.4 | 18.49 | 77.6 | 20.80 | 79.9 | 21.32 | 83.1 | 21.91 | 85.4 | 22.36 |
| | | 361.3 | 60.6 | 13.00 | 65.6 | 15.51 | 71.4 | 18.10 | 77.6 | 20.41 | 79.9 | 20.92 | 83.1 | 21.48 | 85.4 | 21.83 |
| | | 433.5 | 60.6 | 12.83 | 65.6 | 15.33 | 71.4 | 17.90 | 77.6 | 20.20 | 79.9 | 20.72 | 83.1 | 21.26 | 85.4 | 21.57 |
| | 45 | 115.6 | 52.9 | 15.64 | 57.4 | 18.15 | 62.4 | 21.14 | 67.8 | 23.82 | 69.9 | 24.38 | 72.7 | 24.91 | 74.8 | 25.39 |
| | | 144.5 | 52.9 | 15.31 | 57.4 | 17.86 | 62.4 | 20.80 | 67.8 | 23.43 | 69.9 | 23.99 | 72.7 | 24.54 | 74.8 | 25.02 |
| | | 289.0 | 52.9 | 14.04 | 57.4 | 16.71 | 62.4 | 19.45 | 67.8 | 21.87 | 69.9 | 22.39 | 72.7 | 23.07 | 74.8 | 23.54 |
| | | 361.3 | 52.9 | 13.68 | 57.4 | 16.30 | 62.4 | 19.02 | 67.8 | 21.48 | 69.9 | 22.00 | 72.7 | 22.59 | 74.8 | 22.95 |
| | | 433.5 | 52.9 | 13.50 | 57.4 | 16.11 | 62.4 | 18.79 | 67.8 | 21.27 | 69.9 | 21.80 | 72.7 | 22.36 | 74.8 | 22.66 |
| 120 | 10 | 115.6 | 73.8 | 5.61 | 80.0 | 6.47 | 87.0 | 7.62 | 94.7 | 8.54 | 97.7 | 8.80 | 101.4 | 8.98 | 104.2 | 9.14 |
| | | 144.5 | 73.8 | 5.49 | 80.0 | 6.37 | 87.0 | 7.49 | 94.7 | 8.40 | 97.7 | 8.64 | 101.4 | 8.83 | 104.2 | 8.98 |
| | | 289.0 | 73.8 | 5.03 | 80.0 | 5.95 | 87.0 | 6.94 | 94.7 | 7.87 | 97.7 | 8.02 | 101.4 | 8.25 | 104.2 | 8.36 |
| | | 361.3 | 73.8 | 4.95 | 80.0 | 5.83 | 87.0 | 6.88 | 94.7 | 7.71 | 97.7 | 7.86 | 101.4 | 8.10 | 104.2 | 8.21 |
| | | 433.5 | 73.8 | 4.92 | 80.0 | 5.78 | 87.0 | 6.84 | 94.7 | 7.64 | 97.7 | 7.79 | 101.4 | 8.03 | 104.2 | 8.14 |
| | 15 | 115.6 | 73.1 | 7.43 | 79.1 | 8.61 | 86.1 | 10.07 | 93.7 | 11.31 | 96.5 | 11.61 | 100.2 | 11.89 | 103.0 | 12.08 |
| | | 144.5 | 73.1 | 7.28 | 79.1 | 8.48 | 86.1 | 9.90 | 93.7 | 11.14 | 96.5 | 11.42 | 100.2 | 11.69 | 103.0 | 11.89 |
| | | 289.0 | 73.1 | 6.68 | 79.1 | 7.92 | 86.1 | 9.23 | 93.7 | 10.42 | 96.5 | 10.66 | 100.2 | 10.94 | 103.0 | 11.14 |
| | | 361.3 | 73.1 | 6.53 | 79.1 | 7.75 | 86.1 | 9.06 | 93.7 | 10.22 | 96.5 | 10.46 | 100.2 | 10.74 | 103.0 | 10.90 |
| | | 433.5 | 73.1 | 6.45 | 79.1 | 7.67 | 86.1 | 8.99 | 93.7 | 10.13 | 96.5 | 10.36 | 100.2 | 10.64 | 103.0 | 10.78 |
| | 20 | 115.6 | 72.4 | 9.06 | 78.3 | 10.51 | 85.3 | 12.25 | 92.8 | 13.78 | 95.4 | 14.10 | 99.2 | 14.47 | 102.0 | 14.70 |
| | | 144.5 | 72.4 | 8.87 | 78.3 | 10.34 | 85.3 | 12.05 | 92.8 | 13.56 | 95.4 | 13.88 | 99.2 | 14.24 | 102.0 | 14.48 |
| | | 289.0 | 72.4 | 8.16 | 78.3 | 9.66 | 85.3 | 11.25 | 92.8 | 12.68 | 95.4 | 13.00 | 99.2 | 13.32 | 102.0 | 13.60 |
| | | 361.3 | 72.4 | 7.92 | 78.3 | 9.47 | 85.3 | 11.01 | 92.8 | 12.45 | 95.4 | 12.77 | 99.2 | 13.09 | 102.0 | 13.28 |
| | | 433.5 | 72.4 | 7.80 | 78.3 | 9.36 | 85.3 | 10.90 | 92.8 | 12.33 | 95.4 | 12.64 | 99.2 | 12.96 | 102.0 | 13.13 |
| | 25 | 115.6 | 72.4 | 11.12 | 78.3 | 12.89 | 85.3 | 15.04 | 92.8 | 16.94 | 95.4 | 17.35 | 99.2 | 17.78 | 102.0 | 18.10 |
| | | 144.5 | 72.4 | 10.90 | 78.3 | 12.68 | 85.3 | 14.80 | 92.8 | 16.66 | 95.4 | 17.07 | 99.2 | 17.50 | 102.0 | 17.82 |
| | | 289.0 | 72.4 | 10.02 | 78.3 | 11.89 | 85.3 | 13.84 | 92.8 | 15.59 | 95.4 | 15.95 | 99.2 | 16.39 | 102.0 | 16.71 |
| | | 361.3 | 72.4 | 9.75 | 78.3 | 11.61 | 85.3 | 13.56 | 92.8 | 15.27 | 95.4 | 15.67 | 99.2 | 16.07 | 102.0 | 16.30 |
| | | 433.5 | 72.4 | 9.60 | 78.3 | 11.48 | 85.3 | 13.43 | 92.8 | 15.12 | 95.4 | 15.53 | 99.2 | 15.91 | 102.0 | 16.11 |
| | 30 | 115.6 | 72.4 | 13.43 | 78.3 | 15.60 | 85.3 | 18.19 | 92.8 | 20.50 | 95.4 | 20.99 | 99.2 | 21.50 | 102.0 | 21.85 |
| | | 144.5 | 72.4 | 13.17 | 78.3 | 15.35 | 85.3 | 17.90 | 92.8 | 20.16 | 95.4 | 20.65 | 99.2 | 21.16 | 102.0 | 21.52 |
| | | 289.0 | 72.4 | 12.13 | 78.3 | 14.35 | 85.3 | 16.75 | 92.8 | 18.85 | 95.4 | 19.29 | 99.2 | 19.81 | 102.0 | 20.20 |
| | | 361.3 | 72.4 | 11.78 | 78.3 | 14.04 | 85.3 | 16.39 | 92.8 | 18.46 | 95.4 | 18.93 | 99.2 | 19.45 | 102.0 | 19.73 |
| | | 433.5 | 72.4 | 11.59 | 78.3 | 13.88 | 85.3 | 16.21 | 92.8 | 18.25 | 95.4 | 18.76 | 99.2 | 19.27 | 102.0 | 19.49 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 115.6 | 66.2 | 13.75 | 71.6 | 16.01 | 78.0 | 18.64 | 84.8 | 20.97 | 87.4 | 21.50 | 90.8 | 22.02 | 93.4 | 22.43 |
| | | 144.5 | 66.2 | 13.48 | 71.6 | 15.75 | 78.0 | 18.34 | 84.8 | 20.65 | 87.4 | 21.16 | 90.8 | 21.68 | 93.4 | 22.08 |
| | | 289.0 | 66.2 | 12.41 | 71.6 | 14.72 | 78.0 | 17.14 | 84.8 | 19.33 | 87.4 | 19.81 | 90.8 | 20.33 | 93.4 | 20.69 |
| | | 361.3 | 66.2 | 12.09 | 71.6 | 14.40 | 78.0 | 16.79 | 84.8 | 18.93 | 87.4 | 19.41 | 90.8 | 19.92 | 93.4 | 20.20 |
| | | 433.5 | 66.2 | 11.93 | 71.6 | 14.24 | 78.0 | 16.60 | 84.8 | 18.74 | 87.4 | 19.21 | 90.8 | 19.73 | 93.4 | 19.97 |
| | 40 | 115.6 | 60.0 | 14.80 | 65.0 | 17.22 | 70.8 | 20.05 | 77.0 | 22.60 | 79.2 | 23.12 | 82.3 | 23.67 | 84.7 | 24.12 |
| | | 144.5 | 60.0 | 14.52 | 65.0 | 16.94 | 70.8 | 19.73 | 77.0 | 22.23 | 79.2 | 22.75 | 82.3 | 23.31 | 84.7 | 23.75 |
| | | 289.0 | 60.0 | 13.36 | 65.0 | 15.83 | 70.8 | 18.46 | 77.0 | 20.80 | 79.2 | 21.27 | 82.3 | 21.83 | 84.7 | 22.27 |
| | | 361.3 | 60.0 | 13.00 | 65.0 | 15.51 | 70.8 | 18.10 | 77.0 | 20.37 | 79.2 | 20.88 | 82.3 | 21.44 | 84.7 | 21.76 |
| | | 433.5 | 60.0 | 12.83 | 65.0 | 15.36 | 70.8 | 17.92 | 77.0 | 20.15 | 79.2 | 20.69 | 82.3 | 21.24 | 84.7 | 21.50 |
| | 45 | 115.6 | 54.0 | 15.87 | 58.3 | 18.44 | 63.6 | 21.46 | 69.2 | 24.22 | 71.1 | 24.74 | 73.9 | 25.34 | 76.1 | 25.81 |
| | | 144.5 | 54.0 | 15.55 | 58.3 | 18.14 | 63.6 | 21.12 | 69.2 | 23.82 | 71.1 | 24.34 | 73.9 | 24.94 | 76.1 | 25.42 |
| | | 289.0 | 54.0 | 14.31 | 58.3 | 16.94 | 63.6 | 19.77 | 69.2 | 22.27 | 71.1 | 22.75 | 73.9 | 23.35 | 76.1 | 23.86 |
| | | 361.3 | 54.0 | 13.92 | 58.3 | 16.62 | 63.6 | 19.41 | 69.2 | 21.80 | 71.1 | 22.36 | 73.9 | 22.95 | 76.1 | 23.31 |
| | | 433.5 | 54.0 | 13.73 | 58.3 | 16.47 | 63.6 | 19.23 | 69.2 | 21.55 | 71.1 | 22.15 | 73.9 | 22.75 | 76.1 | 23.03 |
| 110 | 10 | 115.6 | 69.7 | 5.32 | 75.4 | 6.17 | 82.1 | 7.11 | 89.3 | 8.06 | 92.0 | 8.20 | 95.8 | 8.46 | 98.2 | 8.57 |
| | | 144.5 | 69.7 | 5.21 | 75.4 | 6.06 | 82.1 | 7.01 | 89.3 | 7.93 | 92.0 | 8.08 | 95.8 | 8.31 | 98.2 | 8.42 |
| | | 289.0 | 69.7 | 4.80 | 75.4 | 5.63 | 82.1 | 6.59 | 89.3 | 7.44 | 92.0 | 7.63 | 95.8 | 7.73 | 98.2 | 7.89 |
| | | 361.3 | 69.7 | 4.64 | 75.4 | 5.52 | 82.1 | 6.44 | 89.3 | 7.28 | 92.0 | 7.43 | 95.8 | 7.58 | 98.2 | 7.78 |
| | | 433.5 | 69.7 | 4.56 | 75.4 | 5.46 | 82.1 | 6.36 | 89.3 | 7.20 | 92.0 | 7.33 | 95.8 | 7.50 | 98.2 | 7.73 |
| | 15 | 115.6 | 69.3 | 7.11 | 75.0 | 8.25 | 81.7 | 9.58 | 88.8 | 10.79 | 91.5 | 11.03 | 95.1 | 11.31 | 97.7 | 11.52 |
| | | 144.5 | 69.3 | 6.96 | 75.0 | 8.12 | 81.7 | 9.43 | 88.8 | 10.62 | 91.5 | 10.86 | 95.1 | 11.14 | 97.7 | 11.33 |
| | | 289.0 | 69.3 | 6.40 | 75.0 | 7.56 | 81.7 | 8.83 | 88.8 | 9.94 | 91.5 | 10.18 | 95.1 | 10.42 | 97.7 | 10.62 |
| | | 361.3 | 69.3 | 6.21 | 75.0 | 7.39 | 81.7 | 8.63 | 88.8 | 9.75 | 91.5 | 9.98 | 95.1 | 10.22 | 97.7 | 10.38 |
| | | 433.5 | 69.3 | 6.11 | 75.0 | 7.32 | 81.7 | 8.53 | 88.8 | 9.64 | 91.5 | 9.88 | 95.1 | 10.13 | 97.7 | 10.26 |
| | 20 | 115.6 | 69.0 | 8.68 | 74.6 | 10.11 | 81.3 | 11.76 | 88.3 | 13.22 | 91.0 | 13.54 | 94.5 | 13.86 | 97.2 | 14.14 |
| | | 144.5 | 69.0 | 8.51 | 74.6 | 9.94 | 81.3 | 11.57 | 88.3 | 13.00 | 91.0 | 13.32 | 94.5 | 13.64 | 97.2 | 13.92 |
| | | 289.0 | 69.0 | 7.84 | 74.6 | 9.27 | 81.3 | 10.82 | 88.3 | 12.17 | 91.0 | 12.45 | 94.5 | 12.81 | 97.2 | 13.05 |
| | | 361.3 | 69.0 | 7.60 | 74.6 | 9.06 | 81.3 | 10.58 | 88.3 | 11.93 | 91.0 | 12.25 | 94.5 | 12.57 | 97.2 | 12.68 |
| | | 433.5 | 69.0 | 7.48 | 74.6 | 8.97 | 81.3 | 10.46 | 88.3 | 11.82 | 91.0 | 12.15 | 94.5 | 12.45 | 97.2 | 12.51 |
| | 25 | 115.6 | 69.0 | 10.63 | 74.6 | 12.38 | 81.3 | 14.39 | 88.3 | 16.21 | 91.0 | 16.56 | 94.5 | 16.97 | 97.2 | 17.29 |
| | | 144.5 | 69.0 | 10.42 | 74.6 | 12.17 | 81.3 | 14.16 | 88.3 | 15.95 | 91.0 | 16.30 | 94.5 | 16.71 | 97.2 | 17.03 |
| | | 289.0 | 69.0 | 9.58 | 74.6 | 11.37 | 81.3 | 13.24 | 88.3 | 14.91 | 91.0 | 15.27 | 94.5 | 15.67 | 97.2 | 15.95 |
| | | 361.3 | 69.0 | 9.30 | 74.6 | 11.14 | 81.3 | 12.96 | 88.3 | 14.59 | 91.0 | 14.99 | 94.5 | 15.35 | 97.2 | 15.55 |
| | | 433.5 | 69.0 | 9.17 | 74.6 | 11.01 | 81.3 | 12.83 | 88.3 | 14.44 | 91.0 | 14.86 | 94.5 | 15.19 | 97.2 | 15.36 |
| | 30 | 115.6 | 69.0 | 12.94 | 74.6 | 15.08 | 81.3 | 17.54 | 88.3 | 19.77 | 91.0 | 20.20 | 94.5 | 20.73 | 97.2 | 21.10 |
| | | 144.5 | 69.0 | 12.68 | 74.6 | 14.84 | 81.3 | 17.26 | 88.3 | 19.45 | 91.0 | 19.88 | 94.5 | 20.41 | 97.2 | 20.76 |
| | | 289.0 | 69.0 | 11.69 | 74.6 | 13.84 | 81.3 | 16.15 | 88.3 | 18.18 | 91.0 | 18.61 | 94.5 | 19.09 | 97.2 | 19.45 |
| | | 361.3 | 69.0 | 11.37 | 74.6 | 13.56 | 81.3 | 15.79 | 88.3 | 17.82 | 91.0 | 18.25 | 94.5 | 18.74 | 97.2 | 18.97 |
| | | 433.5 | 69.0 | 11.22 | 74.6 | 13.43 | 81.3 | 15.61 | 88.3 | 17.64 | 91.0 | 18.08 | 94.5 | 18.55 | 97.2 | 18.74 |
| | 35 | 115.6 | 64.1 | 13.47 | 69.5 | 15.64 | 75.7 | 18.23 | 82.3 | 20.54 | 84.8 | 21.01 | 88.1 | 21.54 | 90.5 | 21.95 |
| | | 144.5 | 64.1 | 13.20 | 69.5 | 15.40 | 75.7 | 17.93 | 82.3 | 20.20 | 84.8 | 20.69 | 88.1 | 21.20 | 90.5 | 21.59 |
| | | 289.0 | 64.1 | 12.13 | 69.5 | 14.40 | 75.7 | 16.79 | 82.3 | 18.89 | 84.8 | 19.37 | 88.1 | 19.85 | 90.5 | 20.20 |
| | | 361.3 | 64.1 | 11.81 | 69.5 | 14.08 | 75.7 | 16.43 | 82.3 | 18.53 | 84.8 | 18.97 | 88.1 | 19.49 | 90.5 | 19.73 |
| | | 433.5 | 64.1 | 11.65 | 69.5 | 13.92 | 75.7 | 16.25 | 82.3 | 18.36 | 84.8 | 18.77 | 88.1 | 19.32 | 90.5 | 19.49 |
| | 40 | 115.6 | 59.5 | 14.82 | 64.4 | 17.18 | 70.3 | 20.05 | 76.3 | 22.55 | 78.5 | 23.09 | 81.7 | 23.64 | 83.8 | 24.08 |
| | | 144.5 | 59.5 | 14.52 | 64.4 | 16.90 | 70.3 | 19.73 | 76.3 | 22.19 | 78.5 | 22.71 | 81.7 | 23.26 | 83.8 | 23.71 |
| | | 289.0 | 59.5 | 13.32 | 64.4 | 15.83 | 70.3 | 18.42 | 76.3 | 20.76 | 78.5 | 21.24 | 81.7 | 21.80 | 83.8 | 22.23 |
| | | 361.3 | 59.5 | 12.96 | 64.4 | 15.47 | 70.3 | 18.06 | 76.3 | 20.37 | 78.5 | 20.84 | 81.7 | 21.40 | 83.8 | 21.68 |
| | | 433.5 | 59.5 | 12.79 | 64.4 | 15.29 | 70.3 | 17.88 | 76.3 | 20.16 | 78.5 | 20.65 | 81.7 | 21.20 | 83.8 | 21.40 |
| | 45 | 115.6 | 54.8 | 16.16 | 59.3 | 18.70 | 64.7 | 21.89 | 70.3 | 24.57 | 72.2 | 25.15 | 75.2 | 25.74 | 77.2 | 26.20 |
| | | 144.5 | 54.8 | 15.83 | 59.3 | 18.42 | 64.7 | 21.52 | 70.3 | 24.18 | 72.2 | 24.74 | 75.2 | 25.34 | 77.2 | 25.81 |
| | | 289.0 | 54.8 | 14.52 | 59.3 | 17.26 | 64.7 | 20.05 | 70.3 | 22.64 | 72.2 | 23.11 | 75.2 | 23.75 | 77.2 | 24.26 |
| | | 361.3 | 54.8 | 14.12 | 59.3 | 16.86 | 64.7 | 19.69 | 70.3 | 22.19 | 72.2 | 22.71 | 75.2 | 23.31 | 77.2 | 23.63 |
| | | 433.5 | 54.8 | 13.92 | 59.3 | 16.67 | 64.7 | 19.51 | 70.3 | 21.98 | 72.2 | 22.51 | 75.2 | 23.09 | 77.2 | 23.31 |
| 100 | 10 | 115.6 | 65.6 | 4.95 | 70.9 | 5.81 | 77.2 | 6.72 | 84.0 | 7.52 | 86.6 | 7.71 | 89.8 | 7.97 | 92.4 | 8.14 |
| | | 144.5 | 65.6 | 4.86 | 70.9 | 5.70 | 77.2 | 6.62 | 84.0 | 7.41 | 86.6 | 7.61 | 89.8 | 7.84 | 92.4 | 7.99 |
| | | 289.0 | 65.6 | 4.48 | 70.9 | 5.27 | 77.2 | 6.20 | 84.0 | 7.00 | 86.6 | 7.20 | 89.8 | 7.35 | 92.4 | 7.41 |
| | | 361.3 | 65.6 | 4.41 | 70.9 | 5.16 | 77.2 | 6.08 | 84.0 | 6.81 | 86.6 | 7.00 | 89.8 | 7.20 | 92.4 | 7.31 |
| | | 433.5 | 65.6 | 4.37 | 70.9 | 5.10 | 77.2 | 6.02 | 84.0 | 6.71 | 86.6 | 6.90 | 89.8 | 7.11 | 92.4 | 7.26 |
| | 15 | 115.6 | 65.6 | 6.73 | 70.9 | 7.84 | 77.2 | 9.14 | 84.0 | 10.26 | 86.6 | 10.50 | 89.8 | 10.79 | 92.4 | 10.99 |
| | | 144.5 | 65.6 | 6.60 | 70.9 | 7.71 | 77.2 | 8.99 | 84.0 | 10.11 | 86.6 | 10.34 | 89.8 | 10.62 | 92.4 | 10.82 |
| | | 289.0 | 65.6 | 6.08 | 70.9 | 7.20 | 77.2 | 8.39 | 84.0 | 9.47 | 86.6 | 9.70 | 89.8 | 9.94 | 92.4 | 10.11 |
| | | 361.3 | 65.6 | 5.93 | 70.9 | 7.04 | 77.2 | 8.23 | 84.0 | 9.27 | 86.6 | 9.51 | 89.8 | 9.75 | 92.4 | 9.86 |
| | | 433.5 | 65.6 | 5.85 | 70.9 | 6.96 | 77.2 | 8.16 | 84.0 | 9.17 | 86.6 | 9.41 | 89.8 | 9.64 | 92.4 | 9.75 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 115.6 | 65.6 | 8.31 | 70.9 | 9.66 | 77.2 | 11.29 | 84.0 | 12.70 | 86.6 | 12.98 | 89.8 | 13.30 | 92.4 | 13.54 |
| | | 144.5 | 65.6 | 8.16 | 70.9 | 9.51 | 77.2 | 11.10 | 84.0 | 12.49 | 86.6 | 12.77 | 89.8 | 13.09 | 92.4 | 13.32 |
| | | 289.0 | 65.6 | 7.52 | 70.9 | 8.91 | 77.2 | 10.34 | 84.0 | 11.65 | 86.6 | 11.93 | 89.8 | 12.25 | 92.4 | 12.49 |
| | | 361.3 | 65.6 | 7.28 | 70.9 | 8.71 | 77.2 | 10.14 | 84.0 | 11.46 | 86.6 | 11.74 | 89.8 | 12.01 | 92.4 | 12.13 |
| | | 433.5 | 65.6 | 7.16 | 70.9 | 8.61 | 77.2 | 10.04 | 84.0 | 11.35 | 86.6 | 11.63 | 89.8 | 11.89 | 92.4 | 11.95 |
| | 25 | 115.6 | 65.6 | 10.15 | 70.9 | 11.80 | 77.2 | 13.75 | 84.0 | 15.49 | 86.6 | 15.85 | 89.8 | 16.20 | 92.4 | 16.54 |
| | | 144.5 | 65.6 | 9.94 | 70.9 | 11.61 | 77.2 | 13.52 | 84.0 | 15.23 | 86.6 | 15.59 | 89.8 | 15.95 | 92.4 | 16.26 |
| | | 289.0 | 65.6 | 9.15 | 70.9 | 10.86 | 77.2 | 12.64 | 84.0 | 14.24 | 86.6 | 14.56 | 89.8 | 14.95 | 92.4 | 15.19 |
| | | 361.3 | 65.6 | 8.91 | 70.9 | 10.62 | 77.2 | 12.36 | 84.0 | 13.96 | 86.6 | 14.28 | 89.8 | 14.67 | 92.4 | 14.80 |
| | | 433.5 | 65.6 | 8.79 | 70.9 | 10.50 | 77.2 | 12.23 | 84.0 | 13.82 | 86.6 | 14.14 | 89.8 | 14.54 | 92.4 | 14.59 |
| | 30 | 115.6 | 65.6 | 12.50 | 70.9 | 14.52 | 77.2 | 16.90 | 84.0 | 19.04 | 86.6 | 19.49 | 89.8 | 19.97 | 92.4 | 20.33 |
| | | 144.5 | 65.6 | 12.25 | 70.9 | 14.28 | 77.2 | 16.62 | 84.0 | 18.74 | 86.6 | 19.17 | 89.8 | 19.65 | 92.4 | 20.01 |
| | | 289.0 | 65.6 | 11.25 | 70.9 | 13.32 | 77.2 | 15.55 | 84.0 | 17.50 | 86.6 | 17.90 | 89.8 | 18.38 | 92.4 | 18.70 |
| | | 361.3 | 65.6 | 10.94 | 70.9 | 13.05 | 77.2 | 15.23 | 84.0 | 17.14 | 86.6 | 17.58 | 89.8 | 18.02 | 92.4 | 18.21 |
| | | 433.5 | 65.6 | 10.78 | 70.9 | 12.91 | 77.2 | 15.08 | 84.0 | 16.96 | 86.6 | 17.42 | 89.8 | 17.84 | 92.4 | 17.98 |
| | 35 | 115.6 | 62.3 | 13.19 | 67.5 | 15.32 | 73.3 | 17.83 | 79.8 | 20.10 | 82.3 | 20.58 | 85.4 | 21.05 | 87.7 | 21.42 |
| | | 144.5 | 62.3 | 12.92 | 67.5 | 15.08 | 73.3 | 17.54 | 79.8 | 19.77 | 82.3 | 20.24 | 85.4 | 20.72 | 87.7 | 21.08 |
| | | 289.0 | 62.3 | 11.89 | 67.5 | 14.08 | 73.3 | 16.39 | 79.8 | 18.46 | 82.3 | 18.93 | 85.4 | 19.41 | 87.7 | 19.73 |
| | | 361.3 | 62.3 | 11.53 | 67.5 | 13.80 | 73.3 | 16.07 | 79.8 | 18.10 | 82.3 | 18.57 | 85.4 | 19.05 | 87.7 | 19.21 |
| | | 433.5 | 62.3 | 11.35 | 67.5 | 13.66 | 73.3 | 15.91 | 79.8 | 17.92 | 82.3 | 18.40 | 85.4 | 18.87 | 87.7 | 18.95 |
| | 40 | 115.6 | 58.9 | 14.76 | 63.8 | 17.18 | 69.5 | 20.01 | 75.6 | 22.51 | 77.8 | 23.09 | 80.8 | 23.65 | 83.2 | 24.05 |
| | | 144.5 | 58.9 | 14.48 | 63.8 | 16.90 | 69.5 | 19.69 | 75.6 | 22.15 | 77.8 | 22.71 | 80.8 | 23.26 | 83.2 | 23.67 |
| | | 289.0 | 58.9 | 13.32 | 63.8 | 15.79 | 69.5 | 18.42 | 75.6 | 20.72 | 77.8 | 21.20 | 80.8 | 21.76 | 83.2 | 22.15 |
| | | 361.3 | 58.9 | 12.96 | 63.8 | 15.47 | 69.5 | 18.02 | 75.6 | 20.33 | 77.8 | 20.84 | 80.8 | 21.36 | 83.2 | 21.55 |
| | | 433.5 | 58.9 | 12.79 | 63.8 | 15.31 | 69.5 | 17.82 | 75.6 | 20.13 | 77.8 | 20.67 | 80.8 | 21.16 | 83.2 | 21.26 |
| | 45 | 115.6 | 55.5 | 16.35 | 60.2 | 19.04 | 65.7 | 22.19 | 71.4 | 24.93 | 73.3 | 25.61 | 76.3 | 26.24 | 78.6 | 26.67 |
| | | 144.5 | 55.5 | 16.03 | 60.2 | 18.74 | 65.7 | 21.83 | 71.4 | 24.54 | 73.3 | 25.17 | 76.3 | 25.81 | 78.6 | 26.26 |
| | | 289.0 | 55.5 | 14.76 | 60.2 | 17.50 | 65.7 | 20.44 | 71.4 | 22.99 | 73.3 | 23.47 | 76.3 | 24.10 | 78.6 | 24.58 |
| | | 361.3 | 55.5 | 14.40 | 60.2 | 17.14 | 65.7 | 19.96 | 71.4 | 22.55 | 73.3 | 23.11 | 76.3 | 23.67 | 78.6 | 23.90 |
| | | 433.5 | 55.5 | 14.22 | 60.2 | 16.96 | 65.7 | 19.73 | 71.4 | 22.34 | 73.3 | 22.92 | 76.3 | 23.45 | 78.6 | 23.56 |
| 90 | 10 | 115.6 | 58.9 | 4.29 | 63.8 | 4.97 | 69.5 | 5.74 | 75.6 | 6.53 | 77.8 | 6.69 | 80.8 | 6.89 | 83.2 | 7.01 |
| | | 144.5 | 58.9 | 4.22 | 63.8 | 4.90 | 69.5 | 5.66 | 75.6 | 6.43 | 77.8 | 6.58 | 80.8 | 6.77 | 83.2 | 6.89 |
| | | 289.0 | 58.9 | 3.90 | 63.8 | 4.59 | 69.5 | 5.36 | 75.6 | 6.05 | 77.8 | 6.16 | 80.8 | 6.32 | 83.2 | 6.43 |
| | | 361.3 | 58.9 | 3.75 | 63.8 | 4.52 | 69.5 | 5.20 | 75.6 | 5.89 | 77.8 | 6.04 | 80.8 | 6.20 | 83.2 | 6.23 |
| | | 433.5 | 58.9 | 3.67 | 63.8 | 4.48 | 69.5 | 5.12 | 75.6 | 5.81 | 77.8 | 5.99 | 80.8 | 6.14 | 83.2 | 6.14 |
| | 15 | 115.6 | 58.9 | 5.80 | 63.8 | 6.75 | 69.5 | 7.84 | 75.6 | 8.85 | 77.8 | 9.04 | 80.8 | 9.30 | 83.2 | 9.46 |
| | | 144.5 | 58.9 | 5.69 | 63.8 | 6.64 | 69.5 | 7.71 | 75.6 | 8.71 | 77.8 | 8.91 | 80.8 | 9.15 | 83.2 | 9.30 |
| | | 289.0 | 58.9 | 5.25 | 63.8 | 6.21 | 69.5 | 7.24 | 75.6 | 8.16 | 77.8 | 8.35 | 80.8 | 8.55 | 83.2 | 8.71 |
| | | 361.3 | 58.9 | 5.09 | 63.8 | 6.08 | 69.5 | 7.08 | 75.6 | 7.99 | 77.8 | 8.20 | 80.8 | 8.39 | 83.2 | 8.48 |
| | | 433.5 | 58.9 | 5.01 | 63.8 | 6.02 | 69.5 | 7.00 | 75.6 | 7.92 | 77.8 | 8.12 | 80.8 | 8.31 | 83.2 | 8.35 |
| | 20 | 115.6 | 58.9 | 7.14 | 63.8 | 8.33 | 69.5 | 9.70 | 75.6 | 10.92 | 77.8 | 11.14 | 80.8 | 11.44 | 83.2 | 11.63 |
| | | 144.5 | 58.9 | 7.00 | 63.8 | 8.20 | 69.5 | 9.55 | 75.6 | 10.74 | 77.8 | 10.97 | 80.8 | 11.25 | 83.2 | 11.46 |
| | | 289.0 | 58.9 | 6.45 | 63.8 | 7.64 | 69.5 | 8.91 | 75.6 | 10.02 | 77.8 | 10.30 | 80.8 | 10.54 | 83.2 | 10.74 |
| | | 361.3 | 58.9 | 6.28 | 63.8 | 7.48 | 69.5 | 8.76 | 75.6 | 9.86 | 77.8 | 10.11 | 80.8 | 10.34 | 83.2 | 10.46 |
| | | 433.5 | 58.9 | 6.21 | 63.8 | 7.39 | 69.5 | 8.67 | 75.6 | 9.79 | 77.8 | 10.00 | 80.8 | 10.24 | 83.2 | 10.32 |
| | 25 | 115.6 | 58.9 | 8.72 | 63.8 | 10.15 | 69.5 | 11.80 | 75.6 | 13.30 | 77.8 | 13.62 | 80.8 | 13.94 | 83.2 | 14.23 |
| | | 144.5 | 58.9 | 8.55 | 63.8 | 9.98 | 69.5 | 11.61 | 75.6 | 13.09 | 77.8 | 13.41 | 80.8 | 13.73 | 83.2 | 14.00 |
| | | 289.0 | 58.9 | 7.88 | 63.8 | 9.34 | 69.5 | 10.86 | 75.6 | 12.25 | 77.8 | 12.53 | 80.8 | 12.85 | 83.2 | 13.09 |
| | | 361.3 | 58.9 | 7.64 | 63.8 | 9.15 | 69.5 | 10.66 | 75.6 | 12.01 | 77.8 | 12.29 | 80.8 | 12.61 | 83.2 | 12.77 |
| | | 433.5 | 58.9 | 7.52 | 63.8 | 9.04 | 69.5 | 10.56 | 75.6 | 11.89 | 77.8 | 12.17 | 80.8 | 12.49 | 83.2 | 12.61 |
| | 30 | 115.6 | 58.9 | 10.76 | 63.8 | 12.49 | 69.5 | 14.56 | 75.6 | 16.37 | 77.8 | 16.77 | 80.8 | 17.18 | 83.2 | 17.50 |
| | | 144.5 | 58.9 | 10.54 | 63.8 | 12.29 | 69.5 | 14.31 | 75.6 | 16.11 | 77.8 | 16.51 | 80.8 | 16.90 | 83.2 | 17.22 |
| | | 289.0 | 58.9 | 9.66 | 63.8 | 11.50 | 69.5 | 13.36 | 75.6 | 15.08 | 77.8 | 15.43 | 80.8 | 15.83 | 83.2 | 16.11 |
| | | 361.3 | 58.9 | 9.43 | 63.8 | 11.25 | 69.5 | 13.09 | 75.6 | 14.76 | 77.8 | 15.15 | 80.8 | 15.51 | 83.2 | 15.67 |
| | | 433.5 | 58.9 | 9.31 | 63.8 | 11.14 | 69.5 | 12.94 | 75.6 | 14.59 | 77.8 | 15.02 | 80.8 | 15.36 | 83.2 | 15.45 |
| | 35 | 115.6 | 57.3 | 11.61 | 62.1 | 13.45 | 67.7 | 15.68 | 73.5 | 17.67 | 75.7 | 18.07 | 78.6 | 18.51 | 80.8 | 18.87 |
| | | 144.5 | 57.3 | 11.37 | 62.1 | 13.24 | 67.7 | 15.43 | 73.5 | 17.38 | 75.7 | 17.78 | 78.6 | 18.21 | 80.8 | 18.57 |
| | | 289.0 | 57.3 | 10.46 | 62.1 | 12.41 | 67.7 | 14.44 | 73.5 | 16.26 | 75.7 | 16.62 | 78.6 | 17.07 | 80.8 | 17.38 |
| | | 361.3 | 57.3 | 10.14 | 62.1 | 12.13 | 67.7 | 14.12 | 73.5 | 15.95 | 75.7 | 16.35 | 78.6 | 16.75 | 80.8 | 16.90 |
| | | 433.5 | 57.3 | 9.98 | 62.1 | 11.99 | 67.7 | 13.96 | 73.5 | 15.79 | 75.7 | 16.21 | 78.6 | 16.58 | 80.8 | 16.67 |
| | 40 | 115.6 | 55.7 | 13.30 | 60.3 | 15.49 | 65.7 | 18.03 | 71.4 | 20.30 | 73.5 | 20.78 | 76.5 | 21.30 | 78.5 | 21.66 |
| | | 144.5 | 55.7 | 13.05 | 60.3 | 15.23 | 65.7 | 17.74 | 71.4 | 19.96 | 73.5 | 20.44 | 76.5 | 20.96 | 78.5 | 21.32 |
| | | 289.0 | 55.7 | 12.01 | 60.3 | 14.24 | 65.7 | 16.58 | 71.4 | 18.65 | 73.5 | 19.13 | 76.5 | 19.60 | 78.5 | 19.96 |
| | | 361.3 | 55.7 | 11.65 | 60.3 | 13.92 | 65.7 | 16.23 | 71.4 | 18.29 | 73.5 | 18.77 | 76.5 | 19.25 | 78.5 | 19.45 |
| | | 433.5 | 55.7 | 11.48 | 60.3 | 13.76 | 65.7 | 16.05 | 71.4 | 18.12 | 73.5 | 18.59 | 76.5 | 19.07 | 78.5 | 19.19 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 115.6 | 54.0 | 15.01 | 58.5 | 17.52 | 63.7 | 20.37 | 69.3 | 22.94 | 71.3 | 23.48 | 74.2 | 24.10 | 76.2 | 24.44 |
| | | 144.5 | 54.0 | 14.72 | 58.5 | 17.22 | 63.7 | 20.05 | 69.3 | 22.55 | 71.3 | 23.11 | 74.2 | 23.71 | 76.2 | 24.06 |
| | | 289.0 | 54.0 | 13.56 | 58.5 | 16.07 | 63.7 | 18.74 | 69.3 | 21.04 | 71.3 | 21.64 | 74.2 | 22.15 | 76.2 | 22.55 |
| | | 361.3 | 54.0 | 13.17 | 58.5 | 15.71 | 63.7 | 18.34 | 69.3 | 20.65 | 71.3 | 21.20 | 74.2 | 21.76 | 76.2 | 22.00 |
| | | 433.5 | 54.0 | 12.96 | 58.5 | 15.53 | 63.7 | 18.14 | 69.3 | 20.44 | 71.3 | 20.99 | 74.2 | 21.55 | 76.2 | 21.72 |
| 80 | 10 | 115.6 | 52.3 | 3.60 | 56.8 | 4.15 | 61.9 | 4.87 | 67.2 | 5.53 | 69.2 | 5.59 | 71.8 | 5.81 | 73.9 | 5.83 |
| | | 144.5 | 52.3 | 3.52 | 56.8 | 4.09 | 61.9 | 4.78 | 67.2 | 5.44 | 69.2 | 5.51 | 71.8 | 5.70 | 73.9 | 5.74 |
| | | 289.0 | 52.3 | 3.21 | 56.8 | 3.87 | 61.9 | 4.43 | 67.2 | 5.05 | 69.2 | 5.16 | 71.8 | 5.27 | 73.9 | 5.35 |
| | | 361.3 | 52.3 | 3.13 | 56.8 | 3.75 | 61.9 | 4.36 | 67.2 | 4.89 | 69.2 | 5.01 | 71.8 | 5.21 | 73.9 | 5.29 |
| | | 433.5 | 52.3 | 3.10 | 56.8 | 3.69 | 61.9 | 4.32 | 67.2 | 4.82 | 69.2 | 4.93 | 71.8 | 5.17 | 73.9 | 5.25 |
| | 15 | 115.6 | 52.3 | 4.88 | 56.8 | 5.66 | 61.9 | 6.60 | 67.2 | 7.44 | 69.2 | 7.60 | 71.8 | 7.80 | 73.9 | 7.93 |
| | | 144.5 | 52.3 | 4.77 | 56.8 | 5.57 | 61.9 | 6.49 | 67.2 | 7.32 | 69.2 | 7.48 | 71.8 | 7.67 | 73.9 | 7.80 |
| | | 289.0 | 52.3 | 4.37 | 56.8 | 5.21 | 61.9 | 6.04 | 67.2 | 6.84 | 69.2 | 7.00 | 71.8 | 7.16 | 73.9 | 7.28 |
| | | 361.3 | 52.3 | 4.26 | 56.8 | 5.09 | 61.9 | 5.93 | 67.2 | 6.68 | 69.2 | 6.84 | 71.8 | 7.04 | 73.9 | 7.12 |
| | | 433.5 | 52.3 | 4.20 | 56.8 | 5.03 | 61.9 | 5.87 | 67.2 | 6.60 | 69.2 | 6.76 | 71.8 | 6.98 | 73.9 | 7.04 |
| | 20 | 115.6 | 52.3 | 6.00 | 56.8 | 7.00 | 61.9 | 8.12 | 67.2 | 9.13 | 69.2 | 9.38 | 71.8 | 9.58 | 73.9 | 9.79 |
| | | 144.5 | 52.3 | 5.89 | 56.8 | 6.88 | 61.9 | 7.99 | 67.2 | 8.99 | 69.2 | 9.23 | 71.8 | 9.43 | 73.9 | 9.62 |
| | | 289.0 | 52.3 | 5.41 | 56.8 | 6.40 | 61.9 | 7.48 | 67.2 | 8.44 | 69.2 | 8.63 | 71.8 | 8.83 | 73.9 | 8.99 |
| | | 361.3 | 52.3 | 5.25 | 56.8 | 6.28 | 61.9 | 7.32 | 67.2 | 8.27 | 69.2 | 8.48 | 71.8 | 8.67 | 73.9 | 8.76 |
| | | 433.5 | 52.3 | 5.17 | 56.8 | 6.23 | 61.9 | 7.24 | 67.2 | 8.20 | 69.2 | 8.39 | 71.8 | 8.59 | 73.9 | 8.63 |
| | 25 | 115.6 | 52.3 | 7.30 | 56.8 | 8.48 | 61.9 | 9.90 | 67.2 | 11.16 | 69.2 | 11.44 | 71.8 | 11.72 | 73.9 | 11.93 |
| | | 144.5 | 52.3 | 7.16 | 56.8 | 8.35 | 61.9 | 9.75 | 67.2 | 10.97 | 69.2 | 11.25 | 71.8 | 11.53 | 73.9 | 11.74 |
| | | 289.0 | 52.3 | 6.60 | 56.8 | 7.84 | 61.9 | 9.11 | 67.2 | 10.26 | 69.2 | 10.50 | 71.8 | 10.78 | 73.9 | 10.97 |
| | | 361.3 | 52.3 | 6.40 | 56.8 | 7.67 | 61.9 | 8.95 | 67.2 | 10.06 | 69.2 | 10.30 | 71.8 | 10.58 | 73.9 | 10.69 |
| | | 433.5 | 52.3 | 6.30 | 56.8 | 7.60 | 61.9 | 8.87 | 67.2 | 9.96 | 69.2 | 10.20 | 71.8 | 10.48 | 73.9 | 10.56 |
| | 30 | 115.6 | 52.3 | 9.01 | 56.8 | 10.47 | 61.9 | 12.21 | 67.2 | 13.75 | 69.2 | 14.07 | 71.8 | 14.39 | 73.9 | 14.68 |
| | | 144.5 | 52.3 | 8.83 | 56.8 | 10.30 | 61.9 | 12.01 | 67.2 | 13.52 | 69.2 | 13.84 | 71.8 | 14.16 | 73.9 | 14.44 |
| | | 289.0 | 52.3 | 8.12 | 56.8 | 9.62 | 61.9 | 11.22 | 67.2 | 12.61 | 69.2 | 12.92 | 71.8 | 13.24 | 73.9 | 13.48 |
| | | 361.3 | 52.3 | 7.88 | 56.8 | 9.43 | 61.9 | 10.97 | 67.2 | 12.36 | 69.2 | 12.68 | 71.8 | 13.00 | 73.9 | 13.13 |
| | | 433.5 | 52.3 | 7.76 | 56.8 | 9.32 | 61.9 | 10.86 | 67.2 | 12.25 | 69.2 | 12.57 | 71.8 | 12.89 | 73.9 | 12.94 |
| | 35 | 115.6 | 52.3 | 10.02 | 56.8 | 11.65 | 61.9 | 13.54 | 67.2 | 15.23 | 69.2 | 15.60 | 71.8 | 16.01 | 73.9 | 16.28 |
| | | 144.5 | 52.3 | 9.83 | 56.8 | 11.46 | 61.9 | 13.32 | 67.2 | 14.99 | 69.2 | 15.35 | 71.8 | 15.75 | 73.9 | 16.03 |
| | | 289.0 | 52.3 | 9.02 | 56.8 | 10.69 | 61.9 | 12.45 | 67.2 | 14.04 | 69.2 | 14.35 | 71.8 | 14.72 | 73.9 | 14.99 |
| | | 361.3 | 52.3 | 8.79 | 56.8 | 10.46 | 61.9 | 12.21 | 67.2 | 13.76 | 69.2 | 14.08 | 71.8 | 14.48 | 73.9 | 14.59 |
| | | 433.5 | 52.3 | 8.67 | 56.8 | 10.34 | 61.9 | 12.09 | 67.2 | 13.62 | 69.2 | 13.94 | 71.8 | 14.36 | 73.9 | 14.40 |
| | 40 | 115.6 | 52.3 | 11.84 | 56.8 | 13.79 | 61.9 | 16.05 | 67.2 | 18.07 | 69.2 | 18.47 | 71.8 | 18.96 | 73.9 | 19.28 |
| | | 144.5 | 52.3 | 11.61 | 56.8 | 13.56 | 61.9 | 15.79 | 67.2 | 17.78 | 69.2 | 18.18 | 71.8 | 18.65 | 73.9 | 18.97 |
| | | 289.0 | 52.3 | 10.69 | 56.8 | 12.64 | 61.9 | 14.76 | 67.2 | 16.62 | 69.2 | 17.03 | 71.8 | 17.46 | 73.9 | 17.78 |
| | | 361.3 | 52.3 | 10.38 | 56.8 | 12.41 | 61.9 | 14.44 | 67.2 | 16.30 | 69.2 | 16.71 | 71.8 | 17.10 | 73.9 | 17.30 |
| | | 433.5 | 52.3 | 10.22 | 56.8 | 12.29 | 61.9 | 14.28 | 67.2 | 16.15 | 69.2 | 16.54 | 71.8 | 16.92 | 73.9 | 17.07 |
| | 45 | 115.6 | 52.3 | 13.67 | 56.8 | 15.94 | 61.9 | 18.55 | 67.2 | 20.90 | 69.2 | 21.33 | 71.8 | 21.89 | 73.9 | 22.26 |
| | | 144.5 | 52.3 | 13.41 | 56.8 | 15.67 | 61.9 | 18.25 | 67.2 | 20.56 | 69.2 | 21.00 | 71.8 | 21.55 | 73.9 | 21.91 |
| | | 289.0 | 52.3 | 12.36 | 56.8 | 14.59 | 61.9 | 17.07 | 67.2 | 19.21 | 69.2 | 19.69 | 71.8 | 20.20 | 73.9 | 20.56 |
| | | 361.3 | 52.3 | 11.97 | 56.8 | 14.35 | 61.9 | 16.66 | 67.2 | 18.85 | 69.2 | 19.33 | 71.8 | 19.73 | 73.9 | 20.01 |
| | | 433.5 | 52.3 | 11.78 | 56.8 | 14.24 | 61.9 | 16.47 | 67.2 | 18.68 | 69.2 | 19.15 | 71.8 | 19.49 | 73.9 | 19.73 |
| 70 | 10 | 115.6 | 45.9 | 3.00 | 49.7 | 3.45 | 54.2 | 4.09 | 58.8 | 4.60 | 60.6 | 4.61 | 62.8 | 4.78 | 64.7 | 4.85 |
| | | 144.5 | 45.9 | 2.95 | 49.7 | 3.41 | 54.2 | 4.02 | 58.8 | 4.52 | 60.6 | 4.55 | 62.8 | 4.71 | 64.7 | 4.78 |
| | | 289.0 | 45.9 | 2.72 | 49.7 | 3.21 | 54.2 | 3.75 | 58.8 | 4.22 | 60.6 | 4.28 | 62.8 | 4.40 | 64.7 | 4.52 |
| | | 361.3 | 45.9 | 2.60 | 49.7 | 3.10 | 54.2 | 3.64 | 58.8 | 4.09 | 60.6 | 4.17 | 62.8 | 4.33 | 64.7 | 4.41 |
| | | 433.5 | 45.9 | 2.54 | 49.7 | 3.04 | 54.2 | 3.58 | 58.8 | 4.03 | 60.6 | 4.11 | 62.8 | 4.29 | 64.7 | 4.35 |
| | 15 | 115.6 | 45.9 | 4.05 | 49.7 | 4.69 | 54.2 | 5.50 | 58.8 | 6.19 | 60.6 | 6.30 | 62.8 | 6.47 | 64.7 | 6.58 |
| | | 144.5 | 45.9 | 3.98 | 49.7 | 4.61 | 54.2 | 5.41 | 58.8 | 6.08 | 60.6 | 6.21 | 62.8 | 6.36 | 64.7 | 6.49 |
| | | 289.0 | 45.9 | 3.66 | 49.7 | 4.33 | 54.2 | 5.05 | 58.8 | 5.69 | 60.6 | 5.81 | 62.8 | 5.97 | 64.7 | 6.08 |
| | | 361.3 | 45.9 | 3.54 | 49.7 | 4.22 | 54.2 | 4.93 | 58.8 | 5.57 | 60.6 | 5.69 | 62.8 | 5.85 | 64.7 | 5.93 |
| | | 433.5 | 45.9 | 3.48 | 49.7 | 4.16 | 54.2 | 4.87 | 58.8 | 5.51 | 60.6 | 5.63 | 62.8 | 5.79 | 64.7 | 5.85 |
| | 20 | 115.6 | 45.9 | 4.99 | 49.7 | 5.78 | 54.2 | 6.75 | 58.8 | 7.60 | 60.6 | 7.80 | 62.8 | 7.95 | 64.7 | 8.12 |
| | | 144.5 | 45.9 | 4.89 | 49.7 | 5.69 | 54.2 | 6.64 | 58.8 | 7.48 | 60.6 | 7.67 | 62.8 | 7.84 | 64.7 | 7.99 |
| | | 289.0 | 45.9 | 4.50 | 49.7 | 5.33 | 54.2 | 6.21 | 58.8 | 7.00 | 60.6 | 7.16 | 62.8 | 7.36 | 64.7 | 7.48 |
| | | 361.3 | 45.9 | 4.37 | 49.7 | 5.21 | 54.2 | 6.08 | 58.8 | 6.88 | 60.6 | 7.04 | 62.8 | 7.20 | 64.7 | 7.28 |
| | | 433.5 | 45.9 | 4.31 | 49.7 | 5.15 | 54.2 | 6.02 | 58.8 | 6.82 | 60.6 | 6.98 | 62.8 | 7.12 | 64.7 | 7.18 |
| | 25 | 115.6 | 45.9 | 6.08 | 49.7 | 7.07 | 54.2 | 8.25 | 58.8 | 9.30 | 60.6 | 9.49 | 62.8 | 9.75 | 64.7 | 9.90 |
| | | 144.5 | 45.9 | 5.97 | 49.7 | 6.96 | 54.2 | 8.12 | 58.8 | 9.15 | 60.6 | 9.34 | 62.8 | 9.58 | 64.7 | 9.75 |
| | | 289.0 | 45.9 | 5.49 | 49.7 | 6.53 | 54.2 | 7.60 | 58.8 | 8.55 | 60.6 | 8.76 | 62.8 | 8.95 | 64.7 | 9.11 |
| | | 361.3 | 45.9 | 5.33 | 49.7 | 6.36 | 54.2 | 7.44 | 58.8 | 8.35 | 60.6 | 8.59 | 62.8 | 8.79 | 64.7 | 8.87 |
| | | 433.5 | 45.9 | 5.25 | 49.7 | 6.28 | 54.2 | 7.36 | 58.8 | 8.25 | 60.6 | 8.51 | 62.8 | 8.71 | 64.7 | 8.76 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 115.6 | 45.9 | 7.51 | 49.7 | 8.69 | 54.2 | 10.15 | 58.8 | 11.40 | 60.6 | 11.69 | 62.8 | 11.97 | 64.7 | 12.16 |
| | | 144.5 | 45.9 | 7.36 | 49.7 | 8.55 | 54.2 | 9.98 | 58.8 | 11.22 | 60.6 | 11.50 | 62.8 | 11.78 | 64.7 | 11.97 |
| | | 289.0 | 45.9 | 6.76 | 49.7 | 7.99 | 54.2 | 9.30 | 58.8 | 10.50 | 60.6 | 10.74 | 62.8 | 11.01 | 64.7 | 11.22 |
| | | 361.3 | 45.9 | 6.56 | 49.7 | 7.84 | 54.2 | 9.15 | 58.8 | 10.30 | 60.6 | 10.54 | 62.8 | 10.82 | 64.7 | 10.94 |
| | | 433.5 | 45.9 | 6.47 | 49.7 | 7.76 | 54.2 | 9.06 | 58.8 | 10.20 | 60.6 | 10.44 | 62.8 | 10.71 | 64.7 | 10.80 |
| | 35 | 115.6 | 45.9 | 8.31 | 49.7 | 9.66 | 54.2 | 11.29 | 58.8 | 12.70 | 60.6 | 12.98 | 62.8 | 13.30 | 64.7 | 13.54 |
| | | 144.5 | 45.9 | 8.16 | 49.7 | 9.51 | 54.2 | 11.10 | 58.8 | 12.49 | 60.6 | 12.77 | 62.8 | 13.09 | 64.7 | 13.32 |
| | | 289.0 | 45.9 | 7.52 | 49.7 | 8.91 | 54.2 | 10.34 | 58.8 | 11.65 | 60.6 | 11.93 | 62.8 | 12.25 | 64.7 | 12.49 |
| | | 361.3 | 45.9 | 7.28 | 49.7 | 8.71 | 54.2 | 10.14 | 58.8 | 11.46 | 60.6 | 11.74 | 62.8 | 12.01 | 64.7 | 12.13 |
| | | 433.5 | 45.9 | 7.16 | 49.7 | 8.61 | 54.2 | 10.04 | 58.8 | 11.35 | 60.6 | 11.63 | 62.8 | 11.89 | 64.7 | 11.95 |
| | 40 | 115.6 | 45.9 | 9.87 | 49.7 | 11.44 | 54.2 | 13.35 | 58.8 | 15.00 | 60.6 | 15.36 | 62.8 | 15.76 | 64.7 | 16.05 |
| | | 144.5 | 45.9 | 9.66 | 49.7 | 11.25 | 54.2 | 13.13 | 58.8 | 14.76 | 60.6 | 15.12 | 62.8 | 15.51 | 64.7 | 15.79 |
| | | 289.0 | 45.9 | 8.87 | 49.7 | 10.54 | 54.2 | 12.25 | 58.8 | 13.80 | 60.6 | 14.16 | 62.8 | 14.52 | 64.7 | 14.76 |
| | | 361.3 | 45.9 | 8.63 | 49.7 | 10.30 | 54.2 | 12.01 | 58.8 | 13.56 | 60.6 | 13.88 | 62.8 | 14.24 | 64.7 | 14.40 |
| | | 433.5 | 45.9 | 8.51 | 49.7 | 10.18 | 54.2 | 11.89 | 58.8 | 13.45 | 60.6 | 13.75 | 62.8 | 14.10 | 64.7 | 14.22 |
| | 45 | 115.6 | 45.9 | 11.42 | 49.7 | 13.22 | 54.2 | 15.40 | 58.8 | 17.29 | 60.6 | 17.73 | 62.8 | 18.23 | 64.7 | 18.57 |
| | | 144.5 | 45.9 | 11.18 | 49.7 | 13.00 | 54.2 | 15.15 | 58.8 | 17.03 | 60.6 | 17.46 | 62.8 | 17.93 | 64.7 | 18.25 |
| | | 289.0 | 45.9 | 10.22 | 49.7 | 12.17 | 54.2 | 14.16 | 58.8 | 15.95 | 60.6 | 16.39 | 62.8 | 16.79 | 64.7 | 17.03 |
| | | 361.3 | 45.9 | 9.98 | 49.7 | 11.89 | 54.2 | 13.88 | 58.8 | 15.67 | 60.6 | 16.03 | 62.8 | 16.47 | 64.7 | 16.66 |
| | | 433.5 | 45.9 | 9.87 | 49.7 | 11.76 | 54.2 | 13.75 | 58.8 | 15.53 | 60.6 | 15.85 | 62.8 | 16.30 | 64.7 | 16.49 |
| 60 | 10 | 115.6 | 39.3 | 2.44 | 42.6 | 2.81 | 46.3 | 3.24 | 50.4 | 3.66 | 51.9 | 3.75 | 53.9 | 3.87 | 55.5 | 3.88 |
| | | 144.5 | 39.3 | 2.38 | 42.6 | 2.76 | 46.3 | 3.17 | 50.4 | 3.60 | 51.9 | 3.68 | 53.9 | 3.79 | 55.5 | 3.83 |
| | | 289.0 | 39.3 | 2.14 | 42.6 | 2.57 | 46.3 | 2.94 | 50.4 | 3.37 | 51.9 | 3.36 | 53.9 | 3.48 | 55.5 | 3.60 |
| | | 361.3 | 39.3 | 2.06 | 42.6 | 2.49 | 46.3 | 2.91 | 50.4 | 3.29 | 51.9 | 3.32 | 53.9 | 3.40 | 55.5 | 3.44 |
| | | 433.5 | 39.3 | 2.02 | 42.6 | 2.44 | 46.3 | 2.89 | 50.4 | 3.25 | 51.9 | 3.30 | 53.9 | 3.36 | 55.5 | 3.36 |
| | 15 | 115.6 | 39.3 | 3.25 | 42.6 | 3.75 | 46.3 | 4.37 | 50.4 | 4.93 | 51.9 | 5.06 | 53.9 | 5.18 | 55.5 | 5.25 |
| | | 144.5 | 39.3 | 3.19 | 42.6 | 3.70 | 46.3 | 4.30 | 50.4 | 4.86 | 51.9 | 4.97 | 53.9 | 5.09 | 55.5 | 5.17 |
| | | 289.0 | 39.3 | 2.91 | 42.6 | 3.46 | 46.3 | 4.02 | 50.4 | 4.54 | 51.9 | 4.61 | 53.9 | 4.73 | 55.5 | 4.86 |
| | | 361.3 | 39.3 | 2.83 | 42.6 | 3.38 | 46.3 | 3.94 | 50.4 | 4.45 | 51.9 | 4.54 | 53.9 | 4.65 | 55.5 | 4.69 |
| | | 433.5 | 39.3 | 2.78 | 42.6 | 3.34 | 46.3 | 3.90 | 50.4 | 4.41 | 51.9 | 4.50 | 53.9 | 4.61 | 55.5 | 4.61 |
| | 20 | 115.6 | 39.3 | 3.98 | 42.6 | 4.60 | 46.3 | 5.37 | 50.4 | 6.06 | 51.9 | 6.23 | 53.9 | 6.34 | 55.5 | 6.47 |
| | | 144.5 | 39.3 | 3.90 | 42.6 | 4.54 | 46.3 | 5.29 | 50.4 | 5.97 | 51.9 | 6.13 | 53.9 | 6.25 | 55.5 | 6.36 |
| | | 289.0 | 39.3 | 3.58 | 42.6 | 4.26 | 46.3 | 4.97 | 50.4 | 5.57 | 51.9 | 5.72 | 53.9 | 5.85 | 55.5 | 5.97 |
| | | 361.3 | 39.3 | 3.50 | 42.6 | 4.18 | 46.3 | 4.86 | 50.4 | 5.49 | 51.9 | 5.61 | 53.9 | 5.76 | 55.5 | 5.81 |
| | | 433.5 | 39.3 | 3.46 | 42.6 | 4.14 | 46.3 | 4.80 | 50.4 | 5.45 | 51.9 | 5.55 | 53.9 | 5.72 | 55.5 | 5.72 |
| | 25 | 115.6 | 39.3 | 4.88 | 42.6 | 5.62 | 46.3 | 6.54 | 50.4 | 7.39 | 51.9 | 7.56 | 53.9 | 7.76 | 55.5 | 7.88 |
| | | 144.5 | 39.3 | 4.77 | 42.6 | 5.53 | 46.3 | 6.45 | 50.4 | 7.28 | 51.9 | 7.44 | 53.9 | 7.64 | 55.5 | 7.75 |
| | | 289.0 | 39.3 | 4.37 | 42.6 | 5.17 | 46.3 | 6.04 | 50.4 | 6.81 | 51.9 | 6.96 | 53.9 | 7.16 | 55.5 | 7.28 |
| | | 361.3 | 39.3 | 4.26 | 42.6 | 5.09 | 46.3 | 5.93 | 50.4 | 6.68 | 51.9 | 6.84 | 53.9 | 7.00 | 55.5 | 7.08 |
| | | 433.5 | 39.3 | 4.20 | 42.6 | 5.05 | 46.3 | 5.87 | 50.4 | 6.62 | 51.9 | 6.79 | 53.9 | 6.92 | 55.5 | 6.98 |
| | 30 | 115.6 | 39.3 | 5.97 | 42.6 | 6.96 | 46.3 | 8.08 | 50.4 | 9.10 | 51.9 | 9.30 | 53.9 | 9.53 | 55.5 | 9.70 |
| | | 144.5 | 39.3 | 5.85 | 42.6 | 6.84 | 46.3 | 7.95 | 50.4 | 8.95 | 51.9 | 9.15 | 53.9 | 9.38 | 55.5 | 9.55 |
| | | 289.0 | 39.3 | 5.37 | 42.6 | 6.36 | 46.3 | 7.44 | 50.4 | 8.35 | 51.9 | 8.55 | 53.9 | 8.79 | 55.5 | 8.95 |
| | | 361.3 | 39.3 | 5.25 | 42.6 | 6.25 | 46.3 | 7.28 | 50.4 | 8.20 | 51.9 | 8.39 | 53.9 | 8.63 | 55.5 | 8.71 |
| | | 433.5 | 39.3 | 5.19 | 42.6 | 6.19 | 46.3 | 7.20 | 50.4 | 8.12 | 51.9 | 8.31 | 53.9 | 8.55 | 55.5 | 8.59 |
| | 35 | 115.6 | 39.3 | 6.62 | 42.6 | 7.73 | 46.3 | 8.97 | 50.4 | 10.11 | 51.9 | 10.35 | 53.9 | 10.58 | 55.5 | 10.79 |
| | | 144.5 | 39.3 | 6.49 | 42.6 | 7.60 | 46.3 | 8.83 | 50.4 | 9.94 | 51.9 | 10.18 | 53.9 | 10.42 | 55.5 | 10.62 |
| | | 289.0 | 39.3 | 5.97 | 42.6 | 7.08 | 46.3 | 8.27 | 50.4 | 9.30 | 51.9 | 9.51 | 53.9 | 9.79 | 55.5 | 9.94 |
| | | 361.3 | 39.3 | 5.81 | 42.6 | 6.92 | 46.3 | 8.07 | 50.4 | 9.11 | 51.9 | 9.34 | 53.9 | 9.58 | 55.5 | 9.66 |
| | | 433.5 | 39.3 | 5.72 | 42.6 | 6.84 | 46.3 | 7.97 | 50.4 | 9.01 | 51.9 | 9.27 | 53.9 | 9.49 | 55.5 | 9.53 |
| | 40 | 115.6 | 39.3 | 7.88 | 42.6 | 9.14 | 46.3 | 10.63 | 50.4 | 11.97 | 51.9 | 12.25 | 53.9 | 12.57 | 55.5 | 12.77 |
| | | 144.5 | 39.3 | 7.71 | 42.6 | 8.99 | 46.3 | 10.46 | 50.4 | 11.78 | 51.9 | 12.05 | 53.9 | 12.36 | 55.5 | 12.57 |
| | | 289.0 | 39.3 | 7.08 | 42.6 | 8.39 | 46.3 | 9.79 | 50.4 | 11.01 | 51.9 | 11.25 | 53.9 | 11.57 | 55.5 | 11.78 |
| | | 361.3 | 39.3 | 6.88 | 42.6 | 8.23 | 46.3 | 9.58 | 50.4 | 10.78 | 51.9 | 11.05 | 53.9 | 11.33 | 55.5 | 11.46 |
| | | 433.5 | 39.3 | 6.79 | 42.6 | 8.16 | 46.3 | 9.49 | 50.4 | 10.66 | 51.9 | 10.96 | 53.9 | 11.22 | 55.5 | 11.29 |
| | 45 | 115.6 | 39.3 | 9.14 | 42.6 | 10.56 | 46.3 | 12.29 | 50.4 | 13.82 | 51.9 | 14.15 | 53.9 | 14.56 | 55.5 | 14.75 |
| | | 144.5 | 39.3 | 8.95 | 42.6 | 10.38 | 46.3 | 12.09 | 50.4 | 13.60 | 51.9 | 13.92 | 53.9 | 14.31 | 55.5 | 14.52 |
| | | 289.0 | 39.3 | 8.20 | 42.6 | 9.70 | 46.3 | 11.29 | 50.4 | 12.73 | 51.9 | 13.00 | 53.9 | 13.36 | 55.5 | 13.60 |
| | | 361.3 | 39.3 | 7.95 | 42.6 | 9.55 | 46.3 | 11.10 | 50.4 | 12.45 | 51.9 | 12.77 | 53.9 | 13.09 | 55.5 | 13.24 |
| | | 433.5 | 39.3 | 7.84 | 42.6 | 9.47 | 46.3 | 10.99 | 50.4 | 12.31 | 51.9 | 12.64 | 53.9 | 12.94 | 55.5 | 13.07 |
| 50 | 10 | 115.6 | 32.8 | 1.74 | 35.5 | 2.06 | 38.6 | 2.48 | 42.0 | 2.72 | 43.3 | 2.75 | 45.0 | 2.85 | 46.2 | 2.92 |
| | | 144.5 | 32.8 | 1.72 | 35.5 | 2.03 | 38.6 | 2.42 | 42.0 | 2.68 | 43.3 | 2.72 | 45.0 | 2.79 | 46.2 | 2.87 |
| | | 289.0 | 32.8 | 1.65 | 35.5 | 1.91 | 38.6 | 2.18 | 42.0 | 2.49 | 43.3 | 2.57 | 45.0 | 2.60 | 46.2 | 2.68 |
| | | 361.3 | 32.8 | 1.57 | 35.5 | 1.84 | 38.6 | 2.18 | 42.0 | 2.40 | 43.3 | 2.49 | 45.0 | 2.52 | 46.2 | 2.57 |
| | | 433.5 | 32.8 | 1.53 | 35.5 | 1.80 | 38.6 | 2.18 | 42.0 | 2.36 | 43.3 | 2.44 | 45.0 | 2.48 | 46.2 | 2.50 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 115.6 | 32.8 | 2.38 | 35.5 | 2.78 | 38.6 | 3.28 | 42.0 | 3.68 | 43.3 | 3.75 | 45.0 | 3.84 | 46.2 | 3.92 |
| | | 144.5 | 32.8 | 2.35 | 35.5 | 2.74 | 38.6 | 3.22 | 42.0 | 3.62 | 43.3 | 3.70 | 45.0 | 3.77 | 46.2 | 3.86 |
| | | 289.0 | 32.8 | 2.19 | 35.5 | 2.59 | 38.6 | 2.98 | 42.0 | 3.38 | 43.3 | 3.46 | 45.0 | 3.54 | 46.2 | 3.62 |
| | | 361.3 | 32.8 | 2.10 | 35.5 | 2.51 | 38.6 | 2.94 | 42.0 | 3.30 | 43.3 | 3.38 | 45.0 | 3.46 | 46.2 | 3.50 |
| | | 433.5 | 32.8 | 2.07 | 35.5 | 2.46 | 38.6 | 2.92 | 42.0 | 3.26 | 43.3 | 3.34 | 45.0 | 3.42 | 46.2 | 3.44 |
| | 20 | 115.6 | 32.8 | 2.96 | 35.5 | 3.43 | 38.6 | 4.00 | 42.0 | 4.52 | 43.3 | 4.65 | 45.0 | 4.73 | 46.2 | 4.80 |
| | | 144.5 | 32.8 | 2.91 | 35.5 | 3.38 | 38.6 | 3.94 | 42.0 | 4.45 | 43.3 | 4.58 | 45.0 | 4.65 | 46.2 | 4.73 |
| | | 289.0 | 32.8 | 2.66 | 35.5 | 3.19 | 38.6 | 3.70 | 42.0 | 4.18 | 43.3 | 4.26 | 45.0 | 4.37 | 46.2 | 4.45 |
| | | 361.3 | 32.8 | 2.59 | 35.5 | 3.10 | 38.6 | 3.62 | 42.0 | 4.09 | 43.3 | 4.18 | 45.0 | 4.30 | 46.2 | 4.33 |
| | | 433.5 | 32.8 | 2.55 | 35.5 | 3.06 | 38.6 | 3.58 | 42.0 | 4.05 | 43.3 | 4.14 | 45.0 | 4.26 | 46.2 | 4.28 |
| | 25 | 115.6 | 32.8 | 3.61 | 35.5 | 4.20 | 38.6 | 4.89 | 42.0 | 5.49 | 43.3 | 5.66 | 45.0 | 5.78 | 46.2 | 5.91 |
| | | 144.5 | 32.8 | 3.54 | 35.5 | 4.14 | 38.6 | 4.82 | 42.0 | 5.41 | 43.3 | 5.57 | 45.0 | 5.69 | 46.2 | 5.81 |
| | | 289.0 | 32.8 | 3.26 | 35.5 | 3.86 | 38.6 | 4.50 | 42.0 | 5.09 | 43.3 | 5.21 | 45.0 | 5.33 | 46.2 | 5.41 |
| | | 361.3 | 32.8 | 3.19 | 35.5 | 3.77 | 38.6 | 4.41 | 42.0 | 4.97 | 43.3 | 5.09 | 45.0 | 5.21 | 46.2 | 5.29 |
| | | 433.5 | 32.8 | 3.15 | 35.5 | 3.74 | 38.6 | 4.37 | 42.0 | 4.91 | 43.3 | 5.03 | 45.0 | 5.15 | 46.2 | 5.23 |
| | 30 | 115.6 | 32.8 | 4.46 | 35.5 | 5.17 | 38.6 | 6.02 | 42.0 | 6.79 | 43.3 | 6.96 | 45.0 | 7.11 | 46.2 | 7.23 |
| | | 144.5 | 32.8 | 4.37 | 35.5 | 5.09 | 38.6 | 5.93 | 42.0 | 6.68 | 43.3 | 6.84 | 45.0 | 7.00 | 46.2 | 7.12 |
| | | 289.0 | 32.8 | 4.02 | 35.5 | 4.77 | 38.6 | 5.53 | 42.0 | 6.25 | 43.3 | 6.40 | 45.0 | 6.56 | 46.2 | 6.68 |
| | | 361.3 | 32.8 | 3.90 | 35.5 | 4.65 | 38.6 | 5.41 | 42.0 | 6.13 | 43.3 | 6.28 | 45.0 | 6.45 | 46.2 | 6.49 |
| | | 433.5 | 32.8 | 3.84 | 35.5 | 4.59 | 38.6 | 5.35 | 42.0 | 6.06 | 43.3 | 6.23 | 45.0 | 6.38 | 46.2 | 6.38 |
| | 35 | 115.6 | 32.8 | 4.95 | 35.5 | 5.74 | 38.6 | 6.71 | 42.0 | 7.52 | 43.3 | 7.73 | 45.0 | 7.93 | 46.2 | 8.05 |
| | | 144.5 | 32.8 | 4.86 | 35.5 | 5.65 | 38.6 | 6.60 | 42.0 | 7.39 | 43.3 | 7.60 | 45.0 | 7.80 | 46.2 | 7.92 |
| | | 289.0 | 32.8 | 4.45 | 35.5 | 5.29 | 38.6 | 6.17 | 42.0 | 6.92 | 43.3 | 7.08 | 45.0 | 7.28 | 46.2 | 7.39 |
| | | 361.3 | 32.8 | 4.33 | 35.5 | 5.17 | 38.6 | 6.04 | 42.0 | 6.81 | 43.3 | 6.96 | 45.0 | 7.16 | 46.2 | 7.20 |
| | | 433.5 | 32.8 | 4.28 | 35.5 | 5.11 | 38.6 | 5.98 | 42.0 | 6.74 | 43.3 | 6.90 | 45.0 | 7.10 | 46.2 | 7.10 |
| | 40 | 115.6 | 32.8 | 5.84 | 35.5 | 6.79 | 38.6 | 7.93 | 42.0 | 8.94 | 43.3 | 9.14 | 45.0 | 9.38 | 46.2 | 9.53 |
| | | 144.5 | 32.8 | 5.72 | 35.5 | 6.68 | 38.6 | 7.80 | 42.0 | 8.79 | 43.3 | 8.99 | 45.0 | 9.23 | 46.2 | 9.38 |
| | | 289.0 | 32.8 | 5.29 | 35.5 | 6.25 | 38.6 | 7.28 | 42.0 | 8.20 | 43.3 | 8.39 | 45.0 | 8.63 | 46.2 | 8.79 |
| | | 361.3 | 32.8 | 5.14 | 35.5 | 6.13 | 38.6 | 7.16 | 42.0 | 8.03 | 43.3 | 8.23 | 45.0 | 8.48 | 46.2 | 8.55 |
| | | 433.5 | 32.8 | 5.05 | 35.5 | 6.06 | 38.6 | 7.10 | 42.0 | 7.95 | 43.3 | 8.16 | 45.0 | 8.39 | 46.2 | 8.44 |
| | 45 | 115.6 | 32.8 | 6.72 | 35.5 | 7.84 | 38.6 | 9.14 | 42.0 | 10.36 | 43.3 | 10.56 | 45.0 | 10.83 | 46.2 | 11.03 |
| | | 144.5 | 32.8 | 6.60 | 35.5 | 7.71 | 38.6 | 8.99 | 42.0 | 10.18 | 43.3 | 10.38 | 45.0 | 10.66 | 46.2 | 10.86 |
| | | 289.0 | 32.8 | 6.13 | 35.5 | 7.20 | 38.6 | 8.39 | 42.0 | 9.47 | 43.3 | 9.70 | 45.0 | 9.98 | 46.2 | 10.18 |
| | | 361.3 | 32.8 | 5.93 | 35.5 | 7.08 | 38.6 | 8.27 | 42.0 | 9.27 | 43.3 | 9.51 | 45.0 | 9.79 | 46.2 | 9.90 |
| | | 433.5 | 32.8 | 5.83 | 35.5 | 7.02 | 38.6 | 8.21 | 42.0 | 9.17 | 43.3 | 9.41 | 45.0 | 9.68 | 46.2 | 9.77 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN320BAS4

**Cooling Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 123.2 | 83.2 | 6.26 | 90.2 | 7.32 | 98.4 | 8.54 | 106.8 | 9.62 | 109.8 | 9.90 | 114.2 | 10.08 | 117.4 | 10.16 |
| | | 154.0 | 83.2 | 6.14 | 90.2 | 7.22 | 98.4 | 8.40 | 106.8 | 9.46 | 109.8 | 9.72 | 114.2 | 9.92 | 117.4 | 10.04 |
| | | 308.0 | 83.2 | 5.70 | 90.2 | 6.76 | 98.4 | 7.88 | 106.8 | 8.86 | 109.8 | 9.02 | 114.2 | 9.30 | 117.4 | 9.52 |
| | | 385.0 | 83.2 | 5.54 | 90.2 | 6.60 | 98.4 | 7.70 | 106.8 | 8.64 | 109.8 | 8.90 | 114.2 | 9.10 | 117.4 | 9.26 |
| | | 462.0 | 83.2 | 5.46 | 90.2 | 6.52 | 98.4 | 7.62 | 106.8 | 8.54 | 109.8 | 8.84 | 114.2 | 9.00 | 117.4 | 9.14 |
| | 15 | 123.2 | 81.8 | 8.26 | 88.8 | 9.60 | 96.6 | 11.20 | 105.0 | 12.62 | 108.2 | 12.94 | 112.4 | 13.22 | 115.4 | 13.42 |
| | | 154.0 | 81.8 | 8.10 | 88.8 | 9.46 | 96.6 | 11.02 | 105.0 | 12.42 | 108.2 | 12.72 | 112.4 | 13.02 | 115.4 | 13.24 |
| | | 308.0 | 81.8 | 7.46 | 88.8 | 8.86 | 96.6 | 10.30 | 105.0 | 11.62 | 108.2 | 11.88 | 112.4 | 12.22 | 115.4 | 12.46 |
| | | 385.0 | 81.8 | 7.26 | 88.8 | 8.66 | 96.6 | 10.10 | 105.0 | 11.36 | 108.2 | 11.66 | 112.4 | 11.96 | 115.4 | 12.18 |
| | | 462.0 | 81.8 | 7.14 | 88.8 | 8.54 | 96.6 | 9.98 | 105.0 | 11.24 | 108.2 | 11.56 | 112.4 | 11.84 | 115.4 | 12.02 |
| | 20 | 123.2 | 80.8 | 10.04 | 87.4 | 11.64 | 95.2 | 13.58 | 103.6 | 15.30 | 106.6 | 15.64 | 110.8 | 16.02 | 113.8 | 16.32 |
| | | 154.0 | 80.8 | 9.84 | 87.4 | 11.46 | 95.2 | 13.36 | 103.6 | 15.06 | 106.6 | 15.40 | 110.8 | 15.78 | 113.8 | 16.08 |
| | | 308.0 | 80.8 | 9.04 | 87.4 | 10.72 | 95.2 | 12.46 | 103.6 | 14.08 | 106.6 | 14.42 | 110.8 | 14.80 | 113.8 | 15.10 |
| | | 385.0 | 80.8 | 8.78 | 87.4 | 10.48 | 95.2 | 12.22 | 103.6 | 13.78 | 106.6 | 14.12 | 110.8 | 14.50 | 113.8 | 14.76 |
| | | 462.0 | 80.8 | 8.66 | 87.4 | 10.34 | 95.2 | 12.08 | 103.6 | 13.64 | 106.6 | 13.98 | 110.8 | 14.36 | 113.8 | 14.58 |
| | 25 | 123.2 | 80.8 | 12.38 | 87.4 | 14.34 | 95.2 | 16.72 | 103.6 | 18.84 | 106.6 | 19.30 | 110.8 | 19.78 | 113.8 | 20.10 |
| | | 154.0 | 80.8 | 12.12 | 87.4 | 14.12 | 95.2 | 16.46 | 103.6 | 18.54 | 106.6 | 19.00 | 110.8 | 19.46 | 113.8 | 19.80 |
| | | 308.0 | 80.8 | 11.16 | 87.4 | 13.24 | 95.2 | 15.40 | 103.6 | 17.34 | 106.6 | 17.76 | 110.8 | 18.24 | 113.8 | 18.62 |
| | | 385.0 | 80.8 | 10.86 | 87.4 | 12.94 | 95.2 | 15.10 | 103.6 | 17.00 | 106.6 | 17.44 | 110.8 | 17.90 | 113.8 | 18.20 |
| | | 462.0 | 80.8 | 10.70 | 87.4 | 12.78 | 95.2 | 14.94 | 103.6 | 16.84 | 106.6 | 17.26 | 110.8 | 17.72 | 113.8 | 17.98 |
| | 30 | 123.2 | 80.8 | 14.84 | 87.4 | 17.24 | 95.2 | 20.08 | 103.6 | 22.62 | 106.6 | 23.14 | 110.8 | 23.74 | 113.8 | 24.10 |
| | | 154.0 | 80.8 | 14.54 | 87.4 | 16.96 | 95.2 | 19.76 | 103.6 | 22.26 | 106.6 | 22.78 | 110.8 | 23.36 | 113.8 | 23.74 |
| | | 308.0 | 80.8 | 13.36 | 87.4 | 15.86 | 95.2 | 18.50 | 103.6 | 20.82 | 106.6 | 21.34 | 110.8 | 21.88 | 113.8 | 22.34 |
| | | 385.0 | 80.8 | 13.02 | 87.4 | 15.52 | 95.2 | 18.10 | 103.6 | 20.40 | 106.6 | 20.96 | 110.8 | 21.46 | 113.8 | 21.84 |
| | | 462.0 | 80.8 | 12.86 | 87.4 | 15.36 | 95.2 | 17.92 | 103.6 | 20.18 | 106.6 | 20.76 | 110.8 | 21.24 | 113.8 | 21.58 |
| | 35 | 123.2 | 72.6 | 15.02 | 78.6 | 17.46 | 85.8 | 20.30 | 93.2 | 22.90 | 96.0 | 23.40 | 99.6 | 24.00 | 102.4 | 24.42 |
| | | 154.0 | 72.6 | 14.72 | 78.6 | 17.18 | 85.8 | 19.98 | 93.2 | 22.52 | 96.0 | 23.02 | 99.6 | 23.62 | 102.4 | 24.04 |
| | | 308.0 | 72.6 | 13.52 | 78.6 | 16.04 | 85.8 | 18.70 | 93.2 | 21.04 | 96.0 | 21.58 | 99.6 | 22.14 | 102.4 | 22.56 |
| | | 385.0 | 72.6 | 13.14 | 78.6 | 15.70 | 85.8 | 18.32 | 93.2 | 20.62 | 96.0 | 21.16 | 99.6 | 21.72 | 102.4 | 22.10 |
| | | 462.0 | 72.6 | 12.96 | 78.6 | 15.52 | 85.8 | 18.14 | 93.2 | 20.40 | 96.0 | 20.96 | 99.6 | 21.50 | 102.4 | 21.86 |
| | 40 | 123.2 | 64.6 | 15.84 | 70.0 | 18.40 | 76.2 | 21.42 | 82.8 | 24.14 | 85.2 | 24.70 | 88.6 | 25.28 | 91.0 | 25.74 |
| | | 154.0 | 64.6 | 15.52 | 70.0 | 18.10 | 76.2 | 21.08 | 82.8 | 23.74 | 85.2 | 24.30 | 88.6 | 24.90 | 91.0 | 25.36 |
| | | 308.0 | 64.6 | 14.24 | 70.0 | 16.92 | 76.2 | 19.72 | 82.8 | 22.18 | 85.2 | 22.74 | 88.6 | 23.36 | 91.0 | 23.84 |
| | | 385.0 | 64.6 | 13.86 | 70.0 | 16.54 | 76.2 | 19.30 | 82.8 | 21.76 | 85.2 | 22.30 | 88.6 | 22.90 | 91.0 | 23.28 |
| | | 462.0 | 64.6 | 13.68 | 70.0 | 16.34 | 76.2 | 19.08 | 82.8 | 21.54 | 85.2 | 22.10 | 88.6 | 22.66 | 91.0 | 23.00 |
| | 45 | 123.2 | 56.4 | 16.68 | 61.2 | 19.36 | 66.6 | 22.54 | 72.4 | 25.40 | 74.6 | 26.00 | 77.6 | 26.56 | 79.8 | 27.08 |
| | | 154.0 | 56.4 | 16.32 | 61.2 | 19.04 | 66.6 | 22.18 | 72.4 | 24.98 | 74.6 | 25.58 | 77.6 | 26.16 | 79.8 | 26.68 |
| | | 308.0 | 56.4 | 14.98 | 61.2 | 17.82 | 66.6 | 20.74 | 72.4 | 23.32 | 74.6 | 23.88 | 77.6 | 24.60 | 79.8 | 25.10 |
| | | 385.0 | 56.4 | 14.58 | 61.2 | 17.38 | 66.6 | 20.28 | 72.4 | 22.90 | 74.6 | 23.46 | 77.6 | 24.08 | 79.8 | 24.48 |
| | | 462.0 | 56.4 | 14.40 | 61.2 | 17.18 | 66.6 | 20.04 | 72.4 | 22.68 | 74.6 | 23.24 | 77.6 | 23.84 | 79.8 | 24.16 |
| 120 | 10 | 123.2 | 78.8 | 5.98 | 85.4 | 6.90 | 92.8 | 8.12 | 101.0 | 9.10 | 104.2 | 9.38 | 108.2 | 9.58 | 111.2 | 9.74 |
| | | 154.0 | 78.8 | 5.86 | 85.4 | 6.80 | 92.8 | 7.98 | 101.0 | 8.96 | 104.2 | 9.22 | 108.2 | 9.42 | 111.2 | 9.58 |
| | | 308.0 | 78.8 | 5.36 | 85.4 | 6.34 | 92.8 | 7.40 | 101.0 | 8.40 | 104.2 | 8.56 | 108.2 | 8.80 | 111.2 | 8.92 |
| | | 385.0 | 78.8 | 5.28 | 85.4 | 6.22 | 92.8 | 7.34 | 101.0 | 8.22 | 104.2 | 8.38 | 108.2 | 8.64 | 111.2 | 8.76 |
| | | 462.0 | 78.8 | 5.24 | 85.4 | 6.16 | 92.8 | 7.30 | 101.0 | 8.14 | 104.2 | 8.30 | 108.2 | 8.56 | 111.2 | 8.68 |
| | 15 | 123.2 | 78.0 | 7.92 | 84.4 | 9.18 | 91.8 | 10.74 | 100.0 | 12.06 | 103.0 | 12.38 | 106.8 | 12.68 | 109.8 | 12.88 |
| | | 154.0 | 78.0 | 7.76 | 84.4 | 9.04 | 91.8 | 10.56 | 100.0 | 11.88 | 103.0 | 12.18 | 106.8 | 12.46 | 109.8 | 12.68 |
| | | 308.0 | 78.0 | 7.12 | 84.4 | 8.44 | 91.8 | 9.84 | 100.0 | 11.12 | 103.0 | 11.36 | 106.8 | 11.66 | 109.8 | 11.88 |
| | | 385.0 | 78.0 | 6.96 | 84.4 | 8.26 | 91.8 | 9.66 | 100.0 | 10.90 | 103.0 | 11.16 | 106.8 | 11.46 | 109.8 | 11.62 |
| | | 462.0 | 78.0 | 6.88 | 84.4 | 8.18 | 91.8 | 9.58 | 100.0 | 10.80 | 103.0 | 11.04 | 106.8 | 11.34 | 109.8 | 11.50 |
| | 20 | 123.2 | 77.2 | 9.66 | 83.6 | 11.20 | 91.0 | 13.06 | 99.0 | 14.70 | 101.8 | 15.04 | 105.8 | 15.42 | 108.8 | 15.68 |
| | | 154.0 | 77.2 | 9.46 | 83.6 | 11.02 | 91.0 | 12.84 | 99.0 | 14.46 | 101.8 | 14.80 | 105.8 | 15.18 | 108.8 | 15.44 |
| | | 308.0 | 77.2 | 8.70 | 83.6 | 10.30 | 91.0 | 12.00 | 99.0 | 13.52 | 101.8 | 13.86 | 105.8 | 14.20 | 108.8 | 14.50 |
| | | 385.0 | 77.2 | 8.44 | 83.6 | 10.10 | 91.0 | 11.74 | 99.0 | 13.28 | 101.8 | 13.62 | 105.8 | 13.96 | 108.8 | 14.16 |
| | | 462.0 | 77.2 | 8.32 | 83.6 | 9.98 | 91.0 | 11.62 | 99.0 | 13.14 | 101.8 | 13.48 | 105.8 | 13.82 | 108.8 | 14.00 |
| | 25 | 123.2 | 77.2 | 11.86 | 83.6 | 13.74 | 91.0 | 16.04 | 99.0 | 18.06 | 101.8 | 18.50 | 105.8 | 18.96 | 108.8 | 19.30 |
| | | 154.0 | 77.2 | 11.62 | 83.6 | 13.52 | 91.0 | 15.78 | 99.0 | 17.76 | 101.8 | 18.20 | 105.8 | 18.66 | 108.8 | 19.00 |
| | | 308.0 | 77.2 | 10.68 | 83.6 | 12.68 | 91.0 | 14.76 | 99.0 | 16.62 | 101.8 | 17.00 | 105.8 | 17.48 | 108.8 | 17.82 |
| | | 385.0 | 77.2 | 10.40 | 83.6 | 12.38 | 91.0 | 14.46 | 99.0 | 16.28 | 101.8 | 16.70 | 105.8 | 17.14 | 108.8 | 17.38 |
| | | 462.0 | 77.2 | 10.24 | 83.6 | 12.24 | 91.0 | 14.32 | 99.0 | 16.12 | 101.8 | 16.56 | 105.8 | 16.96 | 108.8 | 17.18 |
| | 30 | 123.2 | 77.2 | 14.32 | 83.6 | 16.64 | 91.0 | 19.40 | 99.0 | 21.86 | 101.8 | 22.38 | 105.8 | 22.92 | 108.8 | 23.30 |
| | | 154.0 | 77.2 | 14.04 | 83.6 | 16.36 | 91.0 | 19.08 | 99.0 | 21.50 | 101.8 | 22.02 | 105.8 | 22.56 | 108.8 | 22.94 |
| | | 308.0 | 77.2 | 12.94 | 83.6 | 15.30 | 91.0 | 17.86 | 99.0 | 20.10 | 101.8 | 20.56 | 105.8 | 21.12 | 108.8 | 21.54 |
| | | 385.0 | 77.2 | 12.56 | 83.6 | 14.98 | 91.0 | 17.48 | 99.0 | 19.68 | 101.8 | 20.18 | 105.8 | 20.74 | 108.8 | 21.04 |
| | | 462.0 | 77.2 | 12.36 | 83.6 | 14.80 | 91.0 | 17.28 | 99.0 | 19.46 | 101.8 | 20.00 | 105.8 | 20.54 | 108.8 | 20.78 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 123.2 | 70.6 | 14.66 | 76.4 | 17.08 | 83.2 | 19.88 | 90.4 | 22.36 | 93.2 | 22.92 | 96.8 | 23.48 | 99.6 | 23.92 |
| | | 154.0 | 70.6 | 14.38 | 76.4 | 16.80 | 83.2 | 19.56 | 90.4 | 22.02 | 93.2 | 22.56 | 96.8 | 23.12 | 99.6 | 23.54 |
| | | 308.0 | 70.6 | 13.24 | 76.4 | 15.70 | 83.2 | 18.28 | 90.4 | 20.62 | 93.2 | 21.12 | 96.8 | 21.68 | 99.6 | 22.06 |
| | | 385.0 | 70.6 | 12.90 | 76.4 | 15.36 | 83.2 | 17.90 | 90.4 | 20.18 | 93.2 | 20.70 | 96.8 | 21.24 | 99.6 | 21.54 |
| | | 462.0 | 70.6 | 12.72 | 76.4 | 15.18 | 83.2 | 17.70 | 90.4 | 19.98 | 93.2 | 20.48 | 96.8 | 21.04 | 99.6 | 21.30 |
| | 40 | 123.2 | 64.0 | 15.78 | 69.4 | 18.36 | 75.6 | 21.38 | 82.2 | 24.10 | 84.4 | 24.66 | 87.8 | 25.24 | 90.4 | 25.72 |
| | | 154.0 | 64.0 | 15.48 | 69.4 | 18.06 | 75.6 | 21.04 | 82.2 | 23.70 | 84.4 | 24.26 | 87.8 | 24.86 | 90.4 | 25.32 |
| | | 308.0 | 64.0 | 14.24 | 69.4 | 16.88 | 75.6 | 19.68 | 82.2 | 22.18 | 84.4 | 22.68 | 87.8 | 23.28 | 90.4 | 23.74 |
| | | 385.0 | 64.0 | 13.86 | 69.4 | 16.54 | 75.6 | 19.30 | 82.2 | 21.72 | 84.4 | 22.26 | 87.8 | 22.86 | 90.4 | 23.20 |
| | | 462.0 | 64.0 | 13.68 | 69.4 | 16.38 | 75.6 | 19.10 | 82.2 | 21.48 | 84.4 | 22.06 | 87.8 | 22.64 | 90.4 | 22.92 |
| | 45 | 123.2 | 57.6 | 16.92 | 62.2 | 19.66 | 67.8 | 22.88 | 73.8 | 25.82 | 75.8 | 26.38 | 78.8 | 27.02 | 81.2 | 27.52 |
| | | 154.0 | 57.6 | 16.58 | 62.2 | 19.34 | 67.8 | 22.52 | 73.8 | 25.40 | 75.8 | 25.96 | 78.8 | 26.60 | 81.2 | 27.10 |
| | | 308.0 | 57.6 | 15.26 | 62.2 | 18.06 | 67.8 | 21.08 | 73.8 | 23.74 | 75.8 | 24.26 | 78.8 | 24.90 | 81.2 | 25.44 |
| | | 385.0 | 57.6 | 14.84 | 62.2 | 17.72 | 67.8 | 20.70 | 73.8 | 23.24 | 75.8 | 23.84 | 78.8 | 24.48 | 81.2 | 24.86 |
| | | 462.0 | 57.6 | 14.64 | 62.2 | 17.56 | 67.8 | 20.50 | 73.8 | 22.98 | 75.8 | 23.62 | 78.8 | 24.26 | 81.2 | 24.56 |
| 110 | 10 | 123.2 | 74.4 | 5.68 | 80.4 | 6.58 | 87.6 | 7.58 | 95.2 | 8.60 | 98.2 | 8.74 | 102.2 | 9.02 | 104.8 | 9.14 |
| | | 154.0 | 74.4 | 5.56 | 80.4 | 6.46 | 87.6 | 7.48 | 95.2 | 8.46 | 98.2 | 8.62 | 102.2 | 8.86 | 104.8 | 8.98 |
| | | 308.0 | 74.4 | 5.12 | 80.4 | 6.00 | 87.6 | 7.02 | 95.2 | 7.94 | 98.2 | 8.14 | 102.2 | 8.24 | 104.8 | 8.42 |
| | | 385.0 | 74.4 | 4.94 | 80.4 | 5.88 | 87.6 | 6.86 | 95.2 | 7.76 | 98.2 | 7.92 | 102.2 | 8.08 | 104.8 | 8.30 |
| | | 462.0 | 74.4 | 4.86 | 80.4 | 5.82 | 87.6 | 6.78 | 95.2 | 7.68 | 98.2 | 7.82 | 102.2 | 8.00 | 104.8 | 8.24 |
| | 15 | 123.2 | 74.0 | 7.58 | 80.0 | 8.80 | 87.2 | 10.22 | 94.8 | 11.50 | 97.6 | 11.76 | 101.4 | 12.06 | 104.2 | 12.28 |
| | | 154.0 | 74.0 | 7.42 | 80.0 | 8.66 | 87.2 | 10.06 | 94.8 | 11.32 | 97.6 | 11.58 | 101.4 | 11.88 | 104.2 | 12.08 |
| | | 308.0 | 74.0 | 6.82 | 80.0 | 8.06 | 87.2 | 9.42 | 94.8 | 10.60 | 97.6 | 10.86 | 101.4 | 11.12 | 104.2 | 11.32 |
| | | 385.0 | 74.0 | 6.62 | 80.0 | 7.88 | 87.2 | 9.20 | 94.8 | 10.40 | 97.6 | 10.64 | 101.4 | 10.90 | 104.2 | 11.06 |
| | | 462.0 | 74.0 | 6.52 | 80.0 | 7.80 | 87.2 | 9.10 | 94.8 | 10.28 | 97.6 | 10.54 | 101.4 | 10.80 | 104.2 | 10.94 |
| | 20 | 123.2 | 73.6 | 9.26 | 79.6 | 10.78 | 86.8 | 12.54 | 94.2 | 14.10 | 97.0 | 14.44 | 100.8 | 14.78 | 103.6 | 15.08 |
| | | 154.0 | 73.6 | 9.08 | 79.6 | 10.60 | 86.8 | 12.34 | 94.2 | 13.86 | 97.0 | 14.20 | 100.8 | 14.54 | 103.6 | 14.84 |
| | | 308.0 | 73.6 | 8.36 | 79.6 | 9.88 | 86.8 | 11.54 | 94.2 | 12.98 | 97.0 | 13.28 | 100.8 | 13.66 | 103.6 | 13.92 |
| | | 385.0 | 73.6 | 8.10 | 79.6 | 9.66 | 86.8 | 11.28 | 94.2 | 12.72 | 97.0 | 13.06 | 100.8 | 13.40 | 103.6 | 13.52 |
| | | 462.0 | 73.6 | 7.98 | 79.6 | 9.56 | 86.8 | 11.16 | 94.2 | 12.60 | 97.0 | 12.96 | 100.8 | 13.28 | 103.6 | 13.34 |
| | 25 | 123.2 | 73.6 | 11.34 | 79.6 | 13.20 | 86.8 | 15.34 | 94.2 | 17.28 | 97.0 | 17.66 | 100.8 | 18.10 | 103.6 | 18.44 |
| | | 154.0 | 73.6 | 11.12 | 79.6 | 12.98 | 86.8 | 15.10 | 94.2 | 17.00 | 97.0 | 17.38 | 100.8 | 17.82 | 103.6 | 18.16 |
| | | 308.0 | 73.6 | 10.22 | 79.6 | 12.12 | 86.8 | 14.12 | 94.2 | 15.90 | 97.0 | 16.28 | 100.8 | 16.70 | 103.6 | 17.00 |
| | | 385.0 | 73.6 | 9.92 | 79.6 | 11.88 | 86.8 | 13.82 | 94.2 | 15.56 | 97.0 | 15.98 | 100.8 | 16.36 | 103.6 | 16.58 |
| | | 462.0 | 73.6 | 9.78 | 79.6 | 11.74 | 86.8 | 13.68 | 94.2 | 15.40 | 97.0 | 15.84 | 100.8 | 16.20 | 103.6 | 16.38 |
| | 30 | 123.2 | 73.6 | 13.80 | 79.6 | 16.08 | 86.8 | 18.70 | 94.2 | 21.08 | 97.0 | 21.54 | 100.8 | 22.10 | 103.6 | 22.50 |
| | | 154.0 | 73.6 | 13.52 | 79.6 | 15.82 | 86.8 | 18.40 | 94.2 | 20.74 | 97.0 | 21.20 | 100.8 | 21.76 | 103.6 | 22.14 |
| | | 308.0 | 73.6 | 12.46 | 79.6 | 14.76 | 86.8 | 17.22 | 94.2 | 19.38 | 97.0 | 19.84 | 100.8 | 20.36 | 103.6 | 20.74 |
| | | 385.0 | 73.6 | 12.12 | 79.6 | 14.46 | 86.8 | 16.84 | 94.2 | 19.00 | 97.0 | 19.46 | 100.8 | 19.98 | 103.6 | 20.22 |
| | | 462.0 | 73.6 | 11.96 | 79.6 | 14.32 | 86.8 | 16.64 | 94.2 | 18.80 | 97.0 | 19.28 | 100.8 | 19.78 | 103.6 | 19.98 |
| | 35 | 123.2 | 68.4 | 14.36 | 74.2 | 16.68 | 80.8 | 19.44 | 87.8 | 21.90 | 90.4 | 22.40 | 94.0 | 22.96 | 96.6 | 23.40 |
| | | 154.0 | 68.4 | 14.08 | 74.2 | 16.42 | 80.8 | 19.12 | 87.8 | 21.54 | 90.4 | 22.06 | 94.0 | 22.60 | 96.6 | 23.02 |
| | | 308.0 | 68.4 | 12.94 | 74.2 | 15.36 | 80.8 | 17.90 | 87.8 | 20.14 | 90.4 | 20.66 | 94.0 | 21.16 | 96.6 | 21.54 |
| | | 385.0 | 68.4 | 12.60 | 74.2 | 15.02 | 80.8 | 17.52 | 87.8 | 19.76 | 90.4 | 20.22 | 94.0 | 20.78 | 96.6 | 21.04 |
| | | 462.0 | 68.4 | 12.42 | 74.2 | 14.84 | 80.8 | 17.32 | 87.8 | 19.58 | 90.4 | 20.02 | 94.0 | 20.60 | 96.6 | 20.78 |
| | 40 | 123.2 | 63.4 | 15.80 | 68.6 | 18.32 | 75.0 | 21.38 | 81.4 | 24.04 | 83.8 | 24.62 | 87.2 | 25.20 | 89.4 | 25.68 |
| | | 154.0 | 63.4 | 15.48 | 68.6 | 18.02 | 75.0 | 21.04 | 81.4 | 23.66 | 83.8 | 24.22 | 87.2 | 24.80 | 89.4 | 25.28 |
| | | 308.0 | 63.4 | 14.20 | 68.6 | 16.88 | 75.0 | 19.64 | 81.4 | 22.14 | 83.8 | 22.64 | 87.2 | 23.24 | 89.4 | 23.70 |
| | | 385.0 | 63.4 | 13.82 | 68.6 | 16.50 | 75.0 | 19.26 | 81.4 | 21.72 | 83.8 | 22.22 | 87.2 | 22.82 | 89.4 | 23.12 |
| | | 462.0 | 63.4 | 13.64 | 68.6 | 16.30 | 75.0 | 19.06 | 81.4 | 21.50 | 83.8 | 22.02 | 87.2 | 22.60 | 89.4 | 22.82 |
| | 45 | 123.2 | 58.4 | 17.24 | 63.2 | 19.94 | 69.0 | 23.34 | 75.0 | 26.20 | 77.0 | 26.82 | 80.2 | 27.44 | 82.4 | 27.94 |
| | | 154.0 | 58.4 | 16.88 | 63.2 | 19.64 | 69.0 | 22.94 | 75.0 | 25.78 | 77.0 | 26.38 | 80.2 | 27.02 | 82.4 | 27.52 |
| | | 308.0 | 58.4 | 15.48 | 63.2 | 18.40 | 69.0 | 21.38 | 75.0 | 24.14 | 77.0 | 24.64 | 80.2 | 25.32 | 82.4 | 25.86 |
| | | 385.0 | 58.4 | 15.06 | 63.2 | 17.98 | 69.0 | 21.00 | 75.0 | 23.66 | 77.0 | 24.22 | 80.2 | 24.86 | 82.4 | 25.20 |
| | | 462.0 | 58.4 | 14.84 | 63.2 | 17.78 | 69.0 | 20.80 | 75.0 | 23.44 | 77.0 | 24.00 | 80.2 | 24.62 | 82.4 | 24.86 |
| 100 | 10 | 123.2 | 70.0 | 5.28 | 75.6 | 6.20 | 82.4 | 7.16 | 89.6 | 8.02 | 92.4 | 8.22 | 95.8 | 8.50 | 98.6 | 8.68 |
| | | 154.0 | 70.0 | 5.18 | 75.6 | 6.08 | 82.4 | 7.06 | 89.6 | 7.90 | 92.4 | 8.12 | 95.8 | 8.36 | 98.6 | 8.52 |
| | | 308.0 | 70.0 | 4.78 | 75.6 | 5.62 | 82.4 | 6.62 | 89.6 | 7.46 | 92.4 | 7.68 | 95.8 | 7.84 | 98.6 | 7.90 |
| | | 385.0 | 70.0 | 4.70 | 75.6 | 5.50 | 82.4 | 6.48 | 89.6 | 7.26 | 92.4 | 7.46 | 95.8 | 7.68 | 98.6 | 7.80 |
| | | 462.0 | 70.0 | 4.66 | 75.6 | 5.44 | 82.4 | 6.42 | 89.6 | 7.16 | 92.4 | 7.36 | 95.8 | 7.58 | 98.6 | 7.74 |
| | 15 | 123.2 | 70.0 | 7.18 | 75.6 | 8.36 | 82.4 | 9.74 | 89.6 | 10.94 | 92.4 | 11.20 | 95.8 | 11.50 | 98.6 | 11.72 |
| | | 154.0 | 70.0 | 7.04 | 75.6 | 8.22 | 82.4 | 9.58 | 89.6 | 10.78 | 92.4 | 11.02 | 95.8 | 11.32 | 98.6 | 11.54 |
| | | 308.0 | 70.0 | 6.48 | 75.6 | 7.68 | 82.4 | 8.94 | 89.6 | 10.10 | 92.4 | 10.34 | 95.8 | 10.60 | 98.6 | 10.78 |
| | | 385.0 | 70.0 | 6.32 | 75.6 | 7.50 | 82.4 | 8.78 | 89.6 | 9.88 | 92.4 | 10.14 | 95.8 | 10.40 | 98.6 | 10.52 |
| | | 462.0 | 70.0 | 6.24 | 75.6 | 7.42 | 82.4 | 8.70 | 89.6 | 9.78 | 92.4 | 10.04 | 95.8 | 10.28 | 98.6 | 10.40 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 123.2 | 70.0 | 8.86 | 75.6 | 10.30 | 82.4 | 12.04 | 89.6 | 13.54 | 92.4 | 13.84 | 95.8 | 14.18 | 98.6 | 14.44 |
| | | 154.0 | 70.0 | 8.70 | 75.6 | 10.14 | 82.4 | 11.84 | 89.6 | 13.32 | 92.4 | 13.62 | 95.8 | 13.96 | 98.6 | 14.20 |
| | | 308.0 | 70.0 | 8.02 | 75.6 | 9.50 | 82.4 | 11.02 | 89.6 | 12.42 | 92.4 | 12.72 | 95.8 | 13.06 | 98.6 | 13.32 |
| | | 385.0 | 70.0 | 7.76 | 75.6 | 9.28 | 82.4 | 10.82 | 89.6 | 12.22 | 92.4 | 12.52 | 95.8 | 12.80 | 98.6 | 12.94 |
| | | 462.0 | 70.0 | 7.64 | 75.6 | 9.18 | 82.4 | 10.70 | 89.6 | 12.10 | 92.4 | 12.40 | 95.8 | 12.68 | 98.6 | 12.74 |
| | 25 | 123.2 | 70.0 | 10.82 | 75.6 | 12.58 | 82.4 | 14.66 | 89.6 | 16.52 | 92.4 | 16.90 | 95.8 | 17.28 | 98.6 | 17.64 |
| | | 154.0 | 70.0 | 10.60 | 75.6 | 12.38 | 82.4 | 14.42 | 89.6 | 16.24 | 92.4 | 16.62 | 95.8 | 17.00 | 98.6 | 17.34 |
| | | 308.0 | 70.0 | 9.76 | 75.6 | 11.58 | 82.4 | 13.48 | 89.6 | 15.18 | 92.4 | 15.52 | 95.8 | 15.94 | 98.6 | 16.20 |
| | | 385.0 | 70.0 | 9.50 | 75.6 | 11.32 | 82.4 | 13.18 | 89.6 | 14.88 | 92.4 | 15.22 | 95.8 | 15.64 | 98.6 | 15.78 |
| | | 462.0 | 70.0 | 9.38 | 75.6 | 11.20 | 82.4 | 13.04 | 89.6 | 14.74 | 92.4 | 15.08 | 95.8 | 15.50 | 98.6 | 15.56 |
| | 30 | 123.2 | 70.0 | 13.32 | 75.6 | 15.48 | 82.4 | 18.02 | 89.6 | 20.30 | 92.4 | 20.78 | 95.8 | 21.30 | 98.6 | 21.68 |
| | | 154.0 | 70.0 | 13.06 | 75.6 | 15.22 | 82.4 | 17.72 | 89.6 | 19.98 | 92.4 | 20.44 | 95.8 | 20.96 | 98.6 | 21.34 |
| | | 308.0 | 70.0 | 12.00 | 75.6 | 14.20 | 82.4 | 16.58 | 89.6 | 18.66 | 92.4 | 19.08 | 95.8 | 19.60 | 98.6 | 19.94 |
| | | 385.0 | 70.0 | 11.66 | 75.6 | 13.92 | 82.4 | 16.24 | 89.6 | 18.28 | 92.4 | 18.74 | 95.8 | 19.22 | 98.6 | 19.42 |
| | | 462.0 | 70.0 | 11.50 | 75.6 | 13.76 | 82.4 | 16.08 | 89.6 | 18.08 | 92.4 | 18.58 | 95.8 | 19.02 | 98.6 | 19.18 |
| | 35 | 123.2 | 66.4 | 14.06 | 72.0 | 16.34 | 78.2 | 19.02 | 85.2 | 21.44 | 87.8 | 21.94 | 91.0 | 22.44 | 93.6 | 22.84 |
| | | 154.0 | 66.4 | 13.78 | 72.0 | 16.08 | 78.2 | 18.70 | 85.2 | 21.08 | 87.8 | 21.58 | 91.0 | 22.10 | 93.6 | 22.48 |
| | | 308.0 | 66.4 | 12.68 | 72.0 | 15.02 | 78.2 | 17.48 | 85.2 | 19.68 | 87.8 | 20.18 | 91.0 | 20.70 | 93.6 | 21.04 |
| | | 385.0 | 66.4 | 12.30 | 72.0 | 14.72 | 78.2 | 17.14 | 85.2 | 19.30 | 87.8 | 19.80 | 91.0 | 20.32 | 93.6 | 20.48 |
| | | 462.0 | 66.4 | 12.10 | 72.0 | 14.56 | 78.2 | 16.96 | 85.2 | 19.10 | 87.8 | 19.62 | 91.0 | 20.12 | 93.6 | 20.20 |
| | 40 | 123.2 | 62.8 | 15.74 | 68.0 | 18.32 | 74.2 | 21.34 | 80.6 | 24.00 | 83.0 | 24.62 | 86.2 | 25.22 | 88.8 | 25.64 |
| | | 154.0 | 62.8 | 15.44 | 68.0 | 18.02 | 74.2 | 21.00 | 80.6 | 23.62 | 83.0 | 24.22 | 86.2 | 24.80 | 88.8 | 25.24 |
| | | 308.0 | 62.8 | 14.20 | 68.0 | 16.84 | 74.2 | 19.64 | 80.6 | 22.10 | 83.0 | 22.60 | 86.2 | 23.20 | 88.8 | 23.62 |
| | | 385.0 | 62.8 | 13.82 | 68.0 | 16.50 | 74.2 | 19.22 | 80.6 | 21.68 | 83.0 | 22.22 | 86.2 | 22.78 | 88.8 | 22.98 |
| | | 462.0 | 62.8 | 13.64 | 68.0 | 16.32 | 74.2 | 19.00 | 80.6 | 21.46 | 83.0 | 22.04 | 86.2 | 22.56 | 88.8 | 22.66 |
| | 45 | 123.2 | 59.2 | 17.44 | 64.2 | 20.30 | 70.0 | 23.66 | 76.2 | 26.58 | 78.2 | 27.30 | 81.4 | 27.98 | 83.8 | 28.44 |
| | | 154.0 | 59.2 | 17.10 | 64.2 | 19.98 | 70.0 | 23.28 | 76.2 | 26.16 | 78.2 | 26.84 | 81.4 | 27.52 | 83.8 | 28.00 |
| | | 308.0 | 59.2 | 15.74 | 64.2 | 18.66 | 70.0 | 21.80 | 76.2 | 24.52 | 78.2 | 25.02 | 81.4 | 25.70 | 83.8 | 26.20 |
| | | 385.0 | 59.2 | 15.36 | 64.2 | 18.28 | 70.0 | 21.28 | 76.2 | 24.04 | 78.2 | 24.64 | 81.4 | 25.24 | 83.8 | 25.48 |
| | | 462.0 | 59.2 | 15.16 | 64.2 | 18.08 | 70.0 | 21.04 | 76.2 | 23.82 | 78.2 | 24.44 | 81.4 | 25.00 | 83.8 | 25.12 |
| 90 | 10 | 123.2 | 62.8 | 4.58 | 68.0 | 5.30 | 74.2 | 6.12 | 80.6 | 6.96 | 83.0 | 7.14 | 86.2 | 7.34 | 88.8 | 7.48 |
| | | 154.0 | 62.8 | 4.50 | 68.0 | 5.22 | 74.2 | 6.04 | 80.6 | 6.86 | 83.0 | 7.02 | 86.2 | 7.22 | 88.8 | 7.34 |
| | | 308.0 | 62.8 | 4.16 | 68.0 | 4.90 | 74.2 | 5.72 | 80.6 | 6.46 | 83.0 | 6.56 | 86.2 | 6.74 | 88.8 | 6.86 |
| | | 385.0 | 62.8 | 4.00 | 68.0 | 4.82 | 74.2 | 5.54 | 80.6 | 6.28 | 83.0 | 6.44 | 86.2 | 6.62 | 88.8 | 6.64 |
| | | 462.0 | 62.8 | 3.92 | 68.0 | 4.78 | 74.2 | 5.46 | 80.6 | 6.20 | 83.0 | 6.38 | 86.2 | 6.54 | 88.8 | 6.54 |
| | 15 | 123.2 | 62.8 | 6.18 | 68.0 | 7.20 | 74.2 | 8.36 | 80.6 | 9.44 | 83.0 | 9.64 | 86.2 | 9.92 | 88.8 | 10.08 |
| | | 154.0 | 62.8 | 6.06 | 68.0 | 7.08 | 74.2 | 8.22 | 80.6 | 9.28 | 83.0 | 9.50 | 86.2 | 9.76 | 88.8 | 9.92 |
| | | 308.0 | 62.8 | 5.60 | 68.0 | 6.62 | 74.2 | 7.72 | 80.6 | 8.70 | 83.0 | 8.90 | 86.2 | 9.12 | 88.8 | 9.28 |
| | | 385.0 | 62.8 | 5.42 | 68.0 | 6.48 | 74.2 | 7.54 | 80.6 | 8.52 | 83.0 | 8.74 | 86.2 | 8.94 | 88.8 | 9.04 |
| | | 462.0 | 62.8 | 5.34 | 68.0 | 6.42 | 74.2 | 7.46 | 80.6 | 8.44 | 83.0 | 8.66 | 86.2 | 8.86 | 88.8 | 8.90 |
| | 20 | 123.2 | 62.8 | 7.62 | 68.0 | 8.88 | 74.2 | 10.34 | 80.6 | 11.64 | 83.0 | 11.88 | 86.2 | 12.20 | 88.8 | 12.40 |
| | | 154.0 | 62.8 | 7.46 | 68.0 | 8.74 | 74.2 | 10.18 | 80.6 | 11.46 | 83.0 | 11.70 | 86.2 | 12.00 | 88.8 | 12.22 |
| | | 308.0 | 62.8 | 6.88 | 68.0 | 8.14 | 74.2 | 9.50 | 80.6 | 10.68 | 83.0 | 10.98 | 86.2 | 11.24 | 88.8 | 11.46 |
| | | 385.0 | 62.8 | 6.70 | 68.0 | 7.98 | 74.2 | 9.34 | 80.6 | 10.52 | 83.0 | 10.78 | 86.2 | 11.02 | 88.8 | 11.16 |
| | | 462.0 | 62.8 | 6.62 | 68.0 | 7.88 | 74.2 | 9.24 | 80.6 | 10.44 | 83.0 | 10.66 | 86.2 | 10.92 | 88.8 | 11.00 |
| | 25 | 123.2 | 62.8 | 9.30 | 68.0 | 10.82 | 74.2 | 12.58 | 80.6 | 14.18 | 83.0 | 14.52 | 86.2 | 14.86 | 88.8 | 15.18 |
| | | 154.0 | 62.8 | 9.12 | 68.0 | 10.64 | 74.2 | 12.38 | 80.6 | 13.96 | 83.0 | 14.30 | 86.2 | 14.64 | 88.8 | 14.92 |
| | | 308.0 | 62.8 | 8.40 | 68.0 | 9.96 | 74.2 | 11.58 | 80.6 | 13.06 | 83.0 | 13.36 | 86.2 | 13.70 | 88.8 | 13.96 |
| | | 385.0 | 62.8 | 8.14 | 68.0 | 9.76 | 74.2 | 11.36 | 80.6 | 12.80 | 83.0 | 13.10 | 86.2 | 13.44 | 88.8 | 13.62 |
| | | 462.0 | 62.8 | 8.02 | 68.0 | 9.64 | 74.2 | 11.26 | 80.6 | 12.68 | 83.0 | 12.98 | 86.2 | 13.32 | 88.8 | 13.44 |
| | 30 | 123.2 | 62.8 | 11.48 | 68.0 | 13.32 | 74.2 | 15.52 | 80.6 | 17.46 | 83.0 | 17.88 | 86.2 | 18.32 | 88.8 | 18.66 |
| | | 154.0 | 62.8 | 11.24 | 68.0 | 13.10 | 74.2 | 15.26 | 80.6 | 17.18 | 83.0 | 17.60 | 86.2 | 18.02 | 88.8 | 18.36 |
| | | 308.0 | 62.8 | 10.30 | 68.0 | 12.26 | 74.2 | 14.24 | 80.6 | 16.08 | 83.0 | 16.46 | 86.2 | 16.88 | 88.8 | 17.18 |
| | | 385.0 | 62.8 | 10.06 | 68.0 | 12.00 | 74.2 | 13.96 | 80.6 | 15.74 | 83.0 | 16.16 | 86.2 | 16.54 | 88.8 | 16.70 |
| | | 462.0 | 62.8 | 9.92 | 68.0 | 11.88 | 74.2 | 13.80 | 80.6 | 15.56 | 83.0 | 16.02 | 86.2 | 16.38 | 88.8 | 16.48 |
| | 35 | 123.2 | 61.2 | 12.38 | 66.2 | 14.34 | 72.2 | 16.72 | 78.4 | 18.84 | 80.8 | 19.26 | 83.8 | 19.74 | 86.2 | 20.12 |
| | | 154.0 | 61.2 | 12.12 | 66.2 | 14.12 | 72.2 | 16.46 | 78.4 | 18.54 | 80.8 | 18.96 | 83.8 | 19.42 | 86.2 | 19.80 |
| | | 308.0 | 61.2 | 11.16 | 66.2 | 13.24 | 72.2 | 15.40 | 78.4 | 17.34 | 80.8 | 17.72 | 83.8 | 18.20 | 86.2 | 18.54 |
| | | 385.0 | 61.2 | 10.82 | 66.2 | 12.94 | 72.2 | 15.06 | 78.4 | 17.00 | 80.8 | 17.44 | 83.8 | 17.86 | 86.2 | 18.02 |
| | | 462.0 | 61.2 | 10.64 | 66.2 | 12.78 | 72.2 | 14.88 | 78.4 | 16.84 | 80.8 | 17.28 | 83.8 | 17.68 | 86.2 | 17.78 |
| | 40 | 123.2 | 59.4 | 14.18 | 64.4 | 16.52 | 70.0 | 19.22 | 76.2 | 21.64 | 78.4 | 22.16 | 81.6 | 22.72 | 83.8 | 23.10 |
| | | 154.0 | 59.4 | 13.92 | 64.4 | 16.24 | 70.0 | 18.92 | 76.2 | 21.28 | 78.4 | 21.80 | 81.6 | 22.34 | 83.8 | 22.74 |
| | | 308.0 | 59.4 | 12.80 | 64.4 | 15.18 | 70.0 | 17.68 | 76.2 | 19.88 | 78.4 | 20.40 | 81.6 | 20.90 | 83.8 | 21.28 |
| | | 385.0 | 59.4 | 12.42 | 64.4 | 14.84 | 70.0 | 17.30 | 76.2 | 19.50 | 78.4 | 20.02 | 81.6 | 20.52 | 83.8 | 20.74 |
| | | 462.0 | 59.4 | 12.24 | 64.4 | 14.68 | 70.0 | 17.12 | 76.2 | 19.32 | 78.4 | 19.82 | 81.6 | 20.34 | 83.8 | 20.46 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 123.2 | 57.6 | 16.00 | 62.4 | 18.68 | 68.0 | 21.72 | 74.0 | 24.46 | 76.0 | 25.04 | 79.2 | 25.70 | 81.2 | 26.06 |
| | | 154.0 | 57.6 | 15.70 | 62.4 | 18.36 | 68.0 | 21.38 | 74.0 | 24.04 | 76.0 | 24.64 | 79.2 | 25.28 | 81.2 | 25.66 |
| | | 308.0 | 57.6 | 14.46 | 62.4 | 17.14 | 68.0 | 19.98 | 74.0 | 22.44 | 76.0 | 23.08 | 79.2 | 23.62 | 81.2 | 24.04 |
| | | 385.0 | 57.6 | 14.04 | 62.4 | 16.76 | 68.0 | 19.56 | 74.0 | 22.02 | 76.0 | 22.60 | 79.2 | 23.20 | 81.2 | 23.46 |
| | | 462.0 | 57.6 | 13.82 | 62.4 | 16.56 | 68.0 | 19.34 | 74.0 | 21.80 | 76.0 | 22.38 | 79.2 | 22.98 | 81.2 | 23.16 |
| 80 | 10 | 123.2 | 55.8 | 3.84 | 60.6 | 4.42 | 66.0 | 5.20 | 71.6 | 5.90 | 73.8 | 5.96 | 76.6 | 6.20 | 78.8 | 6.22 |
| | | 154.0 | 55.8 | 3.76 | 60.6 | 4.36 | 66.0 | 5.10 | 71.6 | 5.80 | 73.8 | 5.88 | 76.6 | 6.08 | 78.8 | 6.12 |
| | | 308.0 | 55.8 | 3.42 | 60.6 | 4.12 | 66.0 | 4.72 | 71.6 | 5.38 | 73.8 | 5.50 | 76.6 | 5.62 | 78.8 | 5.70 |
| | | 385.0 | 55.8 | 3.34 | 60.6 | 4.00 | 66.0 | 4.64 | 71.6 | 5.22 | 73.8 | 5.34 | 76.6 | 5.56 | 78.8 | 5.64 |
| | | 462.0 | 55.8 | 3.30 | 60.6 | 3.94 | 66.0 | 4.60 | 71.6 | 5.14 | 73.8 | 5.26 | 76.6 | 5.52 | 78.8 | 5.60 |
| | 15 | 123.2 | 55.8 | 5.20 | 60.6 | 6.04 | 66.0 | 7.04 | 71.6 | 7.94 | 73.8 | 8.10 | 76.6 | 8.32 | 78.8 | 8.46 |
| | | 154.0 | 55.8 | 5.08 | 60.6 | 5.94 | 66.0 | 6.92 | 71.6 | 7.80 | 73.8 | 7.98 | 76.6 | 8.18 | 78.8 | 8.32 |
| | | 308.0 | 55.8 | 4.66 | 60.6 | 5.56 | 66.0 | 6.44 | 71.6 | 7.30 | 73.8 | 7.46 | 76.6 | 7.64 | 78.8 | 7.76 |
| | | 385.0 | 55.8 | 4.54 | 60.6 | 5.42 | 66.0 | 6.32 | 71.6 | 7.12 | 73.8 | 7.30 | 76.6 | 7.50 | 78.8 | 7.60 |
| | | 462.0 | 55.8 | 4.48 | 60.6 | 5.36 | 66.0 | 6.26 | 71.6 | 7.04 | 73.8 | 7.20 | 76.6 | 7.44 | 78.8 | 7.50 |
| | 20 | 123.2 | 55.8 | 6.40 | 60.6 | 7.46 | 66.0 | 8.66 | 71.6 | 9.74 | 73.8 | 10.00 | 76.6 | 10.22 | 78.8 | 10.44 |
| | | 154.0 | 55.8 | 6.28 | 60.6 | 7.34 | 66.0 | 8.52 | 71.6 | 9.58 | 73.8 | 9.84 | 76.6 | 10.06 | 78.8 | 10.26 |
| | | 308.0 | 55.8 | 5.76 | 60.6 | 6.82 | 66.0 | 7.98 | 71.6 | 9.00 | 73.8 | 9.20 | 76.6 | 9.42 | 78.8 | 9.58 |
| | | 385.0 | 55.8 | 5.60 | 60.6 | 6.70 | 66.0 | 7.80 | 71.6 | 8.82 | 73.8 | 9.04 | 76.6 | 9.24 | 78.8 | 9.34 |
| | | 462.0 | 55.8 | 5.52 | 60.6 | 6.64 | 66.0 | 7.72 | 71.6 | 8.74 | 73.8 | 8.94 | 76.6 | 9.16 | 78.8 | 9.20 |
| | 25 | 123.2 | 55.8 | 7.78 | 60.6 | 9.04 | 66.0 | 10.56 | 71.6 | 11.90 | 73.8 | 12.20 | 76.6 | 12.50 | 78.8 | 12.72 |
| | | 154.0 | 55.8 | 7.64 | 60.6 | 8.90 | 66.0 | 10.40 | 71.6 | 11.70 | 73.8 | 12.00 | 76.6 | 12.30 | 78.8 | 12.52 |
| | | 308.0 | 55.8 | 7.04 | 60.6 | 8.36 | 66.0 | 9.72 | 71.6 | 10.94 | 73.8 | 11.20 | 76.6 | 11.50 | 78.8 | 11.70 |
| | | 385.0 | 55.8 | 6.82 | 60.6 | 8.18 | 66.0 | 9.54 | 71.6 | 10.72 | 73.8 | 10.98 | 76.6 | 11.28 | 78.8 | 11.40 |
| | | 462.0 | 55.8 | 6.72 | 60.6 | 8.10 | 66.0 | 9.46 | 71.6 | 10.62 | 73.8 | 10.88 | 76.6 | 11.18 | 78.8 | 11.26 |
| | 30 | 123.2 | 55.8 | 9.60 | 60.6 | 11.16 | 66.0 | 13.02 | 71.6 | 14.66 | 73.8 | 15.00 | 76.6 | 15.34 | 78.8 | 15.66 |
| | | 154.0 | 55.8 | 9.42 | 60.6 | 10.98 | 66.0 | 12.80 | 71.6 | 14.42 | 73.8 | 14.76 | 76.6 | 15.10 | 78.8 | 15.40 |
| | | 308.0 | 55.8 | 8.66 | 60.6 | 10.26 | 66.0 | 11.96 | 71.6 | 13.44 | 73.8 | 13.78 | 76.6 | 14.12 | 78.8 | 14.38 |
| | | 385.0 | 55.8 | 8.40 | 60.6 | 10.06 | 66.0 | 11.70 | 71.6 | 13.18 | 73.8 | 13.52 | 76.6 | 13.86 | 78.8 | 14.00 |
| | | 462.0 | 55.8 | 8.28 | 60.6 | 9.94 | 66.0 | 11.58 | 71.6 | 13.06 | 73.8 | 13.40 | 76.6 | 13.74 | 78.8 | 13.80 |
| | 35 | 123.2 | 55.8 | 10.68 | 60.6 | 12.42 | 66.0 | 14.44 | 71.6 | 16.24 | 73.8 | 16.64 | 76.6 | 17.08 | 78.8 | 17.36 |
| | | 154.0 | 55.8 | 10.48 | 60.6 | 12.22 | 66.0 | 14.20 | 71.6 | 15.98 | 73.8 | 16.36 | 76.6 | 16.80 | 78.8 | 17.10 |
| | | 308.0 | 55.8 | 9.62 | 60.6 | 11.40 | 66.0 | 13.28 | 71.6 | 14.98 | 73.8 | 15.30 | 76.6 | 15.70 | 78.8 | 15.98 |
| | | 385.0 | 55.8 | 9.38 | 60.6 | 11.16 | 66.0 | 13.02 | 71.6 | 14.68 | 73.8 | 15.02 | 76.6 | 15.44 | 78.8 | 15.56 |
| | | 462.0 | 55.8 | 9.24 | 60.6 | 11.02 | 66.0 | 12.90 | 71.6 | 14.52 | 73.8 | 14.86 | 76.6 | 15.32 | 78.8 | 15.36 |
| | 40 | 123.2 | 55.8 | 12.62 | 60.6 | 14.70 | 66.0 | 17.12 | 71.6 | 19.26 | 73.8 | 19.70 | 76.6 | 20.22 | 78.8 | 20.56 |
| | | 154.0 | 55.8 | 12.38 | 60.6 | 14.46 | 66.0 | 16.84 | 71.6 | 18.96 | 73.8 | 19.38 | 76.6 | 19.88 | 78.8 | 20.22 |
| | | 308.0 | 55.8 | 11.40 | 60.6 | 13.48 | 66.0 | 15.74 | 71.6 | 17.72 | 73.8 | 18.16 | 76.6 | 18.62 | 78.8 | 18.96 |
| | | 385.0 | 55.8 | 11.06 | 60.6 | 13.24 | 66.0 | 15.40 | 71.6 | 17.38 | 73.8 | 17.82 | 76.6 | 18.24 | 78.8 | 18.44 |
| | | 462.0 | 55.8 | 10.90 | 60.6 | 13.10 | 66.0 | 15.22 | 71.6 | 17.22 | 73.8 | 17.64 | 76.6 | 18.04 | 78.8 | 18.20 |
| | 45 | 123.2 | 55.8 | 14.58 | 60.6 | 17.00 | 66.0 | 19.78 | 71.6 | 22.28 | 73.8 | 22.74 | 76.6 | 23.34 | 78.8 | 23.74 |
| | | 154.0 | 55.8 | 14.30 | 60.6 | 16.70 | 66.0 | 19.46 | 71.6 | 21.92 | 73.8 | 22.40 | 76.6 | 22.98 | 78.8 | 23.36 |
| | | 308.0 | 55.8 | 13.18 | 60.6 | 15.56 | 66.0 | 18.20 | 71.6 | 20.48 | 73.8 | 21.00 | 76.6 | 21.54 | 78.8 | 21.92 |
| | | 385.0 | 55.8 | 12.76 | 60.6 | 15.30 | 66.0 | 17.76 | 71.6 | 20.10 | 73.8 | 20.62 | 76.6 | 21.04 | 78.8 | 21.34 |
| | | 462.0 | 55.8 | 12.56 | 60.6 | 15.18 | 66.0 | 17.56 | 71.6 | 19.92 | 73.8 | 20.42 | 76.6 | 20.78 | 78.8 | 21.04 |
| 70 | 10 | 123.2 | 49.0 | 3.20 | 53.0 | 3.68 | 57.8 | 4.36 | 62.8 | 4.90 | 64.6 | 4.92 | 67.0 | 5.10 | 69.0 | 5.18 |
| | | 154.0 | 49.0 | 3.14 | 53.0 | 3.64 | 57.8 | 4.28 | 62.8 | 4.82 | 64.6 | 4.86 | 67.0 | 5.02 | 69.0 | 5.10 |
| | | 308.0 | 49.0 | 2.90 | 53.0 | 3.42 | 57.8 | 4.00 | 62.8 | 4.50 | 64.6 | 4.56 | 67.0 | 4.70 | 69.0 | 4.82 |
| | | 385.0 | 49.0 | 2.78 | 53.0 | 3.30 | 57.8 | 3.88 | 62.8 | 4.36 | 64.6 | 4.44 | 67.0 | 4.62 | 69.0 | 4.70 |
| | | 462.0 | 49.0 | 2.70 | 53.0 | 3.24 | 57.8 | 3.82 | 62.8 | 4.30 | 64.6 | 4.38 | 67.0 | 4.58 | 69.0 | 4.64 |
| | 15 | 123.2 | 49.0 | 4.32 | 53.0 | 5.00 | 57.8 | 5.86 | 62.8 | 6.60 | 64.6 | 6.72 | 67.0 | 6.90 | 69.0 | 7.02 |
| | | 154.0 | 49.0 | 4.24 | 53.0 | 4.92 | 57.8 | 5.76 | 62.8 | 6.48 | 64.6 | 6.62 | 67.0 | 6.78 | 69.0 | 6.92 |
| | | 308.0 | 49.0 | 3.90 | 53.0 | 4.62 | 57.8 | 5.38 | 62.8 | 6.06 | 64.6 | 6.20 | 67.0 | 6.36 | 69.0 | 6.48 |
| | | 385.0 | 49.0 | 3.78 | 53.0 | 4.50 | 57.8 | 5.26 | 62.8 | 5.94 | 64.6 | 6.06 | 67.0 | 6.24 | 69.0 | 6.32 |
| | | 462.0 | 49.0 | 3.72 | 53.0 | 4.44 | 57.8 | 5.20 | 62.8 | 5.88 | 64.6 | 6.00 | 67.0 | 6.18 | 69.0 | 6.24 |
| | 20 | 123.2 | 49.0 | 5.32 | 53.0 | 6.16 | 57.8 | 7.20 | 62.8 | 8.10 | 64.6 | 8.32 | 67.0 | 8.48 | 69.0 | 8.66 |
| | | 154.0 | 49.0 | 5.22 | 53.0 | 6.06 | 57.8 | 7.08 | 62.8 | 7.98 | 64.6 | 8.18 | 67.0 | 8.36 | 69.0 | 8.52 |
| | | 308.0 | 49.0 | 4.80 | 53.0 | 5.68 | 57.8 | 6.62 | 62.8 | 7.46 | 64.6 | 7.64 | 67.0 | 7.84 | 69.0 | 7.98 |
| | | 385.0 | 49.0 | 4.66 | 53.0 | 5.56 | 57.8 | 6.48 | 62.8 | 7.34 | 64.6 | 7.50 | 67.0 | 7.68 | 69.0 | 7.76 |
| | | 462.0 | 49.0 | 4.60 | 53.0 | 5.50 | 57.8 | 6.42 | 62.8 | 7.28 | 64.6 | 7.44 | 67.0 | 7.60 | 69.0 | 7.66 |
| | 25 | 123.2 | 49.0 | 6.48 | 53.0 | 7.54 | 57.8 | 8.80 | 62.8 | 9.92 | 64.6 | 10.12 | 67.0 | 10.40 | 69.0 | 10.56 |
| | | 154.0 | 49.0 | 6.36 | 53.0 | 7.42 | 57.8 | 8.66 | 62.8 | 9.76 | 64.6 | 9.96 | 67.0 | 10.22 | 69.0 | 10.40 |
| | | 308.0 | 49.0 | 5.86 | 53.0 | 6.96 | 57.8 | 8.10 | 62.8 | 9.12 | 64.6 | 9.34 | 67.0 | 9.54 | 69.0 | 9.72 |
| | | 385.0 | 49.0 | 5.68 | 53.0 | 6.78 | 57.8 | 7.94 | 62.8 | 8.90 | 64.6 | 9.16 | 67.0 | 9.38 | 69.0 | 9.46 |
| | | 462.0 | 49.0 | 5.60 | 53.0 | 6.70 | 57.8 | 7.84 | 62.8 | 8.80 | 64.6 | 9.08 | 67.0 | 9.28 | 69.0 | 9.34 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 123.2 | 49.0 | 8.00 | 53.0 | 9.26 | 57.8 | 10.82 | 62.8 | 12.16 | 64.6 | 12.46 | 67.0 | 12.76 | 69.0 | 12.96 |
| | | 154.0 | 49.0 | 7.84 | 53.0 | 9.12 | 57.8 | 10.64 | 62.8 | 11.96 | 64.6 | 12.26 | 67.0 | 12.56 | 69.0 | 12.76 |
| | | 308.0 | 49.0 | 7.20 | 53.0 | 8.52 | 57.8 | 9.92 | 62.8 | 11.20 | 64.6 | 11.46 | 67.0 | 11.74 | 69.0 | 11.96 |
| | | 385.0 | 49.0 | 7.00 | 53.0 | 8.36 | 57.8 | 9.76 | 62.8 | 10.98 | 64.6 | 11.24 | 67.0 | 11.54 | 69.0 | 11.66 |
| | | 462.0 | 49.0 | 6.90 | 53.0 | 8.28 | 57.8 | 9.66 | 62.8 | 10.88 | 64.6 | 11.14 | 67.0 | 11.42 | 69.0 | 11.52 |
| | 35 | 123.2 | 49.0 | 8.86 | 53.0 | 10.30 | 57.8 | 12.04 | 62.8 | 13.54 | 64.6 | 13.84 | 67.0 | 14.18 | 69.0 | 14.44 |
| | | 154.0 | 49.0 | 8.70 | 53.0 | 10.14 | 57.8 | 11.84 | 62.8 | 13.32 | 64.6 | 13.62 | 67.0 | 13.96 | 69.0 | 14.20 |
| | | 308.0 | 49.0 | 8.02 | 53.0 | 9.50 | 57.8 | 11.02 | 62.8 | 12.42 | 64.6 | 12.72 | 67.0 | 13.06 | 69.0 | 13.32 |
| | | 385.0 | 49.0 | 7.76 | 53.0 | 9.28 | 57.8 | 10.82 | 62.8 | 12.22 | 64.6 | 12.52 | 67.0 | 12.80 | 69.0 | 12.94 |
| | | 462.0 | 49.0 | 7.64 | 53.0 | 9.18 | 57.8 | 10.70 | 62.8 | 12.10 | 64.6 | 12.40 | 67.0 | 12.68 | 69.0 | 12.74 |
| | 40 | 123.2 | 49.0 | 10.52 | 53.0 | 12.20 | 57.8 | 14.24 | 62.8 | 16.00 | 64.6 | 16.38 | 67.0 | 16.80 | 69.0 | 17.12 |
| | | 154.0 | 49.0 | 10.30 | 53.0 | 12.00 | 57.8 | 14.00 | 62.8 | 15.74 | 64.6 | 16.12 | 67.0 | 16.54 | 69.0 | 16.84 |
| | | 308.0 | 49.0 | 9.46 | 53.0 | 11.24 | 57.8 | 13.06 | 62.8 | 14.72 | 64.6 | 15.10 | 67.0 | 15.48 | 69.0 | 15.74 |
| | | 385.0 | 49.0 | 9.20 | 53.0 | 10.98 | 57.8 | 12.80 | 62.8 | 14.46 | 64.6 | 14.80 | 67.0 | 15.18 | 69.0 | 15.36 |
| | | 462.0 | 49.0 | 9.08 | 53.0 | 10.86 | 57.8 | 12.68 | 62.8 | 14.34 | 64.6 | 14.66 | 67.0 | 15.04 | 69.0 | 15.16 |
| | 45 | 123.2 | 49.0 | 12.18 | 53.0 | 14.10 | 57.8 | 16.42 | 62.8 | 18.44 | 64.6 | 18.90 | 67.0 | 19.44 | 69.0 | 19.80 |
| | | 154.0 | 49.0 | 11.92 | 53.0 | 13.86 | 57.8 | 16.16 | 62.8 | 18.16 | 64.6 | 18.62 | 67.0 | 19.12 | 69.0 | 19.46 |
| | | 308.0 | 49.0 | 10.90 | 53.0 | 12.98 | 57.8 | 15.10 | 62.8 | 17.00 | 64.6 | 17.48 | 67.0 | 17.90 | 69.0 | 18.16 |
| | | 385.0 | 49.0 | 10.64 | 53.0 | 12.68 | 57.8 | 14.80 | 62.8 | 16.70 | 64.6 | 17.10 | 67.0 | 17.56 | 69.0 | 17.76 |
| | | 462.0 | 49.0 | 10.52 | 53.0 | 12.54 | 57.8 | 14.66 | 62.8 | 16.56 | 64.6 | 16.90 | 67.0 | 17.38 | 69.0 | 17.58 |
| 60 | 10 | 123.2 | 42.0 | 2.60 | 45.4 | 3.00 | 49.4 | 3.46 | 53.8 | 3.90 | 55.4 | 4.00 | 57.4 | 4.12 | 59.2 | 4.14 |
| | | 154.0 | 42.0 | 2.54 | 45.4 | 2.94 | 49.4 | 3.38 | 53.8 | 3.84 | 55.4 | 3.92 | 57.4 | 4.04 | 59.2 | 4.08 |
| | | 308.0 | 42.0 | 2.28 | 45.4 | 2.74 | 49.4 | 3.14 | 53.8 | 3.60 | 55.4 | 3.58 | 57.4 | 3.72 | 59.2 | 3.84 |
| | | 385.0 | 42.0 | 2.20 | 45.4 | 2.66 | 49.4 | 3.10 | 53.8 | 3.50 | 55.4 | 3.54 | 57.4 | 3.62 | 59.2 | 3.66 |
| | | 462.0 | 42.0 | 2.16 | 45.4 | 2.60 | 49.4 | 3.08 | 53.8 | 3.46 | 55.4 | 3.52 | 57.4 | 3.58 | 59.2 | 3.58 |
| | 15 | 123.2 | 42.0 | 3.46 | 45.4 | 4.00 | 49.4 | 4.66 | 53.8 | 5.26 | 55.4 | 5.40 | 57.4 | 5.52 | 59.2 | 5.60 |
| | | 154.0 | 42.0 | 3.40 | 45.4 | 3.94 | 49.4 | 4.58 | 53.8 | 5.18 | 55.4 | 5.30 | 57.4 | 5.42 | 59.2 | 5.52 |
| | | 308.0 | 42.0 | 3.10 | 45.4 | 3.68 | 49.4 | 4.28 | 53.8 | 4.84 | 55.4 | 4.92 | 57.4 | 5.04 | 59.2 | 5.18 |
| | | 385.0 | 42.0 | 3.02 | 45.4 | 3.60 | 49.4 | 4.20 | 53.8 | 4.74 | 55.4 | 4.84 | 57.4 | 4.96 | 59.2 | 5.00 |
| | | 462.0 | 42.0 | 2.96 | 45.4 | 3.56 | 49.4 | 4.16 | 53.8 | 4.70 | 55.4 | 4.80 | 57.4 | 4.92 | 59.2 | 4.92 |
| | 20 | 123.2 | 42.0 | 4.24 | 45.4 | 4.90 | 49.4 | 5.72 | 53.8 | 6.46 | 55.4 | 6.64 | 57.4 | 6.76 | 59.2 | 6.90 |
| | | 154.0 | 42.0 | 4.16 | 45.4 | 4.84 | 49.4 | 5.64 | 53.8 | 6.36 | 55.4 | 6.54 | 57.4 | 6.66 | 59.2 | 6.78 |
| | | 308.0 | 42.0 | 3.82 | 45.4 | 4.54 | 49.4 | 5.30 | 53.8 | 5.94 | 55.4 | 6.10 | 57.4 | 6.24 | 59.2 | 6.36 |
| | | 385.0 | 42.0 | 3.74 | 45.4 | 4.46 | 49.4 | 5.18 | 53.8 | 5.86 | 55.4 | 5.98 | 57.4 | 6.14 | 59.2 | 6.20 |
| | | 462.0 | 42.0 | 3.68 | 45.4 | 4.42 | 49.4 | 5.12 | 53.8 | 5.82 | 55.4 | 5.92 | 57.4 | 6.10 | 59.2 | 6.10 |
| | 25 | 123.2 | 42.0 | 5.20 | 45.4 | 6.00 | 49.4 | 6.98 | 53.8 | 7.88 | 55.4 | 8.06 | 57.4 | 8.28 | 59.2 | 8.40 |
| | | 154.0 | 42.0 | 5.08 | 45.4 | 5.90 | 49.4 | 6.88 | 53.8 | 7.76 | 55.4 | 7.94 | 57.4 | 8.14 | 59.2 | 8.26 |
| | | 308.0 | 42.0 | 4.66 | 45.4 | 5.52 | 49.4 | 6.44 | 53.8 | 7.26 | 55.4 | 7.42 | 57.4 | 7.64 | 59.2 | 7.76 |
| | | 385.0 | 42.0 | 4.54 | 45.4 | 5.42 | 49.4 | 6.32 | 53.8 | 7.12 | 55.4 | 7.30 | 57.4 | 7.46 | 59.2 | 7.54 |
| | | 462.0 | 42.0 | 4.48 | 45.4 | 5.38 | 49.4 | 6.26 | 53.8 | 7.06 | 55.4 | 7.24 | 57.4 | 7.38 | 59.2 | 7.44 |
| | 30 | 123.2 | 42.0 | 6.36 | 45.4 | 7.42 | 49.4 | 8.62 | 53.8 | 9.70 | 55.4 | 9.92 | 57.4 | 10.16 | 59.2 | 10.34 |
| | | 154.0 | 42.0 | 6.24 | 45.4 | 7.30 | 49.4 | 8.48 | 53.8 | 9.54 | 55.4 | 9.76 | 57.4 | 10.00 | 59.2 | 10.18 |
| | | 308.0 | 42.0 | 5.72 | 45.4 | 6.78 | 49.4 | 7.94 | 53.8 | 8.90 | 55.4 | 9.12 | 57.4 | 9.38 | 59.2 | 9.54 |
| | | 385.0 | 42.0 | 5.60 | 45.4 | 6.66 | 49.4 | 7.76 | 53.8 | 8.74 | 55.4 | 8.94 | 57.4 | 9.20 | 59.2 | 9.28 |
| | | 462.0 | 42.0 | 5.54 | 45.4 | 6.60 | 49.4 | 7.68 | 53.8 | 8.66 | 55.4 | 8.86 | 57.4 | 9.12 | 59.2 | 9.16 |
| | 35 | 123.2 | 42.0 | 7.06 | 45.4 | 8.24 | 49.4 | 9.56 | 53.8 | 10.78 | 55.4 | 11.04 | 57.4 | 11.28 | 59.2 | 11.50 |
| | | 154.0 | 42.0 | 6.92 | 45.4 | 8.10 | 49.4 | 9.42 | 53.8 | 10.60 | 55.4 | 10.86 | 57.4 | 11.12 | 59.2 | 11.32 |
| | | 308.0 | 42.0 | 6.36 | 45.4 | 7.54 | 49.4 | 8.82 | 53.8 | 9.92 | 55.4 | 10.14 | 57.4 | 10.44 | 59.2 | 10.60 |
| | | 385.0 | 42.0 | 6.20 | 45.4 | 7.38 | 49.4 | 8.60 | 53.8 | 9.72 | 55.4 | 9.96 | 57.4 | 10.22 | 59.2 | 10.30 |
| | | 462.0 | 42.0 | 6.10 | 45.4 | 7.30 | 49.4 | 8.50 | 53.8 | 9.60 | 55.4 | 9.88 | 57.4 | 10.12 | 59.2 | 10.16 |
| | 40 | 123.2 | 42.0 | 8.40 | 45.4 | 9.74 | 49.4 | 11.34 | 53.8 | 12.76 | 55.4 | 13.06 | 57.4 | 13.40 | 59.2 | 13.62 |
| | | 154.0 | 42.0 | 8.22 | 45.4 | 9.58 | 49.4 | 11.16 | 53.8 | 12.56 | 55.4 | 12.84 | 57.4 | 13.18 | 59.2 | 13.40 |
| | | 308.0 | 42.0 | 7.54 | 45.4 | 8.94 | 49.4 | 10.44 | 53.8 | 11.74 | 55.4 | 12.00 | 57.4 | 12.34 | 59.2 | 12.56 |
| | | 385.0 | 42.0 | 7.34 | 45.4 | 8.78 | 49.4 | 10.22 | 53.8 | 11.50 | 55.4 | 11.78 | 57.4 | 12.08 | 59.2 | 12.22 |
| | | 462.0 | 42.0 | 7.24 | 45.4 | 8.70 | 49.4 | 10.12 | 53.8 | 11.36 | 55.4 | 11.68 | 57.4 | 11.96 | 59.2 | 12.04 |
| | 45 | 123.2 | 42.0 | 9.74 | 45.4 | 11.26 | 49.4 | 13.10 | 53.8 | 14.74 | 55.4 | 15.08 | 57.4 | 15.52 | 59.2 | 15.72 |
| | | 154.0 | 42.0 | 9.54 | 45.4 | 11.06 | 49.4 | 12.90 | 53.8 | 14.50 | 55.4 | 14.84 | 57.4 | 15.26 | 59.2 | 15.48 |
| | | 308.0 | 42.0 | 8.74 | 45.4 | 10.34 | 49.4 | 12.04 | 53.8 | 13.58 | 55.4 | 13.86 | 57.4 | 14.24 | 59.2 | 14.50 |
| | | 385.0 | 42.0 | 8.48 | 45.4 | 10.18 | 49.4 | 11.84 | 53.8 | 13.28 | 55.4 | 13.62 | 57.4 | 13.96 | 59.2 | 14.12 |
| | | 462.0 | 42.0 | 8.36 | 45.4 | 10.10 | 49.4 | 11.72 | 53.8 | 13.12 | 55.4 | 13.48 | 57.4 | 13.80 | 59.2 | 13.94 |
| 50 | 10 | 123.2 | 35.0 | 1.86 | 37.8 | 2.20 | 41.2 | 2.64 | 44.8 | 2.90 | 46.2 | 2.94 | 48.0 | 3.04 | 49.2 | 3.12 |
| | | 154.0 | 35.0 | 1.84 | 37.8 | 2.16 | 41.2 | 2.58 | 44.8 | 2.86 | 46.2 | 2.90 | 48.0 | 2.98 | 49.2 | 3.06 |
| | | 308.0 | 35.0 | 1.76 | 37.8 | 2.04 | 41.2 | 2.32 | 44.8 | 2.66 | 46.2 | 2.74 | 48.0 | 2.78 | 49.2 | 2.86 |
| | | 385.0 | 35.0 | 1.68 | 37.8 | 1.96 | 41.2 | 2.32 | 44.8 | 2.56 | 46.2 | 2.66 | 48.0 | 2.68 | 49.2 | 2.74 |
| | | 462.0 | 35.0 | 1.64 | 37.8 | 1.92 | 41.2 | 2.32 | 44.8 | 2.52 | 46.2 | 2.60 | 48.0 | 2.64 | 49.2 | 2.66 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 123.2 | 35.0 | 2.54 | 37.8 | 2.96 | 41.2 | 3.50 | 44.8 | 3.92 | 46.2 | 4.00 | 48.0 | 4.10 | 49.2 | 4.18 |
| | | 154.0 | 35.0 | 2.50 | 37.8 | 2.92 | 41.2 | 3.44 | 44.8 | 3.86 | 46.2 | 3.94 | 48.0 | 4.02 | 49.2 | 4.12 |
| | | 308.0 | 35.0 | 2.34 | 37.8 | 2.76 | 41.2 | 3.18 | 44.8 | 3.60 | 46.2 | 3.68 | 48.0 | 3.78 | 49.2 | 3.86 |
| | | 385.0 | 35.0 | 2.24 | 37.8 | 2.68 | 41.2 | 3.14 | 44.8 | 3.52 | 46.2 | 3.60 | 48.0 | 3.68 | 49.2 | 3.74 |
| | | 462.0 | 35.0 | 2.20 | 37.8 | 2.62 | 41.2 | 3.12 | 44.8 | 3.48 | 46.2 | 3.56 | 48.0 | 3.64 | 49.2 | 3.66 |
| | 20 | 123.2 | 35.0 | 3.16 | 37.8 | 3.66 | 41.2 | 4.26 | 44.8 | 4.82 | 46.2 | 4.96 | 48.0 | 5.04 | 49.2 | 5.12 |
| | | 154.0 | 35.0 | 3.10 | 37.8 | 3.60 | 41.2 | 4.20 | 44.8 | 4.74 | 46.2 | 4.88 | 48.0 | 4.96 | 49.2 | 5.04 |
| | | 308.0 | 35.0 | 2.84 | 37.8 | 3.40 | 41.2 | 3.94 | 44.8 | 4.46 | 46.2 | 4.54 | 48.0 | 4.66 | 49.2 | 4.74 |
| | | 385.0 | 35.0 | 2.76 | 37.8 | 3.30 | 41.2 | 3.86 | 44.8 | 4.36 | 46.2 | 4.46 | 48.0 | 4.58 | 49.2 | 4.62 |
| | | 462.0 | 35.0 | 2.72 | 37.8 | 3.26 | 41.2 | 3.82 | 44.8 | 4.32 | 46.2 | 4.42 | 48.0 | 4.54 | 49.2 | 4.56 |
| | 25 | 123.2 | 35.0 | 3.84 | 37.8 | 4.48 | 41.2 | 5.22 | 44.8 | 5.86 | 46.2 | 6.04 | 48.0 | 6.16 | 49.2 | 6.30 |
| | | 154.0 | 35.0 | 3.78 | 37.8 | 4.42 | 41.2 | 5.14 | 44.8 | 5.76 | 46.2 | 5.94 | 48.0 | 6.06 | 49.2 | 6.20 |
| | | 308.0 | 35.0 | 3.48 | 37.8 | 4.12 | 41.2 | 4.80 | 44.8 | 5.42 | 46.2 | 5.56 | 48.0 | 5.68 | 49.2 | 5.76 |
| | | 385.0 | 35.0 | 3.40 | 37.8 | 4.02 | 41.2 | 4.70 | 44.8 | 5.30 | 46.2 | 5.42 | 48.0 | 5.56 | 49.2 | 5.64 |
| | | 462.0 | 35.0 | 3.36 | 37.8 | 3.98 | 41.2 | 4.66 | 44.8 | 5.24 | 46.2 | 5.36 | 48.0 | 5.50 | 49.2 | 5.58 |
| | 30 | 123.2 | 35.0 | 4.76 | 37.8 | 5.52 | 41.2 | 6.42 | 44.8 | 7.24 | 46.2 | 7.42 | 48.0 | 7.58 | 49.2 | 7.70 |
| | | 154.0 | 35.0 | 4.66 | 37.8 | 5.42 | 41.2 | 6.32 | 44.8 | 7.12 | 46.2 | 7.30 | 48.0 | 7.46 | 49.2 | 7.60 |
| | | 308.0 | 35.0 | 4.28 | 37.8 | 5.08 | 41.2 | 5.90 | 44.8 | 6.66 | 46.2 | 6.82 | 48.0 | 7.00 | 49.2 | 7.12 |
| | | 385.0 | 35.0 | 4.16 | 37.8 | 4.96 | 41.2 | 5.76 | 44.8 | 6.54 | 46.2 | 6.70 | 48.0 | 6.88 | 49.2 | 6.92 |
| | | 462.0 | 35.0 | 4.10 | 37.8 | 4.90 | 41.2 | 5.70 | 44.8 | 6.46 | 46.2 | 6.64 | 48.0 | 6.80 | 49.2 | 6.80 |
| | 35 | 123.2 | 35.0 | 5.28 | 37.8 | 6.12 | 41.2 | 7.16 | 44.8 | 8.02 | 46.2 | 8.24 | 48.0 | 8.46 | 49.2 | 8.58 |
| | | 154.0 | 35.0 | 5.18 | 37.8 | 6.02 | 41.2 | 7.04 | 44.8 | 7.88 | 46.2 | 8.10 | 48.0 | 8.32 | 49.2 | 8.44 |
| | | 308.0 | 35.0 | 4.74 | 37.8 | 5.64 | 41.2 | 6.58 | 44.8 | 7.38 | 46.2 | 7.54 | 48.0 | 7.76 | 49.2 | 7.88 |
| | | 385.0 | 35.0 | 4.62 | 37.8 | 5.52 | 41.2 | 6.44 | 44.8 | 7.26 | 46.2 | 7.42 | 48.0 | 7.64 | 49.2 | 7.68 |
| | | 462.0 | 35.0 | 4.56 | 37.8 | 5.44 | 41.2 | 6.38 | 44.8 | 7.18 | 46.2 | 7.36 | 48.0 | 7.58 | 49.2 | 7.58 |
| | 40 | 123.2 | 35.0 | 6.22 | 37.8 | 7.24 | 41.2 | 8.46 | 44.8 | 9.54 | 46.2 | 9.74 | 48.0 | 10.00 | 49.2 | 10.16 |
| | | 154.0 | 35.0 | 6.10 | 37.8 | 7.12 | 41.2 | 8.32 | 44.8 | 9.38 | 46.2 | 9.58 | 48.0 | 9.84 | 49.2 | 10.00 |
| | | 308.0 | 35.0 | 5.64 | 37.8 | 6.66 | 41.2 | 7.76 | 44.8 | 8.74 | 46.2 | 8.94 | 48.0 | 9.20 | 49.2 | 9.38 |
| | | 385.0 | 35.0 | 5.48 | 37.8 | 6.54 | 41.2 | 7.64 | 44.8 | 8.56 | 46.2 | 8.78 | 48.0 | 9.04 | 49.2 | 9.12 |
| | | 462.0 | 35.0 | 5.38 | 37.8 | 6.46 | 41.2 | 7.58 | 44.8 | 8.48 | 46.2 | 8.70 | 48.0 | 8.94 | 49.2 | 9.00 |
| | 45 | 123.2 | 35.0 | 7.16 | 37.8 | 8.36 | 41.2 | 9.74 | 44.8 | 11.04 | 46.2 | 11.26 | 48.0 | 11.54 | 49.2 | 11.76 |
| | | 154.0 | 35.0 | 7.04 | 37.8 | 8.22 | 41.2 | 9.58 | 44.8 | 10.86 | 46.2 | 11.06 | 48.0 | 11.36 | 49.2 | 11.58 |
| | | 308.0 | 35.0 | 6.54 | 37.8 | 7.68 | 41.2 | 8.94 | 44.8 | 10.10 | 46.2 | 10.34 | 48.0 | 10.64 | 49.2 | 10.86 |
| | | 385.0 | 35.0 | 6.32 | 37.8 | 7.54 | 41.2 | 8.82 | 44.8 | 9.88 | 46.2 | 10.14 | 48.0 | 10.44 | 49.2 | 10.56 |
| | | 462.0 | 35.0 | 6.22 | 37.8 | 7.48 | 41.2 | 8.76 | 44.8 | 9.78 | 46.2 | 10.04 | 48.0 | 10.32 | 49.2 | 10.42 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## ARWN340BAS4

**Cooling Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 130.8 | 88.4 | 6.34 | 95.8 | 7.43 | 104.4 | 8.66 | 113.3 | 9.75 | 116.6 | 10.03 | 121.4 | 10.21 | 124.7 | 10.31 |
| | | 163.5 | 88.4 | 6.23 | 95.8 | 7.32 | 104.4 | 8.52 | 113.3 | 9.61 | 116.6 | 9.85 | 121.4 | 10.06 | 124.7 | 10.17 |
| | | 327.0 | 88.4 | 5.78 | 95.8 | 6.86 | 104.4 | 7.99 | 113.3 | 8.98 | 116.6 | 9.15 | 121.4 | 9.43 | 124.7 | 9.64 |
| | | 408.8 | 88.4 | 5.62 | 95.8 | 6.69 | 104.4 | 7.81 | 113.3 | 8.77 | 116.6 | 9.01 | 121.4 | 9.22 | 124.7 | 9.39 |
| | | 490.5 | 88.4 | 5.53 | 95.8 | 6.61 | 104.4 | 7.74 | 113.3 | 8.66 | 116.6 | 8.97 | 121.4 | 9.12 | 124.7 | 9.26 |
| | 15 | 130.8 | 87.0 | 8.38 | 94.2 | 9.75 | 102.7 | 11.37 | 111.6 | 12.81 | 114.9 | 13.12 | 119.4 | 13.41 | 122.7 | 13.62 |
| | | 163.5 | 87.0 | 8.23 | 94.2 | 9.60 | 102.7 | 11.19 | 111.6 | 12.60 | 114.9 | 12.91 | 119.4 | 13.20 | 122.7 | 13.41 |
| | | 327.0 | 87.0 | 7.57 | 94.2 | 9.00 | 102.7 | 10.45 | 111.6 | 11.79 | 114.9 | 12.04 | 119.4 | 12.39 | 122.7 | 12.64 |
| | | 408.8 | 87.0 | 7.36 | 94.2 | 8.77 | 102.7 | 10.24 | 111.6 | 11.54 | 114.9 | 11.83 | 119.4 | 12.14 | 122.7 | 12.35 |
| | | 490.5 | 87.0 | 7.25 | 94.2 | 8.66 | 102.7 | 10.13 | 111.6 | 11.40 | 114.9 | 11.72 | 119.4 | 12.00 | 122.7 | 12.20 |
| | 20 | 130.8 | 85.7 | 10.20 | 92.9 | 11.79 | 101.3 | 13.79 | 110.1 | 15.52 | 113.3 | 15.87 | 117.7 | 16.26 | 121.0 | 16.57 |
| | | 163.5 | 85.7 | 9.99 | 92.9 | 11.61 | 101.3 | 13.55 | 110.1 | 15.27 | 113.3 | 15.62 | 117.7 | 16.01 | 121.0 | 16.30 |
| | | 327.0 | 85.7 | 9.16 | 92.9 | 10.88 | 101.3 | 12.64 | 110.1 | 14.28 | 113.3 | 14.63 | 117.7 | 15.02 | 121.0 | 15.31 |
| | | 408.8 | 85.7 | 8.90 | 92.9 | 10.63 | 101.3 | 12.39 | 110.1 | 13.97 | 113.3 | 14.32 | 117.7 | 14.71 | 121.0 | 14.98 |
| | | 490.5 | 85.7 | 8.77 | 92.9 | 10.49 | 101.3 | 12.25 | 110.1 | 13.83 | 113.3 | 14.18 | 117.7 | 14.57 | 121.0 | 14.81 |
| | 25 | 130.8 | 85.7 | 12.56 | 92.9 | 14.56 | 101.3 | 16.96 | 110.1 | 19.11 | 113.3 | 19.59 | 117.7 | 20.06 | 121.0 | 20.40 |
| | | 163.5 | 85.7 | 12.31 | 92.9 | 14.32 | 101.3 | 16.68 | 110.1 | 18.79 | 113.3 | 19.28 | 117.7 | 19.74 | 121.0 | 20.09 |
| | | 327.0 | 85.7 | 11.32 | 92.9 | 13.41 | 101.3 | 15.62 | 110.1 | 17.59 | 113.3 | 18.02 | 117.7 | 18.50 | 121.0 | 18.89 |
| | | 408.8 | 85.7 | 11.01 | 92.9 | 13.12 | 101.3 | 15.31 | 110.1 | 17.25 | 113.3 | 17.69 | 117.7 | 18.16 | 121.0 | 18.47 |
| | | 490.5 | 85.7 | 10.87 | 92.9 | 12.98 | 101.3 | 15.17 | 110.1 | 17.07 | 113.3 | 17.52 | 117.7 | 17.98 | 121.0 | 18.23 |
| | 30 | 130.8 | 85.7 | 15.06 | 92.9 | 17.49 | 101.3 | 20.37 | 110.1 | 22.95 | 113.3 | 23.47 | 117.7 | 24.10 | 121.0 | 24.45 |
| | | 163.5 | 85.7 | 14.75 | 92.9 | 17.21 | 101.3 | 20.05 | 110.1 | 22.59 | 113.3 | 23.11 | 117.7 | 23.71 | 121.0 | 24.10 |
| | | 327.0 | 85.7 | 13.55 | 92.9 | 16.08 | 101.3 | 18.76 | 110.1 | 21.12 | 113.3 | 21.64 | 117.7 | 22.20 | 121.0 | 22.67 |
| | | 408.8 | 85.7 | 13.20 | 92.9 | 15.76 | 101.3 | 18.37 | 110.1 | 20.69 | 113.3 | 21.25 | 117.7 | 21.78 | 121.0 | 22.16 |
| | | 490.5 | 85.7 | 13.05 | 92.9 | 15.58 | 101.3 | 18.19 | 110.1 | 20.48 | 113.3 | 21.07 | 117.7 | 21.56 | 121.0 | 21.89 |
| | 35 | 130.8 | 77.2 | 15.23 | 83.6 | 17.73 | 91.1 | 20.59 | 99.0 | 23.22 | 102.0 | 23.72 | 106.0 | 24.35 | 108.8 | 24.77 |
| | | 163.5 | 77.2 | 14.92 | 83.6 | 17.42 | 91.1 | 20.27 | 99.0 | 22.84 | 102.0 | 23.36 | 106.0 | 23.96 | 108.8 | 24.39 |
| | | 327.0 | 77.2 | 13.72 | 83.6 | 16.26 | 91.1 | 18.97 | 99.0 | 21.33 | 102.0 | 21.89 | 106.0 | 22.45 | 108.8 | 22.88 |
| | | 408.8 | 77.2 | 13.34 | 83.6 | 15.91 | 91.1 | 18.58 | 99.0 | 20.90 | 102.0 | 21.47 | 106.0 | 22.03 | 108.8 | 22.41 |
| | | 490.5 | 77.2 | 13.15 | 83.6 | 15.76 | 91.1 | 18.40 | 99.0 | 20.69 | 102.0 | 21.25 | 106.0 | 21.81 | 108.8 | 22.17 |
| | 40 | 130.8 | 68.7 | 16.08 | 74.4 | 18.68 | 80.9 | 21.74 | 88.0 | 24.49 | 90.5 | 25.05 | 94.2 | 25.65 | 96.9 | 26.11 |
| | | 163.5 | 68.7 | 15.76 | 74.4 | 18.37 | 80.9 | 21.39 | 88.0 | 24.10 | 90.5 | 24.66 | 94.2 | 25.26 | 96.9 | 25.72 |
| | | 327.0 | 68.7 | 14.46 | 74.4 | 17.17 | 80.9 | 20.01 | 88.0 | 22.49 | 90.5 | 23.05 | 94.2 | 23.71 | 96.9 | 24.18 |
| | | 408.8 | 68.7 | 14.07 | 74.4 | 16.78 | 80.9 | 19.57 | 88.0 | 22.07 | 90.5 | 22.63 | 94.2 | 23.23 | 96.9 | 23.61 |
| | | 490.5 | 68.7 | 13.87 | 74.4 | 16.58 | 80.9 | 19.36 | 88.0 | 21.85 | 90.5 | 22.41 | 94.2 | 23.01 | 96.9 | 23.33 |
| | 45 | 130.8 | 60.1 | 16.92 | 65.0 | 19.63 | 70.7 | 22.87 | 76.8 | 25.76 | 79.2 | 26.38 | 82.3 | 26.95 | 84.7 | 27.47 |
| | | 163.5 | 60.1 | 16.57 | 65.0 | 19.32 | 70.7 | 22.49 | 76.8 | 25.34 | 79.2 | 25.94 | 82.3 | 26.54 | 84.7 | 27.06 |
| | | 327.0 | 60.1 | 15.19 | 65.0 | 18.08 | 70.7 | 21.04 | 76.8 | 23.67 | 79.2 | 24.21 | 82.3 | 24.95 | 84.7 | 25.47 |
| | | 408.8 | 60.1 | 14.81 | 65.0 | 17.63 | 70.7 | 20.56 | 76.8 | 23.23 | 79.2 | 23.79 | 82.3 | 24.45 | 84.7 | 24.83 |
| | | 490.5 | 60.1 | 14.60 | 65.0 | 17.42 | 70.7 | 20.33 | 76.8 | 23.01 | 79.2 | 23.58 | 82.3 | 24.18 | 84.7 | 24.50 |
| 120 | 10 | 130.8 | 83.6 | 6.06 | 90.7 | 7.00 | 98.6 | 8.24 | 107.4 | 9.25 | 110.8 | 9.51 | 114.9 | 9.71 | 118.0 | 9.89 |
| | | 163.5 | 83.6 | 5.94 | 90.7 | 6.89 | 98.6 | 8.10 | 107.4 | 9.08 | 110.8 | 9.35 | 114.9 | 9.54 | 118.0 | 9.71 |
| | | 327.0 | 83.6 | 5.45 | 90.7 | 6.44 | 98.6 | 7.52 | 107.4 | 8.51 | 110.8 | 8.68 | 114.9 | 8.93 | 118.0 | 9.04 |
| | | 408.8 | 83.6 | 5.35 | 90.7 | 6.30 | 98.6 | 7.43 | 107.4 | 8.34 | 110.8 | 8.51 | 114.9 | 8.76 | 118.0 | 8.87 |
| | | 490.5 | 83.6 | 5.32 | 90.7 | 6.26 | 98.6 | 7.39 | 107.4 | 8.27 | 110.8 | 8.42 | 114.9 | 8.69 | 118.0 | 8.80 |
| | 15 | 130.8 | 82.7 | 8.03 | 89.7 | 9.32 | 97.6 | 10.90 | 106.1 | 12.24 | 109.4 | 12.56 | 113.6 | 12.85 | 116.7 | 13.06 |
| | | 163.5 | 82.7 | 7.88 | 89.7 | 9.16 | 97.6 | 10.70 | 106.1 | 12.04 | 109.4 | 12.35 | 113.6 | 12.64 | 116.7 | 12.87 |
| | | 327.0 | 82.7 | 7.22 | 89.7 | 8.56 | 97.6 | 9.99 | 106.1 | 11.26 | 109.4 | 11.54 | 113.6 | 11.83 | 116.7 | 12.04 |
| | | 408.8 | 82.7 | 7.07 | 89.7 | 8.38 | 97.6 | 9.81 | 106.1 | 11.05 | 109.4 | 11.32 | 113.6 | 11.61 | 116.7 | 11.79 |
| | | 490.5 | 82.7 | 6.97 | 89.7 | 8.30 | 97.6 | 9.72 | 106.1 | 10.95 | 109.4 | 11.22 | 113.6 | 11.51 | 116.7 | 11.65 |
| | 20 | 130.8 | 82.0 | 9.79 | 88.7 | 11.37 | 96.6 | 13.26 | 105.1 | 14.91 | 108.1 | 15.26 | 112.5 | 15.66 | 115.6 | 15.90 |
| | | 163.5 | 82.0 | 9.60 | 88.7 | 11.19 | 96.6 | 13.03 | 105.1 | 14.67 | 108.1 | 15.02 | 112.5 | 15.41 | 115.6 | 15.66 |
| | | 327.0 | 82.0 | 8.83 | 88.7 | 10.45 | 96.6 | 12.17 | 105.1 | 13.72 | 108.1 | 14.07 | 112.5 | 14.42 | 115.6 | 14.71 |
| | | 408.8 | 82.0 | 8.56 | 88.7 | 10.24 | 96.6 | 11.92 | 105.1 | 13.47 | 108.1 | 13.80 | 112.5 | 14.15 | 115.6 | 14.36 |
| | | 490.5 | 82.0 | 8.44 | 88.7 | 10.13 | 96.6 | 11.79 | 105.1 | 13.34 | 108.1 | 13.68 | 112.5 | 14.03 | 115.6 | 14.21 |
| | 25 | 130.8 | 82.0 | 12.03 | 88.7 | 13.94 | 96.6 | 16.26 | 105.1 | 18.33 | 108.1 | 18.76 | 112.5 | 19.24 | 115.6 | 19.57 |
| | | 163.5 | 82.0 | 11.79 | 88.7 | 13.72 | 96.6 | 16.01 | 105.1 | 18.02 | 108.1 | 18.47 | 112.5 | 18.93 | 115.6 | 19.28 |
| | | 327.0 | 82.0 | 10.84 | 88.7 | 12.87 | 96.6 | 14.98 | 105.1 | 16.86 | 108.1 | 17.25 | 112.5 | 17.73 | 115.6 | 18.08 |
| | | 408.8 | 82.0 | 10.55 | 88.7 | 12.56 | 96.6 | 14.67 | 105.1 | 16.53 | 108.1 | 16.96 | 112.5 | 17.38 | 115.6 | 17.63 |
| | | 490.5 | 82.0 | 10.38 | 88.7 | 12.42 | 96.6 | 14.53 | 105.1 | 16.36 | 108.1 | 16.79 | 112.5 | 17.21 | 115.6 | 17.42 |
| | 30 | 130.8 | 82.0 | 14.53 | 88.7 | 16.88 | 96.6 | 19.67 | 105.1 | 22.17 | 108.1 | 22.70 | 112.5 | 23.26 | 115.6 | 23.64 |
| | | 163.5 | 82.0 | 14.25 | 88.7 | 16.61 | 96.6 | 19.36 | 105.1 | 21.81 | 108.1 | 22.34 | 112.5 | 22.88 | 115.6 | 23.27 |
| | | 327.0 | 82.0 | 13.12 | 88.7 | 15.52 | 96.6 | 18.12 | 105.1 | 20.40 | 108.1 | 20.87 | 112.5 | 21.43 | 115.6 | 21.85 |
| | | 408.8 | 82.0 | 12.74 | 88.7 | 15.19 | 96.6 | 17.73 | 105.1 | 19.96 | 108.1 | 20.48 | 112.5 | 21.04 | 115.6 | 21.33 |
| | | 490.5 | 82.0 | 12.53 | 88.7 | 15.02 | 96.6 | 17.53 | 105.1 | 19.74 | 108.1 | 20.30 | 112.5 | 20.84 | 115.6 | 21.08 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 130.8 | 75.1 | 14.88 | 81.2 | 17.31 | 88.4 | 20.16 | 96.2 | 22.69 | 99.0 | 23.26 | 103.0 | 23.82 | 105.8 | 24.25 |
| | | 163.5 | 75.1 | 14.59 | 81.2 | 17.03 | 88.4 | 19.84 | 96.2 | 22.34 | 99.0 | 22.88 | 103.0 | 23.44 | 105.8 | 23.89 |
| | | 327.0 | 75.1 | 13.41 | 81.2 | 15.91 | 88.4 | 18.54 | 96.2 | 20.90 | 99.0 | 21.43 | 103.0 | 21.99 | 105.8 | 22.38 |
| | | 408.8 | 75.1 | 13.08 | 81.2 | 15.58 | 88.4 | 18.16 | 96.2 | 20.48 | 99.0 | 21.00 | 103.0 | 21.56 | 105.8 | 21.85 |
| | | 490.5 | 75.1 | 12.91 | 81.2 | 15.41 | 88.4 | 17.97 | 96.2 | 20.27 | 99.0 | 20.79 | 103.0 | 21.35 | 105.8 | 21.60 |
| | 40 | 130.8 | 68.0 | 16.01 | 73.7 | 18.64 | 80.2 | 21.68 | 87.3 | 24.45 | 89.8 | 25.01 | 93.4 | 25.61 | 95.9 | 26.08 |
| | | 163.5 | 68.0 | 15.70 | 73.7 | 18.33 | 80.2 | 21.33 | 87.3 | 24.06 | 89.8 | 24.60 | 93.4 | 25.22 | 95.9 | 25.69 |
| | | 327.0 | 68.0 | 14.46 | 73.7 | 17.13 | 80.2 | 19.96 | 87.3 | 22.49 | 89.8 | 23.01 | 93.4 | 23.61 | 95.9 | 24.10 |
| | | 408.8 | 68.0 | 14.07 | 73.7 | 16.78 | 80.2 | 19.57 | 87.3 | 22.03 | 89.8 | 22.59 | 93.4 | 23.19 | 95.9 | 23.54 |
| | | 490.5 | 68.0 | 13.87 | 73.7 | 16.61 | 80.2 | 19.39 | 87.3 | 21.79 | 89.8 | 22.38 | 93.4 | 22.98 | 95.9 | 23.26 |
| | 45 | 130.8 | 61.2 | 17.17 | 66.0 | 19.95 | 72.1 | 23.22 | 78.5 | 26.19 | 80.6 | 26.77 | 83.9 | 27.41 | 86.3 | 27.91 |
| | | 163.5 | 61.2 | 16.82 | 66.0 | 19.63 | 72.1 | 22.84 | 78.5 | 25.76 | 80.6 | 26.32 | 83.9 | 26.98 | 86.3 | 27.49 |
| | | 327.0 | 61.2 | 15.48 | 66.0 | 18.33 | 72.1 | 21.39 | 78.5 | 24.10 | 80.6 | 24.60 | 83.9 | 25.26 | 86.3 | 25.82 |
| | | 408.8 | 61.2 | 15.06 | 66.0 | 17.98 | 72.1 | 21.00 | 78.5 | 23.58 | 80.6 | 24.18 | 83.9 | 24.83 | 86.3 | 25.22 |
| | | 490.5 | 61.2 | 14.85 | 66.0 | 17.81 | 72.1 | 20.80 | 78.5 | 23.32 | 80.6 | 23.96 | 83.9 | 24.60 | 86.3 | 24.91 |
| 110 | 10 | 130.8 | 78.9 | 5.76 | 85.4 | 6.66 | 93.1 | 7.70 | 101.3 | 8.72 | 104.3 | 8.87 | 108.5 | 9.15 | 111.2 | 9.26 |
| | | 163.5 | 78.9 | 5.63 | 85.4 | 6.55 | 93.1 | 7.59 | 101.3 | 8.58 | 104.3 | 8.75 | 108.5 | 9.00 | 111.2 | 9.11 |
| | | 327.0 | 78.9 | 5.18 | 85.4 | 6.09 | 93.1 | 7.14 | 101.3 | 8.05 | 104.3 | 8.26 | 108.5 | 8.37 | 111.2 | 8.54 |
| | | 408.8 | 78.9 | 5.03 | 85.4 | 5.98 | 93.1 | 6.97 | 101.3 | 7.88 | 104.3 | 8.03 | 108.5 | 8.20 | 111.2 | 8.41 |
| | | 490.5 | 78.9 | 4.93 | 85.4 | 5.91 | 93.1 | 6.89 | 101.3 | 7.80 | 104.3 | 7.92 | 108.5 | 8.12 | 111.2 | 8.37 |
| | 15 | 130.8 | 78.5 | 7.68 | 85.0 | 8.93 | 92.5 | 10.35 | 100.6 | 11.68 | 103.7 | 11.93 | 107.8 | 12.24 | 110.8 | 12.46 |
| | | 163.5 | 78.5 | 7.53 | 85.0 | 8.77 | 92.5 | 10.20 | 100.6 | 11.48 | 103.7 | 11.75 | 107.8 | 12.04 | 110.8 | 12.25 |
| | | 327.0 | 78.5 | 6.93 | 85.0 | 8.17 | 92.5 | 9.54 | 100.6 | 10.76 | 103.7 | 11.01 | 107.8 | 11.26 | 110.8 | 11.48 |
| | | 408.8 | 78.5 | 6.72 | 85.0 | 7.99 | 92.5 | 9.33 | 100.6 | 10.55 | 103.7 | 10.80 | 107.8 | 11.05 | 110.8 | 11.23 |
| | | 490.5 | 78.5 | 6.61 | 85.0 | 7.92 | 92.5 | 9.22 | 100.6 | 10.44 | 103.7 | 10.69 | 107.8 | 10.95 | 110.8 | 11.09 |
| | 20 | 130.8 | 78.2 | 9.39 | 84.6 | 10.94 | 92.1 | 12.73 | 100.0 | 14.29 | 103.1 | 14.64 | 107.1 | 14.99 | 110.2 | 15.30 |
| | | 163.5 | 78.2 | 9.21 | 84.6 | 10.76 | 92.1 | 12.52 | 100.0 | 14.07 | 103.1 | 14.42 | 107.1 | 14.75 | 110.2 | 15.06 |
| | | 327.0 | 78.2 | 8.48 | 84.6 | 10.03 | 92.1 | 11.71 | 100.0 | 13.16 | 103.1 | 13.47 | 107.1 | 13.86 | 110.2 | 14.11 |
| | | 408.8 | 78.2 | 8.23 | 84.6 | 9.81 | 92.1 | 11.44 | 100.0 | 12.91 | 103.1 | 13.26 | 107.1 | 13.59 | 110.2 | 13.72 |
| | | 490.5 | 78.2 | 8.09 | 84.6 | 9.71 | 92.1 | 11.32 | 100.0 | 12.78 | 103.1 | 13.15 | 107.1 | 13.47 | 110.2 | 13.54 |
| | 25 | 130.8 | 78.2 | 11.50 | 84.6 | 13.38 | 92.1 | 15.56 | 100.0 | 17.53 | 103.1 | 17.91 | 107.1 | 18.36 | 110.2 | 18.71 |
| | | 163.5 | 78.2 | 11.26 | 84.6 | 13.16 | 92.1 | 15.31 | 100.0 | 17.25 | 103.1 | 17.63 | 107.1 | 18.08 | 110.2 | 18.41 |
| | | 327.0 | 78.2 | 10.37 | 84.6 | 12.31 | 92.1 | 14.32 | 100.0 | 16.14 | 103.1 | 16.53 | 107.1 | 16.96 | 110.2 | 17.25 |
| | | 408.8 | 78.2 | 10.06 | 84.6 | 12.04 | 92.1 | 14.03 | 100.0 | 15.79 | 103.1 | 16.22 | 107.1 | 16.61 | 110.2 | 16.82 |
| | | 490.5 | 78.2 | 9.92 | 84.6 | 11.92 | 92.1 | 13.87 | 100.0 | 15.62 | 103.1 | 16.08 | 107.1 | 16.43 | 110.2 | 16.61 |
| | 30 | 130.8 | 78.2 | 14.00 | 84.6 | 16.32 | 92.1 | 18.97 | 100.0 | 21.39 | 103.1 | 21.85 | 107.1 | 22.42 | 110.2 | 22.81 |
| | | 163.5 | 78.2 | 13.72 | 84.6 | 16.05 | 92.1 | 18.68 | 100.0 | 21.04 | 103.1 | 21.50 | 107.1 | 22.07 | 110.2 | 22.45 |
| | | 327.0 | 78.2 | 12.64 | 84.6 | 14.98 | 92.1 | 17.46 | 100.0 | 19.67 | 103.1 | 20.13 | 107.1 | 20.65 | 110.2 | 21.04 |
| | | 408.8 | 78.2 | 12.31 | 84.6 | 14.67 | 92.1 | 17.07 | 100.0 | 19.28 | 103.1 | 19.74 | 107.1 | 20.27 | 110.2 | 20.52 |
| | | 490.5 | 78.2 | 12.14 | 84.6 | 14.53 | 92.1 | 16.89 | 100.0 | 19.08 | 103.1 | 19.56 | 107.1 | 20.06 | 110.2 | 20.27 |
| | 35 | 130.8 | 72.7 | 14.57 | 78.8 | 16.92 | 85.7 | 19.71 | 93.4 | 22.21 | 96.2 | 22.73 | 99.9 | 23.30 | 102.6 | 23.75 |
| | | 163.5 | 72.7 | 14.28 | 78.8 | 16.65 | 85.7 | 19.39 | 93.4 | 21.85 | 96.2 | 22.38 | 99.9 | 22.94 | 102.6 | 23.36 |
| | | 327.0 | 72.7 | 13.12 | 78.8 | 15.58 | 85.7 | 18.16 | 93.4 | 20.44 | 96.2 | 20.94 | 99.9 | 21.47 | 102.6 | 21.85 |
| | | 408.8 | 72.7 | 12.77 | 78.8 | 15.23 | 85.7 | 17.77 | 93.4 | 20.05 | 96.2 | 20.52 | 99.9 | 21.08 | 102.6 | 21.33 |
| | | 490.5 | 72.7 | 12.60 | 78.8 | 15.06 | 85.7 | 17.59 | 93.4 | 19.85 | 96.2 | 20.30 | 99.9 | 20.90 | 102.6 | 21.08 |
| | 40 | 130.8 | 67.4 | 16.04 | 73.1 | 18.58 | 79.6 | 21.70 | 86.4 | 24.39 | 89.0 | 24.98 | 92.5 | 25.58 | 95.1 | 26.04 |
| | | 163.5 | 67.4 | 15.70 | 73.1 | 18.29 | 79.6 | 21.33 | 86.4 | 24.00 | 89.0 | 24.56 | 92.5 | 25.16 | 95.1 | 25.65 |
| | | 327.0 | 67.4 | 14.42 | 73.1 | 17.13 | 79.6 | 19.92 | 86.4 | 22.45 | 89.0 | 22.98 | 92.5 | 23.58 | 95.1 | 24.06 |
| | | 408.8 | 67.4 | 14.03 | 73.1 | 16.74 | 79.6 | 19.53 | 86.4 | 22.03 | 89.0 | 22.55 | 92.5 | 23.15 | 95.1 | 23.44 |
| | | 490.5 | 67.4 | 13.83 | 73.1 | 16.54 | 79.6 | 19.35 | 86.4 | 21.81 | 89.0 | 22.34 | 92.5 | 22.94 | 95.1 | 23.15 |
| | 45 | 130.8 | 62.2 | 17.48 | 67.3 | 20.23 | 73.4 | 23.68 | 79.6 | 26.57 | 81.9 | 27.20 | 85.3 | 27.84 | 87.4 | 28.35 |
| | | 163.5 | 62.2 | 17.13 | 67.3 | 19.92 | 73.4 | 23.27 | 79.6 | 26.15 | 81.9 | 26.77 | 85.3 | 27.41 | 87.4 | 27.93 |
| | | 327.0 | 62.2 | 15.70 | 67.3 | 18.68 | 73.4 | 21.68 | 79.6 | 24.49 | 81.9 | 24.99 | 85.3 | 25.69 | 87.4 | 26.25 |
| | | 408.8 | 62.2 | 15.27 | 67.3 | 18.23 | 73.4 | 21.29 | 79.6 | 24.00 | 81.9 | 24.56 | 85.3 | 25.22 | 87.4 | 25.55 |
| | | 490.5 | 62.2 | 15.06 | 67.3 | 18.02 | 73.4 | 21.11 | 79.6 | 23.78 | 81.9 | 24.35 | 85.3 | 24.98 | 87.4 | 25.22 |
| 100 | 10 | 130.8 | 74.4 | 5.35 | 80.3 | 6.29 | 87.4 | 7.28 | 95.2 | 8.13 | 98.2 | 8.34 | 101.7 | 8.62 | 104.7 | 8.80 |
| | | 163.5 | 74.4 | 5.25 | 80.3 | 6.16 | 87.4 | 7.15 | 95.2 | 8.02 | 98.2 | 8.23 | 101.7 | 8.48 | 104.7 | 8.65 |
| | | 327.0 | 74.4 | 4.85 | 80.3 | 5.70 | 87.4 | 6.71 | 95.2 | 7.57 | 98.2 | 7.78 | 101.7 | 7.95 | 104.7 | 8.02 |
| | | 408.8 | 74.4 | 4.76 | 80.3 | 5.59 | 87.4 | 6.58 | 95.2 | 7.36 | 98.2 | 7.57 | 101.7 | 7.78 | 104.7 | 7.91 |
| | | 490.5 | 74.4 | 4.72 | 80.3 | 5.52 | 87.4 | 6.51 | 95.2 | 7.25 | 98.2 | 7.46 | 101.7 | 7.70 | 104.7 | 7.85 |
| | 15 | 130.8 | 74.4 | 7.28 | 80.3 | 8.48 | 87.4 | 9.89 | 95.2 | 11.11 | 98.2 | 11.36 | 101.7 | 11.68 | 104.7 | 11.89 |
| | | 163.5 | 74.4 | 7.14 | 80.3 | 8.34 | 87.4 | 9.72 | 95.2 | 10.94 | 98.2 | 11.19 | 101.7 | 11.48 | 104.7 | 11.71 |
| | | 327.0 | 74.4 | 6.58 | 80.3 | 7.78 | 87.4 | 9.08 | 95.2 | 10.24 | 98.2 | 10.49 | 101.7 | 10.76 | 104.7 | 10.94 |
| | | 408.8 | 74.4 | 6.41 | 80.3 | 7.61 | 87.4 | 8.90 | 95.2 | 10.03 | 98.2 | 10.28 | 101.7 | 10.55 | 104.7 | 10.66 |
| | | 490.5 | 74.4 | 6.33 | 80.3 | 7.53 | 87.4 | 8.83 | 95.2 | 9.92 | 98.2 | 10.17 | 101.7 | 10.44 | 104.7 | 10.55 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 130.8 | 74.4 | 9.00 | 80.3 | 10.45 | 87.4 | 12.21 | 95.2 | 13.73 | 98.2 | 14.04 | 101.7 | 14.39 | 104.7 | 14.64 |
| | | 163.5 | 74.4 | 8.83 | 80.3 | 10.28 | 87.4 | 12.00 | 95.2 | 13.51 | 98.2 | 13.80 | 101.7 | 14.15 | 104.7 | 14.42 |
| | | 327.0 | 74.4 | 8.13 | 80.3 | 9.64 | 87.4 | 11.19 | 95.2 | 12.60 | 98.2 | 12.91 | 101.7 | 13.26 | 104.7 | 13.51 |
| | | 408.8 | 74.4 | 7.88 | 80.3 | 9.43 | 87.4 | 10.97 | 95.2 | 12.39 | 98.2 | 12.70 | 101.7 | 12.99 | 104.7 | 13.12 |
| | | 490.5 | 74.4 | 7.74 | 80.3 | 9.32 | 87.4 | 10.87 | 95.2 | 12.28 | 98.2 | 12.59 | 101.7 | 12.87 | 104.7 | 12.92 |
| | 25 | 130.8 | 74.4 | 10.98 | 80.3 | 12.77 | 87.4 | 14.88 | 95.2 | 16.75 | 98.2 | 17.14 | 101.7 | 17.52 | 104.7 | 17.88 |
| | | 163.5 | 74.4 | 10.76 | 80.3 | 12.56 | 87.4 | 14.63 | 95.2 | 16.47 | 98.2 | 16.86 | 101.7 | 17.25 | 104.7 | 17.59 |
| | | 327.0 | 74.4 | 9.89 | 80.3 | 11.75 | 87.4 | 13.68 | 95.2 | 15.41 | 98.2 | 15.76 | 101.7 | 16.18 | 104.7 | 16.43 |
| | | 408.8 | 74.4 | 9.64 | 80.3 | 11.48 | 87.4 | 13.37 | 95.2 | 15.10 | 98.2 | 15.45 | 101.7 | 15.87 | 104.7 | 16.01 |
| | | 490.5 | 74.4 | 9.50 | 80.3 | 11.36 | 87.4 | 13.23 | 95.2 | 14.95 | 98.2 | 15.30 | 101.7 | 15.73 | 104.7 | 15.79 |
| | 30 | 130.8 | 74.4 | 13.52 | 80.3 | 15.70 | 87.4 | 18.27 | 95.2 | 20.59 | 98.2 | 21.08 | 101.7 | 21.60 | 104.7 | 21.99 |
| | | 163.5 | 74.4 | 13.26 | 80.3 | 15.45 | 87.4 | 17.98 | 95.2 | 20.27 | 98.2 | 20.73 | 101.7 | 21.25 | 104.7 | 21.64 |
| | | 327.0 | 74.4 | 12.17 | 80.3 | 14.42 | 87.4 | 16.82 | 95.2 | 18.94 | 98.2 | 19.36 | 101.7 | 19.88 | 104.7 | 20.23 |
| | | 408.8 | 74.4 | 11.83 | 80.3 | 14.11 | 87.4 | 16.47 | 95.2 | 18.54 | 98.2 | 19.01 | 101.7 | 19.49 | 104.7 | 19.70 |
| | | 490.5 | 74.4 | 11.65 | 80.3 | 13.97 | 87.4 | 16.30 | 95.2 | 18.36 | 98.2 | 18.85 | 101.7 | 19.29 | 104.7 | 19.45 |
| | 35 | 130.8 | 70.7 | 14.26 | 76.5 | 16.57 | 83.2 | 19.28 | 90.4 | 21.74 | 93.2 | 22.27 | 96.9 | 22.77 | 99.3 | 23.18 |
| | | 163.5 | 70.7 | 13.97 | 76.5 | 16.30 | 83.2 | 18.97 | 90.4 | 21.39 | 93.2 | 21.89 | 96.9 | 22.41 | 99.3 | 22.80 |
| | | 327.0 | 70.7 | 12.87 | 76.5 | 15.23 | 83.2 | 17.73 | 90.4 | 19.96 | 93.2 | 20.48 | 96.9 | 21.00 | 99.3 | 21.33 |
| | | 408.8 | 70.7 | 12.48 | 76.5 | 14.92 | 83.2 | 17.38 | 90.4 | 19.57 | 93.2 | 20.09 | 96.9 | 20.61 | 99.3 | 20.79 |
| | | 490.5 | 70.7 | 12.28 | 76.5 | 14.78 | 83.2 | 17.21 | 90.4 | 19.39 | 93.2 | 19.91 | 96.9 | 20.41 | 99.3 | 20.51 |
| | 40 | 130.8 | 66.7 | 15.97 | 72.4 | 18.58 | 78.8 | 21.64 | 85.7 | 24.35 | 88.1 | 24.98 | 91.7 | 25.58 | 94.2 | 26.01 |
| | | 163.5 | 66.7 | 15.66 | 72.4 | 18.29 | 78.8 | 21.29 | 85.7 | 23.96 | 88.1 | 24.56 | 91.7 | 25.16 | 94.2 | 25.61 |
| | | 327.0 | 66.7 | 14.42 | 72.4 | 17.07 | 78.8 | 19.92 | 85.7 | 22.41 | 88.1 | 22.94 | 91.7 | 23.54 | 94.2 | 23.96 |
| | | 408.8 | 66.7 | 14.03 | 72.4 | 16.74 | 78.8 | 19.49 | 85.7 | 21.99 | 88.1 | 22.55 | 91.7 | 23.11 | 94.2 | 23.32 |
| | | 490.5 | 66.7 | 13.83 | 72.4 | 16.57 | 78.8 | 19.28 | 85.7 | 21.78 | 88.1 | 22.35 | 91.7 | 22.90 | 94.2 | 23.01 |
| | 45 | 130.8 | 62.9 | 17.69 | 68.3 | 20.59 | 74.5 | 24.00 | 80.9 | 26.96 | 83.2 | 27.70 | 86.4 | 28.39 | 89.1 | 28.85 |
| | | 163.5 | 62.9 | 17.34 | 68.3 | 20.27 | 74.5 | 23.61 | 80.9 | 26.54 | 83.2 | 27.23 | 86.4 | 27.93 | 89.1 | 28.40 |
| | | 327.0 | 62.9 | 15.97 | 68.3 | 18.93 | 74.5 | 22.10 | 80.9 | 24.87 | 83.2 | 25.38 | 86.4 | 26.07 | 89.1 | 26.60 |
| | | 408.8 | 62.9 | 15.58 | 68.3 | 18.54 | 74.5 | 21.60 | 80.9 | 24.39 | 83.2 | 24.99 | 86.4 | 25.61 | 89.1 | 25.86 |
| | | 490.5 | 62.9 | 15.38 | 68.3 | 18.36 | 74.5 | 21.35 | 80.9 | 24.17 | 83.2 | 24.80 | 86.4 | 25.37 | 89.1 | 25.50 |
| 90 | 10 | 130.8 | 66.7 | 4.64 | 72.4 | 5.38 | 78.8 | 6.20 | 85.7 | 7.07 | 88.1 | 7.24 | 91.7 | 7.46 | 94.2 | 7.57 |
| | | 163.5 | 66.7 | 4.55 | 72.4 | 5.31 | 78.8 | 6.12 | 85.7 | 6.96 | 88.1 | 7.11 | 91.7 | 7.32 | 94.2 | 7.46 |
| | | 327.0 | 66.7 | 4.22 | 72.4 | 4.96 | 78.8 | 5.80 | 85.7 | 6.54 | 88.1 | 6.66 | 91.7 | 6.83 | 94.2 | 6.96 |
| | | 408.8 | 66.7 | 4.05 | 72.4 | 4.89 | 78.8 | 5.63 | 85.7 | 6.37 | 88.1 | 6.54 | 91.7 | 6.71 | 94.2 | 6.75 |
| | | 490.5 | 66.7 | 3.97 | 72.4 | 4.85 | 78.8 | 5.53 | 85.7 | 6.29 | 88.1 | 6.48 | 91.7 | 6.65 | 94.2 | 6.65 |
| | 15 | 130.8 | 66.7 | 6.27 | 72.4 | 7.31 | 78.8 | 8.48 | 85.7 | 9.57 | 88.1 | 9.78 | 91.7 | 10.06 | 94.2 | 10.24 |
| | | 163.5 | 66.7 | 6.16 | 72.4 | 7.18 | 78.8 | 8.34 | 85.7 | 9.43 | 88.1 | 9.64 | 91.7 | 9.89 | 94.2 | 10.06 |
| | | 327.0 | 66.7 | 5.67 | 72.4 | 6.72 | 78.8 | 7.84 | 85.7 | 8.83 | 88.1 | 9.04 | 91.7 | 9.25 | 94.2 | 9.43 |
| | | 408.8 | 66.7 | 5.52 | 72.4 | 6.58 | 78.8 | 7.67 | 85.7 | 8.65 | 88.1 | 8.87 | 91.7 | 9.08 | 94.2 | 9.16 |
| | | 490.5 | 66.7 | 5.42 | 72.4 | 6.51 | 78.8 | 7.57 | 85.7 | 8.56 | 88.1 | 8.77 | 91.7 | 9.00 | 94.2 | 9.04 |
| | 20 | 130.8 | 66.7 | 7.73 | 72.4 | 9.01 | 78.8 | 10.49 | 85.7 | 11.82 | 88.1 | 12.06 | 91.7 | 12.38 | 94.2 | 12.59 |
| | | 163.5 | 66.7 | 7.57 | 72.4 | 8.87 | 78.8 | 10.32 | 85.7 | 11.61 | 88.1 | 11.86 | 91.7 | 12.17 | 94.2 | 12.39 |
| | | 327.0 | 66.7 | 6.97 | 72.4 | 8.27 | 78.8 | 9.64 | 85.7 | 10.84 | 88.1 | 11.15 | 91.7 | 11.40 | 94.2 | 11.61 |
| | | 408.8 | 66.7 | 6.79 | 72.4 | 8.09 | 78.8 | 9.47 | 85.7 | 10.66 | 88.1 | 10.94 | 91.7 | 11.19 | 94.2 | 11.32 |
| | | 490.5 | 66.7 | 6.72 | 72.4 | 7.99 | 78.8 | 9.39 | 85.7 | 10.59 | 88.1 | 10.83 | 91.7 | 11.08 | 94.2 | 11.16 |
| | 25 | 130.8 | 66.7 | 9.43 | 72.4 | 10.98 | 78.8 | 12.77 | 85.7 | 14.39 | 88.1 | 14.74 | 91.7 | 15.09 | 94.2 | 15.40 |
| | | 163.5 | 66.7 | 9.25 | 72.4 | 10.80 | 78.8 | 12.56 | 85.7 | 14.15 | 88.1 | 14.50 | 91.7 | 14.85 | 94.2 | 15.14 |
| | | 327.0 | 66.7 | 8.52 | 72.4 | 10.10 | 78.8 | 11.75 | 85.7 | 13.26 | 88.1 | 13.55 | 91.7 | 13.90 | 94.2 | 14.15 |
| | | 408.8 | 66.7 | 8.27 | 72.4 | 9.89 | 78.8 | 11.54 | 85.7 | 12.99 | 88.1 | 13.30 | 91.7 | 13.65 | 94.2 | 13.80 |
| | | 490.5 | 66.7 | 8.13 | 72.4 | 9.78 | 78.8 | 11.43 | 85.7 | 12.87 | 88.1 | 13.16 | 91.7 | 13.51 | 94.2 | 13.65 |
| | 30 | 130.8 | 66.7 | 11.64 | 72.4 | 13.51 | 78.8 | 15.76 | 85.7 | 17.70 | 88.1 | 18.15 | 91.7 | 18.58 | 94.2 | 18.93 |
| | | 163.5 | 66.7 | 11.40 | 72.4 | 13.30 | 78.8 | 15.48 | 85.7 | 17.42 | 88.1 | 17.85 | 91.7 | 18.29 | 94.2 | 18.62 |
| | | 327.0 | 66.7 | 10.45 | 72.4 | 12.43 | 78.8 | 14.46 | 85.7 | 16.30 | 88.1 | 16.68 | 91.7 | 17.13 | 94.2 | 17.42 |
| | | 408.8 | 66.7 | 10.20 | 72.4 | 12.17 | 78.8 | 14.15 | 85.7 | 15.97 | 88.1 | 16.39 | 91.7 | 16.78 | 94.2 | 16.96 |
| | | 490.5 | 66.7 | 10.07 | 72.4 | 12.04 | 78.8 | 14.00 | 85.7 | 15.79 | 88.1 | 16.25 | 91.7 | 16.61 | 94.2 | 16.71 |
| | 35 | 130.8 | 64.9 | 12.56 | 70.4 | 14.56 | 76.8 | 16.96 | 83.3 | 19.11 | 85.7 | 19.56 | 89.1 | 20.02 | 91.7 | 20.41 |
| | | 163.5 | 64.9 | 12.31 | 70.4 | 14.32 | 76.8 | 16.68 | 83.3 | 18.79 | 85.7 | 19.24 | 89.1 | 19.70 | 91.7 | 20.09 |
| | | 327.0 | 64.9 | 11.32 | 70.4 | 13.41 | 76.8 | 15.62 | 83.3 | 17.59 | 85.7 | 17.98 | 89.1 | 18.47 | 91.7 | 18.79 |
| | | 408.8 | 64.9 | 10.97 | 70.4 | 13.12 | 76.8 | 15.27 | 83.3 | 17.25 | 85.7 | 17.69 | 89.1 | 18.12 | 91.7 | 18.29 |
| | | 490.5 | 64.9 | 10.80 | 70.4 | 12.98 | 76.8 | 15.10 | 83.3 | 17.07 | 85.7 | 17.53 | 89.1 | 17.94 | 91.7 | 18.02 |
| | 40 | 130.8 | 63.2 | 14.39 | 68.3 | 16.75 | 74.5 | 19.50 | 80.9 | 21.96 | 83.3 | 22.48 | 86.7 | 23.04 | 89.0 | 23.43 |
| | | 163.5 | 63.2 | 14.11 | 68.3 | 16.47 | 74.5 | 19.18 | 80.9 | 21.60 | 83.3 | 22.10 | 86.7 | 22.67 | 89.0 | 23.05 |
| | | 327.0 | 63.2 | 12.99 | 68.3 | 15.41 | 74.5 | 17.94 | 80.9 | 20.17 | 83.3 | 20.69 | 86.7 | 21.21 | 89.0 | 21.60 |
| | | 408.8 | 63.2 | 12.60 | 68.3 | 15.06 | 74.5 | 17.56 | 80.9 | 19.78 | 83.3 | 20.30 | 86.7 | 20.83 | 89.0 | 21.04 |
| | | 490.5 | 63.2 | 12.42 | 68.3 | 14.88 | 74.5 | 17.35 | 80.9 | 19.60 | 83.3 | 20.12 | 86.7 | 20.62 | 89.0 | 20.76 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 130.8 | 61.2 | 16.23 | 66.3 | 18.94 | 72.1 | 22.03 | 78.5 | 24.81 | 80.9 | 25.40 | 84.0 | 26.07 | 86.4 | 26.43 |
| | | 163.5 | 61.2 | 15.91 | 66.3 | 18.62 | 72.1 | 21.68 | 78.5 | 24.39 | 80.9 | 24.99 | 84.0 | 25.65 | 86.4 | 26.03 |
| | | 327.0 | 61.2 | 14.67 | 66.3 | 17.38 | 72.1 | 20.27 | 78.5 | 22.76 | 80.9 | 23.40 | 84.0 | 23.96 | 86.4 | 24.39 |
| | | 408.8 | 61.2 | 14.25 | 66.3 | 16.99 | 72.1 | 19.84 | 78.5 | 22.34 | 80.9 | 22.94 | 84.0 | 23.54 | 86.4 | 23.79 |
| | | 490.5 | 61.2 | 14.03 | 66.3 | 16.81 | 72.1 | 19.63 | 78.5 | 22.12 | 80.9 | 22.70 | 84.0 | 23.32 | 86.4 | 23.50 |
| 80 | 10 | 130.8 | 59.4 | 3.90 | 64.3 | 4.50 | 70.1 | 5.27 | 76.2 | 5.98 | 78.5 | 6.05 | 81.5 | 6.29 | 83.9 | 6.30 |
| | | 163.5 | 59.4 | 3.80 | 64.3 | 4.43 | 70.1 | 5.17 | 76.2 | 5.88 | 78.5 | 5.95 | 81.5 | 6.16 | 83.9 | 6.20 |
| | | 327.0 | 59.4 | 3.48 | 64.3 | 4.19 | 70.1 | 4.79 | 76.2 | 5.46 | 78.5 | 5.59 | 81.5 | 5.70 | 83.9 | 5.80 |
| | | 408.8 | 59.4 | 3.38 | 64.3 | 4.05 | 70.1 | 4.72 | 76.2 | 5.28 | 78.5 | 5.42 | 81.5 | 5.63 | 83.9 | 5.71 |
| | | 490.5 | 59.4 | 3.35 | 64.3 | 3.98 | 70.1 | 4.68 | 76.2 | 5.21 | 78.5 | 5.32 | 81.5 | 5.59 | 83.9 | 5.67 |
| | 15 | 130.8 | 59.4 | 5.28 | 64.3 | 6.12 | 70.1 | 7.14 | 76.2 | 8.05 | 78.5 | 8.23 | 81.5 | 8.44 | 83.9 | 8.58 |
| | | 163.5 | 59.4 | 5.17 | 64.3 | 6.02 | 70.1 | 7.01 | 76.2 | 7.92 | 78.5 | 8.09 | 81.5 | 8.30 | 83.9 | 8.44 |
| | | 327.0 | 59.4 | 4.74 | 64.3 | 5.63 | 70.1 | 6.54 | 76.2 | 7.39 | 78.5 | 7.57 | 81.5 | 7.74 | 83.9 | 7.88 |
| | | 408.8 | 59.4 | 4.61 | 64.3 | 5.52 | 70.1 | 6.41 | 76.2 | 7.22 | 78.5 | 7.39 | 81.5 | 7.61 | 83.9 | 7.70 |
| | | 490.5 | 59.4 | 4.54 | 64.3 | 5.45 | 70.1 | 6.34 | 76.2 | 7.14 | 78.5 | 7.32 | 81.5 | 7.56 | 83.9 | 7.61 |
| | 20 | 130.8 | 59.4 | 6.50 | 64.3 | 7.57 | 70.1 | 8.79 | 76.2 | 9.88 | 78.5 | 10.14 | 81.5 | 10.35 | 83.9 | 10.59 |
| | | 163.5 | 59.4 | 6.37 | 64.3 | 7.45 | 70.1 | 8.65 | 76.2 | 9.72 | 78.5 | 9.99 | 81.5 | 10.20 | 83.9 | 10.41 |
| | | 327.0 | 59.4 | 5.85 | 64.3 | 6.93 | 70.1 | 8.09 | 76.2 | 9.12 | 78.5 | 9.33 | 81.5 | 9.54 | 83.9 | 9.72 |
| | | 408.8 | 59.4 | 5.67 | 64.3 | 6.79 | 70.1 | 7.92 | 76.2 | 8.94 | 78.5 | 9.16 | 81.5 | 9.39 | 83.9 | 9.47 |
| | | 490.5 | 59.4 | 5.59 | 64.3 | 6.73 | 70.1 | 7.84 | 76.2 | 8.87 | 78.5 | 9.08 | 81.5 | 9.29 | 83.9 | 9.33 |
| | 25 | 130.8 | 59.4 | 7.89 | 64.3 | 9.18 | 70.1 | 10.72 | 76.2 | 12.07 | 78.5 | 12.38 | 81.5 | 12.67 | 83.9 | 12.91 |
| | | 163.5 | 59.4 | 7.74 | 64.3 | 9.04 | 70.1 | 10.55 | 76.2 | 11.86 | 78.5 | 12.17 | 81.5 | 12.48 | 83.9 | 12.70 |
| | | 327.0 | 59.4 | 7.14 | 64.3 | 8.48 | 70.1 | 9.85 | 76.2 | 11.09 | 78.5 | 11.36 | 81.5 | 11.65 | 83.9 | 11.86 |
| | | 408.8 | 59.4 | 6.93 | 64.3 | 8.30 | 70.1 | 9.68 | 76.2 | 10.88 | 78.5 | 11.15 | 81.5 | 11.44 | 83.9 | 11.57 |
| | | 490.5 | 59.4 | 6.82 | 64.3 | 8.23 | 70.1 | 9.60 | 76.2 | 10.77 | 78.5 | 11.04 | 81.5 | 11.33 | 83.9 | 11.43 |
| | 30 | 130.8 | 59.4 | 9.75 | 64.3 | 11.33 | 70.1 | 13.20 | 76.2 | 14.88 | 78.5 | 15.23 | 81.5 | 15.56 | 83.9 | 15.87 |
| | | 163.5 | 59.4 | 9.54 | 64.3 | 11.15 | 70.1 | 12.99 | 76.2 | 14.63 | 78.5 | 14.98 | 81.5 | 15.31 | 83.9 | 15.62 |
| | | 327.0 | 59.4 | 8.77 | 64.3 | 10.41 | 70.1 | 12.14 | 76.2 | 13.65 | 78.5 | 13.97 | 81.5 | 14.32 | 83.9 | 14.59 |
| | | 408.8 | 59.4 | 8.52 | 64.3 | 10.20 | 70.1 | 11.86 | 76.2 | 13.37 | 78.5 | 13.72 | 81.5 | 14.07 | 83.9 | 14.21 |
| | | 490.5 | 59.4 | 8.38 | 64.3 | 10.09 | 70.1 | 11.75 | 76.2 | 13.26 | 78.5 | 13.59 | 81.5 | 13.94 | 83.9 | 14.00 |
| | 35 | 130.8 | 59.4 | 10.84 | 64.3 | 12.60 | 70.1 | 14.64 | 76.2 | 16.47 | 78.5 | 16.88 | 81.5 | 17.31 | 83.9 | 17.62 |
| | | 163.5 | 59.4 | 10.63 | 64.3 | 12.39 | 70.1 | 14.42 | 76.2 | 16.22 | 78.5 | 16.61 | 81.5 | 17.03 | 83.9 | 17.34 |
| | | 327.0 | 59.4 | 9.77 | 64.3 | 11.57 | 70.1 | 13.47 | 76.2 | 15.19 | 78.5 | 15.52 | 81.5 | 15.91 | 83.9 | 16.22 |
| | | 408.8 | 59.4 | 9.50 | 64.3 | 11.32 | 70.1 | 13.20 | 76.2 | 14.88 | 78.5 | 15.23 | 81.5 | 15.66 | 83.9 | 15.79 |
| | | 490.5 | 59.4 | 9.39 | 64.3 | 11.19 | 70.1 | 13.08 | 76.2 | 14.74 | 78.5 | 15.09 | 81.5 | 15.52 | 83.9 | 15.58 |
| | 40 | 130.8 | 59.4 | 12.81 | 64.3 | 14.92 | 70.1 | 17.35 | 76.2 | 19.56 | 78.5 | 19.98 | 81.5 | 20.51 | 83.9 | 20.86 |
| | | 163.5 | 59.4 | 12.56 | 64.3 | 14.67 | 70.1 | 17.07 | 76.2 | 19.24 | 78.5 | 19.67 | 81.5 | 20.17 | 83.9 | 20.52 |
| | | 327.0 | 59.4 | 11.57 | 64.3 | 13.68 | 70.1 | 15.97 | 76.2 | 17.98 | 78.5 | 18.41 | 81.5 | 18.89 | 83.9 | 19.24 |
| | | 408.8 | 59.4 | 11.23 | 64.3 | 13.41 | 70.1 | 15.62 | 76.2 | 17.63 | 78.5 | 18.08 | 81.5 | 18.50 | 83.9 | 18.72 |
| | | 490.5 | 59.4 | 11.05 | 64.3 | 13.30 | 70.1 | 15.45 | 76.2 | 17.46 | 78.5 | 17.90 | 81.5 | 18.30 | 83.9 | 18.47 |
| | 45 | 130.8 | 59.4 | 14.78 | 64.3 | 17.24 | 70.1 | 20.06 | 76.2 | 22.62 | 78.5 | 23.08 | 81.5 | 23.68 | 83.9 | 24.07 |
| | | 163.5 | 59.4 | 14.50 | 64.3 | 16.96 | 70.1 | 19.74 | 76.2 | 22.24 | 78.5 | 22.72 | 81.5 | 23.32 | 83.9 | 23.71 |
| | | 327.0 | 59.4 | 13.37 | 64.3 | 15.79 | 70.1 | 18.47 | 76.2 | 20.79 | 78.5 | 21.29 | 81.5 | 21.85 | 83.9 | 22.24 |
| | | 408.8 | 59.4 | 12.95 | 64.3 | 15.52 | 70.1 | 18.02 | 76.2 | 20.40 | 78.5 | 20.90 | 81.5 | 21.33 | 83.9 | 21.64 |
| | | 490.5 | 59.4 | 12.74 | 64.3 | 15.41 | 70.1 | 17.81 | 76.2 | 20.20 | 78.5 | 20.72 | 81.5 | 21.08 | 83.9 | 21.35 |
| 70 | 10 | 130.8 | 52.0 | 3.24 | 56.4 | 3.73 | 61.3 | 4.43 | 66.6 | 4.97 | 68.7 | 4.99 | 71.3 | 5.17 | 73.2 | 5.24 |
| | | 163.5 | 52.0 | 3.20 | 56.4 | 3.69 | 61.3 | 4.36 | 66.6 | 4.89 | 68.7 | 4.92 | 71.3 | 5.10 | 73.2 | 5.17 |
| | | 327.0 | 52.0 | 2.95 | 56.4 | 3.48 | 61.3 | 4.05 | 66.6 | 4.55 | 68.7 | 4.64 | 71.3 | 4.75 | 73.2 | 4.89 |
| | | 408.8 | 52.0 | 2.81 | 56.4 | 3.35 | 61.3 | 3.94 | 66.6 | 4.43 | 68.7 | 4.51 | 71.3 | 4.68 | 73.2 | 4.76 |
| | | 490.5 | 52.0 | 2.75 | 56.4 | 3.28 | 61.3 | 3.87 | 66.6 | 4.36 | 68.7 | 4.44 | 71.3 | 4.64 | 73.2 | 4.71 |
| | 15 | 130.8 | 52.0 | 4.39 | 56.4 | 5.07 | 61.3 | 5.95 | 66.6 | 6.69 | 68.7 | 6.82 | 71.3 | 7.00 | 73.2 | 7.11 |
| | | 163.5 | 52.0 | 4.30 | 56.4 | 4.99 | 61.3 | 5.85 | 66.6 | 6.58 | 68.7 | 6.72 | 71.3 | 6.89 | 73.2 | 7.01 |
| | | 327.0 | 52.0 | 3.95 | 56.4 | 4.68 | 61.3 | 5.46 | 66.6 | 6.16 | 68.7 | 6.29 | 71.3 | 6.45 | 73.2 | 6.58 |
| | | 408.8 | 52.0 | 3.83 | 56.4 | 4.57 | 61.3 | 5.34 | 66.6 | 6.02 | 68.7 | 6.16 | 71.3 | 6.33 | 73.2 | 6.41 |
| | | 490.5 | 52.0 | 3.76 | 56.4 | 4.50 | 61.3 | 5.27 | 66.6 | 5.95 | 68.7 | 6.09 | 71.3 | 6.26 | 73.2 | 6.33 |
| | 20 | 130.8 | 52.0 | 5.39 | 56.4 | 6.26 | 61.3 | 7.31 | 66.6 | 8.23 | 68.7 | 8.44 | 71.3 | 8.61 | 73.2 | 8.79 |
| | | 163.5 | 52.0 | 5.28 | 56.4 | 6.16 | 61.3 | 7.18 | 66.6 | 8.09 | 68.7 | 8.30 | 71.3 | 8.48 | 73.2 | 8.65 |
| | | 327.0 | 52.0 | 4.86 | 56.4 | 5.77 | 61.3 | 6.72 | 66.6 | 7.57 | 68.7 | 7.74 | 71.3 | 7.96 | 73.2 | 8.09 |
| | | 408.8 | 52.0 | 4.74 | 56.4 | 5.63 | 61.3 | 6.58 | 66.6 | 7.45 | 68.7 | 7.61 | 71.3 | 7.78 | 73.2 | 7.88 |
| | | 490.5 | 52.0 | 4.67 | 56.4 | 5.56 | 61.3 | 6.51 | 66.6 | 7.38 | 68.7 | 7.56 | 71.3 | 7.70 | 73.2 | 7.77 |
| | 25 | 130.8 | 52.0 | 6.58 | 56.4 | 7.64 | 61.3 | 8.91 | 66.6 | 10.06 | 68.7 | 10.27 | 71.3 | 10.55 | 73.2 | 10.72 |
| | | 163.5 | 52.0 | 6.45 | 56.4 | 7.53 | 61.3 | 8.77 | 66.6 | 9.89 | 68.7 | 10.10 | 71.3 | 10.37 | 73.2 | 10.55 |
| | | 327.0 | 52.0 | 5.94 | 56.4 | 7.07 | 61.3 | 8.23 | 66.6 | 9.25 | 68.7 | 9.47 | 71.3 | 9.68 | 73.2 | 9.85 |
| | | 408.8 | 52.0 | 5.77 | 56.4 | 6.89 | 61.3 | 8.05 | 66.6 | 9.04 | 68.7 | 9.29 | 71.3 | 9.50 | 73.2 | 9.60 |
| | | 490.5 | 52.0 | 5.67 | 56.4 | 6.79 | 61.3 | 7.96 | 66.6 | 8.93 | 68.7 | 9.21 | 71.3 | 9.43 | 73.2 | 9.47 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 130.8 | 52.0 | 8.13 | 56.4 | 9.40 | 61.3 | 10.98 | 66.6 | 12.32 | 68.7 | 12.64 | 71.3 | 12.95 | 73.2 | 13.16 |
| | | 163.5 | 52.0 | 7.96 | 56.4 | 9.25 | 61.3 | 10.80 | 66.6 | 12.14 | 68.7 | 12.43 | 71.3 | 12.74 | 73.2 | 12.95 |
| | | 327.0 | 52.0 | 7.32 | 56.4 | 8.65 | 61.3 | 10.06 | 66.6 | 11.36 | 68.7 | 11.61 | 71.3 | 11.92 | 73.2 | 12.14 |
| | | 408.8 | 52.0 | 7.10 | 56.4 | 8.48 | 61.3 | 9.89 | 66.6 | 11.15 | 68.7 | 11.40 | 71.3 | 11.71 | 73.2 | 11.83 |
| | | 490.5 | 52.0 | 7.00 | 56.4 | 8.38 | 61.3 | 9.81 | 66.6 | 11.04 | 68.7 | 11.29 | 71.3 | 11.60 | 73.2 | 11.68 |
| | 35 | 130.8 | 52.0 | 9.00 | 56.4 | 10.45 | 61.3 | 12.21 | 66.6 | 13.73 | 68.7 | 14.04 | 71.3 | 14.39 | 73.2 | 14.64 |
| | | 163.5 | 52.0 | 8.83 | 56.4 | 10.28 | 61.3 | 12.00 | 66.6 | 13.51 | 68.7 | 13.80 | 71.3 | 14.15 | 73.2 | 14.42 |
| | | 327.0 | 52.0 | 8.13 | 56.4 | 9.64 | 61.3 | 11.19 | 66.6 | 12.60 | 68.7 | 12.91 | 71.3 | 13.26 | 73.2 | 13.51 |
| | | 408.8 | 52.0 | 7.88 | 56.4 | 9.43 | 61.3 | 10.97 | 66.6 | 12.39 | 68.7 | 12.70 | 71.3 | 12.99 | 73.2 | 13.12 |
| | | 490.5 | 52.0 | 7.74 | 56.4 | 9.32 | 61.3 | 10.87 | 66.6 | 12.28 | 68.7 | 12.59 | 71.3 | 12.87 | 73.2 | 12.92 |
| | 40 | 130.8 | 52.0 | 10.67 | 56.4 | 12.38 | 61.3 | 14.43 | 66.6 | 16.22 | 68.7 | 16.61 | 71.3 | 17.06 | 73.2 | 17.35 |
| | | 163.5 | 52.0 | 10.45 | 56.4 | 12.17 | 61.3 | 14.21 | 66.6 | 15.97 | 68.7 | 16.36 | 71.3 | 16.78 | 73.2 | 17.07 |
| | | 327.0 | 52.0 | 9.60 | 56.4 | 11.40 | 61.3 | 13.26 | 66.6 | 14.92 | 68.7 | 15.31 | 71.3 | 15.70 | 73.2 | 15.97 |
| | | 408.8 | 52.0 | 9.33 | 56.4 | 11.15 | 61.3 | 12.99 | 66.6 | 14.67 | 68.7 | 15.02 | 71.3 | 15.41 | 73.2 | 15.58 |
| | | 490.5 | 52.0 | 9.21 | 56.4 | 11.01 | 61.3 | 12.87 | 66.6 | 14.54 | 68.7 | 14.86 | 71.3 | 15.24 | 73.2 | 15.38 |
| | 45 | 130.8 | 52.0 | 12.35 | 56.4 | 14.29 | 61.3 | 16.67 | 66.6 | 18.71 | 68.7 | 19.18 | 71.3 | 19.71 | 73.2 | 20.09 |
| | | 163.5 | 52.0 | 12.10 | 56.4 | 14.07 | 61.3 | 16.39 | 66.6 | 18.41 | 68.7 | 18.89 | 71.3 | 19.39 | 73.2 | 19.74 |
| | | 327.0 | 52.0 | 11.05 | 56.4 | 13.16 | 61.3 | 15.31 | 66.6 | 17.25 | 68.7 | 17.73 | 71.3 | 18.16 | 73.2 | 18.41 |
| | | 408.8 | 52.0 | 10.80 | 56.4 | 12.87 | 61.3 | 15.02 | 66.6 | 16.96 | 68.7 | 17.34 | 71.3 | 17.81 | 73.2 | 18.02 |
| | | 490.5 | 52.0 | 10.67 | 56.4 | 12.71 | 61.3 | 14.86 | 66.6 | 16.79 | 68.7 | 17.14 | 71.3 | 17.63 | 73.2 | 17.84 |
| 60 | 10 | 130.8 | 44.5 | 2.64 | 48.3 | 3.03 | 52.4 | 3.49 | 57.1 | 3.95 | 58.8 | 4.05 | 61.2 | 4.19 | 62.9 | 4.19 |
| | | 163.5 | 44.5 | 2.57 | 48.3 | 2.99 | 52.4 | 3.44 | 57.1 | 3.90 | 58.8 | 3.98 | 61.2 | 4.11 | 62.9 | 4.15 |
| | | 327.0 | 44.5 | 2.32 | 48.3 | 2.78 | 52.4 | 3.17 | 57.1 | 3.65 | 58.8 | 3.63 | 61.2 | 3.76 | 62.9 | 3.90 |
| | | 408.8 | 44.5 | 2.22 | 48.3 | 2.68 | 52.4 | 3.14 | 57.1 | 3.56 | 58.8 | 3.59 | 61.2 | 3.69 | 62.9 | 3.73 |
| | | 490.5 | 44.5 | 2.18 | 48.3 | 2.64 | 52.4 | 3.13 | 57.1 | 3.52 | 58.8 | 3.58 | 61.2 | 3.63 | 62.9 | 3.63 |
| | 15 | 130.8 | 44.5 | 3.52 | 48.3 | 4.07 | 52.4 | 4.72 | 57.1 | 5.34 | 58.8 | 5.48 | 61.2 | 5.60 | 62.9 | 5.67 |
| | | 163.5 | 44.5 | 3.45 | 48.3 | 4.01 | 52.4 | 4.65 | 57.1 | 5.25 | 58.8 | 5.38 | 61.2 | 5.52 | 62.9 | 5.59 |
| | | 327.0 | 44.5 | 3.14 | 48.3 | 3.74 | 52.4 | 4.34 | 57.1 | 4.90 | 58.8 | 4.99 | 61.2 | 5.13 | 62.9 | 5.25 |
| | | 408.8 | 44.5 | 3.06 | 48.3 | 3.66 | 52.4 | 4.26 | 57.1 | 4.82 | 58.8 | 4.90 | 61.2 | 5.03 | 62.9 | 5.07 |
| | | 490.5 | 44.5 | 3.02 | 48.3 | 3.62 | 52.4 | 4.22 | 57.1 | 4.78 | 58.8 | 4.86 | 61.2 | 4.99 | 62.9 | 4.99 |
| | 20 | 130.8 | 44.5 | 4.30 | 48.3 | 4.99 | 52.4 | 5.81 | 57.1 | 6.55 | 58.8 | 6.73 | 61.2 | 6.86 | 62.9 | 7.00 |
| | | 163.5 | 44.5 | 4.22 | 48.3 | 4.90 | 52.4 | 5.73 | 57.1 | 6.45 | 58.8 | 6.62 | 61.2 | 6.76 | 62.9 | 6.89 |
| | | 327.0 | 44.5 | 3.87 | 48.3 | 4.61 | 52.4 | 5.38 | 57.1 | 6.02 | 58.8 | 6.19 | 61.2 | 6.33 | 62.9 | 6.45 |
| | | 408.8 | 44.5 | 3.79 | 48.3 | 4.51 | 52.4 | 5.25 | 57.1 | 5.94 | 58.8 | 6.06 | 61.2 | 6.23 | 62.9 | 6.29 |
| | | 490.5 | 44.5 | 3.74 | 48.3 | 4.47 | 52.4 | 5.18 | 57.1 | 5.90 | 58.8 | 6.01 | 61.2 | 6.19 | 62.9 | 6.19 |
| | 25 | 130.8 | 44.5 | 5.28 | 48.3 | 6.08 | 52.4 | 7.07 | 57.1 | 7.99 | 58.8 | 8.17 | 61.2 | 8.38 | 62.9 | 8.52 |
| | | 163.5 | 44.5 | 5.17 | 48.3 | 5.98 | 52.4 | 6.97 | 57.1 | 7.88 | 58.8 | 8.05 | 61.2 | 8.27 | 62.9 | 8.38 |
| | | 327.0 | 44.5 | 4.74 | 48.3 | 5.59 | 52.4 | 6.54 | 57.1 | 7.36 | 58.8 | 7.53 | 61.2 | 7.74 | 62.9 | 7.88 |
| | | 408.8 | 44.5 | 4.61 | 48.3 | 5.52 | 52.4 | 6.41 | 57.1 | 7.22 | 58.8 | 7.39 | 61.2 | 7.57 | 62.9 | 7.67 |
| | | 490.5 | 44.5 | 4.54 | 48.3 | 5.46 | 52.4 | 6.34 | 57.1 | 7.17 | 58.8 | 7.33 | 61.2 | 7.49 | 62.9 | 7.56 |
| | 30 | 130.8 | 44.5 | 6.45 | 48.3 | 7.53 | 52.4 | 8.75 | 57.1 | 9.85 | 58.8 | 10.06 | 61.2 | 10.31 | 62.9 | 10.49 |
| | | 163.5 | 44.5 | 6.33 | 48.3 | 7.39 | 52.4 | 8.61 | 57.1 | 9.68 | 58.8 | 9.89 | 61.2 | 10.16 | 62.9 | 10.32 |
| | | 327.0 | 44.5 | 5.81 | 48.3 | 6.89 | 52.4 | 8.05 | 57.1 | 9.04 | 58.8 | 9.25 | 61.2 | 9.50 | 62.9 | 9.68 |
| | | 408.8 | 44.5 | 5.67 | 48.3 | 6.76 | 52.4 | 7.88 | 57.1 | 8.87 | 58.8 | 9.08 | 61.2 | 9.33 | 62.9 | 9.43 |
| | | 490.5 | 44.5 | 5.62 | 48.3 | 6.69 | 52.4 | 7.78 | 57.1 | 8.77 | 58.8 | 9.00 | 61.2 | 9.25 | 62.9 | 9.29 |
| | 35 | 130.8 | 44.5 | 7.15 | 48.3 | 8.37 | 52.4 | 9.71 | 57.1 | 10.94 | 58.8 | 11.19 | 61.2 | 11.44 | 62.9 | 11.68 |
| | | 163.5 | 44.5 | 7.01 | 48.3 | 8.23 | 52.4 | 9.54 | 57.1 | 10.76 | 58.8 | 11.01 | 61.2 | 11.26 | 62.9 | 11.48 |
| | | 327.0 | 44.5 | 6.45 | 48.3 | 7.67 | 52.4 | 8.94 | 57.1 | 10.06 | 58.8 | 10.28 | 61.2 | 10.59 | 62.9 | 10.76 |
| | | 408.8 | 44.5 | 6.29 | 48.3 | 7.49 | 52.4 | 8.73 | 57.1 | 9.85 | 58.8 | 10.10 | 61.2 | 10.37 | 62.9 | 10.45 |
| | | 490.5 | 44.5 | 6.19 | 48.3 | 7.39 | 52.4 | 8.62 | 57.1 | 9.75 | 58.8 | 10.03 | 61.2 | 10.27 | 62.9 | 10.31 |
| | 40 | 130.8 | 44.5 | 8.52 | 48.3 | 9.89 | 52.4 | 11.50 | 57.1 | 12.95 | 58.8 | 13.26 | 61.2 | 13.59 | 62.9 | 13.82 |
| | | 163.5 | 44.5 | 8.34 | 48.3 | 9.72 | 52.4 | 11.32 | 57.1 | 12.74 | 58.8 | 13.03 | 61.2 | 13.37 | 62.9 | 13.59 |
| | | 327.0 | 44.5 | 7.67 | 48.3 | 9.08 | 52.4 | 10.59 | 57.1 | 11.92 | 58.8 | 12.17 | 61.2 | 12.52 | 62.9 | 12.74 |
| | | 408.8 | 44.5 | 7.45 | 48.3 | 8.90 | 52.4 | 10.37 | 57.1 | 11.65 | 58.8 | 11.96 | 61.2 | 12.25 | 62.9 | 12.39 |
| | | 490.5 | 44.5 | 7.33 | 48.3 | 8.83 | 52.4 | 10.27 | 57.1 | 11.54 | 58.8 | 11.86 | 61.2 | 12.14 | 62.9 | 12.21 |
| | 45 | 130.8 | 44.5 | 9.89 | 48.3 | 11.41 | 52.4 | 13.30 | 57.1 | 14.95 | 58.8 | 15.31 | 61.2 | 15.76 | 62.9 | 15.95 |
| | | 163.5 | 44.5 | 9.68 | 48.3 | 11.23 | 52.4 | 13.08 | 57.1 | 14.71 | 58.8 | 15.06 | 61.2 | 15.48 | 62.9 | 15.70 |
| | | 327.0 | 44.5 | 8.87 | 48.3 | 10.49 | 52.4 | 12.21 | 57.1 | 13.76 | 58.8 | 14.07 | 61.2 | 14.46 | 62.9 | 14.71 |
| | | 408.8 | 44.5 | 8.61 | 48.3 | 10.32 | 52.4 | 12.00 | 57.1 | 13.47 | 58.8 | 13.80 | 61.2 | 14.15 | 62.9 | 14.32 |
| | | 490.5 | 44.5 | 8.48 | 48.3 | 10.24 | 52.4 | 11.89 | 57.1 | 13.31 | 58.8 | 13.68 | 61.2 | 14.00 | 62.9 | 14.14 |
| 50 | 10 | 130.8 | 37.1 | 1.87 | 40.2 | 2.22 | 43.8 | 2.68 | 47.6 | 2.95 | 49.0 | 2.98 | 51.0 | 3.07 | 52.4 | 3.16 |
| | | 163.5 | 37.1 | 1.86 | 40.2 | 2.19 | 43.8 | 2.61 | 47.6 | 2.89 | 49.0 | 2.93 | 51.0 | 3.02 | 52.4 | 3.10 |
| | | 327.0 | 37.1 | 1.79 | 40.2 | 2.07 | 43.8 | 2.36 | 47.6 | 2.68 | 49.0 | 2.78 | 51.0 | 2.81 | 52.4 | 2.89 |
| | | 408.8 | 37.1 | 1.69 | 40.2 | 1.98 | 43.8 | 2.36 | 47.6 | 2.60 | 49.0 | 2.68 | 51.0 | 2.72 | 52.4 | 2.78 |
| | | 490.5 | 37.1 | 1.65 | 40.2 | 1.94 | 43.8 | 2.36 | 47.6 | 2.56 | 49.0 | 2.64 | 51.0 | 2.68 | 52.4 | 2.71 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 130.8 | 37.1 | 2.57 | 40.2 | 3.02 | 43.8 | 3.55 | 47.6 | 3.98 | 49.0 | 4.07 | 51.0 | 4.15 | 52.4 | 4.23 |
| | | 163.5 | 37.1 | 2.54 | 40.2 | 2.96 | 43.8 | 3.48 | 47.6 | 3.91 | 49.0 | 4.01 | 51.0 | 4.08 | 52.4 | 4.18 |
| | | 327.0 | 37.1 | 2.36 | 40.2 | 2.79 | 43.8 | 3.23 | 47.6 | 3.66 | 49.0 | 3.74 | 51.0 | 3.83 | 52.4 | 3.91 |
| | | 408.8 | 37.1 | 2.28 | 40.2 | 2.71 | 43.8 | 3.17 | 47.6 | 3.56 | 49.0 | 3.66 | 51.0 | 3.74 | 52.4 | 3.79 |
| | | 490.5 | 37.1 | 2.25 | 40.2 | 2.67 | 43.8 | 3.16 | 47.6 | 3.52 | 49.0 | 3.62 | 51.0 | 3.70 | 52.4 | 3.73 |
| | 20 | 130.8 | 37.1 | 3.20 | 40.2 | 3.70 | 43.8 | 4.33 | 47.6 | 4.89 | 49.0 | 5.03 | 51.0 | 5.11 | 52.4 | 5.20 |
| | | 163.5 | 37.1 | 3.14 | 40.2 | 3.66 | 43.8 | 4.26 | 47.6 | 4.82 | 49.0 | 4.96 | 51.0 | 5.03 | 52.4 | 5.13 |
| | | 327.0 | 37.1 | 2.88 | 40.2 | 3.45 | 43.8 | 4.01 | 47.6 | 4.51 | 49.0 | 4.61 | 51.0 | 4.74 | 52.4 | 4.82 |
| | | 408.8 | 37.1 | 2.79 | 40.2 | 3.35 | 43.8 | 3.91 | 47.6 | 4.43 | 49.0 | 4.51 | 51.0 | 4.65 | 52.4 | 4.68 |
| | | 490.5 | 37.1 | 2.75 | 40.2 | 3.31 | 43.8 | 3.87 | 47.6 | 4.39 | 49.0 | 4.47 | 51.0 | 4.61 | 52.4 | 4.62 |
| | 25 | 130.8 | 37.1 | 3.91 | 40.2 | 4.54 | 43.8 | 5.28 | 47.6 | 5.94 | 49.0 | 6.12 | 51.0 | 6.26 | 52.4 | 6.40 |
| | | 163.5 | 37.1 | 3.83 | 40.2 | 4.47 | 43.8 | 5.21 | 47.6 | 5.85 | 49.0 | 6.02 | 51.0 | 6.16 | 52.4 | 6.29 |
| | | 327.0 | 37.1 | 3.52 | 40.2 | 4.18 | 43.8 | 4.86 | 47.6 | 5.52 | 49.0 | 5.63 | 51.0 | 5.77 | 52.4 | 5.85 |
| | | 408.8 | 37.1 | 3.45 | 40.2 | 4.08 | 43.8 | 4.78 | 47.6 | 5.38 | 49.0 | 5.52 | 51.0 | 5.63 | 52.4 | 5.73 |
| | | 490.5 | 37.1 | 3.41 | 40.2 | 4.05 | 43.8 | 4.74 | 47.6 | 5.31 | 49.0 | 5.45 | 51.0 | 5.56 | 52.4 | 5.66 |
| | 30 | 130.8 | 37.1 | 4.82 | 40.2 | 5.59 | 43.8 | 6.51 | 47.6 | 7.35 | 49.0 | 7.53 | 51.0 | 7.70 | 52.4 | 7.82 |
| | | 163.5 | 37.1 | 4.74 | 40.2 | 5.52 | 43.8 | 6.41 | 47.6 | 7.22 | 49.0 | 7.39 | 51.0 | 7.57 | 52.4 | 7.70 |
| | | 327.0 | 37.1 | 4.34 | 40.2 | 5.17 | 43.8 | 5.98 | 47.6 | 6.76 | 49.0 | 6.93 | 51.0 | 7.10 | 52.4 | 7.22 |
| | | 408.8 | 37.1 | 4.22 | 40.2 | 5.03 | 43.8 | 5.85 | 47.6 | 6.62 | 49.0 | 6.79 | 51.0 | 6.97 | 52.4 | 7.01 |
| | | 490.5 | 37.1 | 4.15 | 40.2 | 4.96 | 43.8 | 5.78 | 47.6 | 6.55 | 49.0 | 6.73 | 51.0 | 6.90 | 52.4 | 6.90 |
| | 35 | 130.8 | 37.1 | 5.35 | 40.2 | 6.20 | 43.8 | 7.25 | 47.6 | 8.13 | 49.0 | 8.37 | 51.0 | 8.58 | 52.4 | 8.70 |
| | | 163.5 | 37.1 | 5.25 | 40.2 | 6.12 | 43.8 | 7.14 | 47.6 | 7.99 | 49.0 | 8.23 | 51.0 | 8.44 | 52.4 | 8.56 |
| | | 327.0 | 37.1 | 4.82 | 40.2 | 5.73 | 43.8 | 6.68 | 47.6 | 7.49 | 49.0 | 7.67 | 51.0 | 7.88 | 52.4 | 7.99 |
| | | 408.8 | 37.1 | 4.68 | 40.2 | 5.59 | 43.8 | 6.54 | 47.6 | 7.36 | 49.0 | 7.53 | 51.0 | 7.74 | 52.4 | 7.78 |
| | | 490.5 | 37.1 | 4.62 | 40.2 | 5.53 | 43.8 | 6.47 | 47.6 | 7.29 | 49.0 | 7.46 | 51.0 | 7.67 | 52.4 | 7.67 |
| | 40 | 130.8 | 37.1 | 6.31 | 40.2 | 7.35 | 43.8 | 8.58 | 47.6 | 9.67 | 49.0 | 9.89 | 51.0 | 10.14 | 52.4 | 10.31 |
| | | 163.5 | 37.1 | 6.19 | 40.2 | 7.22 | 43.8 | 8.44 | 47.6 | 9.50 | 49.0 | 9.72 | 51.0 | 9.99 | 52.4 | 10.16 |
| | | 327.0 | 37.1 | 5.73 | 40.2 | 6.76 | 43.8 | 7.88 | 47.6 | 8.87 | 49.0 | 9.08 | 51.0 | 9.33 | 52.4 | 9.50 |
| | | 408.8 | 37.1 | 5.56 | 40.2 | 6.62 | 43.8 | 7.74 | 47.6 | 8.69 | 49.0 | 8.90 | 51.0 | 9.16 | 52.4 | 9.25 |
| | | 490.5 | 37.1 | 5.46 | 40.2 | 6.55 | 43.8 | 7.67 | 47.6 | 8.61 | 49.0 | 8.83 | 51.0 | 9.08 | 52.4 | 9.12 |
| | 45 | 130.8 | 37.1 | 7.28 | 40.2 | 8.48 | 43.8 | 9.89 | 47.6 | 11.22 | 49.0 | 11.41 | 51.0 | 11.72 | 52.4 | 11.93 |
| | | 163.5 | 37.1 | 7.14 | 40.2 | 8.34 | 43.8 | 9.72 | 47.6 | 11.01 | 49.0 | 11.23 | 51.0 | 11.54 | 52.4 | 11.75 |
| | | 327.0 | 37.1 | 6.62 | 40.2 | 7.78 | 43.8 | 9.08 | 47.6 | 10.24 | 49.0 | 10.49 | 51.0 | 10.80 | 52.4 | 11.01 |
| | | 408.8 | 37.1 | 6.41 | 40.2 | 7.67 | 43.8 | 8.94 | 47.6 | 10.03 | 49.0 | 10.28 | 51.0 | 10.59 | 52.4 | 10.70 |
| | | 490.5 | 37.1 | 6.30 | 40.2 | 7.60 | 43.8 | 8.89 | 47.6 | 9.92 | 49.0 | 10.17 | 51.0 | 10.48 | 52.4 | 10.56 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(36HP)**

## ARWN360BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 138.8 | 93.6 | 6.87 | 101.3 | 8.05 | 110.6 | 9.38 | 120.1 | 10.56 | 123.5 | 10.86 | 128.5 | 11.06 | 131.9 | 11.16 |
| | | 173.5 | 93.6 | 6.75 | 101.3 | 7.92 | 110.6 | 9.23 | 120.1 | 10.41 | 123.5 | 10.66 | 128.5 | 10.89 | 131.9 | 11.01 |
| | | 347.0 | 93.6 | 6.27 | 101.3 | 7.42 | 110.6 | 8.65 | 120.1 | 9.73 | 123.5 | 9.90 | 128.5 | 10.21 | 131.9 | 10.44 |
| | | 433.8 | 93.6 | 6.07 | 101.3 | 7.25 | 110.6 | 8.45 | 120.1 | 9.50 | 123.5 | 9.76 | 128.5 | 9.98 | 131.9 | 10.16 |
| | | 520.5 | 93.6 | 5.99 | 101.3 | 7.15 | 110.6 | 8.38 | 120.1 | 9.38 | 123.5 | 9.71 | 128.5 | 9.88 | 131.9 | 10.03 |
| | 15 | 138.8 | 92.1 | 9.08 | 99.8 | 10.56 | 108.8 | 12.31 | 118.3 | 13.87 | 121.6 | 14.20 | 126.5 | 14.52 | 129.9 | 14.75 |
| | | 173.5 | 92.1 | 8.90 | 99.8 | 10.38 | 108.8 | 12.11 | 118.3 | 13.64 | 121.6 | 13.97 | 126.5 | 14.30 | 129.9 | 14.52 |
| | | 347.0 | 92.1 | 8.20 | 99.8 | 9.73 | 108.8 | 11.31 | 118.3 | 12.76 | 121.6 | 13.04 | 126.5 | 13.42 | 129.9 | 13.69 |
| | | 433.8 | 92.1 | 7.97 | 99.8 | 9.50 | 108.8 | 11.08 | 118.3 | 12.49 | 121.6 | 12.81 | 126.5 | 13.14 | 129.9 | 13.37 |
| | | 520.5 | 92.1 | 7.85 | 99.8 | 9.38 | 108.8 | 10.96 | 118.3 | 12.34 | 121.6 | 12.69 | 126.5 | 12.99 | 129.9 | 13.19 |
| | 20 | 138.8 | 90.8 | 11.03 | 98.5 | 12.77 | 107.2 | 14.92 | 116.5 | 16.80 | 120.1 | 17.18 | 124.7 | 17.60 | 128.1 | 17.93 |
| | | 173.5 | 90.8 | 10.81 | 98.5 | 12.57 | 107.2 | 14.67 | 116.5 | 16.53 | 120.1 | 16.90 | 124.7 | 17.33 | 128.1 | 17.65 |
| | | 347.0 | 90.8 | 9.93 | 98.5 | 11.79 | 107.2 | 13.69 | 116.5 | 15.45 | 120.1 | 15.83 | 124.7 | 16.25 | 128.1 | 16.58 |
| | | 433.8 | 90.8 | 9.63 | 98.5 | 11.51 | 107.2 | 13.42 | 116.5 | 15.13 | 120.1 | 15.50 | 124.7 | 15.93 | 128.1 | 16.20 |
| | | 520.5 | 90.8 | 9.50 | 98.5 | 11.36 | 107.2 | 13.27 | 116.5 | 14.97 | 120.1 | 15.35 | 124.7 | 15.77 | 128.1 | 16.02 |
| | 25 | 138.8 | 90.8 | 13.59 | 98.5 | 15.75 | 107.2 | 18.36 | 116.5 | 20.69 | 120.1 | 21.19 | 124.7 | 21.72 | 128.1 | 22.07 |
| | | 173.5 | 90.8 | 13.32 | 98.5 | 15.50 | 107.2 | 18.06 | 116.5 | 20.34 | 120.1 | 20.87 | 124.7 | 21.37 | 128.1 | 21.74 |
| | | 347.0 | 90.8 | 12.24 | 98.5 | 14.52 | 107.2 | 16.90 | 116.5 | 19.04 | 120.1 | 19.51 | 124.7 | 20.02 | 128.1 | 20.44 |
| | | 433.8 | 90.8 | 11.91 | 98.5 | 14.20 | 107.2 | 16.58 | 116.5 | 18.68 | 120.1 | 19.14 | 124.7 | 19.66 | 128.1 | 19.99 |
| | | 520.5 | 90.8 | 11.76 | 98.5 | 14.04 | 107.2 | 16.42 | 116.5 | 18.48 | 120.1 | 18.96 | 124.7 | 19.46 | 128.1 | 19.74 |
| | 30 | 138.8 | 90.8 | 16.30 | 98.5 | 18.93 | 107.2 | 22.05 | 116.5 | 24.85 | 120.1 | 25.41 | 124.7 | 26.08 | 128.1 | 26.46 |
| | | 173.5 | 90.8 | 15.98 | 98.5 | 18.63 | 107.2 | 21.70 | 116.5 | 24.45 | 120.1 | 25.00 | 124.7 | 25.66 | 128.1 | 26.08 |
| | | 347.0 | 90.8 | 14.67 | 98.5 | 17.41 | 107.2 | 20.31 | 116.5 | 22.87 | 120.1 | 23.42 | 124.7 | 24.03 | 128.1 | 24.55 |
| | | 433.8 | 90.8 | 14.30 | 98.5 | 17.05 | 107.2 | 19.89 | 116.5 | 22.40 | 120.1 | 23.00 | 124.7 | 23.57 | 128.1 | 23.98 |
| | | 520.5 | 90.8 | 14.12 | 98.5 | 16.85 | 107.2 | 19.69 | 116.5 | 22.17 | 120.1 | 22.80 | 124.7 | 23.33 | 128.1 | 23.70 |
| | 35 | 138.8 | 81.8 | 16.48 | 88.5 | 19.18 | 96.4 | 22.29 | 104.9 | 25.13 | 108.0 | 25.68 | 112.1 | 26.36 | 115.2 | 26.81 |
| | | 173.5 | 81.8 | 16.15 | 88.5 | 18.86 | 96.4 | 21.94 | 104.9 | 24.73 | 108.0 | 25.28 | 112.1 | 25.93 | 115.2 | 26.41 |
| | | 347.0 | 81.8 | 14.85 | 88.5 | 17.61 | 96.4 | 20.54 | 104.9 | 23.10 | 108.0 | 23.70 | 112.1 | 24.30 | 115.2 | 24.78 |
| | | 433.8 | 81.8 | 14.44 | 88.5 | 17.23 | 96.4 | 20.11 | 104.9 | 22.62 | 108.0 | 23.25 | 112.1 | 23.85 | 115.2 | 24.25 |
| | | 520.5 | 81.8 | 14.22 | 88.5 | 17.05 | 96.4 | 19.91 | 104.9 | 22.40 | 108.0 | 23.00 | 112.1 | 23.60 | 115.2 | 24.00 |
| | 40 | 138.8 | 72.7 | 17.40 | 78.7 | 20.21 | 85.6 | 23.52 | 93.1 | 26.51 | 95.9 | 27.11 | 99.8 | 27.76 | 102.6 | 28.27 |
| | | 173.5 | 72.7 | 17.05 | 78.7 | 19.89 | 85.6 | 23.15 | 93.1 | 26.08 | 95.9 | 26.68 | 99.8 | 27.34 | 102.6 | 27.84 |
| | | 347.0 | 72.7 | 15.65 | 78.7 | 18.58 | 85.6 | 21.65 | 93.1 | 24.35 | 95.9 | 24.96 | 99.8 | 25.66 | 102.6 | 26.18 |
| | | 433.8 | 72.7 | 15.22 | 78.7 | 18.16 | 85.6 | 21.19 | 93.1 | 23.90 | 95.9 | 24.50 | 99.8 | 25.15 | 102.6 | 25.56 |
| | | 520.5 | 72.7 | 15.02 | 78.7 | 17.96 | 85.6 | 20.96 | 93.1 | 23.65 | 95.9 | 24.25 | 99.8 | 24.90 | 102.6 | 25.26 |
| | 45 | 138.8 | 63.5 | 18.31 | 68.9 | 21.24 | 74.8 | 24.75 | 81.3 | 27.89 | 83.8 | 28.54 | 87.2 | 29.17 | 89.7 | 29.72 |
| | | 173.5 | 63.5 | 17.93 | 68.9 | 20.91 | 74.8 | 24.35 | 81.3 | 27.44 | 83.8 | 28.09 | 87.2 | 28.74 | 89.7 | 29.29 |
| | | 347.0 | 63.5 | 16.43 | 68.9 | 19.56 | 74.8 | 22.77 | 81.3 | 25.61 | 83.8 | 26.21 | 87.2 | 27.01 | 89.7 | 27.56 |
| | | 433.8 | 63.5 | 16.02 | 68.9 | 19.09 | 74.8 | 22.27 | 81.3 | 25.15 | 83.8 | 25.76 | 87.2 | 26.46 | 89.7 | 26.86 |
| | | 520.5 | 63.5 | 15.80 | 68.9 | 18.86 | 74.8 | 22.00 | 81.3 | 24.91 | 83.8 | 25.53 | 87.2 | 26.18 | 89.7 | 26.53 |
| 120 | 10 | 138.8 | 88.5 | 6.57 | 95.9 | 7.58 | 104.4 | 8.93 | 113.7 | 10.01 | 117.2 | 10.31 | 121.6 | 10.51 | 125.0 | 10.71 |
| | | 173.5 | 88.5 | 6.42 | 95.9 | 7.45 | 104.4 | 8.78 | 113.7 | 9.83 | 117.2 | 10.11 | 121.6 | 10.33 | 125.0 | 10.51 |
| | | 347.0 | 88.5 | 5.89 | 95.9 | 6.97 | 104.4 | 8.13 | 113.7 | 9.21 | 117.2 | 9.38 | 121.6 | 9.66 | 125.0 | 9.78 |
| | | 433.8 | 88.5 | 5.80 | 95.9 | 6.82 | 104.4 | 8.05 | 113.7 | 9.03 | 117.2 | 9.21 | 121.6 | 9.48 | 125.0 | 9.61 |
| | | 520.5 | 88.5 | 5.77 | 95.9 | 6.77 | 104.4 | 8.00 | 113.7 | 8.95 | 117.2 | 9.13 | 121.6 | 9.40 | 125.0 | 9.53 |
| | 15 | 138.8 | 87.7 | 8.70 | 94.9 | 10.08 | 103.4 | 11.79 | 112.4 | 13.24 | 115.7 | 13.59 | 120.3 | 13.92 | 123.7 | 14.15 |
| | | 173.5 | 87.7 | 8.53 | 94.9 | 9.93 | 103.4 | 11.59 | 112.4 | 13.04 | 115.7 | 13.37 | 120.3 | 13.69 | 123.7 | 13.92 |
| | | 347.0 | 87.7 | 7.82 | 94.9 | 9.28 | 103.4 | 10.81 | 112.4 | 12.19 | 115.7 | 12.49 | 120.3 | 12.81 | 123.7 | 13.04 |
| | | 433.8 | 87.7 | 7.65 | 94.9 | 9.08 | 103.4 | 10.61 | 112.4 | 11.96 | 115.7 | 12.24 | 120.3 | 12.57 | 123.7 | 12.76 |
| | | 520.5 | 87.7 | 7.55 | 94.9 | 8.98 | 103.4 | 10.53 | 112.4 | 11.86 | 115.7 | 12.14 | 120.3 | 12.46 | 123.7 | 12.62 |
| | 20 | 138.8 | 86.9 | 10.61 | 93.9 | 12.31 | 102.3 | 14.35 | 111.3 | 16.13 | 114.4 | 16.50 | 119.0 | 16.95 | 122.4 | 17.21 |
| | | 173.5 | 86.9 | 10.38 | 93.9 | 12.11 | 102.3 | 14.12 | 111.3 | 15.88 | 114.4 | 16.25 | 119.0 | 16.68 | 122.4 | 16.95 |
| | | 347.0 | 86.9 | 9.55 | 93.9 | 11.31 | 102.3 | 13.17 | 111.3 | 14.85 | 114.4 | 15.22 | 119.0 | 15.60 | 122.4 | 15.93 |
| | | 433.8 | 86.9 | 9.28 | 93.9 | 11.08 | 102.3 | 12.89 | 111.3 | 14.57 | 114.4 | 14.95 | 119.0 | 15.32 | 122.4 | 15.55 |
| | | 520.5 | 86.9 | 9.13 | 93.9 | 10.96 | 102.3 | 12.76 | 111.3 | 14.44 | 114.4 | 14.80 | 119.0 | 15.17 | 122.4 | 15.37 |
| | 25 | 138.8 | 86.9 | 13.02 | 93.9 | 15.10 | 102.3 | 17.61 | 111.3 | 19.84 | 114.4 | 20.31 | 119.0 | 20.82 | 122.4 | 21.19 |
| | | 173.5 | 86.9 | 12.76 | 93.9 | 14.85 | 102.3 | 17.33 | 111.3 | 19.51 | 114.4 | 19.99 | 119.0 | 20.49 | 122.4 | 20.87 |
| | | 347.0 | 86.9 | 11.74 | 93.9 | 13.92 | 102.3 | 16.20 | 111.3 | 18.26 | 114.4 | 18.68 | 119.0 | 19.19 | 122.4 | 19.56 |
| | | 433.8 | 86.9 | 11.41 | 93.9 | 13.59 | 102.3 | 15.88 | 111.3 | 17.88 | 114.4 | 18.36 | 119.0 | 18.81 | 122.4 | 19.09 |
| | | 520.5 | 86.9 | 11.24 | 93.9 | 13.44 | 102.3 | 15.72 | 111.3 | 17.70 | 114.4 | 18.18 | 119.0 | 18.63 | 122.4 | 18.86 |
| | 30 | 138.8 | 86.9 | 15.72 | 93.9 | 18.26 | 102.3 | 21.29 | 111.3 | 24.00 | 114.4 | 24.58 | 119.0 | 25.18 | 122.4 | 25.58 |
| | | 173.5 | 86.9 | 15.42 | 93.9 | 17.98 | 102.3 | 20.96 | 111.3 | 23.60 | 114.4 | 24.18 | 119.0 | 24.78 | 122.4 | 25.20 |
| | | 347.0 | 86.9 | 14.20 | 93.9 | 16.80 | 102.3 | 19.61 | 111.3 | 22.07 | 114.4 | 22.59 | 119.0 | 23.20 | 122.4 | 23.65 |
| | | 433.8 | 86.9 | 13.79 | 93.9 | 16.43 | 102.3 | 19.19 | 111.3 | 21.62 | 114.4 | 22.17 | 119.0 | 22.77 | 122.4 | 23.10 |
| | | 520.5 | 86.9 | 13.57 | 93.9 | 16.25 | 102.3 | 18.98 | 111.3 | 21.37 | 114.4 | 21.97 | 119.0 | 22.57 | 122.4 | 22.82 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 138.8 | 79.4 | 16.10 | 85.9 | 18.74 | 93.6 | 21.82 | 101.8 | 24.55 | 104.9 | 25.18 | 109.0 | 25.78 | 112.1 | 26.26 |
| | | 173.5 | 79.4 | 15.78 | 85.9 | 18.44 | 93.6 | 21.47 | 101.8 | 24.18 | 104.9 | 24.78 | 109.0 | 25.38 | 112.1 | 25.85 |
| | | 347.0 | 79.4 | 14.52 | 85.9 | 17.23 | 93.6 | 20.07 | 101.8 | 22.62 | 104.9 | 23.20 | 109.0 | 23.80 | 112.1 | 24.22 |
| | | 433.8 | 79.4 | 14.15 | 85.9 | 16.85 | 93.6 | 19.66 | 101.8 | 22.17 | 104.9 | 22.72 | 109.0 | 23.33 | 112.1 | 23.65 |
| | | 520.5 | 79.4 | 13.97 | 85.9 | 16.68 | 93.6 | 19.44 | 101.8 | 21.94 | 104.9 | 22.50 | 109.0 | 23.10 | 112.1 | 23.38 |
| | 40 | 138.8 | 72.0 | 17.33 | 77.9 | 20.16 | 84.9 | 23.47 | 92.3 | 26.46 | 95.1 | 27.06 | 98.8 | 27.72 | 101.6 | 28.24 |
| | | 173.5 | 72.0 | 17.00 | 77.9 | 19.84 | 84.9 | 23.10 | 92.3 | 26.03 | 95.1 | 26.64 | 98.8 | 27.29 | 101.6 | 27.81 |
| | | 347.0 | 72.0 | 15.65 | 77.9 | 18.53 | 84.9 | 21.62 | 92.3 | 24.35 | 95.1 | 24.91 | 98.8 | 25.56 | 101.6 | 26.08 |
| | | 433.8 | 72.0 | 15.22 | 77.9 | 18.16 | 84.9 | 21.19 | 92.3 | 23.85 | 95.1 | 24.45 | 98.8 | 25.10 | 101.6 | 25.48 |
| | | 520.5 | 72.0 | 15.02 | 77.9 | 17.98 | 84.9 | 20.99 | 92.3 | 23.60 | 95.1 | 24.22 | 98.8 | 24.88 | 101.6 | 25.18 |
| | 45 | 138.8 | 64.8 | 18.58 | 70.0 | 21.59 | 76.4 | 25.13 | 83.0 | 28.36 | 85.3 | 28.97 | 88.7 | 29.67 | 91.3 | 30.22 |
| | | 173.5 | 64.8 | 18.21 | 70.0 | 21.24 | 76.4 | 24.73 | 83.0 | 27.89 | 85.3 | 28.49 | 88.7 | 29.19 | 91.3 | 29.77 |
| | | 347.0 | 64.8 | 16.76 | 70.0 | 19.84 | 76.4 | 23.15 | 83.0 | 26.08 | 85.3 | 26.64 | 88.7 | 27.34 | 91.3 | 27.94 |
| | | 433.8 | 64.8 | 16.30 | 70.0 | 19.46 | 76.4 | 22.72 | 83.0 | 25.53 | 85.3 | 26.18 | 88.7 | 26.86 | 91.3 | 27.29 |
| | | 520.5 | 64.8 | 16.07 | 70.0 | 19.28 | 76.4 | 22.52 | 83.0 | 25.23 | 85.3 | 25.93 | 88.7 | 26.64 | 91.3 | 26.96 |
| 110 | 10 | 138.8 | 83.6 | 6.22 | 90.5 | 7.22 | 98.5 | 8.33 | 107.2 | 9.43 | 110.3 | 9.60 | 114.9 | 9.91 | 117.8 | 10.03 |
| | | 173.5 | 83.6 | 6.10 | 90.5 | 7.10 | 98.5 | 8.20 | 107.2 | 9.28 | 110.3 | 9.46 | 114.9 | 9.73 | 117.8 | 9.86 |
| | | 347.0 | 83.6 | 5.62 | 90.5 | 6.60 | 98.5 | 7.72 | 107.2 | 8.70 | 110.3 | 8.93 | 114.9 | 9.05 | 117.8 | 9.23 |
| | | 433.8 | 83.6 | 5.44 | 90.5 | 6.47 | 98.5 | 7.55 | 107.2 | 8.53 | 110.3 | 8.70 | 114.9 | 8.88 | 117.8 | 9.11 |
| | | 520.5 | 83.6 | 5.34 | 90.5 | 6.40 | 98.5 | 7.45 | 107.2 | 8.43 | 110.3 | 8.58 | 114.9 | 8.78 | 117.8 | 9.05 |
| | 15 | 138.8 | 83.1 | 8.32 | 90.0 | 9.66 | 98.0 | 11.21 | 106.5 | 12.64 | 109.8 | 12.92 | 114.2 | 13.24 | 117.2 | 13.49 |
| | | 173.5 | 83.1 | 8.15 | 90.0 | 9.50 | 98.0 | 11.04 | 106.5 | 12.44 | 109.8 | 12.71 | 114.2 | 13.04 | 117.2 | 13.27 |
| | | 347.0 | 83.1 | 7.50 | 90.0 | 8.85 | 98.0 | 10.33 | 106.5 | 11.64 | 109.8 | 11.91 | 114.2 | 12.19 | 117.2 | 12.44 |
| | | 433.8 | 83.1 | 7.27 | 90.0 | 8.65 | 98.0 | 10.11 | 106.5 | 11.41 | 109.8 | 11.69 | 114.2 | 11.96 | 117.2 | 12.16 |
| | | 520.5 | 83.1 | 7.15 | 90.0 | 8.58 | 98.0 | 9.98 | 106.5 | 11.29 | 109.8 | 11.56 | 114.2 | 11.86 | 117.2 | 12.01 |
| | 20 | 138.8 | 82.8 | 10.16 | 89.5 | 11.84 | 97.5 | 13.77 | 106.0 | 15.47 | 109.3 | 15.85 | 113.4 | 16.23 | 116.7 | 16.55 |
| | | 173.5 | 82.8 | 9.96 | 89.5 | 11.64 | 97.5 | 13.54 | 106.0 | 15.22 | 109.3 | 15.60 | 113.4 | 15.98 | 116.7 | 16.30 |
| | | 347.0 | 82.8 | 9.18 | 89.5 | 10.86 | 97.5 | 12.67 | 106.0 | 14.25 | 109.3 | 14.57 | 113.4 | 15.00 | 116.7 | 15.27 |
| | | 433.8 | 82.8 | 8.90 | 89.5 | 10.61 | 97.5 | 12.39 | 106.0 | 13.97 | 109.3 | 14.35 | 113.4 | 14.72 | 116.7 | 14.85 |
| | | 520.5 | 82.8 | 8.75 | 89.5 | 10.51 | 97.5 | 12.24 | 106.0 | 13.84 | 109.3 | 14.22 | 113.4 | 14.57 | 116.7 | 14.65 |
| | 25 | 138.8 | 82.8 | 12.44 | 89.5 | 14.49 | 97.5 | 16.85 | 106.0 | 18.98 | 109.3 | 19.39 | 113.4 | 19.86 | 116.7 | 20.24 |
| | | 173.5 | 82.8 | 12.19 | 89.5 | 14.25 | 97.5 | 16.58 | 106.0 | 18.68 | 109.3 | 19.09 | 113.4 | 19.56 | 116.7 | 19.94 |
| | | 347.0 | 82.8 | 11.21 | 89.5 | 13.32 | 97.5 | 15.50 | 106.0 | 17.46 | 109.3 | 17.88 | 113.4 | 18.36 | 116.7 | 18.68 |
| | | 433.8 | 82.8 | 10.89 | 89.5 | 13.04 | 97.5 | 15.17 | 106.0 | 17.08 | 109.3 | 17.56 | 113.4 | 17.98 | 116.7 | 18.21 |
| | | 520.5 | 82.8 | 10.73 | 89.5 | 12.89 | 97.5 | 15.02 | 106.0 | 16.90 | 109.3 | 17.40 | 113.4 | 17.78 | 116.7 | 17.98 |
| | 30 | 138.8 | 82.8 | 15.15 | 89.5 | 17.66 | 97.5 | 20.54 | 106.0 | 23.15 | 109.3 | 23.65 | 113.4 | 24.28 | 116.7 | 24.70 |
| | | 173.5 | 82.8 | 14.85 | 89.5 | 17.38 | 97.5 | 20.21 | 106.0 | 22.77 | 109.3 | 23.28 | 113.4 | 23.90 | 116.7 | 24.30 |
| | | 347.0 | 82.8 | 13.69 | 89.5 | 16.20 | 97.5 | 18.91 | 106.0 | 21.29 | 109.3 | 21.79 | 113.4 | 22.35 | 116.7 | 22.77 |
| | | 433.8 | 82.8 | 13.32 | 89.5 | 15.88 | 97.5 | 18.48 | 106.0 | 20.87 | 109.3 | 21.37 | 113.4 | 21.94 | 116.7 | 22.22 |
| | | 520.5 | 82.8 | 13.14 | 89.5 | 15.72 | 97.5 | 18.28 | 106.0 | 20.66 | 109.3 | 21.17 | 113.4 | 21.72 | 116.7 | 21.94 |
| | 35 | 138.8 | 76.9 | 15.78 | 83.3 | 18.31 | 90.8 | 21.34 | 98.8 | 24.05 | 101.8 | 24.60 | 105.7 | 25.23 | 108.5 | 25.70 |
| | | 173.5 | 76.9 | 15.45 | 83.3 | 18.03 | 90.8 | 20.99 | 98.8 | 23.65 | 101.8 | 24.22 | 105.7 | 24.83 | 108.5 | 25.28 |
| | | 347.0 | 76.9 | 14.20 | 83.3 | 16.85 | 90.8 | 19.66 | 98.8 | 22.12 | 101.8 | 22.67 | 105.7 | 23.25 | 108.5 | 23.65 |
| | | 433.8 | 76.9 | 13.82 | 83.3 | 16.48 | 90.8 | 19.24 | 98.8 | 21.70 | 101.8 | 22.22 | 105.7 | 22.82 | 108.5 | 23.10 |
| | | 520.5 | 76.9 | 13.64 | 83.3 | 16.30 | 90.8 | 19.03 | 98.8 | 21.49 | 101.8 | 21.97 | 105.7 | 22.62 | 108.5 | 22.82 |
| | 40 | 138.8 | 71.5 | 17.35 | 77.4 | 20.11 | 84.3 | 23.48 | 91.5 | 26.41 | 94.1 | 27.03 | 98.0 | 27.69 | 100.6 | 28.19 |
| | | 173.5 | 71.5 | 17.00 | 77.4 | 19.79 | 84.3 | 23.10 | 91.5 | 25.98 | 94.1 | 26.59 | 98.0 | 27.24 | 100.6 | 27.76 |
| | | 347.0 | 71.5 | 15.60 | 77.4 | 18.53 | 84.3 | 21.57 | 91.5 | 24.30 | 94.1 | 24.88 | 98.0 | 25.53 | 100.6 | 26.03 |
| | | 433.8 | 71.5 | 15.17 | 77.4 | 18.11 | 84.3 | 21.14 | 91.5 | 23.85 | 94.1 | 24.40 | 98.0 | 25.05 | 100.6 | 25.38 |
| | | 520.5 | 71.5 | 14.97 | 77.4 | 17.91 | 84.3 | 20.94 | 91.5 | 23.60 | 94.1 | 24.18 | 98.0 | 24.83 | 100.6 | 25.05 |
| | 45 | 138.8 | 65.8 | 18.91 | 71.2 | 21.90 | 77.7 | 25.63 | 84.3 | 28.77 | 86.7 | 29.44 | 90.3 | 30.14 | 92.6 | 30.67 |
| | | 173.5 | 65.8 | 18.53 | 71.2 | 21.57 | 77.7 | 25.20 | 84.3 | 28.31 | 86.7 | 28.97 | 90.3 | 29.67 | 92.6 | 30.22 |
| | | 347.0 | 65.8 | 17.00 | 71.2 | 20.21 | 77.7 | 23.47 | 84.3 | 26.51 | 86.7 | 27.06 | 90.3 | 27.81 | 92.6 | 28.41 |
| | | 433.8 | 65.8 | 16.53 | 71.2 | 19.74 | 77.7 | 23.05 | 84.3 | 25.98 | 86.7 | 26.59 | 90.3 | 27.29 | 92.6 | 27.66 |
| | | 520.5 | 65.8 | 16.30 | 71.2 | 19.51 | 77.7 | 22.85 | 84.3 | 25.73 | 86.7 | 26.36 | 90.3 | 27.04 | 92.6 | 27.29 |
| 100 | 10 | 138.8 | 78.7 | 5.79 | 85.1 | 6.80 | 92.6 | 7.87 | 100.8 | 8.80 | 103.9 | 9.03 | 107.8 | 9.33 | 110.8 | 9.53 |
| | | 173.5 | 78.7 | 5.69 | 85.1 | 6.67 | 92.6 | 7.75 | 100.8 | 8.68 | 103.9 | 8.91 | 107.8 | 9.18 | 110.8 | 9.36 |
| | | 347.0 | 78.7 | 5.24 | 85.1 | 6.17 | 92.6 | 7.25 | 100.8 | 8.20 | 103.9 | 8.43 | 107.8 | 8.60 | 110.8 | 8.68 |
| | | 433.8 | 78.7 | 5.16 | 85.1 | 6.04 | 92.6 | 7.12 | 100.8 | 7.97 | 103.9 | 8.20 | 107.8 | 8.43 | 110.8 | 8.55 |
| | | 520.5 | 78.7 | 5.12 | 85.1 | 5.97 | 92.6 | 7.05 | 100.8 | 7.85 | 103.9 | 8.08 | 107.8 | 8.33 | 110.8 | 8.50 |
| | 15 | 138.8 | 78.7 | 7.88 | 85.1 | 9.18 | 92.6 | 10.71 | 100.8 | 12.01 | 103.9 | 12.29 | 107.8 | 12.64 | 110.8 | 12.87 |
| | | 173.5 | 78.7 | 7.73 | 85.1 | 9.03 | 92.6 | 10.53 | 100.8 | 11.84 | 103.9 | 12.11 | 107.8 | 12.44 | 110.8 | 12.67 |
| | | 347.0 | 78.7 | 7.12 | 85.1 | 8.43 | 92.6 | 9.83 | 100.8 | 11.08 | 103.9 | 11.36 | 107.8 | 11.64 | 110.8 | 11.84 |
| | | 433.8 | 78.7 | 6.95 | 85.1 | 8.25 | 92.6 | 9.63 | 100.8 | 10.86 | 103.9 | 11.13 | 107.8 | 11.41 | 110.8 | 11.54 |
| | | 520.5 | 78.7 | 6.85 | 85.1 | 8.15 | 92.6 | 9.55 | 100.8 | 10.73 | 103.9 | 11.01 | 107.8 | 11.29 | 110.8 | 11.41 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 138.8 | 78.7 | 9.73 | 85.1 | 11.31 | 92.6 | 13.22 | 100.8 | 14.87 | 103.9 | 15.20 | 107.8 | 15.57 | 110.8 | 15.85 |
| | | 173.5 | 78.7 | 9.55 | 85.1 | 11.13 | 92.6 | 12.99 | 100.8 | 14.62 | 103.9 | 14.95 | 107.8 | 15.32 | 110.8 | 15.60 |
| | | 347.0 | 78.7 | 8.80 | 85.1 | 10.43 | 92.6 | 12.11 | 100.8 | 13.64 | 103.9 | 13.97 | 107.8 | 14.35 | 110.8 | 14.62 |
| | | 433.8 | 78.7 | 8.53 | 85.1 | 10.21 | 92.6 | 11.87 | 100.8 | 13.42 | 103.9 | 13.74 | 107.8 | 14.07 | 110.8 | 14.20 |
| | | 520.5 | 78.7 | 8.38 | 85.1 | 10.08 | 92.6 | 11.76 | 100.8 | 13.29 | 103.9 | 13.62 | 107.8 | 13.92 | 110.8 | 13.99 |
| | 25 | 138.8 | 78.7 | 11.89 | 85.1 | 13.82 | 92.6 | 16.10 | 100.8 | 18.13 | 103.9 | 18.56 | 107.8 | 18.96 | 110.8 | 19.36 |
| | | 173.5 | 78.7 | 11.64 | 85.1 | 13.59 | 92.6 | 15.83 | 100.8 | 17.83 | 103.9 | 18.26 | 107.8 | 18.68 | 110.8 | 19.04 |
| | | 347.0 | 78.7 | 10.71 | 85.1 | 12.71 | 92.6 | 14.80 | 100.8 | 16.68 | 103.9 | 17.05 | 107.8 | 17.51 | 110.8 | 17.78 |
| | | 433.8 | 78.7 | 10.43 | 85.1 | 12.44 | 92.6 | 14.47 | 100.8 | 16.35 | 103.9 | 16.73 | 107.8 | 17.18 | 110.8 | 17.33 |
| | | 520.5 | 78.7 | 10.28 | 85.1 | 12.29 | 92.6 | 14.32 | 100.8 | 16.18 | 103.9 | 16.55 | 107.8 | 17.03 | 110.8 | 17.08 |
| | 30 | 138.8 | 78.7 | 14.64 | 85.1 | 17.00 | 92.6 | 19.79 | 100.8 | 22.30 | 103.9 | 22.82 | 107.8 | 23.38 | 110.8 | 23.80 |
| | | 173.5 | 78.7 | 14.35 | 85.1 | 16.73 | 92.6 | 19.46 | 100.8 | 21.94 | 103.9 | 22.45 | 107.8 | 23.00 | 110.8 | 23.42 |
| | | 347.0 | 78.7 | 13.17 | 85.1 | 15.60 | 92.6 | 18.21 | 100.8 | 20.49 | 103.9 | 20.96 | 107.8 | 21.52 | 110.8 | 21.89 |
| | | 433.8 | 78.7 | 12.81 | 85.1 | 15.27 | 92.6 | 17.83 | 100.8 | 20.07 | 103.9 | 20.59 | 107.8 | 21.09 | 110.8 | 21.32 |
| | | 520.5 | 78.7 | 12.62 | 85.1 | 15.12 | 92.6 | 17.65 | 100.8 | 19.86 | 103.9 | 20.39 | 107.8 | 20.89 | 110.8 | 21.04 |
| | 35 | 138.8 | 74.8 | 15.45 | 81.0 | 17.93 | 88.0 | 20.87 | 95.7 | 23.53 | 98.7 | 24.10 | 102.6 | 24.65 | 105.2 | 25.08 |
| | | 173.5 | 74.8 | 15.13 | 81.0 | 17.65 | 88.0 | 20.54 | 95.7 | 23.15 | 98.7 | 23.70 | 102.6 | 24.25 | 105.2 | 24.68 |
| | | 347.0 | 74.8 | 13.92 | 81.0 | 16.48 | 88.0 | 19.19 | 95.7 | 21.62 | 98.7 | 22.17 | 102.6 | 22.72 | 105.2 | 23.10 |
| | | 433.8 | 74.8 | 13.50 | 81.0 | 16.15 | 88.0 | 18.81 | 95.7 | 21.19 | 98.7 | 21.74 | 102.6 | 22.30 | 105.2 | 22.50 |
| | | 520.5 | 74.8 | 13.29 | 81.0 | 16.00 | 88.0 | 18.63 | 95.7 | 20.99 | 98.7 | 21.54 | 102.6 | 22.10 | 105.2 | 22.19 |
| | 40 | 138.8 | 70.7 | 17.28 | 76.6 | 20.12 | 83.3 | 23.42 | 90.8 | 26.36 | 93.4 | 27.04 | 97.0 | 27.69 | 99.8 | 28.16 |
| | | 173.5 | 70.7 | 16.95 | 76.6 | 19.79 | 83.3 | 23.05 | 90.8 | 25.93 | 93.4 | 26.59 | 97.0 | 27.24 | 99.8 | 27.71 |
| | | 347.0 | 70.7 | 15.60 | 76.6 | 18.48 | 83.3 | 21.57 | 90.8 | 24.25 | 93.4 | 24.83 | 97.0 | 25.48 | 99.8 | 25.93 |
| | | 433.8 | 70.7 | 15.17 | 76.6 | 18.11 | 83.3 | 21.09 | 90.8 | 23.80 | 93.4 | 24.40 | 97.0 | 25.00 | 99.8 | 25.23 |
| | | 520.5 | 70.7 | 14.97 | 76.6 | 17.93 | 83.3 | 20.87 | 90.8 | 23.57 | 93.4 | 24.20 | 97.0 | 24.78 | 99.8 | 24.90 |
| | 45 | 138.8 | 66.6 | 19.14 | 72.3 | 22.30 | 78.9 | 25.98 | 85.6 | 29.19 | 88.0 | 29.99 | 91.5 | 30.72 | 94.4 | 31.23 |
| | | 173.5 | 66.6 | 18.76 | 72.3 | 21.94 | 78.9 | 25.56 | 85.6 | 28.74 | 88.0 | 29.47 | 91.5 | 30.22 | 94.4 | 30.75 |
| | | 347.0 | 66.6 | 17.28 | 72.3 | 20.49 | 78.9 | 23.93 | 85.6 | 26.91 | 88.0 | 27.48 | 91.5 | 28.22 | 94.4 | 28.79 |
| | | 433.8 | 66.6 | 16.85 | 72.3 | 20.07 | 78.9 | 23.37 | 85.6 | 26.41 | 88.0 | 27.06 | 91.5 | 27.71 | 94.4 | 27.99 |
| | | 520.5 | 66.6 | 16.65 | 72.3 | 19.86 | 78.9 | 23.10 | 85.6 | 26.16 | 88.0 | 26.84 | 91.5 | 27.46 | 94.4 | 27.59 |
| 90 | 10 | 138.8 | 70.7 | 5.02 | 76.6 | 5.82 | 83.3 | 6.72 | 90.8 | 7.65 | 93.4 | 7.83 | 97.0 | 8.07 | 99.8 | 8.20 |
| | | 173.5 | 70.7 | 4.94 | 76.6 | 5.74 | 83.3 | 6.62 | 90.8 | 7.52 | 93.4 | 7.70 | 97.0 | 7.93 | 99.8 | 8.07 |
| | | 347.0 | 70.7 | 4.57 | 76.6 | 5.37 | 83.3 | 6.27 | 90.8 | 7.07 | 93.4 | 7.22 | 97.0 | 7.40 | 99.8 | 7.52 |
| | | 433.8 | 70.7 | 4.39 | 76.6 | 5.29 | 83.3 | 6.09 | 90.8 | 6.90 | 93.4 | 7.07 | 97.0 | 7.25 | 99.8 | 7.30 |
| | | 520.5 | 70.7 | 4.29 | 76.6 | 5.24 | 83.3 | 5.99 | 90.8 | 6.80 | 93.4 | 7.02 | 97.0 | 7.20 | 99.8 | 7.20 |
| | 15 | 138.8 | 70.7 | 6.79 | 76.6 | 7.90 | 83.3 | 9.18 | 90.8 | 10.36 | 93.4 | 10.59 | 97.0 | 10.89 | 99.8 | 11.08 |
| | | 173.5 | 70.7 | 6.67 | 76.6 | 7.78 | 83.3 | 9.03 | 90.8 | 10.21 | 93.4 | 10.43 | 97.0 | 10.71 | 99.8 | 10.89 |
| | | 347.0 | 70.7 | 6.15 | 76.6 | 7.27 | 83.3 | 8.48 | 90.8 | 9.55 | 93.4 | 9.78 | 97.0 | 10.01 | 99.8 | 10.21 |
| | | 433.8 | 70.7 | 5.97 | 76.6 | 7.12 | 83.3 | 8.30 | 90.8 | 9.36 | 93.4 | 9.60 | 97.0 | 9.83 | 99.8 | 9.93 |
| | | 520.5 | 70.7 | 5.87 | 76.6 | 7.05 | 83.3 | 8.20 | 90.8 | 9.28 | 93.4 | 9.50 | 97.0 | 9.73 | 99.8 | 9.78 |
| | 20 | 138.8 | 70.7 | 8.35 | 76.6 | 9.76 | 83.3 | 11.36 | 90.8 | 12.79 | 93.4 | 13.04 | 97.0 | 13.39 | 99.8 | 13.62 |
| | | 173.5 | 70.7 | 8.20 | 76.6 | 9.60 | 83.3 | 11.18 | 90.8 | 12.57 | 93.4 | 12.84 | 97.0 | 13.17 | 99.8 | 13.42 |
| | | 347.0 | 70.7 | 7.55 | 76.6 | 8.95 | 83.3 | 10.43 | 90.8 | 11.74 | 93.4 | 12.06 | 97.0 | 12.34 | 99.8 | 12.57 |
| | | 433.8 | 70.7 | 7.35 | 76.6 | 8.75 | 83.3 | 10.26 | 90.8 | 11.54 | 93.4 | 11.84 | 97.0 | 12.11 | 99.8 | 12.24 |
| | | 520.5 | 70.7 | 7.27 | 76.6 | 8.65 | 83.3 | 10.16 | 90.8 | 11.46 | 93.4 | 11.71 | 97.0 | 11.99 | 99.8 | 12.09 |
| | 25 | 138.8 | 70.7 | 10.21 | 76.6 | 11.89 | 83.3 | 13.82 | 90.8 | 15.57 | 93.4 | 15.95 | 97.0 | 16.33 | 99.8 | 16.65 |
| | | 173.5 | 70.7 | 10.01 | 76.6 | 11.69 | 83.3 | 13.59 | 90.8 | 15.32 | 93.4 | 15.70 | 97.0 | 16.07 | 99.8 | 16.40 |
| | | 347.0 | 70.7 | 9.23 | 76.6 | 10.94 | 83.3 | 12.71 | 90.8 | 14.35 | 93.4 | 14.67 | 97.0 | 15.05 | 99.8 | 15.32 |
| | | 433.8 | 70.7 | 8.95 | 76.6 | 10.71 | 83.3 | 12.49 | 90.8 | 14.07 | 93.4 | 14.39 | 97.0 | 14.77 | 99.8 | 14.95 |
| | | 520.5 | 70.7 | 8.80 | 76.6 | 10.59 | 83.3 | 12.36 | 90.8 | 13.92 | 93.4 | 14.25 | 97.0 | 14.62 | 99.8 | 14.77 |
| | 30 | 138.8 | 70.7 | 12.59 | 76.6 | 14.62 | 83.3 | 17.05 | 90.8 | 19.16 | 93.4 | 19.64 | 97.0 | 20.11 | 99.8 | 20.49 |
| | | 173.5 | 70.7 | 12.34 | 76.6 | 14.39 | 83.3 | 16.76 | 90.8 | 18.86 | 93.4 | 19.33 | 97.0 | 19.79 | 99.8 | 20.16 |
| | | 347.0 | 70.7 | 11.31 | 76.6 | 13.47 | 83.3 | 15.65 | 90.8 | 17.65 | 93.4 | 18.06 | 97.0 | 18.53 | 99.8 | 18.86 |
| | | 433.8 | 70.7 | 11.04 | 76.6 | 13.17 | 83.3 | 15.32 | 90.8 | 17.28 | 93.4 | 17.73 | 97.0 | 18.16 | 99.8 | 18.36 |
| | | 520.5 | 70.7 | 10.91 | 76.6 | 13.04 | 83.3 | 15.15 | 90.8 | 17.08 | 93.4 | 17.58 | 97.0 | 17.98 | 99.8 | 18.08 |
| | 35 | 138.8 | 68.7 | 13.59 | 74.6 | 15.75 | 81.2 | 18.36 | 88.2 | 20.69 | 90.8 | 21.17 | 94.4 | 21.67 | 97.0 | 22.10 |
| | | 173.5 | 68.7 | 13.32 | 74.6 | 15.50 | 81.2 | 18.06 | 88.2 | 20.34 | 90.8 | 20.82 | 94.4 | 21.32 | 97.0 | 21.74 |
| | | 347.0 | 68.7 | 12.24 | 74.6 | 14.52 | 81.2 | 16.90 | 88.2 | 19.04 | 90.8 | 19.46 | 94.4 | 19.99 | 97.0 | 20.34 |
| | | 433.8 | 68.7 | 11.87 | 74.6 | 14.20 | 81.2 | 16.53 | 88.2 | 18.68 | 90.8 | 19.14 | 94.4 | 19.61 | 97.0 | 19.79 |
| | | 520.5 | 68.7 | 11.69 | 74.6 | 14.04 | 81.2 | 16.35 | 88.2 | 18.48 | 90.8 | 18.98 | 94.4 | 19.41 | 97.0 | 19.51 |
| | 40 | 138.8 | 66.8 | 15.58 | 72.3 | 18.13 | 78.9 | 21.12 | 85.6 | 23.77 | 88.2 | 24.33 | 91.8 | 24.93 | 94.1 | 25.36 |
| | | 173.5 | 66.8 | 15.27 | 72.3 | 17.83 | 78.9 | 20.77 | 85.6 | 23.37 | 88.2 | 23.93 | 91.8 | 24.55 | 94.1 | 24.96 |
| | | 347.0 | 66.8 | 14.07 | 72.3 | 16.68 | 78.9 | 19.41 | 85.6 | 21.84 | 88.2 | 22.40 | 91.8 | 22.95 | 94.1 | 23.37 |
| | | 433.8 | 66.8 | 13.64 | 72.3 | 16.30 | 78.9 | 19.01 | 85.6 | 21.42 | 88.2 | 21.97 | 91.8 | 22.55 | 94.1 | 22.77 |
| | | 520.5 | 66.8 | 13.44 | 72.3 | 16.10 | 78.9 | 18.79 | 85.6 | 21.22 | 88.2 | 21.77 | 91.8 | 22.32 | 94.1 | 22.47 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 138.8 | 64.8 | 17.58 | 70.2 | 20.51 | 76.4 | 23.85 | 83.1 | 26.86 | 85.6 | 27.49 | 89.0 | 28.21 | 91.5 | 28.62 |
| | | 173.5 | 64.8 | 17.23 | 70.2 | 20.16 | 76.4 | 23.47 | 83.1 | 26.41 | 85.6 | 27.06 | 89.0 | 27.76 | 91.5 | 28.17 |
| | | 347.0 | 64.8 | 15.88 | 70.2 | 18.81 | 76.4 | 21.94 | 83.1 | 24.63 | 85.6 | 25.33 | 89.0 | 25.93 | 91.5 | 26.41 |
| | | 433.8 | 64.8 | 15.42 | 70.2 | 18.39 | 76.4 | 21.47 | 83.1 | 24.18 | 85.6 | 24.83 | 89.0 | 25.48 | 91.5 | 25.76 |
| | | 520.5 | 64.8 | 15.17 | 70.2 | 18.18 | 76.4 | 21.24 | 83.1 | 23.93 | 85.6 | 24.58 | 89.0 | 25.23 | 91.5 | 25.43 |
| 80 | 10 | 138.8 | 62.8 | 4.21 | 68.2 | 4.86 | 74.3 | 5.70 | 80.7 | 6.47 | 83.0 | 6.55 | 86.2 | 6.80 | 88.7 | 6.82 |
| | | 173.5 | 62.8 | 4.11 | 68.2 | 4.79 | 74.3 | 5.59 | 80.7 | 6.37 | 83.0 | 6.45 | 86.2 | 6.67 | 88.7 | 6.72 |
| | | 347.0 | 62.8 | 3.76 | 68.2 | 4.54 | 74.3 | 5.19 | 80.7 | 5.92 | 83.0 | 6.04 | 86.2 | 6.17 | 88.7 | 6.27 |
| | | 433.8 | 62.8 | 3.66 | 68.2 | 4.39 | 74.3 | 5.11 | 80.7 | 5.72 | 83.0 | 5.87 | 86.2 | 6.09 | 88.7 | 6.19 |
| | | 520.5 | 62.8 | 3.64 | 68.2 | 4.31 | 74.3 | 5.07 | 80.7 | 5.64 | 83.0 | 5.77 | 86.2 | 6.05 | 88.7 | 6.15 |
| | 15 | 138.8 | 62.8 | 5.72 | 68.2 | 6.62 | 74.3 | 7.72 | 80.7 | 8.70 | 83.0 | 8.90 | 86.2 | 9.13 | 88.7 | 9.28 |
| | | 173.5 | 62.8 | 5.59 | 68.2 | 6.52 | 74.3 | 7.60 | 80.7 | 8.58 | 83.0 | 8.75 | 86.2 | 8.98 | 88.7 | 9.13 |
| | | 347.0 | 62.8 | 5.12 | 68.2 | 6.10 | 74.3 | 7.07 | 80.7 | 8.00 | 83.0 | 8.20 | 86.2 | 8.38 | 88.7 | 8.53 |
| | | 433.8 | 62.8 | 4.99 | 68.2 | 5.97 | 74.3 | 6.95 | 80.7 | 7.82 | 83.0 | 8.00 | 86.2 | 8.25 | 88.7 | 8.33 |
| | | 520.5 | 62.8 | 4.92 | 68.2 | 5.89 | 74.3 | 6.87 | 80.7 | 7.73 | 83.0 | 7.92 | 86.2 | 8.18 | 88.7 | 8.25 |
| | 20 | 138.8 | 62.8 | 7.02 | 68.2 | 8.20 | 74.3 | 9.51 | 80.7 | 10.68 | 83.0 | 10.98 | 86.2 | 11.21 | 88.7 | 11.46 |
| | | 173.5 | 62.8 | 6.90 | 68.2 | 8.05 | 74.3 | 9.36 | 80.7 | 10.53 | 83.0 | 10.81 | 86.2 | 11.04 | 88.7 | 11.26 |
| | | 347.0 | 62.8 | 6.34 | 68.2 | 7.50 | 74.3 | 8.75 | 80.7 | 9.88 | 83.0 | 10.11 | 86.2 | 10.33 | 88.7 | 10.53 |
| | | 433.8 | 62.8 | 6.15 | 68.2 | 7.35 | 74.3 | 8.58 | 80.7 | 9.68 | 83.0 | 9.93 | 86.2 | 10.16 | 88.7 | 10.26 |
| | | 520.5 | 62.8 | 6.05 | 68.2 | 7.30 | 74.3 | 8.48 | 80.7 | 9.60 | 83.0 | 9.83 | 86.2 | 10.06 | 88.7 | 10.11 |
| | 25 | 138.8 | 62.8 | 8.55 | 68.2 | 9.93 | 74.3 | 11.59 | 80.7 | 13.07 | 83.0 | 13.39 | 86.2 | 13.72 | 88.7 | 13.97 |
| | | 173.5 | 62.8 | 8.38 | 68.2 | 9.78 | 74.3 | 11.41 | 80.7 | 12.84 | 83.0 | 13.17 | 86.2 | 13.50 | 88.7 | 13.74 |
| | | 347.0 | 62.8 | 7.73 | 68.2 | 9.18 | 74.3 | 10.66 | 80.7 | 12.01 | 83.0 | 12.29 | 86.2 | 12.62 | 88.7 | 12.84 |
| | | 433.8 | 62.8 | 7.50 | 68.2 | 8.98 | 74.3 | 10.48 | 80.7 | 11.79 | 83.0 | 12.06 | 86.2 | 12.39 | 88.7 | 12.52 |
| | | 520.5 | 62.8 | 7.38 | 68.2 | 8.90 | 74.3 | 10.38 | 80.7 | 11.66 | 83.0 | 11.94 | 86.2 | 12.27 | 88.7 | 12.36 |
| | 30 | 138.8 | 62.8 | 10.56 | 68.2 | 12.26 | 74.3 | 14.30 | 80.7 | 16.10 | 83.0 | 16.48 | 86.2 | 16.85 | 88.7 | 17.18 |
| | | 173.5 | 62.8 | 10.33 | 68.2 | 12.06 | 74.3 | 14.07 | 80.7 | 15.83 | 83.0 | 16.20 | 86.2 | 16.58 | 88.7 | 16.90 |
| | | 347.0 | 62.8 | 9.50 | 68.2 | 11.26 | 74.3 | 13.14 | 80.7 | 14.77 | 83.0 | 15.13 | 86.2 | 15.50 | 88.7 | 15.78 |
| | | 433.8 | 62.8 | 9.23 | 68.2 | 11.04 | 74.3 | 12.84 | 80.7 | 14.47 | 83.0 | 14.85 | 86.2 | 15.22 | 88.7 | 15.37 |
| | | 520.5 | 62.8 | 9.08 | 68.2 | 10.91 | 74.3 | 12.72 | 80.7 | 14.35 | 83.0 | 14.72 | 86.2 | 15.10 | 88.7 | 15.15 |
| | 35 | 138.8 | 62.8 | 11.74 | 68.2 | 13.64 | 74.3 | 15.85 | 80.7 | 17.83 | 83.0 | 18.26 | 86.2 | 18.74 | 88.7 | 19.06 |
| | | 173.5 | 62.8 | 11.51 | 68.2 | 13.42 | 74.3 | 15.60 | 80.7 | 17.56 | 83.0 | 17.98 | 86.2 | 18.44 | 88.7 | 18.76 |
| | | 347.0 | 62.8 | 10.56 | 68.2 | 12.52 | 74.3 | 14.57 | 80.7 | 16.43 | 83.0 | 16.80 | 86.2 | 17.23 | 88.7 | 17.56 |
| | | 433.8 | 62.8 | 10.28 | 68.2 | 12.24 | 74.3 | 14.30 | 80.7 | 16.10 | 83.0 | 16.48 | 86.2 | 16.95 | 88.7 | 17.08 |
| | | 520.5 | 62.8 | 10.16 | 68.2 | 12.11 | 74.3 | 14.15 | 80.7 | 15.95 | 83.0 | 16.33 | 86.2 | 16.81 | 88.7 | 16.85 |
| | 40 | 138.8 | 62.8 | 13.87 | 68.2 | 16.15 | 74.3 | 18.79 | 80.7 | 21.17 | 83.0 | 21.62 | 86.2 | 22.19 | 88.7 | 22.57 |
| | | 173.5 | 62.8 | 13.59 | 68.2 | 15.88 | 74.3 | 18.48 | 80.7 | 20.82 | 83.0 | 21.29 | 86.2 | 21.84 | 88.7 | 22.22 |
| | | 347.0 | 62.8 | 12.52 | 68.2 | 14.80 | 74.3 | 17.28 | 80.7 | 19.46 | 83.0 | 19.94 | 86.2 | 20.44 | 88.7 | 20.82 |
| | | 433.8 | 62.8 | 12.16 | 68.2 | 14.52 | 74.3 | 16.90 | 80.7 | 19.09 | 83.0 | 19.56 | 86.2 | 20.02 | 88.7 | 20.26 |
| | | 520.5 | 62.8 | 11.96 | 68.2 | 14.39 | 74.3 | 16.73 | 80.7 | 18.91 | 83.0 | 19.36 | 86.2 | 19.81 | 88.7 | 19.99 |
| | 45 | 138.8 | 62.8 | 16.00 | 68.2 | 18.66 | 74.3 | 21.72 | 80.7 | 24.48 | 83.0 | 24.98 | 86.2 | 25.63 | 88.7 | 26.06 |
| | | 173.5 | 62.8 | 15.70 | 68.2 | 18.36 | 74.3 | 21.37 | 80.7 | 24.08 | 83.0 | 24.58 | 86.2 | 25.23 | 88.7 | 25.66 |
| | | 347.0 | 62.8 | 14.47 | 68.2 | 17.08 | 74.3 | 19.99 | 80.7 | 22.50 | 83.0 | 23.05 | 86.2 | 23.65 | 88.7 | 24.08 |
| | | 433.8 | 62.8 | 14.02 | 68.2 | 16.80 | 74.3 | 19.51 | 80.7 | 22.07 | 83.0 | 22.62 | 86.2 | 23.10 | 88.7 | 23.42 |
| | | 520.5 | 62.8 | 13.79 | 68.2 | 16.68 | 74.3 | 19.28 | 80.7 | 21.87 | 83.0 | 22.42 | 86.2 | 22.82 | 88.7 | 23.10 |
| 70 | 10 | 138.8 | 55.0 | 3.51 | 59.7 | 4.04 | 65.0 | 4.79 | 70.5 | 5.39 | 72.7 | 5.39 | 75.4 | 5.59 | 77.6 | 5.67 |
| | | 173.5 | 55.0 | 3.46 | 59.7 | 3.99 | 65.0 | 4.71 | 70.5 | 5.29 | 72.7 | 5.32 | 75.4 | 5.52 | 77.6 | 5.59 |
| | | 347.0 | 55.0 | 3.18 | 59.7 | 3.76 | 65.0 | 4.39 | 70.5 | 4.94 | 72.7 | 5.02 | 75.4 | 5.14 | 77.6 | 5.29 |
| | | 433.8 | 55.0 | 3.04 | 59.7 | 3.63 | 65.0 | 4.26 | 70.5 | 4.79 | 72.7 | 4.89 | 75.4 | 5.07 | 77.6 | 5.16 |
| | | 520.5 | 55.0 | 2.98 | 59.7 | 3.56 | 65.0 | 4.19 | 70.5 | 4.72 | 72.7 | 4.81 | 75.4 | 5.02 | 77.6 | 5.09 |
| | 15 | 138.8 | 55.0 | 4.74 | 59.7 | 5.49 | 65.0 | 6.44 | 70.5 | 7.25 | 72.7 | 7.38 | 75.4 | 7.57 | 77.6 | 7.70 |
| | | 173.5 | 55.0 | 4.66 | 59.7 | 5.39 | 65.0 | 6.34 | 70.5 | 7.12 | 72.7 | 7.27 | 75.4 | 7.45 | 77.6 | 7.60 |
| | | 347.0 | 55.0 | 4.29 | 59.7 | 5.07 | 65.0 | 5.92 | 70.5 | 6.67 | 72.7 | 6.80 | 75.4 | 6.99 | 77.6 | 7.12 |
| | | 433.8 | 55.0 | 4.14 | 59.7 | 4.94 | 65.0 | 5.77 | 70.5 | 6.52 | 72.7 | 6.67 | 75.4 | 6.85 | 77.6 | 6.95 |
| | | 520.5 | 55.0 | 4.07 | 59.7 | 4.87 | 65.0 | 5.70 | 70.5 | 6.45 | 72.7 | 6.59 | 75.4 | 6.77 | 77.6 | 6.85 |
| | 20 | 138.8 | 55.0 | 5.84 | 59.7 | 6.77 | 65.0 | 7.90 | 70.5 | 8.90 | 72.7 | 9.13 | 75.4 | 9.31 | 77.6 | 9.51 |
| | | 173.5 | 55.0 | 5.72 | 59.7 | 6.67 | 65.0 | 7.78 | 70.5 | 8.75 | 72.7 | 8.98 | 75.4 | 9.18 | 77.6 | 9.36 |
| | | 347.0 | 55.0 | 5.27 | 59.7 | 6.24 | 65.0 | 7.27 | 70.5 | 8.20 | 72.7 | 8.38 | 75.4 | 8.62 | 77.6 | 8.75 |
| | | 433.8 | 55.0 | 5.12 | 59.7 | 6.10 | 65.0 | 7.12 | 70.5 | 8.05 | 72.7 | 8.25 | 75.4 | 8.43 | 77.6 | 8.53 |
| | | 520.5 | 55.0 | 5.04 | 59.7 | 6.02 | 65.0 | 7.05 | 70.5 | 7.98 | 72.7 | 8.18 | 75.4 | 8.33 | 77.6 | 8.40 |
| | 25 | 138.8 | 55.0 | 7.12 | 59.7 | 8.28 | 65.0 | 9.66 | 70.5 | 10.89 | 72.7 | 11.11 | 75.4 | 11.41 | 77.6 | 11.59 |
| | | 173.5 | 55.0 | 6.99 | 59.7 | 8.15 | 65.0 | 9.50 | 70.5 | 10.71 | 72.7 | 10.94 | 75.4 | 11.21 | 77.6 | 11.41 |
| | | 347.0 | 55.0 | 6.42 | 59.7 | 7.65 | 65.0 | 8.90 | 70.5 | 10.01 | 72.7 | 10.26 | 75.4 | 10.48 | 77.6 | 10.66 |
| | | 433.8 | 55.0 | 6.24 | 59.7 | 7.45 | 65.0 | 8.70 | 70.5 | 9.78 | 72.7 | 10.06 | 75.4 | 10.28 | 77.6 | 10.38 |
| | | 520.5 | 55.0 | 6.15 | 59.7 | 7.35 | 65.0 | 8.62 | 70.5 | 9.66 | 72.7 | 9.96 | 75.4 | 10.21 | 77.6 | 10.26 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 138.8 | 55.0 | 8.80 | 59.7 | 10.18 | 65.0 | 11.89 | 70.5 | 13.34 | 72.7 | 13.69 | 75.4 | 14.02 | 77.6 | 14.24 |
| | | 173.5 | 55.0 | 8.62 | 59.7 | 10.01 | 65.0 | 11.69 | 70.5 | 13.14 | 72.7 | 13.47 | 75.4 | 13.79 | 77.6 | 14.02 |
| | | 347.0 | 55.0 | 7.92 | 59.7 | 9.36 | 65.0 | 10.89 | 70.5 | 12.29 | 72.7 | 12.57 | 75.4 | 12.89 | 77.6 | 13.14 |
| | | 433.8 | 55.0 | 7.68 | 59.7 | 9.18 | 65.0 | 10.71 | 70.5 | 12.06 | 72.7 | 12.34 | 75.4 | 12.67 | 77.6 | 12.81 |
| | | 520.5 | 55.0 | 7.57 | 59.7 | 9.08 | 65.0 | 10.61 | 70.5 | 11.94 | 72.7 | 12.22 | 75.4 | 12.54 | 77.6 | 12.64 |
| | 35 | 138.8 | 55.0 | 9.73 | 59.7 | 11.31 | 65.0 | 13.22 | 70.5 | 14.87 | 72.7 | 15.20 | 75.4 | 15.57 | 77.6 | 15.85 |
| | | 173.5 | 55.0 | 9.55 | 59.7 | 11.13 | 65.0 | 12.99 | 70.5 | 14.62 | 72.7 | 14.95 | 75.4 | 15.32 | 77.6 | 15.60 |
| | | 347.0 | 55.0 | 8.80 | 59.7 | 10.43 | 65.0 | 12.11 | 70.5 | 13.64 | 72.7 | 13.97 | 75.4 | 14.35 | 77.6 | 14.62 |
| | | 433.8 | 55.0 | 8.53 | 59.7 | 10.21 | 65.0 | 11.87 | 70.5 | 13.42 | 72.7 | 13.74 | 75.4 | 14.07 | 77.6 | 14.20 |
| | | 520.5 | 55.0 | 8.38 | 59.7 | 10.08 | 65.0 | 11.76 | 70.5 | 13.29 | 72.7 | 13.62 | 75.4 | 13.92 | 77.6 | 13.99 |
| | 40 | 138.8 | 55.0 | 11.56 | 59.7 | 13.39 | 65.0 | 15.62 | 70.5 | 17.56 | 72.7 | 17.98 | 75.4 | 18.46 | 77.6 | 18.79 |
| | | 173.5 | 55.0 | 11.31 | 59.7 | 13.17 | 65.0 | 15.37 | 70.5 | 17.28 | 72.7 | 17.70 | 75.4 | 18.16 | 77.6 | 18.48 |
| | | 347.0 | 55.0 | 10.38 | 59.7 | 12.34 | 65.0 | 14.35 | 70.5 | 16.15 | 72.7 | 16.58 | 75.4 | 17.00 | 77.6 | 17.28 |
| | | 433.8 | 55.0 | 10.11 | 59.7 | 12.06 | 65.0 | 14.07 | 70.5 | 15.88 | 72.7 | 16.25 | 75.4 | 16.68 | 77.6 | 16.85 |
| | | 520.5 | 55.0 | 9.96 | 59.7 | 11.91 | 65.0 | 13.92 | 70.5 | 15.75 | 72.7 | 16.10 | 75.4 | 16.50 | 77.6 | 16.65 |
| | 45 | 138.8 | 55.0 | 13.37 | 59.7 | 15.47 | 65.0 | 18.03 | 70.5 | 20.24 | 72.7 | 20.76 | 75.4 | 21.34 | 77.6 | 21.74 |
| | | 173.5 | 55.0 | 13.09 | 59.7 | 15.22 | 65.0 | 17.73 | 70.5 | 19.94 | 72.7 | 20.44 | 75.4 | 20.99 | 77.6 | 21.37 |
| | | 347.0 | 55.0 | 11.96 | 59.7 | 14.25 | 65.0 | 16.58 | 70.5 | 18.68 | 72.7 | 19.19 | 75.4 | 19.66 | 77.6 | 19.94 |
| | | 433.8 | 55.0 | 11.69 | 59.7 | 13.92 | 65.0 | 16.25 | 70.5 | 18.36 | 72.7 | 18.76 | 75.4 | 19.28 | 77.6 | 19.51 |
| | | 520.5 | 55.0 | 11.56 | 59.7 | 13.77 | 65.0 | 16.10 | 70.5 | 18.18 | 72.7 | 18.56 | 75.4 | 19.09 | 77.6 | 19.31 |
| 60 | 10 | 138.8 | 47.1 | 2.86 | 51.2 | 3.29 | 55.6 | 3.79 | 60.4 | 4.29 | 62.2 | 4.39 | 64.8 | 4.54 | 66.6 | 4.54 |
| | | 173.5 | 47.1 | 2.78 | 51.2 | 3.23 | 55.6 | 3.71 | 60.4 | 4.21 | 62.2 | 4.31 | 64.8 | 4.44 | 66.6 | 4.49 |
| | | 347.0 | 47.1 | 2.51 | 51.2 | 3.01 | 55.6 | 3.44 | 60.4 | 3.94 | 62.2 | 3.94 | 64.8 | 4.07 | 66.6 | 4.21 |
| | | 433.8 | 47.1 | 2.41 | 51.2 | 2.91 | 55.6 | 3.41 | 60.4 | 3.86 | 62.2 | 3.89 | 64.8 | 3.99 | 66.6 | 4.04 |
| | | 520.5 | 47.1 | 2.36 | 51.2 | 2.86 | 55.6 | 3.39 | 60.4 | 3.81 | 62.2 | 3.86 | 64.8 | 3.94 | 66.6 | 3.94 |
| | 15 | 138.8 | 47.1 | 3.81 | 51.2 | 4.39 | 55.6 | 5.12 | 60.4 | 5.77 | 62.2 | 5.92 | 64.8 | 6.07 | 66.6 | 6.15 |
| | | 173.5 | 47.1 | 3.73 | 51.2 | 4.34 | 55.6 | 5.04 | 60.4 | 5.69 | 62.2 | 5.82 | 64.8 | 5.97 | 66.6 | 6.05 |
| | | 347.0 | 47.1 | 3.41 | 51.2 | 4.06 | 55.6 | 4.71 | 60.4 | 5.32 | 62.2 | 5.39 | 64.8 | 5.54 | 66.6 | 5.69 |
| | | 433.8 | 47.1 | 3.31 | 51.2 | 3.96 | 55.6 | 4.61 | 60.4 | 5.22 | 62.2 | 5.32 | 64.8 | 5.44 | 66.6 | 5.49 |
| | | 520.5 | 47.1 | 3.26 | 51.2 | 3.91 | 55.6 | 4.56 | 60.4 | 5.17 | 62.2 | 5.27 | 64.8 | 5.39 | 66.6 | 5.39 |
| | 20 | 138.8 | 47.1 | 4.66 | 51.2 | 5.39 | 55.6 | 6.29 | 60.4 | 7.10 | 62.2 | 7.30 | 64.8 | 7.42 | 66.6 | 7.57 |
| | | 173.5 | 47.1 | 4.56 | 51.2 | 5.32 | 55.6 | 6.19 | 60.4 | 6.99 | 62.2 | 7.17 | 64.8 | 7.32 | 66.6 | 7.45 |
| | | 347.0 | 47.1 | 4.19 | 51.2 | 4.99 | 55.6 | 5.82 | 60.4 | 6.52 | 62.2 | 6.70 | 64.8 | 6.85 | 66.6 | 6.99 |
| | | 433.8 | 47.1 | 4.09 | 51.2 | 4.89 | 55.6 | 5.69 | 60.4 | 6.42 | 62.2 | 6.57 | 64.8 | 6.75 | 66.6 | 6.80 |
| | | 520.5 | 47.1 | 4.06 | 51.2 | 4.84 | 55.6 | 5.62 | 60.4 | 6.37 | 62.2 | 6.50 | 64.8 | 6.70 | 66.6 | 6.70 |
| | 25 | 138.8 | 47.1 | 5.72 | 51.2 | 6.57 | 55.6 | 7.65 | 60.4 | 8.65 | 62.2 | 8.85 | 64.8 | 9.08 | 66.6 | 9.23 |
| | | 173.5 | 47.1 | 5.59 | 51.2 | 6.47 | 55.6 | 7.55 | 60.4 | 8.53 | 62.2 | 8.70 | 64.8 | 8.95 | 66.6 | 9.08 |
| | | 347.0 | 47.1 | 5.12 | 51.2 | 6.05 | 55.6 | 7.07 | 60.4 | 7.97 | 62.2 | 8.15 | 64.8 | 8.38 | 66.6 | 8.53 |
| | | 433.8 | 47.1 | 4.99 | 51.2 | 5.97 | 55.6 | 6.95 | 60.4 | 7.82 | 62.2 | 8.00 | 64.8 | 8.20 | 66.6 | 8.30 |
| | | 520.5 | 47.1 | 4.92 | 51.2 | 5.92 | 55.6 | 6.87 | 60.4 | 7.75 | 62.2 | 7.95 | 64.8 | 8.10 | 66.6 | 8.18 |
| | 30 | 138.8 | 47.1 | 7.00 | 51.2 | 8.15 | 55.6 | 9.46 | 60.4 | 10.66 | 62.2 | 10.89 | 64.8 | 11.16 | 66.6 | 11.36 |
| | | 173.5 | 47.1 | 6.85 | 51.2 | 8.00 | 55.6 | 9.31 | 60.4 | 10.48 | 62.2 | 10.71 | 64.8 | 10.99 | 66.6 | 11.18 |
| | | 347.0 | 47.1 | 6.29 | 51.2 | 7.45 | 55.6 | 8.70 | 60.4 | 9.78 | 62.2 | 10.01 | 64.8 | 10.28 | 66.6 | 10.48 |
| | | 433.8 | 47.1 | 6.15 | 51.2 | 7.32 | 55.6 | 8.53 | 60.4 | 9.60 | 62.2 | 9.83 | 64.8 | 10.11 | 66.6 | 10.21 |
| | | 520.5 | 47.1 | 6.07 | 51.2 | 7.25 | 55.6 | 8.43 | 60.4 | 9.50 | 62.2 | 9.73 | 64.8 | 10.01 | 66.6 | 10.06 |
| | 35 | 138.8 | 47.1 | 7.75 | 51.2 | 9.05 | 55.6 | 10.51 | 60.4 | 11.84 | 62.2 | 12.12 | 64.8 | 12.39 | 66.6 | 12.64 |
| | | 173.5 | 47.1 | 7.60 | 51.2 | 8.90 | 55.6 | 10.33 | 60.4 | 11.64 | 62.2 | 11.91 | 64.8 | 12.19 | 66.6 | 12.44 |
| | | 347.0 | 47.1 | 6.99 | 51.2 | 8.30 | 55.6 | 9.68 | 60.4 | 10.89 | 62.2 | 11.13 | 64.8 | 11.46 | 66.6 | 11.64 |
| | | 433.8 | 47.1 | 6.80 | 51.2 | 8.10 | 55.6 | 9.45 | 60.4 | 10.66 | 62.2 | 10.94 | 64.8 | 11.21 | 66.6 | 11.31 |
| | | 520.5 | 47.1 | 6.70 | 51.2 | 8.00 | 55.6 | 9.33 | 60.4 | 10.56 | 62.2 | 10.86 | 64.8 | 11.11 | 66.6 | 11.16 |
| | 40 | 138.8 | 47.1 | 9.23 | 51.2 | 10.71 | 55.6 | 12.44 | 60.4 | 14.02 | 62.2 | 14.35 | 64.8 | 14.72 | 66.6 | 14.95 |
| | | 173.5 | 47.1 | 9.03 | 51.2 | 10.53 | 55.6 | 12.24 | 60.4 | 13.79 | 62.2 | 14.12 | 64.8 | 14.47 | 66.6 | 14.72 |
| | | 347.0 | 47.1 | 8.30 | 51.2 | 9.83 | 55.6 | 11.46 | 60.4 | 12.89 | 62.2 | 13.17 | 64.8 | 13.54 | 66.6 | 13.79 |
| | | 433.8 | 47.1 | 8.05 | 51.2 | 9.63 | 55.6 | 11.21 | 60.4 | 12.62 | 62.2 | 12.94 | 64.8 | 13.27 | 66.6 | 13.42 |
| | | 520.5 | 47.1 | 7.95 | 51.2 | 9.55 | 55.6 | 11.11 | 60.4 | 12.49 | 62.2 | 12.84 | 64.8 | 13.14 | 66.6 | 13.22 |
| | 45 | 138.8 | 47.1 | 10.71 | 51.2 | 12.36 | 55.6 | 14.39 | 60.4 | 16.18 | 62.2 | 16.58 | 64.8 | 17.05 | 66.6 | 17.28 |
| | | 173.5 | 47.1 | 10.48 | 51.2 | 12.16 | 55.6 | 14.15 | 60.4 | 15.93 | 62.2 | 16.30 | 64.8 | 16.76 | 66.6 | 17.00 |
| | | 347.0 | 47.1 | 9.60 | 51.2 | 11.36 | 55.6 | 13.22 | 60.4 | 14.90 | 62.2 | 15.22 | 64.8 | 15.65 | 66.6 | 15.93 |
| | | 433.8 | 47.1 | 9.31 | 51.2 | 11.18 | 55.6 | 12.99 | 60.4 | 14.57 | 62.2 | 14.95 | 64.8 | 15.32 | 66.6 | 15.50 |
| | | 520.5 | 47.1 | 9.18 | 51.2 | 11.08 | 55.6 | 12.87 | 60.4 | 14.42 | 62.2 | 14.80 | 64.8 | 15.15 | 66.6 | 15.30 |
| 50 | 10 | 138.8 | 39.3 | 2.03 | 42.7 | 2.41 | 46.3 | 2.91 | 50.4 | 3.19 | 51.9 | 3.21 | 54.0 | 3.33 | 55.5 | 3.41 |
| | | 173.5 | 39.3 | 2.01 | 42.7 | 2.38 | 46.3 | 2.83 | 50.4 | 3.14 | 51.9 | 3.18 | 54.0 | 3.26 | 55.5 | 3.36 |
| | | 347.0 | 39.3 | 1.93 | 42.7 | 2.23 | 46.3 | 2.56 | 50.4 | 2.91 | 51.9 | 3.01 | 54.0 | 3.04 | 55.5 | 3.14 |
| | | 433.8 | 39.3 | 1.83 | 42.7 | 2.16 | 46.3 | 2.56 | 50.4 | 2.81 | 51.9 | 2.91 | 54.0 | 2.96 | 55.5 | 3.01 |
| | | 520.5 | 39.3 | 1.78 | 42.7 | 2.11 | 46.3 | 2.56 | 50.4 | 2.76 | 51.9 | 2.86 | 54.0 | 2.91 | 55.5 | 2.93 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 138.8 | 39.3 | 2.79 | 42.7 | 3.26 | 46.3 | 3.84 | 50.4 | 4.31 | 51.9 | 4.39 | 54.0 | 4.49 | 55.5 | 4.59 |
| | | 173.5 | 39.3 | 2.76 | 42.7 | 3.21 | 46.3 | 3.76 | 50.4 | 4.24 | 51.9 | 4.34 | 54.0 | 4.42 | 55.5 | 4.51 |
| | | 347.0 | 39.3 | 2.56 | 42.7 | 3.03 | 46.3 | 3.49 | 50.4 | 3.96 | 51.9 | 4.06 | 54.0 | 4.14 | 55.5 | 4.24 |
| | | 433.8 | 39.3 | 2.46 | 42.7 | 2.93 | 46.3 | 3.44 | 50.4 | 3.86 | 51.9 | 3.96 | 54.0 | 4.06 | 55.5 | 4.09 |
| | | 520.5 | 39.3 | 2.43 | 42.7 | 2.88 | 46.3 | 3.41 | 50.4 | 3.81 | 51.9 | 3.91 | 54.0 | 4.01 | 55.5 | 4.04 |
| | 20 | 138.8 | 39.3 | 3.46 | 42.7 | 4.01 | 46.3 | 4.69 | 50.4 | 5.29 | 51.9 | 5.44 | 54.0 | 5.54 | 55.5 | 5.62 |
| | | 173.5 | 39.3 | 3.41 | 42.7 | 3.96 | 46.3 | 4.61 | 50.4 | 5.22 | 51.9 | 5.36 | 54.0 | 5.44 | 55.5 | 5.54 |
| | | 347.0 | 39.3 | 3.11 | 42.7 | 3.73 | 46.3 | 4.34 | 50.4 | 4.89 | 51.9 | 4.99 | 54.0 | 5.12 | 55.5 | 5.22 |
| | | 433.8 | 39.3 | 3.03 | 42.7 | 3.64 | 46.3 | 4.24 | 50.4 | 4.79 | 51.9 | 4.89 | 54.0 | 5.04 | 55.5 | 5.07 |
| | | 520.5 | 39.3 | 2.98 | 42.7 | 3.59 | 46.3 | 4.19 | 50.4 | 4.74 | 51.9 | 4.84 | 54.0 | 4.99 | 55.5 | 5.01 |
| | 25 | 138.8 | 39.3 | 4.24 | 42.7 | 4.92 | 46.3 | 5.72 | 50.4 | 6.42 | 51.9 | 6.62 | 54.0 | 6.77 | 55.5 | 6.92 |
| | | 173.5 | 39.3 | 4.14 | 42.7 | 4.84 | 46.3 | 5.64 | 50.4 | 6.34 | 51.9 | 6.52 | 54.0 | 6.67 | 55.5 | 6.80 |
| | | 347.0 | 39.3 | 3.81 | 42.7 | 4.51 | 46.3 | 5.27 | 50.4 | 5.97 | 51.9 | 6.10 | 54.0 | 6.24 | 55.5 | 6.34 |
| | | 433.8 | 39.3 | 3.73 | 42.7 | 4.42 | 46.3 | 5.17 | 50.4 | 5.82 | 51.9 | 5.97 | 54.0 | 6.10 | 55.5 | 6.19 |
| | | 520.5 | 39.3 | 3.69 | 42.7 | 4.39 | 46.3 | 5.12 | 50.4 | 5.74 | 51.9 | 5.89 | 54.0 | 6.02 | 55.5 | 6.12 |
| | 30 | 138.8 | 39.3 | 5.22 | 42.7 | 6.05 | 46.3 | 7.05 | 50.4 | 7.95 | 51.9 | 8.15 | 54.0 | 8.33 | 55.5 | 8.47 |
| | | 173.5 | 39.3 | 5.12 | 42.7 | 5.97 | 46.3 | 6.95 | 50.4 | 7.82 | 51.9 | 8.00 | 54.0 | 8.20 | 55.5 | 8.33 |
| | | 347.0 | 39.3 | 4.71 | 42.7 | 5.59 | 46.3 | 6.47 | 50.4 | 7.32 | 51.9 | 7.50 | 54.0 | 7.68 | 55.5 | 7.82 |
| | | 433.8 | 39.3 | 4.56 | 42.7 | 5.44 | 46.3 | 6.34 | 50.4 | 7.17 | 51.9 | 7.35 | 54.0 | 7.55 | 55.5 | 7.60 |
| | | 520.5 | 39.3 | 4.49 | 42.7 | 5.37 | 46.3 | 6.27 | 50.4 | 7.10 | 51.9 | 7.30 | 54.0 | 7.47 | 55.5 | 7.47 |
| | 35 | 138.8 | 39.3 | 5.79 | 42.7 | 6.72 | 46.3 | 7.85 | 50.4 | 8.80 | 51.9 | 9.05 | 54.0 | 9.28 | 55.5 | 9.43 |
| | | 173.5 | 39.3 | 5.69 | 42.7 | 6.62 | 46.3 | 7.73 | 50.4 | 8.65 | 51.9 | 8.90 | 54.0 | 9.13 | 55.5 | 9.28 |
| | | 347.0 | 39.3 | 5.22 | 42.7 | 6.19 | 46.3 | 7.22 | 50.4 | 8.10 | 51.9 | 8.30 | 54.0 | 8.53 | 55.5 | 8.65 |
| | | 433.8 | 39.3 | 5.07 | 42.7 | 6.05 | 46.3 | 7.07 | 50.4 | 7.97 | 51.9 | 8.15 | 54.0 | 8.38 | 55.5 | 8.43 |
| | | 520.5 | 39.3 | 5.01 | 42.7 | 5.99 | 46.3 | 7.00 | 50.4 | 7.90 | 51.9 | 8.08 | 54.0 | 8.30 | 55.5 | 8.30 |
| | 40 | 138.8 | 39.3 | 6.84 | 42.7 | 7.95 | 46.3 | 9.28 | 50.4 | 10.46 | 51.9 | 10.71 | 54.0 | 10.98 | 55.5 | 11.16 |
| | | 173.5 | 39.3 | 6.70 | 42.7 | 7.82 | 46.3 | 9.13 | 50.4 | 10.28 | 51.9 | 10.53 | 54.0 | 10.81 | 55.5 | 10.99 |
| | | 347.0 | 39.3 | 6.19 | 42.7 | 7.32 | 46.3 | 8.53 | 50.4 | 9.60 | 51.9 | 9.83 | 54.0 | 10.11 | 55.5 | 10.28 |
| | | 433.8 | 39.3 | 6.02 | 42.7 | 7.17 | 46.3 | 8.38 | 50.4 | 9.41 | 51.9 | 9.63 | 54.0 | 9.93 | 55.5 | 10.01 |
| | | 520.5 | 39.3 | 5.92 | 42.7 | 7.10 | 46.3 | 8.30 | 50.4 | 9.31 | 51.9 | 9.55 | 54.0 | 9.83 | 55.5 | 9.88 |
| | 45 | 138.8 | 39.3 | 7.87 | 42.7 | 9.18 | 46.3 | 10.71 | 50.4 | 12.14 | 51.9 | 12.36 | 54.0 | 12.69 | 55.5 | 12.92 |
| | | 173.5 | 39.3 | 7.73 | 42.7 | 9.03 | 46.3 | 10.53 | 50.4 | 11.91 | 51.9 | 12.16 | 54.0 | 12.49 | 55.5 | 12.71 |
| | | 347.0 | 39.3 | 7.17 | 42.7 | 8.43 | 46.3 | 9.83 | 50.4 | 11.08 | 51.9 | 11.36 | 54.0 | 11.69 | 55.5 | 11.91 |
| | | 433.8 | 39.3 | 6.95 | 42.7 | 8.30 | 46.3 | 9.68 | 50.4 | 10.86 | 51.9 | 11.13 | 54.0 | 11.46 | 55.5 | 11.59 |
| | | 520.5 | 39.3 | 6.82 | 42.7 | 8.22 | 46.3 | 9.61 | 50.4 | 10.73 | 51.9 | 11.01 | 54.0 | 11.34 | 55.5 | 11.44 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN380BAS4

**Cooling Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 146.4 | 98.8 | 7.28 | 107.0 | 8.53 | 116.7 | 9.94 | 126.7 | 11.19 | 130.3 | 11.51 | 135.7 | 11.72 | 139.3 | 11.83 |
| | | 183.0 | 98.8 | 7.15 | 107.0 | 8.40 | 116.7 | 9.78 | 126.7 | 11.03 | 130.3 | 11.30 | 135.7 | 11.54 | 139.3 | 11.67 |
| | | 366.0 | 98.8 | 6.64 | 107.0 | 7.87 | 116.7 | 9.17 | 126.7 | 10.31 | 130.3 | 10.50 | 135.7 | 10.82 | 139.3 | 11.06 |
| | | 457.5 | 98.8 | 6.44 | 107.0 | 7.68 | 116.7 | 8.96 | 126.7 | 10.07 | 130.3 | 10.34 | 135.7 | 10.58 | 139.3 | 10.77 |
| | | 549.0 | 98.8 | 6.35 | 107.0 | 7.58 | 116.7 | 8.88 | 126.7 | 9.94 | 130.3 | 10.29 | 135.7 | 10.47 | 139.3 | 10.63 |
| | 15 | 146.4 | 97.2 | 9.62 | 105.3 | 11.19 | 114.8 | 13.05 | 124.8 | 14.70 | 128.4 | 15.05 | 133.5 | 15.39 | 137.1 | 15.63 |
| | | 183.0 | 97.2 | 9.44 | 105.3 | 11.01 | 114.8 | 12.84 | 124.8 | 14.46 | 128.4 | 14.81 | 133.5 | 15.15 | 137.1 | 15.39 |
| | | 366.0 | 97.2 | 8.69 | 105.3 | 10.32 | 114.8 | 11.99 | 124.8 | 13.53 | 128.4 | 13.82 | 133.5 | 14.22 | 137.1 | 14.51 |
| | | 457.5 | 97.2 | 8.45 | 105.3 | 10.07 | 114.8 | 11.75 | 124.8 | 13.24 | 128.4 | 13.58 | 133.5 | 13.93 | 137.1 | 14.17 |
| | | 549.0 | 97.2 | 8.32 | 105.3 | 9.94 | 114.8 | 11.62 | 124.8 | 13.08 | 128.4 | 13.45 | 133.5 | 13.77 | 137.1 | 13.99 |
| | 20 | 146.4 | 95.8 | 11.70 | 103.9 | 13.53 | 113.2 | 15.82 | 123.0 | 17.81 | 126.7 | 18.21 | 131.6 | 18.66 | 135.2 | 19.01 |
| | | 183.0 | 95.8 | 11.46 | 103.9 | 13.32 | 113.2 | 15.55 | 123.0 | 17.52 | 126.7 | 17.92 | 131.6 | 18.37 | 135.2 | 18.71 |
| | | 366.0 | 95.8 | 10.52 | 103.9 | 12.49 | 113.2 | 14.51 | 123.0 | 16.38 | 126.7 | 16.78 | 131.6 | 17.23 | 135.2 | 17.57 |
| | | 457.5 | 95.8 | 10.21 | 103.9 | 12.20 | 113.2 | 14.22 | 123.0 | 16.03 | 126.7 | 16.43 | 131.6 | 16.88 | 135.2 | 17.18 |
| | | 549.0 | 95.8 | 10.07 | 103.9 | 12.04 | 113.2 | 14.06 | 123.0 | 15.87 | 126.7 | 16.27 | 131.6 | 16.72 | 135.2 | 16.99 |
| | 25 | 146.4 | 95.8 | 14.41 | 103.9 | 16.70 | 113.2 | 19.46 | 123.0 | 21.93 | 126.7 | 22.47 | 131.6 | 23.02 | 135.2 | 23.40 |
| | | 183.0 | 95.8 | 14.12 | 103.9 | 16.43 | 113.2 | 19.14 | 123.0 | 21.56 | 126.7 | 22.12 | 131.6 | 22.65 | 135.2 | 23.05 |
| | | 366.0 | 95.8 | 12.98 | 103.9 | 15.39 | 113.2 | 17.92 | 123.0 | 20.18 | 126.7 | 20.68 | 131.6 | 21.22 | 135.2 | 21.67 |
| | | 457.5 | 95.8 | 12.63 | 103.9 | 15.05 | 113.2 | 17.57 | 123.0 | 19.80 | 126.7 | 20.29 | 131.6 | 20.84 | 135.2 | 21.19 |
| | | 549.0 | 95.8 | 12.47 | 103.9 | 14.89 | 113.2 | 17.41 | 123.0 | 19.59 | 126.7 | 20.10 | 131.6 | 20.63 | 135.2 | 20.92 |
| | 30 | 146.4 | 95.8 | 17.28 | 103.9 | 20.07 | 113.2 | 23.37 | 123.0 | 26.34 | 126.7 | 26.93 | 131.6 | 27.65 | 135.2 | 28.05 |
| | | 183.0 | 95.8 | 16.93 | 103.9 | 19.75 | 113.2 | 23.00 | 123.0 | 25.92 | 126.7 | 26.51 | 131.6 | 27.20 | 135.2 | 27.65 |
| | | 366.0 | 95.8 | 15.55 | 103.9 | 18.45 | 113.2 | 21.53 | 123.0 | 24.24 | 126.7 | 24.83 | 131.6 | 25.47 | 135.2 | 26.02 |
| | | 457.5 | 95.8 | 15.15 | 103.9 | 18.08 | 113.2 | 21.08 | 123.0 | 23.74 | 126.7 | 24.38 | 131.6 | 24.99 | 135.2 | 25.42 |
| | | 549.0 | 95.8 | 14.97 | 103.9 | 17.87 | 113.2 | 20.87 | 123.0 | 23.50 | 126.7 | 24.17 | 131.6 | 24.73 | 135.2 | 25.12 |
| | 35 | 146.4 | 86.3 | 17.47 | 93.4 | 20.34 | 101.8 | 23.63 | 110.7 | 26.64 | 114.0 | 27.22 | 118.4 | 27.94 | 121.6 | 28.42 |
| | | 183.0 | 86.3 | 17.12 | 93.4 | 19.99 | 101.8 | 23.26 | 110.7 | 26.21 | 114.0 | 26.80 | 118.4 | 27.49 | 121.6 | 27.99 |
| | | 366.0 | 86.3 | 15.74 | 93.4 | 18.66 | 101.8 | 21.77 | 110.7 | 24.48 | 114.0 | 25.12 | 118.4 | 25.76 | 121.6 | 26.26 |
| | | 457.5 | 86.3 | 15.31 | 93.4 | 18.26 | 101.8 | 21.32 | 110.7 | 23.98 | 114.0 | 24.64 | 118.4 | 25.28 | 121.6 | 25.71 |
| | | 549.0 | 86.3 | 15.08 | 93.4 | 18.08 | 101.8 | 21.11 | 110.7 | 23.74 | 114.0 | 24.38 | 118.4 | 25.02 | 121.6 | 25.44 |
| | 40 | 146.4 | 76.8 | 18.45 | 83.1 | 21.43 | 90.4 | 24.94 | 98.3 | 28.10 | 101.2 | 28.74 | 105.3 | 29.43 | 108.3 | 29.96 |
| | | 183.0 | 76.8 | 18.08 | 83.1 | 21.08 | 90.4 | 24.54 | 98.3 | 27.65 | 101.2 | 28.29 | 105.3 | 28.98 | 108.3 | 29.51 |
| | | 366.0 | 76.8 | 16.59 | 83.1 | 19.70 | 90.4 | 22.95 | 98.3 | 25.81 | 101.2 | 26.45 | 105.3 | 27.20 | 108.3 | 27.75 |
| | | 457.5 | 76.8 | 16.14 | 83.1 | 19.25 | 90.4 | 22.46 | 98.3 | 25.33 | 101.2 | 25.97 | 105.3 | 26.66 | 108.3 | 27.09 |
| | | 549.0 | 76.8 | 15.92 | 83.1 | 19.03 | 90.4 | 22.22 | 98.3 | 25.07 | 101.2 | 25.71 | 105.3 | 26.40 | 108.3 | 26.77 |
| | 45 | 146.4 | 67.1 | 19.41 | 72.7 | 22.52 | 79.0 | 26.24 | 85.8 | 29.56 | 88.5 | 30.26 | 92.0 | 30.92 | 94.7 | 31.51 |
| | | 183.0 | 67.1 | 19.01 | 72.7 | 22.17 | 79.0 | 25.81 | 85.8 | 29.08 | 88.5 | 29.77 | 92.0 | 30.46 | 94.7 | 31.05 |
| | | 366.0 | 67.1 | 17.42 | 72.7 | 20.74 | 79.0 | 24.14 | 85.8 | 27.15 | 88.5 | 27.78 | 92.0 | 28.63 | 94.7 | 29.22 |
| | | 457.5 | 67.1 | 16.99 | 72.7 | 20.23 | 79.0 | 23.60 | 85.8 | 26.66 | 88.5 | 27.30 | 92.0 | 28.05 | 94.7 | 28.48 |
| | | 549.0 | 67.1 | 16.75 | 72.7 | 19.99 | 79.0 | 23.32 | 85.8 | 26.40 | 88.5 | 27.06 | 92.0 | 27.75 | 94.7 | 28.12 |
| 120 | 10 | 146.4 | 93.4 | 6.96 | 101.3 | 8.03 | 110.2 | 9.46 | 120.0 | 10.61 | 123.8 | 10.92 | 128.4 | 11.14 | 131.9 | 11.35 |
| | | 183.0 | 93.4 | 6.81 | 101.3 | 7.90 | 110.2 | 9.30 | 120.0 | 10.42 | 123.8 | 10.72 | 128.4 | 10.95 | 131.9 | 11.14 |
| | | 366.0 | 93.4 | 6.25 | 101.3 | 7.39 | 110.2 | 8.62 | 120.0 | 9.76 | 123.8 | 9.95 | 128.4 | 10.24 | 131.9 | 10.37 |
| | | 457.5 | 93.4 | 6.14 | 101.3 | 7.23 | 110.2 | 8.53 | 120.0 | 9.57 | 123.8 | 9.76 | 128.4 | 10.05 | 131.9 | 10.18 |
| | | 549.0 | 93.4 | 6.11 | 101.3 | 7.18 | 110.2 | 8.48 | 120.0 | 9.49 | 123.8 | 9.67 | 128.4 | 9.97 | 131.9 | 10.10 |
| | 15 | 146.4 | 92.5 | 9.22 | 100.2 | 10.69 | 109.1 | 12.50 | 118.6 | 14.04 | 122.2 | 14.41 | 127.0 | 14.75 | 130.5 | 14.99 |
| | | 183.0 | 92.5 | 9.04 | 100.2 | 10.52 | 109.1 | 12.28 | 118.6 | 13.82 | 122.2 | 14.17 | 127.0 | 14.51 | 130.5 | 14.76 |
| | | 366.0 | 92.5 | 8.29 | 100.2 | 9.83 | 109.1 | 11.46 | 118.6 | 12.92 | 122.2 | 13.24 | 127.0 | 13.58 | 130.5 | 13.82 |
| | | 457.5 | 92.5 | 8.11 | 100.2 | 9.62 | 109.1 | 11.25 | 118.6 | 12.68 | 122.2 | 12.98 | 127.0 | 13.32 | 130.5 | 13.53 |
| | | 549.0 | 92.5 | 8.00 | 100.2 | 9.52 | 109.1 | 11.16 | 118.6 | 12.57 | 122.2 | 12.87 | 127.0 | 13.21 | 130.5 | 13.37 |
| | 20 | 146.4 | 91.7 | 11.24 | 99.1 | 13.05 | 108.0 | 15.21 | 117.5 | 17.10 | 120.8 | 17.50 | 125.7 | 17.97 | 129.2 | 18.24 |
| | | 183.0 | 91.7 | 11.01 | 99.1 | 12.84 | 108.0 | 14.96 | 117.5 | 16.83 | 120.8 | 17.23 | 125.7 | 17.68 | 129.2 | 17.97 |
| | | 366.0 | 91.7 | 10.13 | 99.1 | 11.99 | 108.0 | 13.96 | 117.5 | 15.74 | 120.8 | 16.14 | 125.7 | 16.54 | 129.2 | 16.88 |
| | | 457.5 | 91.7 | 9.83 | 99.1 | 11.75 | 108.0 | 13.67 | 117.5 | 15.45 | 120.8 | 15.84 | 125.7 | 16.24 | 129.2 | 16.48 |
| | | 549.0 | 91.7 | 9.68 | 99.1 | 11.62 | 108.0 | 13.53 | 117.5 | 15.31 | 120.8 | 15.69 | 125.7 | 16.09 | 129.2 | 16.30 |
| | 25 | 146.4 | 91.7 | 13.80 | 99.1 | 16.00 | 108.0 | 18.66 | 117.5 | 21.03 | 120.8 | 21.53 | 125.7 | 22.07 | 129.2 | 22.46 |
| | | 183.0 | 91.7 | 13.53 | 99.1 | 15.74 | 108.0 | 18.37 | 117.5 | 20.68 | 120.8 | 21.19 | 125.7 | 21.72 | 129.2 | 22.12 |
| | | 366.0 | 91.7 | 12.44 | 99.1 | 14.76 | 108.0 | 17.18 | 117.5 | 19.35 | 120.8 | 19.80 | 125.7 | 20.34 | 129.2 | 20.74 |
| | | 457.5 | 91.7 | 12.10 | 99.1 | 14.41 | 108.0 | 16.83 | 117.5 | 18.96 | 120.8 | 19.46 | 125.7 | 19.94 | 129.2 | 20.23 |
| | | 549.0 | 91.7 | 11.91 | 99.1 | 14.25 | 108.0 | 16.67 | 117.5 | 18.77 | 120.8 | 19.27 | 125.7 | 19.75 | 129.2 | 19.99 |
| | 30 | 146.4 | 91.7 | 16.67 | 99.1 | 19.36 | 108.0 | 22.57 | 117.5 | 25.44 | 120.8 | 26.05 | 125.7 | 26.69 | 129.2 | 27.12 |
| | | 183.0 | 91.7 | 16.35 | 99.1 | 19.06 | 108.0 | 22.22 | 117.5 | 25.02 | 120.8 | 25.63 | 125.7 | 26.26 | 129.2 | 26.71 |
| | | 366.0 | 91.7 | 15.05 | 99.1 | 17.81 | 108.0 | 20.79 | 117.5 | 23.40 | 120.8 | 23.95 | 125.7 | 24.59 | 129.2 | 25.07 |
| | | 457.5 | 91.7 | 14.62 | 99.1 | 17.42 | 108.0 | 20.34 | 117.5 | 22.91 | 120.8 | 23.50 | 125.7 | 24.14 | 129.2 | 24.48 |
| | | 549.0 | 91.7 | 14.38 | 99.1 | 17.23 | 108.0 | 20.12 | 117.5 | 22.65 | 120.8 | 23.29 | 125.7 | 23.92 | 129.2 | 24.19 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 146.4 | 83.9 | 17.07 | 90.7 | 19.86 | 98.8 | 23.13 | 107.5 | 26.03 | 110.7 | 26.69 | 115.1 | 27.33 | 118.3 | 27.83 |
| | | 183.0 | 83.9 | 16.73 | 90.7 | 19.54 | 98.8 | 22.76 | 107.5 | 25.63 | 110.7 | 26.26 | 115.1 | 26.90 | 118.3 | 27.41 |
| | | 366.0 | 83.9 | 15.39 | 90.7 | 18.26 | 98.8 | 21.27 | 107.5 | 23.98 | 110.7 | 24.59 | 115.1 | 25.23 | 118.3 | 25.68 |
| | | 457.5 | 83.9 | 15.00 | 90.7 | 17.87 | 98.8 | 20.84 | 107.5 | 23.50 | 110.7 | 24.09 | 115.1 | 24.73 | 118.3 | 25.07 |
| | | 549.0 | 83.9 | 14.81 | 90.7 | 17.68 | 98.8 | 20.61 | 107.5 | 23.26 | 110.7 | 23.85 | 115.1 | 24.49 | 118.3 | 24.78 |
| | 40 | 146.4 | 76.0 | 18.37 | 82.3 | 21.38 | 89.6 | 24.88 | 97.5 | 28.05 | 100.4 | 28.69 | 104.3 | 29.38 | 107.2 | 29.93 |
| | | 183.0 | 76.0 | 18.02 | 82.3 | 21.03 | 89.6 | 24.48 | 97.5 | 27.60 | 100.4 | 28.23 | 104.3 | 28.93 | 107.2 | 29.48 |
| | | 366.0 | 76.0 | 16.59 | 82.3 | 19.65 | 89.6 | 22.91 | 97.5 | 25.81 | 100.4 | 26.40 | 104.3 | 27.09 | 107.2 | 27.65 |
| | | 457.5 | 76.0 | 16.14 | 82.3 | 19.25 | 89.6 | 22.46 | 97.5 | 25.28 | 100.4 | 25.92 | 104.3 | 26.61 | 107.2 | 27.01 |
| | | 549.0 | 76.0 | 15.92 | 82.3 | 19.06 | 89.6 | 22.25 | 97.5 | 25.01 | 100.4 | 25.68 | 104.3 | 26.37 | 107.2 | 26.69 |
| | 45 | 146.4 | 68.4 | 19.70 | 73.8 | 22.89 | 80.6 | 26.64 | 87.7 | 30.06 | 90.1 | 30.71 | 93.7 | 31.45 | 96.4 | 32.03 |
| | | 183.0 | 68.4 | 19.30 | 73.8 | 22.52 | 80.6 | 26.21 | 87.7 | 29.56 | 90.1 | 30.20 | 93.7 | 30.95 | 96.4 | 31.55 |
| | | 366.0 | 68.4 | 17.76 | 73.8 | 21.03 | 80.6 | 24.54 | 87.7 | 27.65 | 90.1 | 28.23 | 93.7 | 28.98 | 96.4 | 29.62 |
| | | 457.5 | 68.4 | 17.28 | 73.8 | 20.63 | 80.6 | 24.09 | 87.7 | 27.06 | 90.1 | 27.75 | 93.7 | 28.48 | 96.4 | 28.93 |
| | | 549.0 | 68.4 | 17.04 | 73.8 | 20.44 | 80.6 | 23.87 | 87.7 | 26.75 | 90.1 | 27.49 | 93.7 | 28.23 | 96.4 | 28.58 |
| 110 | 10 | 146.4 | 88.2 | 6.60 | 95.5 | 7.65 | 104.0 | 8.83 | 113.2 | 10.00 | 116.5 | 10.18 | 121.3 | 10.50 | 124.3 | 10.63 |
| | | 183.0 | 88.2 | 6.46 | 95.5 | 7.52 | 104.0 | 8.70 | 113.2 | 9.84 | 116.5 | 10.03 | 121.3 | 10.32 | 124.3 | 10.45 |
| | | 366.0 | 88.2 | 5.95 | 95.5 | 6.99 | 104.0 | 8.19 | 113.2 | 9.23 | 116.5 | 9.47 | 121.3 | 9.60 | 124.3 | 9.79 |
| | | 457.5 | 88.2 | 5.77 | 95.5 | 6.86 | 104.0 | 8.00 | 113.2 | 9.04 | 116.5 | 9.22 | 121.3 | 9.41 | 124.3 | 9.65 |
| | | 549.0 | 88.2 | 5.66 | 95.5 | 6.78 | 104.0 | 7.90 | 113.2 | 8.94 | 116.5 | 9.09 | 121.3 | 9.31 | 124.3 | 9.60 |
| | 15 | 146.4 | 87.7 | 8.82 | 95.0 | 10.24 | 103.4 | 11.88 | 112.4 | 13.40 | 115.9 | 13.69 | 120.5 | 14.04 | 123.8 | 14.30 |
| | | 183.0 | 87.7 | 8.64 | 95.0 | 10.07 | 103.4 | 11.70 | 112.4 | 13.18 | 115.9 | 13.48 | 120.5 | 13.82 | 123.8 | 14.06 |
| | | 366.0 | 87.7 | 7.95 | 95.0 | 9.38 | 103.4 | 10.95 | 112.4 | 12.34 | 115.9 | 12.63 | 120.5 | 12.92 | 123.8 | 13.18 |
| | | 457.5 | 87.7 | 7.71 | 95.0 | 9.17 | 103.4 | 10.71 | 112.4 | 12.10 | 115.9 | 12.39 | 120.5 | 12.68 | 123.8 | 12.89 |
| | | 549.0 | 87.7 | 7.58 | 95.0 | 9.09 | 103.4 | 10.58 | 112.4 | 11.97 | 115.9 | 12.26 | 120.5 | 12.57 | 123.8 | 12.73 |
| | 20 | 146.4 | 87.4 | 10.77 | 94.5 | 12.55 | 102.9 | 14.60 | 111.8 | 16.40 | 115.3 | 16.80 | 119.7 | 17.20 | 123.2 | 17.55 |
| | | 183.0 | 87.4 | 10.56 | 94.5 | 12.34 | 102.9 | 14.36 | 111.8 | 16.14 | 115.3 | 16.54 | 119.7 | 16.93 | 123.2 | 17.28 |
| | | 366.0 | 87.4 | 9.73 | 94.5 | 11.51 | 102.9 | 13.43 | 111.8 | 15.10 | 115.3 | 15.45 | 119.7 | 15.90 | 123.2 | 16.19 |
| | | 457.5 | 87.4 | 9.44 | 94.5 | 11.25 | 102.9 | 13.13 | 111.8 | 14.81 | 115.3 | 15.21 | 119.7 | 15.60 | 123.2 | 15.74 |
| | | 549.0 | 87.4 | 9.28 | 94.5 | 11.14 | 102.9 | 12.98 | 111.8 | 14.67 | 115.3 | 15.08 | 119.7 | 15.45 | 123.2 | 15.53 |
| | 25 | 146.4 | 87.4 | 13.19 | 94.5 | 15.36 | 102.9 | 17.86 | 111.8 | 20.12 | 115.3 | 20.55 | 119.7 | 21.06 | 123.2 | 21.46 |
| | | 183.0 | 87.4 | 12.92 | 94.5 | 15.10 | 102.9 | 17.57 | 111.8 | 19.80 | 115.3 | 20.23 | 119.7 | 20.74 | 123.2 | 21.13 |
| | | 366.0 | 87.4 | 11.89 | 94.5 | 14.12 | 102.9 | 16.43 | 111.8 | 18.51 | 115.3 | 18.96 | 119.7 | 19.46 | 123.2 | 19.80 |
| | | 457.5 | 87.4 | 11.54 | 94.5 | 13.82 | 102.9 | 16.09 | 111.8 | 18.11 | 115.3 | 18.61 | 119.7 | 19.06 | 123.2 | 19.30 |
| | | 549.0 | 87.4 | 11.38 | 94.5 | 13.67 | 102.9 | 15.92 | 111.8 | 17.92 | 115.3 | 18.45 | 119.7 | 18.85 | 123.2 | 19.06 |
| | 30 | 146.4 | 87.4 | 16.06 | 94.5 | 18.72 | 102.9 | 21.77 | 111.8 | 24.54 | 115.3 | 25.07 | 119.7 | 25.73 | 123.2 | 26.18 |
| | | 183.0 | 87.4 | 15.74 | 94.5 | 18.42 | 102.9 | 21.43 | 111.8 | 24.14 | 115.3 | 24.67 | 119.7 | 25.33 | 123.2 | 25.76 |
| | | 366.0 | 87.4 | 14.51 | 94.5 | 17.18 | 102.9 | 20.04 | 111.8 | 22.57 | 115.3 | 23.10 | 119.7 | 23.69 | 123.2 | 24.14 |
| | | 457.5 | 87.4 | 14.12 | 94.5 | 16.83 | 102.9 | 19.59 | 111.8 | 22.12 | 115.3 | 22.65 | 119.7 | 23.26 | 123.2 | 23.55 |
| | | 549.0 | 87.4 | 13.93 | 94.5 | 16.67 | 102.9 | 19.38 | 111.8 | 21.90 | 115.3 | 22.44 | 119.7 | 23.02 | 123.2 | 23.26 |
| | 35 | 146.4 | 81.2 | 16.72 | 88.0 | 19.41 | 95.8 | 22.62 | 104.3 | 25.49 | 107.5 | 26.08 | 111.6 | 26.74 | 114.6 | 27.25 |
| | | 183.0 | 81.2 | 16.38 | 88.0 | 19.11 | 95.8 | 22.25 | 104.3 | 25.07 | 107.5 | 25.68 | 111.6 | 26.32 | 114.6 | 26.80 |
| | | 366.0 | 81.2 | 15.05 | 88.0 | 17.87 | 95.8 | 20.84 | 104.3 | 23.45 | 107.5 | 24.03 | 111.6 | 24.64 | 114.6 | 25.07 |
| | | 457.5 | 81.2 | 14.65 | 88.0 | 17.47 | 95.8 | 20.39 | 104.3 | 23.00 | 107.5 | 23.55 | 111.6 | 24.19 | 114.6 | 24.48 |
| | | 549.0 | 81.2 | 14.46 | 88.0 | 17.28 | 95.8 | 20.18 | 104.3 | 22.78 | 107.5 | 23.29 | 111.6 | 23.98 | 114.6 | 24.19 |
| | 40 | 146.4 | 75.4 | 18.40 | 81.7 | 21.32 | 89.0 | 24.89 | 96.6 | 27.99 | 99.4 | 28.66 | 103.4 | 29.35 | 106.2 | 29.88 |
| | | 183.0 | 75.4 | 18.02 | 81.7 | 20.98 | 89.0 | 24.48 | 96.6 | 27.54 | 99.4 | 28.18 | 103.4 | 28.87 | 106.2 | 29.43 |
| | | 366.0 | 75.4 | 16.54 | 81.7 | 19.65 | 89.0 | 22.86 | 96.6 | 25.76 | 99.4 | 26.37 | 103.4 | 27.06 | 106.2 | 27.60 |
| | | 457.5 | 75.4 | 16.09 | 81.7 | 19.20 | 89.0 | 22.41 | 96.6 | 25.28 | 99.4 | 25.87 | 103.4 | 26.56 | 106.2 | 26.90 |
| | | 549.0 | 75.4 | 15.87 | 81.7 | 18.98 | 89.0 | 22.20 | 96.6 | 25.02 | 99.4 | 25.63 | 103.4 | 26.32 | 106.2 | 26.56 |
| | 45 | 146.4 | 69.5 | 20.05 | 75.2 | 23.21 | 82.0 | 27.17 | 89.0 | 30.49 | 91.5 | 31.21 | 95.3 | 31.95 | 97.7 | 32.52 |
| | | 183.0 | 69.5 | 19.65 | 75.2 | 22.86 | 82.0 | 26.71 | 89.0 | 30.01 | 91.5 | 30.71 | 95.3 | 31.45 | 97.7 | 32.04 |
| | | 366.0 | 69.5 | 18.02 | 75.2 | 21.43 | 82.0 | 24.88 | 89.0 | 28.10 | 91.5 | 28.68 | 95.3 | 29.48 | 97.7 | 30.12 |
| | | 457.5 | 69.5 | 17.52 | 75.2 | 20.92 | 82.0 | 24.43 | 89.0 | 27.54 | 91.5 | 28.18 | 95.3 | 28.93 | 97.7 | 29.32 |
| | | 549.0 | 69.5 | 17.28 | 75.2 | 20.68 | 82.0 | 24.22 | 89.0 | 27.28 | 91.5 | 27.94 | 95.3 | 28.66 | 97.7 | 28.93 |
| 100 | 10 | 146.4 | 83.1 | 6.14 | 89.8 | 7.21 | 97.7 | 8.35 | 106.4 | 9.33 | 109.7 | 9.57 | 113.7 | 9.89 | 117.0 | 10.10 |
| | | 183.0 | 83.1 | 6.03 | 89.8 | 7.07 | 97.7 | 8.21 | 106.4 | 9.20 | 109.7 | 9.44 | 113.7 | 9.73 | 117.0 | 9.92 |
| | | 366.0 | 83.1 | 5.56 | 89.8 | 6.54 | 97.7 | 7.69 | 106.4 | 8.69 | 109.7 | 8.93 | 113.7 | 9.12 | 117.0 | 9.20 |
| | | 457.5 | 83.1 | 5.47 | 89.8 | 6.41 | 97.7 | 7.55 | 106.4 | 8.45 | 109.7 | 8.69 | 113.7 | 8.93 | 117.0 | 9.07 |
| | | 549.0 | 83.1 | 5.42 | 89.8 | 6.33 | 97.7 | 7.47 | 106.4 | 8.32 | 109.7 | 8.56 | 113.7 | 8.83 | 117.0 | 9.01 |
| | 15 | 146.4 | 83.1 | 8.35 | 89.8 | 9.73 | 97.7 | 11.35 | 106.4 | 12.74 | 109.7 | 13.03 | 113.7 | 13.40 | 117.0 | 13.64 |
| | | 183.0 | 83.1 | 8.19 | 89.8 | 9.57 | 97.7 | 11.16 | 106.4 | 12.55 | 109.7 | 12.84 | 113.7 | 13.18 | 117.0 | 13.43 |
| | | 366.0 | 83.1 | 7.55 | 89.8 | 8.93 | 97.7 | 10.42 | 106.4 | 11.75 | 109.7 | 12.04 | 113.7 | 12.34 | 117.0 | 12.55 |
| | | 457.5 | 83.1 | 7.36 | 89.8 | 8.74 | 97.7 | 10.21 | 106.4 | 11.51 | 109.7 | 11.80 | 113.7 | 12.10 | 117.0 | 12.23 |
| | | 549.0 | 83.1 | 7.26 | 89.8 | 8.64 | 97.7 | 10.13 | 106.4 | 11.38 | 109.7 | 11.67 | 113.7 | 11.97 | 117.0 | 12.10 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 146.4 | 83.1 | 10.32 | 89.8 | 11.99 | 97.7 | 14.01 | 106.4 | 15.76 | 109.7 | 16.11 | 113.7 | 16.51 | 117.0 | 16.80 |
| | | 183.0 | 83.1 | 10.13 | 89.8 | 11.80 | 97.7 | 13.77 | 106.4 | 15.50 | 109.7 | 15.84 | 113.7 | 16.24 | 117.0 | 16.54 |
| | | 366.0 | 83.1 | 9.33 | 89.8 | 11.06 | 97.7 | 12.84 | 106.4 | 14.46 | 109.7 | 14.81 | 113.7 | 15.21 | 117.0 | 15.50 |
| | | 457.5 | 83.1 | 9.04 | 89.8 | 10.82 | 97.7 | 12.58 | 106.4 | 14.22 | 109.7 | 14.57 | 113.7 | 14.91 | 117.0 | 15.05 |
| | | 549.0 | 83.1 | 8.88 | 89.8 | 10.69 | 97.7 | 12.47 | 106.4 | 14.09 | 109.7 | 14.44 | 113.7 | 14.76 | 117.0 | 14.83 |
| | 25 | 146.4 | 83.1 | 12.60 | 89.8 | 14.65 | 97.7 | 17.07 | 106.4 | 19.22 | 109.7 | 19.67 | 113.7 | 20.10 | 117.0 | 20.52 |
| | | 183.0 | 83.1 | 12.34 | 89.8 | 14.41 | 97.7 | 16.78 | 106.4 | 18.90 | 109.7 | 19.35 | 113.7 | 19.80 | 117.0 | 20.18 |
| | | 366.0 | 83.1 | 11.35 | 89.8 | 13.48 | 97.7 | 15.69 | 106.4 | 17.68 | 109.7 | 18.08 | 113.7 | 18.56 | 117.0 | 18.85 |
| | | 457.5 | 83.1 | 11.06 | 89.8 | 13.18 | 97.7 | 15.34 | 106.4 | 17.33 | 109.7 | 17.73 | 113.7 | 18.21 | 117.0 | 18.37 |
| | | 549.0 | 83.1 | 10.90 | 89.8 | 13.03 | 97.7 | 15.18 | 106.4 | 17.15 | 109.7 | 17.55 | 113.7 | 18.05 | 117.0 | 18.11 |
| | 30 | 146.4 | 83.1 | 15.52 | 89.8 | 18.02 | 97.7 | 20.97 | 106.4 | 23.63 | 109.7 | 24.19 | 113.7 | 24.78 | 117.0 | 25.23 |
| | | 183.0 | 83.1 | 15.21 | 89.8 | 17.73 | 97.7 | 20.63 | 106.4 | 23.26 | 109.7 | 23.79 | 113.7 | 24.38 | 117.0 | 24.83 |
| | | 366.0 | 83.1 | 13.96 | 89.8 | 16.54 | 97.7 | 19.30 | 106.4 | 21.72 | 109.7 | 22.22 | 113.7 | 22.81 | 117.0 | 23.21 |
| | | 457.5 | 83.1 | 13.58 | 89.8 | 16.19 | 97.7 | 18.90 | 106.4 | 21.27 | 109.7 | 21.82 | 113.7 | 22.36 | 117.0 | 22.60 |
| | | 549.0 | 83.1 | 13.37 | 89.8 | 16.03 | 97.7 | 18.71 | 106.4 | 21.06 | 109.7 | 21.62 | 113.7 | 22.14 | 117.0 | 22.31 |
| | 35 | 146.4 | 79.0 | 16.37 | 85.5 | 19.01 | 92.9 | 22.12 | 101.0 | 24.94 | 104.2 | 25.55 | 108.3 | 26.13 | 111.0 | 26.59 |
| | | 183.0 | 79.0 | 16.03 | 85.5 | 18.71 | 92.9 | 21.77 | 101.0 | 24.54 | 104.2 | 25.12 | 108.3 | 25.71 | 111.0 | 26.16 |
| | | 366.0 | 79.0 | 14.76 | 85.5 | 17.47 | 92.9 | 20.34 | 101.0 | 22.91 | 104.2 | 23.50 | 108.3 | 24.09 | 111.0 | 24.48 |
| | | 457.5 | 79.0 | 14.31 | 85.5 | 17.12 | 92.9 | 19.94 | 101.0 | 22.46 | 104.2 | 23.05 | 108.3 | 23.64 | 111.0 | 23.85 |
| | | 549.0 | 79.0 | 14.09 | 85.5 | 16.96 | 92.9 | 19.75 | 101.0 | 22.25 | 104.2 | 22.84 | 108.3 | 23.42 | 111.0 | 23.53 |
| | 40 | 146.4 | 74.6 | 18.32 | 80.9 | 21.32 | 88.0 | 24.83 | 95.8 | 27.94 | 98.5 | 28.66 | 102.4 | 29.35 | 105.3 | 29.85 |
| | | 183.0 | 74.6 | 17.97 | 80.9 | 20.98 | 88.0 | 24.43 | 95.8 | 27.49 | 98.5 | 28.18 | 102.4 | 28.87 | 105.3 | 29.38 |
| | | 366.0 | 74.6 | 16.54 | 80.9 | 19.59 | 88.0 | 22.86 | 95.8 | 25.71 | 98.5 | 26.32 | 102.4 | 27.01 | 105.3 | 27.49 |
| | | 457.5 | 74.6 | 16.09 | 80.9 | 19.20 | 88.0 | 22.36 | 95.8 | 25.23 | 98.5 | 25.87 | 102.4 | 26.51 | 105.3 | 26.75 |
| | | 549.0 | 74.6 | 15.87 | 80.9 | 19.01 | 88.0 | 22.12 | 95.8 | 24.99 | 98.5 | 25.65 | 102.4 | 26.27 | 105.3 | 26.40 |
| | 45 | 146.4 | 70.3 | 20.29 | 76.3 | 23.63 | 83.3 | 27.54 | 90.4 | 30.94 | 92.9 | 31.79 | 96.6 | 32.57 | 99.6 | 33.10 |
| | | 183.0 | 70.3 | 19.89 | 76.3 | 23.26 | 83.3 | 27.09 | 90.4 | 30.46 | 92.9 | 31.24 | 96.6 | 32.04 | 99.6 | 32.59 |
| | | 366.0 | 70.3 | 18.32 | 76.3 | 21.72 | 83.3 | 25.36 | 90.4 | 28.53 | 92.9 | 29.13 | 96.6 | 29.91 | 99.6 | 30.52 |
| | | 457.5 | 70.3 | 17.87 | 76.3 | 21.27 | 83.3 | 24.78 | 90.4 | 27.99 | 92.9 | 28.68 | 96.6 | 29.38 | 99.6 | 29.67 |
| | | 549.0 | 70.3 | 17.65 | 76.3 | 21.06 | 83.3 | 24.49 | 90.4 | 27.73 | 92.9 | 28.45 | 96.6 | 29.11 | 99.6 | 29.25 |
| 90 | 10 | 146.4 | 74.6 | 5.32 | 80.9 | 6.17 | 88.0 | 7.12 | 95.8 | 8.11 | 98.5 | 8.30 | 102.4 | 8.56 | 105.3 | 8.69 |
| | | 183.0 | 74.6 | 5.23 | 80.9 | 6.09 | 88.0 | 7.02 | 95.8 | 7.98 | 98.5 | 8.16 | 102.4 | 8.40 | 105.3 | 8.56 |
| | | 366.0 | 74.6 | 4.84 | 80.9 | 5.69 | 88.0 | 6.65 | 95.8 | 7.50 | 98.5 | 7.65 | 102.4 | 7.84 | 105.3 | 7.98 |
| | | 457.5 | 74.6 | 4.65 | 80.9 | 5.61 | 88.0 | 6.46 | 95.8 | 7.31 | 98.5 | 7.50 | 102.4 | 7.69 | 105.3 | 7.74 |
| | | 549.0 | 74.6 | 4.55 | 80.9 | 5.56 | 88.0 | 6.35 | 95.8 | 7.21 | 98.5 | 7.44 | 102.4 | 7.63 | 105.3 | 7.63 |
| | 15 | 146.4 | 74.6 | 7.20 | 80.9 | 8.38 | 88.0 | 9.73 | 95.8 | 10.98 | 98.5 | 11.22 | 102.4 | 11.54 | 105.3 | 11.75 |
| | | 183.0 | 74.6 | 7.07 | 80.9 | 8.24 | 88.0 | 9.57 | 95.8 | 10.82 | 98.5 | 11.06 | 102.4 | 11.35 | 105.3 | 11.54 |
| | | 366.0 | 74.6 | 6.51 | 80.9 | 7.71 | 88.0 | 8.99 | 95.8 | 10.13 | 98.5 | 10.37 | 102.4 | 10.61 | 105.3 | 10.82 |
| | | 457.5 | 74.6 | 6.33 | 80.9 | 7.55 | 88.0 | 8.80 | 95.8 | 9.92 | 98.5 | 10.18 | 102.4 | 10.42 | 105.3 | 10.52 |
| | | 549.0 | 74.6 | 6.22 | 80.9 | 7.47 | 88.0 | 8.69 | 95.8 | 9.83 | 98.5 | 10.07 | 102.4 | 10.32 | 105.3 | 10.37 |
| | 20 | 146.4 | 74.6 | 8.86 | 80.9 | 10.34 | 88.0 | 12.04 | 95.8 | 13.56 | 98.5 | 13.83 | 102.4 | 14.20 | 105.3 | 14.44 |
| | | 183.0 | 74.6 | 8.69 | 80.9 | 10.18 | 88.0 | 11.85 | 95.8 | 13.32 | 98.5 | 13.61 | 102.4 | 13.96 | 105.3 | 14.22 |
| | | 366.0 | 74.6 | 8.00 | 80.9 | 9.49 | 88.0 | 11.06 | 95.8 | 12.44 | 98.5 | 12.79 | 102.4 | 13.08 | 105.3 | 13.32 |
| | | 457.5 | 74.6 | 7.79 | 80.9 | 9.28 | 88.0 | 10.87 | 95.8 | 12.23 | 98.5 | 12.55 | 102.4 | 12.84 | 105.3 | 12.98 |
| | | 549.0 | 74.6 | 7.71 | 80.9 | 9.17 | 88.0 | 10.77 | 95.8 | 12.15 | 98.5 | 12.42 | 102.4 | 12.71 | 105.3 | 12.81 |
| | 25 | 146.4 | 74.6 | 10.82 | 80.9 | 12.60 | 88.0 | 14.65 | 95.8 | 16.51 | 98.5 | 16.91 | 102.4 | 17.31 | 105.3 | 17.66 |
| | | 183.0 | 74.6 | 10.61 | 80.9 | 12.39 | 88.0 | 14.41 | 95.8 | 16.24 | 98.5 | 16.64 | 102.4 | 17.04 | 105.3 | 17.38 |
| | | 366.0 | 74.6 | 9.78 | 80.9 | 11.59 | 88.0 | 13.48 | 95.8 | 15.21 | 98.5 | 15.55 | 102.4 | 15.95 | 105.3 | 16.24 |
| | | 457.5 | 74.6 | 9.49 | 80.9 | 11.35 | 88.0 | 13.24 | 95.8 | 14.91 | 98.5 | 15.26 | 102.4 | 15.66 | 105.3 | 15.84 |
| | | 549.0 | 74.6 | 9.33 | 80.9 | 11.22 | 88.0 | 13.11 | 95.8 | 14.76 | 98.5 | 15.10 | 102.4 | 15.50 | 105.3 | 15.66 |
| | 30 | 146.4 | 74.6 | 13.35 | 80.9 | 15.50 | 88.0 | 18.08 | 95.8 | 20.31 | 98.5 | 20.82 | 102.4 | 21.32 | 105.3 | 21.72 |
| | | 183.0 | 74.6 | 13.08 | 80.9 | 15.26 | 88.0 | 17.76 | 95.8 | 19.99 | 98.5 | 20.49 | 102.4 | 20.98 | 105.3 | 21.37 |
| | | 366.0 | 74.6 | 11.99 | 80.9 | 14.27 | 88.0 | 16.59 | 95.8 | 18.71 | 98.5 | 19.14 | 102.4 | 19.65 | 105.3 | 19.99 |
| | | 457.5 | 74.6 | 11.70 | 80.9 | 13.96 | 88.0 | 16.24 | 95.8 | 18.32 | 98.5 | 18.80 | 102.4 | 19.25 | 105.3 | 19.46 |
| | | 549.0 | 74.6 | 11.56 | 80.9 | 13.82 | 88.0 | 16.06 | 95.8 | 18.11 | 98.5 | 18.64 | 102.4 | 19.06 | 105.3 | 19.17 |
| | 35 | 146.4 | 72.5 | 14.41 | 78.7 | 16.70 | 85.8 | 19.46 | 93.1 | 21.93 | 95.8 | 22.44 | 99.6 | 22.97 | 102.4 | 23.42 |
| | | 183.0 | 72.5 | 14.12 | 78.7 | 16.43 | 85.8 | 19.14 | 93.1 | 21.56 | 95.8 | 22.07 | 99.6 | 22.60 | 102.4 | 23.05 |
| | | 366.0 | 72.5 | 12.98 | 78.7 | 15.39 | 85.8 | 17.92 | 93.1 | 20.18 | 95.8 | 20.63 | 99.6 | 21.19 | 102.4 | 21.56 |
| | | 457.5 | 72.5 | 12.58 | 78.7 | 15.05 | 85.8 | 17.52 | 93.1 | 19.80 | 95.8 | 20.29 | 99.6 | 20.79 | 102.4 | 20.98 |
| | | 549.0 | 72.5 | 12.39 | 78.7 | 14.89 | 85.8 | 17.33 | 93.1 | 19.59 | 95.8 | 20.12 | 99.6 | 20.58 | 102.4 | 20.68 |
| | 40 | 146.4 | 70.6 | 16.51 | 76.3 | 19.22 | 83.3 | 22.38 | 90.4 | 25.20 | 93.1 | 25.79 | 96.9 | 26.43 | 99.4 | 26.88 |
| | | 183.0 | 70.6 | 16.19 | 76.3 | 18.90 | 83.3 | 22.01 | 90.4 | 24.78 | 93.1 | 25.36 | 96.9 | 26.02 | 99.4 | 26.45 |
| | | 366.0 | 70.6 | 14.91 | 76.3 | 17.68 | 83.3 | 20.58 | 90.4 | 23.15 | 93.1 | 23.74 | 96.9 | 24.33 | 99.4 | 24.78 |
| | | 457.5 | 70.6 | 14.46 | 76.3 | 17.28 | 83.3 | 20.15 | 90.4 | 22.70 | 93.1 | 23.29 | 96.9 | 23.90 | 99.4 | 24.14 |
| | | 549.0 | 70.6 | 14.25 | 76.3 | 17.07 | 83.3 | 19.91 | 90.4 | 22.49 | 93.1 | 23.08 | 96.9 | 23.66 | 99.4 | 23.82 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 146.4 | 68.4 | 18.63 | 74.1 | 21.74 | 80.6 | 25.28 | 87.7 | 28.47 | 90.4 | 29.14 | 93.9 | 29.91 | 96.6 | 30.33 |
| | | 183.0 | 68.4 | 18.26 | 74.1 | 21.37 | 80.6 | 24.88 | 87.7 | 27.99 | 90.4 | 28.68 | 93.9 | 29.43 | 96.6 | 29.86 |
| | | 366.0 | 68.4 | 16.83 | 74.1 | 19.94 | 80.6 | 23.26 | 87.7 | 26.11 | 90.4 | 26.85 | 93.9 | 27.49 | 96.6 | 27.99 |
| | | 457.5 | 68.4 | 16.35 | 74.1 | 19.49 | 80.6 | 22.76 | 87.7 | 25.63 | 90.4 | 26.32 | 93.9 | 27.01 | 96.6 | 27.30 |
| | | 549.0 | 68.4 | 16.09 | 74.1 | 19.28 | 80.6 | 22.52 | 87.7 | 25.37 | 90.4 | 26.05 | 93.9 | 26.75 | 96.6 | 26.96 |
| 80 | 10 | 146.4 | 66.3 | 4.47 | 71.9 | 5.16 | 78.4 | 6.04 | 85.2 | 6.86 | 87.7 | 6.94 | 91.0 | 7.21 | 93.7 | 7.23 |
| | | 183.0 | 66.3 | 4.36 | 71.9 | 5.08 | 78.4 | 5.93 | 85.2 | 6.75 | 87.7 | 6.83 | 91.0 | 7.07 | 93.7 | 7.12 |
| | | 366.0 | 66.3 | 3.99 | 71.9 | 4.81 | 78.4 | 5.50 | 85.2 | 6.27 | 87.7 | 6.41 | 91.0 | 6.54 | 93.7 | 6.65 |
| | | 457.5 | 66.3 | 3.88 | 71.9 | 4.65 | 78.4 | 5.42 | 85.2 | 6.06 | 87.7 | 6.22 | 91.0 | 6.46 | 93.7 | 6.56 |
| | | 549.0 | 66.3 | 3.85 | 71.9 | 4.57 | 78.4 | 5.37 | 85.2 | 5.98 | 87.7 | 6.11 | 91.0 | 6.41 | 93.7 | 6.51 |
| | 15 | 146.4 | 66.3 | 6.06 | 71.9 | 7.02 | 78.4 | 8.19 | 85.2 | 9.23 | 87.7 | 9.44 | 91.0 | 9.68 | 93.7 | 9.84 |
| | | 183.0 | 66.3 | 5.93 | 71.9 | 6.91 | 78.4 | 8.05 | 85.2 | 9.09 | 87.7 | 9.28 | 91.0 | 9.52 | 93.7 | 9.68 |
| | | 366.0 | 66.3 | 5.43 | 71.9 | 6.46 | 78.4 | 7.50 | 85.2 | 8.48 | 87.7 | 8.69 | 91.0 | 8.88 | 93.7 | 9.04 |
| | | 457.5 | 66.3 | 5.29 | 71.9 | 6.33 | 78.4 | 7.36 | 85.2 | 8.29 | 87.7 | 8.48 | 91.0 | 8.74 | 93.7 | 8.83 |
| | | 549.0 | 66.3 | 5.21 | 71.9 | 6.25 | 78.4 | 7.28 | 85.2 | 8.19 | 87.7 | 8.40 | 91.0 | 8.67 | 93.7 | 8.74 |
| | 20 | 146.4 | 66.3 | 7.45 | 71.9 | 8.69 | 78.4 | 10.08 | 85.2 | 11.33 | 87.7 | 11.64 | 91.0 | 11.88 | 93.7 | 12.15 |
| | | 183.0 | 66.3 | 7.31 | 71.9 | 8.54 | 78.4 | 9.92 | 85.2 | 11.16 | 87.7 | 11.46 | 91.0 | 11.70 | 93.7 | 11.94 |
| | | 366.0 | 66.3 | 6.72 | 71.9 | 7.95 | 78.4 | 9.28 | 85.2 | 10.47 | 87.7 | 10.71 | 91.0 | 10.95 | 93.7 | 11.16 |
| | | 457.5 | 66.3 | 6.51 | 71.9 | 7.79 | 78.4 | 9.09 | 85.2 | 10.26 | 87.7 | 10.52 | 91.0 | 10.77 | 93.7 | 10.87 |
| | | 549.0 | 66.3 | 6.41 | 71.9 | 7.73 | 78.4 | 8.99 | 85.2 | 10.18 | 87.7 | 10.42 | 91.0 | 10.66 | 93.7 | 10.71 |
| | 25 | 146.4 | 66.3 | 9.06 | 71.9 | 10.53 | 78.4 | 12.29 | 85.2 | 13.85 | 87.7 | 14.20 | 91.0 | 14.54 | 93.7 | 14.81 |
| | | 183.0 | 66.3 | 8.88 | 71.9 | 10.37 | 78.4 | 12.10 | 85.2 | 13.61 | 87.7 | 13.96 | 91.0 | 14.31 | 93.7 | 14.57 |
| | | 366.0 | 66.3 | 8.19 | 71.9 | 9.73 | 78.4 | 11.30 | 85.2 | 12.73 | 87.7 | 13.03 | 91.0 | 13.37 | 93.7 | 13.61 |
| | | 457.5 | 66.3 | 7.95 | 71.9 | 9.52 | 78.4 | 11.11 | 85.2 | 12.49 | 87.7 | 12.79 | 91.0 | 13.13 | 93.7 | 13.27 |
| | | 549.0 | 66.3 | 7.82 | 71.9 | 9.44 | 78.4 | 11.01 | 85.2 | 12.36 | 87.7 | 12.66 | 91.0 | 13.00 | 93.7 | 13.11 |
| | 30 | 146.4 | 66.3 | 11.19 | 71.9 | 13.00 | 78.4 | 15.15 | 85.2 | 17.07 | 87.7 | 17.47 | 91.0 | 17.86 | 93.7 | 18.21 |
| | | 183.0 | 66.3 | 10.95 | 71.9 | 12.79 | 78.4 | 14.91 | 85.2 | 16.78 | 87.7 | 17.18 | 91.0 | 17.57 | 93.7 | 17.92 |
| | | 366.0 | 66.3 | 10.07 | 71.9 | 11.94 | 78.4 | 13.93 | 85.2 | 15.66 | 87.7 | 16.03 | 91.0 | 16.43 | 93.7 | 16.73 |
| | | 457.5 | 66.3 | 9.78 | 71.9 | 11.70 | 78.4 | 13.61 | 85.2 | 15.34 | 87.7 | 15.74 | 91.0 | 16.14 | 93.7 | 16.30 |
| | | 549.0 | 66.3 | 9.62 | 71.9 | 11.57 | 78.4 | 13.48 | 85.2 | 15.21 | 87.7 | 15.60 | 91.0 | 16.00 | 93.7 | 16.06 |
| | 35 | 146.4 | 66.3 | 12.44 | 71.9 | 14.46 | 78.4 | 16.80 | 85.2 | 18.90 | 87.7 | 19.36 | 91.0 | 19.86 | 93.7 | 20.21 |
| | | 183.0 | 66.3 | 12.20 | 71.9 | 14.22 | 78.4 | 16.54 | 85.2 | 18.61 | 87.7 | 19.06 | 91.0 | 19.54 | 93.7 | 19.89 |
| | | 366.0 | 66.3 | 11.20 | 71.9 | 13.27 | 78.4 | 15.45 | 85.2 | 17.42 | 87.7 | 17.81 | 91.0 | 18.26 | 93.7 | 18.61 |
| | | 457.5 | 66.3 | 10.90 | 71.9 | 12.98 | 78.4 | 15.15 | 85.2 | 17.07 | 87.7 | 17.47 | 91.0 | 17.97 | 93.7 | 18.11 |
| | | 549.0 | 66.3 | 10.77 | 71.9 | 12.84 | 78.4 | 15.00 | 85.2 | 16.91 | 87.7 | 17.31 | 91.0 | 17.81 | 93.7 | 17.87 |
| | 40 | 146.4 | 66.3 | 14.70 | 71.9 | 17.12 | 78.4 | 19.91 | 85.2 | 22.44 | 87.7 | 22.92 | 91.0 | 23.53 | 93.7 | 23.93 |
| | | 183.0 | 66.3 | 14.41 | 71.9 | 16.83 | 78.4 | 19.59 | 85.2 | 22.07 | 87.7 | 22.57 | 91.0 | 23.15 | 93.7 | 23.55 |
| | | 366.0 | 66.3 | 13.27 | 71.9 | 15.69 | 78.4 | 18.32 | 85.2 | 20.63 | 87.7 | 21.13 | 91.0 | 21.67 | 93.7 | 22.07 |
| | | 457.5 | 66.3 | 12.89 | 71.9 | 15.39 | 78.4 | 17.92 | 85.2 | 20.23 | 87.7 | 20.74 | 91.0 | 21.22 | 93.7 | 21.48 |
| | | 549.0 | 66.3 | 12.68 | 71.9 | 15.26 | 78.4 | 17.73 | 85.2 | 20.04 | 87.7 | 20.53 | 91.0 | 21.00 | 93.7 | 21.19 |
| | 45 | 146.4 | 66.3 | 16.96 | 71.9 | 19.78 | 78.4 | 23.02 | 85.2 | 25.95 | 87.7 | 26.48 | 91.0 | 27.17 | 93.7 | 27.62 |
| | | 183.0 | 66.3 | 16.64 | 71.9 | 19.46 | 78.4 | 22.65 | 85.2 | 25.52 | 87.7 | 26.06 | 91.0 | 26.75 | 93.7 | 27.20 |
| | | 366.0 | 66.3 | 15.34 | 71.9 | 18.11 | 78.4 | 21.19 | 85.2 | 23.85 | 87.7 | 24.43 | 91.0 | 25.07 | 93.7 | 25.52 |
| | | 457.5 | 66.3 | 14.86 | 71.9 | 17.81 | 78.4 | 20.68 | 85.2 | 23.40 | 87.7 | 23.98 | 91.0 | 24.48 | 93.7 | 24.83 |
| | | 549.0 | 66.3 | 14.62 | 71.9 | 17.68 | 78.4 | 20.44 | 85.2 | 23.18 | 87.7 | 23.77 | 91.0 | 24.19 | 93.7 | 24.49 |
| 70 | 10 | 146.4 | 58.1 | 3.72 | 63.0 | 4.28 | 68.6 | 5.08 | 74.4 | 5.71 | 76.8 | 5.72 | 79.6 | 5.93 | 81.9 | 6.01 |
| | | 183.0 | 58.1 | 3.67 | 63.0 | 4.23 | 68.6 | 5.00 | 74.4 | 5.61 | 76.8 | 5.64 | 79.6 | 5.85 | 81.9 | 5.93 |
| | | 366.0 | 58.1 | 3.38 | 63.0 | 3.99 | 68.6 | 4.65 | 74.4 | 5.23 | 76.8 | 5.32 | 79.6 | 5.45 | 81.9 | 5.61 |
| | | 457.5 | 58.1 | 3.22 | 63.0 | 3.85 | 68.6 | 4.52 | 74.4 | 5.08 | 76.8 | 5.18 | 79.6 | 5.37 | 81.9 | 5.47 |
| | | 549.0 | 58.1 | 3.16 | 63.0 | 3.77 | 68.6 | 4.44 | 74.4 | 5.00 | 76.8 | 5.10 | 79.6 | 5.32 | 81.9 | 5.40 |
| | 15 | 146.4 | 58.1 | 5.03 | 63.0 | 5.82 | 68.6 | 6.83 | 74.4 | 7.68 | 76.8 | 7.82 | 79.6 | 8.03 | 81.9 | 8.16 |
| | | 183.0 | 58.1 | 4.94 | 63.0 | 5.72 | 68.6 | 6.72 | 74.4 | 7.55 | 76.8 | 7.71 | 79.6 | 7.90 | 81.9 | 8.05 |
| | | 366.0 | 58.1 | 4.54 | 63.0 | 5.37 | 68.6 | 6.27 | 74.4 | 7.07 | 76.8 | 7.21 | 79.6 | 7.41 | 81.9 | 7.55 |
| | | 457.5 | 58.1 | 4.39 | 63.0 | 5.24 | 68.6 | 6.12 | 74.4 | 6.91 | 76.8 | 7.07 | 79.6 | 7.26 | 81.9 | 7.36 |
| | | 549.0 | 58.1 | 4.31 | 63.0 | 5.16 | 68.6 | 6.04 | 74.4 | 6.83 | 76.8 | 6.99 | 79.6 | 7.18 | 81.9 | 7.26 |
| | 20 | 146.4 | 58.1 | 6.19 | 63.0 | 7.18 | 68.6 | 8.38 | 74.4 | 9.44 | 76.8 | 9.68 | 79.6 | 9.87 | 81.9 | 10.08 |
| | | 183.0 | 58.1 | 6.06 | 63.0 | 7.07 | 68.6 | 8.24 | 74.4 | 9.28 | 76.8 | 9.52 | 79.6 | 9.73 | 81.9 | 9.92 |
| | | 366.0 | 58.1 | 5.58 | 63.0 | 6.62 | 68.6 | 7.71 | 74.4 | 8.69 | 76.8 | 8.88 | 79.6 | 9.14 | 81.9 | 9.28 |
| | | 457.5 | 58.1 | 5.43 | 63.0 | 6.46 | 68.6 | 7.55 | 74.4 | 8.54 | 76.8 | 8.74 | 79.6 | 8.93 | 81.9 | 9.04 |
| | | 549.0 | 58.1 | 5.35 | 63.0 | 6.38 | 68.6 | 7.47 | 74.4 | 8.46 | 76.8 | 8.67 | 79.6 | 8.83 | 81.9 | 8.91 |
| | 25 | 146.4 | 58.1 | 7.55 | 63.0 | 8.77 | 68.6 | 10.23 | 74.4 | 11.54 | 76.8 | 11.78 | 79.6 | 12.10 | 81.9 | 12.29 |
| | | 183.0 | 58.1 | 7.41 | 63.0 | 8.64 | 68.6 | 10.07 | 74.4 | 11.35 | 76.8 | 11.59 | 79.6 | 11.89 | 81.9 | 12.10 |
| | | 366.0 | 58.1 | 6.81 | 63.0 | 8.11 | 68.6 | 9.44 | 74.4 | 10.61 | 76.8 | 10.87 | 79.6 | 11.11 | 81.9 | 11.30 |
| | | 457.5 | 58.1 | 6.62 | 63.0 | 7.90 | 68.6 | 9.23 | 74.4 | 10.37 | 76.8 | 10.66 | 79.6 | 10.90 | 81.9 | 11.01 |
| | | 549.0 | 58.1 | 6.51 | 63.0 | 7.79 | 68.6 | 9.14 | 74.4 | 10.24 | 76.8 | 10.56 | 79.6 | 10.82 | 81.9 | 10.87 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 146.4 | 58.1 | 9.33 | 63.0 | 10.79 | 68.6 | 12.60 | 74.4 | 14.14 | 76.8 | 14.51 | 79.6 | 14.86 | 81.9 | 15.10 |
| | | 183.0 | 58.1 | 9.14 | 63.0 | 10.61 | 68.6 | 12.39 | 74.4 | 13.93 | 76.8 | 14.27 | 79.6 | 14.62 | 81.9 | 14.86 |
| | | 366.0 | 58.1 | 8.40 | 63.0 | 9.92 | 68.6 | 11.54 | 74.4 | 13.03 | 76.8 | 13.32 | 79.6 | 13.67 | 81.9 | 13.93 |
| | | 457.5 | 58.1 | 8.14 | 63.0 | 9.73 | 68.6 | 11.35 | 74.4 | 12.79 | 76.8 | 13.08 | 79.6 | 13.43 | 81.9 | 13.58 |
| | | 549.0 | 58.1 | 8.03 | 63.0 | 9.62 | 68.6 | 11.25 | 74.4 | 12.66 | 76.8 | 12.95 | 79.6 | 13.30 | 81.9 | 13.40 |
| | 35 | 146.4 | 58.1 | 10.32 | 63.0 | 11.99 | 68.6 | 14.01 | 74.4 | 15.76 | 76.8 | 16.11 | 79.6 | 16.51 | 81.9 | 16.80 |
| | | 183.0 | 58.1 | 10.13 | 63.0 | 11.80 | 68.6 | 13.77 | 74.4 | 15.50 | 76.8 | 15.84 | 79.6 | 16.24 | 81.9 | 16.54 |
| | | 366.0 | 58.1 | 9.33 | 63.0 | 11.06 | 68.6 | 12.84 | 74.4 | 14.46 | 76.8 | 14.81 | 79.6 | 15.21 | 81.9 | 15.50 |
| | | 457.5 | 58.1 | 9.04 | 63.0 | 10.82 | 68.6 | 12.58 | 74.4 | 14.22 | 76.8 | 14.57 | 79.6 | 14.91 | 81.9 | 15.05 |
| | | 549.0 | 58.1 | 8.88 | 63.0 | 10.69 | 68.6 | 12.47 | 74.4 | 14.09 | 76.8 | 14.44 | 79.6 | 14.76 | 81.9 | 14.83 |
| | 40 | 146.4 | 58.1 | 12.25 | 63.0 | 14.20 | 68.6 | 16.56 | 74.4 | 18.61 | 76.8 | 19.06 | 79.6 | 19.57 | 81.9 | 19.91 |
| | | 183.0 | 58.1 | 11.99 | 63.0 | 13.96 | 68.6 | 16.30 | 74.4 | 18.32 | 76.8 | 18.77 | 79.6 | 19.25 | 81.9 | 19.59 |
| | | 366.0 | 58.1 | 11.01 | 63.0 | 13.08 | 68.6 | 15.21 | 74.4 | 17.12 | 76.8 | 17.57 | 79.6 | 18.02 | 81.9 | 18.32 |
| | | 457.5 | 58.1 | 10.71 | 63.0 | 12.79 | 68.6 | 14.91 | 74.4 | 16.83 | 76.8 | 17.23 | 79.6 | 17.68 | 81.9 | 17.87 |
| | | 549.0 | 58.1 | 10.56 | 63.0 | 12.63 | 68.6 | 14.76 | 74.4 | 16.69 | 76.8 | 17.06 | 79.6 | 17.49 | 81.9 | 17.65 |
| | 45 | 146.4 | 58.1 | 14.17 | 63.0 | 16.40 | 68.6 | 19.12 | 74.4 | 21.46 | 76.8 | 22.01 | 79.6 | 22.62 | 81.9 | 23.05 |
| | | 183.0 | 58.1 | 13.88 | 63.0 | 16.14 | 68.6 | 18.80 | 74.4 | 21.13 | 76.8 | 21.67 | 79.6 | 22.25 | 81.9 | 22.65 |
| | | 366.0 | 58.1 | 12.68 | 63.0 | 15.10 | 68.6 | 17.57 | 74.4 | 19.80 | 76.8 | 20.34 | 79.6 | 20.84 | 81.9 | 21.13 |
| | | 457.5 | 58.1 | 12.39 | 63.0 | 14.76 | 68.6 | 17.23 | 74.4 | 19.46 | 76.8 | 19.89 | 79.6 | 20.44 | 81.9 | 20.68 |
| | | 549.0 | 58.1 | 12.25 | 63.0 | 14.59 | 68.6 | 17.06 | 74.4 | 19.27 | 76.8 | 19.67 | 79.6 | 20.23 | 81.9 | 20.47 |
| 60 | 10 | 146.4 | 49.7 | 3.03 | 54.0 | 3.48 | 58.6 | 4.01 | 63.8 | 4.54 | 65.7 | 4.65 | 68.4 | 4.81 | 70.3 | 4.81 |
| | | 183.0 | 49.7 | 2.95 | 54.0 | 3.43 | 58.6 | 3.94 | 63.8 | 4.47 | 65.7 | 4.57 | 68.4 | 4.71 | 70.3 | 4.76 |
| | | 366.0 | 49.7 | 2.66 | 54.0 | 3.19 | 58.6 | 3.64 | 63.8 | 4.18 | 65.7 | 4.17 | 68.4 | 4.31 | 70.3 | 4.47 |
| | | 457.5 | 49.7 | 2.55 | 54.0 | 3.08 | 58.6 | 3.61 | 63.8 | 4.09 | 65.7 | 4.12 | 68.4 | 4.23 | 70.3 | 4.28 |
| | | 549.0 | 49.7 | 2.50 | 54.0 | 3.03 | 58.6 | 3.59 | 63.8 | 4.04 | 65.7 | 4.10 | 68.4 | 4.17 | 70.3 | 4.17 |
| | 15 | 146.4 | 49.7 | 4.04 | 54.0 | 4.66 | 58.6 | 5.42 | 63.8 | 6.12 | 65.7 | 6.28 | 68.4 | 6.43 | 70.3 | 6.51 |
| | | 183.0 | 49.7 | 3.96 | 54.0 | 4.60 | 58.6 | 5.34 | 63.8 | 6.03 | 65.7 | 6.17 | 68.4 | 6.33 | 70.3 | 6.41 |
| | | 366.0 | 49.7 | 3.61 | 54.0 | 4.30 | 58.6 | 4.99 | 63.8 | 5.63 | 65.7 | 5.72 | 68.4 | 5.88 | 70.3 | 6.03 |
| | | 457.5 | 49.7 | 3.51 | 54.0 | 4.20 | 58.6 | 4.89 | 63.8 | 5.53 | 65.7 | 5.63 | 68.4 | 5.77 | 70.3 | 5.82 |
| | | 549.0 | 49.7 | 3.46 | 54.0 | 4.15 | 58.6 | 4.84 | 63.8 | 5.48 | 65.7 | 5.58 | 68.4 | 5.72 | 70.3 | 5.72 |
| | 20 | 146.4 | 49.7 | 4.94 | 54.0 | 5.72 | 58.6 | 6.67 | 63.8 | 7.52 | 65.7 | 7.73 | 68.4 | 7.87 | 70.3 | 8.03 |
| | | 183.0 | 49.7 | 4.84 | 54.0 | 5.63 | 58.6 | 6.57 | 63.8 | 7.41 | 65.7 | 7.60 | 68.4 | 7.76 | 70.3 | 7.90 |
| | | 366.0 | 49.7 | 4.44 | 54.0 | 5.29 | 58.6 | 6.17 | 63.8 | 6.91 | 65.7 | 7.10 | 68.4 | 7.26 | 70.3 | 7.41 |
| | | 457.5 | 49.7 | 4.34 | 54.0 | 5.18 | 58.6 | 6.03 | 63.8 | 6.81 | 65.7 | 6.96 | 68.4 | 7.15 | 70.3 | 7.21 |
| | | 549.0 | 49.7 | 4.30 | 54.0 | 5.13 | 58.6 | 5.95 | 63.8 | 6.76 | 65.7 | 6.89 | 68.4 | 7.10 | 70.3 | 7.10 |
| | 25 | 146.4 | 49.7 | 6.06 | 54.0 | 6.97 | 58.6 | 8.11 | 63.8 | 9.17 | 65.7 | 9.38 | 68.4 | 9.62 | 70.3 | 9.78 |
| | | 183.0 | 49.7 | 5.93 | 54.0 | 6.86 | 58.6 | 8.00 | 63.8 | 9.04 | 65.7 | 9.23 | 68.4 | 9.49 | 70.3 | 9.62 |
| | | 366.0 | 49.7 | 5.43 | 54.0 | 6.41 | 58.6 | 7.50 | 63.8 | 8.45 | 65.7 | 8.64 | 68.4 | 8.88 | 70.3 | 9.04 |
| | | 457.5 | 49.7 | 5.29 | 54.0 | 6.33 | 58.6 | 7.36 | 63.8 | 8.29 | 65.7 | 8.48 | 68.4 | 8.69 | 70.3 | 8.80 |
| | | 549.0 | 49.7 | 5.21 | 54.0 | 6.27 | 58.6 | 7.28 | 63.8 | 8.22 | 65.7 | 8.42 | 68.4 | 8.59 | 70.3 | 8.67 |
| | 30 | 146.4 | 49.7 | 7.41 | 54.0 | 8.64 | 58.6 | 10.03 | 63.8 | 11.30 | 65.7 | 11.54 | 68.4 | 11.83 | 70.3 | 12.04 |
| | | 183.0 | 49.7 | 7.26 | 54.0 | 8.48 | 58.6 | 9.87 | 63.8 | 11.11 | 65.7 | 11.35 | 68.4 | 11.65 | 70.3 | 11.85 |
| | | 366.0 | 49.7 | 6.67 | 54.0 | 7.90 | 58.6 | 9.23 | 63.8 | 10.37 | 65.7 | 10.61 | 68.4 | 10.90 | 70.3 | 11.11 |
| | | 457.5 | 49.7 | 6.51 | 54.0 | 7.76 | 58.6 | 9.04 | 63.8 | 10.18 | 65.7 | 10.42 | 68.4 | 10.71 | 70.3 | 10.82 |
| | | 549.0 | 49.7 | 6.44 | 54.0 | 7.68 | 58.6 | 8.93 | 63.8 | 10.07 | 65.7 | 10.32 | 68.4 | 10.61 | 70.3 | 10.66 |
| | 35 | 146.4 | 49.7 | 8.21 | 54.0 | 9.60 | 58.6 | 11.14 | 63.8 | 12.55 | 65.7 | 12.84 | 68.4 | 13.13 | 70.3 | 13.40 |
| | | 183.0 | 49.7 | 8.05 | 54.0 | 9.44 | 58.6 | 10.95 | 63.8 | 12.34 | 65.7 | 12.63 | 68.4 | 12.92 | 70.3 | 13.18 |
| | | 366.0 | 49.7 | 7.41 | 54.0 | 8.80 | 58.6 | 10.26 | 63.8 | 11.54 | 65.7 | 11.80 | 68.4 | 12.15 | 70.3 | 12.34 |
| | | 457.5 | 49.7 | 7.21 | 54.0 | 8.59 | 58.6 | 10.02 | 63.8 | 11.30 | 65.7 | 11.59 | 68.4 | 11.89 | 70.3 | 11.99 |
| | | 549.0 | 49.7 | 7.10 | 54.0 | 8.48 | 58.6 | 9.89 | 63.8 | 11.19 | 65.7 | 11.51 | 68.4 | 11.78 | 70.3 | 11.83 |
| | 40 | 146.4 | 49.7 | 9.78 | 54.0 | 11.35 | 58.6 | 13.19 | 63.8 | 14.86 | 65.7 | 15.21 | 68.4 | 15.60 | 70.3 | 15.85 |
| | | 183.0 | 49.7 | 9.57 | 54.0 | 11.16 | 58.6 | 12.98 | 63.8 | 14.62 | 65.7 | 14.96 | 68.4 | 15.34 | 70.3 | 15.60 |
| | | 366.0 | 49.7 | 8.80 | 54.0 | 10.42 | 58.6 | 12.15 | 63.8 | 13.67 | 65.7 | 13.96 | 68.4 | 14.36 | 70.3 | 14.62 |
| | | 457.5 | 49.7 | 8.54 | 54.0 | 10.21 | 58.6 | 11.89 | 63.8 | 13.37 | 65.7 | 13.72 | 68.4 | 14.06 | 70.3 | 14.22 |
| | | 549.0 | 49.7 | 8.42 | 54.0 | 10.13 | 58.6 | 11.78 | 63.8 | 13.24 | 65.7 | 13.61 | 68.4 | 13.93 | 70.3 | 14.01 |
| | 45 | 146.4 | 49.7 | 11.35 | 54.0 | 13.10 | 58.6 | 15.26 | 63.8 | 17.15 | 65.7 | 17.57 | 68.4 | 18.08 | 70.3 | 18.31 |
| | | 183.0 | 49.7 | 11.11 | 54.0 | 12.89 | 58.6 | 15.00 | 63.8 | 16.88 | 65.7 | 17.28 | 68.4 | 17.76 | 70.3 | 18.02 |
| | | 366.0 | 49.7 | 10.18 | 54.0 | 12.04 | 58.6 | 14.01 | 63.8 | 15.79 | 65.7 | 16.14 | 68.4 | 16.59 | 70.3 | 16.88 |
| | | 457.5 | 49.7 | 9.87 | 54.0 | 11.85 | 58.6 | 13.77 | 63.8 | 15.45 | 65.7 | 15.84 | 68.4 | 16.24 | 70.3 | 16.43 |
| | | 549.0 | 49.7 | 9.73 | 54.0 | 11.75 | 58.6 | 13.64 | 63.8 | 15.28 | 65.7 | 15.69 | 68.4 | 16.06 | 70.3 | 16.22 |
| 50 | 10 | 146.4 | 41.5 | 2.15 | 45.0 | 2.55 | 48.9 | 3.08 | 53.2 | 3.38 | 54.8 | 3.41 | 57.0 | 3.53 | 58.6 | 3.62 |
| | | 183.0 | 41.5 | 2.13 | 45.0 | 2.52 | 48.9 | 3.00 | 53.2 | 3.32 | 54.8 | 3.37 | 57.0 | 3.46 | 58.6 | 3.56 |
| | | 366.0 | 41.5 | 2.05 | 45.0 | 2.37 | 48.9 | 2.71 | 53.2 | 3.08 | 54.8 | 3.19 | 57.0 | 3.22 | 58.6 | 3.32 |
| | | 457.5 | 41.5 | 1.94 | 45.0 | 2.28 | 48.9 | 2.71 | 53.2 | 2.98 | 54.8 | 3.08 | 57.0 | 3.13 | 58.6 | 3.19 |
| | | 549.0 | 41.5 | 1.89 | 45.0 | 2.23 | 48.9 | 2.71 | 53.2 | 2.93 | 54.8 | 3.03 | 57.0 | 3.08 | 58.6 | 3.11 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 146.4 | 41.5 | 2.95 | 45.0 | 3.46 | 48.9 | 4.07 | 53.2 | 4.57 | 54.8 | 4.66 | 57.0 | 4.76 | 58.6 | 4.86 |
| | | 183.0 | 41.5 | 2.92 | 45.0 | 3.40 | 48.9 | 3.99 | 53.2 | 4.49 | 54.8 | 4.60 | 57.0 | 4.68 | 58.6 | 4.79 |
| | | 366.0 | 41.5 | 2.71 | 45.0 | 3.21 | 48.9 | 3.70 | 53.2 | 4.20 | 54.8 | 4.30 | 57.0 | 4.39 | 58.6 | 4.49 |
| | | 457.5 | 41.5 | 2.61 | 45.0 | 3.11 | 48.9 | 3.64 | 53.2 | 4.09 | 54.8 | 4.20 | 57.0 | 4.30 | 58.6 | 4.34 |
| | | 549.0 | 41.5 | 2.58 | 45.0 | 3.06 | 48.9 | 3.62 | 53.2 | 4.04 | 54.8 | 4.15 | 57.0 | 4.25 | 58.6 | 4.28 |
| | 20 | 146.4 | 41.5 | 3.67 | 45.0 | 4.25 | 48.9 | 4.97 | 53.2 | 5.61 | 54.8 | 5.77 | 57.0 | 5.87 | 58.6 | 5.96 |
| | | 183.0 | 41.5 | 3.61 | 45.0 | 4.20 | 48.9 | 4.89 | 53.2 | 5.53 | 54.8 | 5.69 | 57.0 | 5.77 | 58.6 | 5.88 |
| | | 366.0 | 41.5 | 3.30 | 45.0 | 3.96 | 48.9 | 4.60 | 53.2 | 5.18 | 54.8 | 5.29 | 57.0 | 5.43 | 58.6 | 5.53 |
| | | 457.5 | 41.5 | 3.21 | 45.0 | 3.85 | 48.9 | 4.49 | 53.2 | 5.08 | 54.8 | 5.18 | 57.0 | 5.34 | 58.6 | 5.37 |
| | | 549.0 | 41.5 | 3.16 | 45.0 | 3.80 | 48.9 | 4.44 | 53.2 | 5.03 | 54.8 | 5.13 | 57.0 | 5.29 | 58.6 | 5.31 |
| | 25 | 146.4 | 41.5 | 4.49 | 45.0 | 5.21 | 48.9 | 6.06 | 53.2 | 6.81 | 54.8 | 7.02 | 57.0 | 7.18 | 58.6 | 7.34 |
| | | 183.0 | 41.5 | 4.39 | 45.0 | 5.13 | 48.9 | 5.98 | 53.2 | 6.72 | 54.8 | 6.91 | 57.0 | 7.07 | 58.6 | 7.21 |
| | | 366.0 | 41.5 | 4.04 | 45.0 | 4.79 | 48.9 | 5.58 | 53.2 | 6.33 | 54.8 | 6.46 | 57.0 | 6.62 | 58.6 | 6.72 |
| | | 457.5 | 41.5 | 3.96 | 45.0 | 4.68 | 48.9 | 5.48 | 53.2 | 6.17 | 54.8 | 6.33 | 57.0 | 6.46 | 58.6 | 6.57 |
| | | 549.0 | 41.5 | 3.91 | 45.0 | 4.65 | 48.9 | 5.43 | 53.2 | 6.09 | 54.8 | 6.25 | 57.0 | 6.38 | 58.6 | 6.49 |
| | 30 | 146.4 | 41.5 | 5.53 | 45.0 | 6.41 | 48.9 | 7.47 | 53.2 | 8.43 | 54.8 | 8.64 | 57.0 | 8.83 | 58.6 | 8.98 |
| | | 183.0 | 41.5 | 5.43 | 45.0 | 6.33 | 48.9 | 7.36 | 53.2 | 8.29 | 54.8 | 8.48 | 57.0 | 8.69 | 58.6 | 8.83 |
| | | 366.0 | 41.5 | 4.99 | 45.0 | 5.93 | 48.9 | 6.86 | 53.2 | 7.76 | 54.8 | 7.95 | 57.0 | 8.14 | 58.6 | 8.29 |
| | | 457.5 | 41.5 | 4.84 | 45.0 | 5.77 | 48.9 | 6.72 | 53.2 | 7.60 | 54.8 | 7.79 | 57.0 | 8.00 | 58.6 | 8.05 |
| | | 549.0 | 41.5 | 4.76 | 45.0 | 5.69 | 48.9 | 6.64 | 53.2 | 7.52 | 54.8 | 7.73 | 57.0 | 7.92 | 58.6 | 7.92 |
| | 35 | 146.4 | 41.5 | 6.14 | 45.0 | 7.12 | 48.9 | 8.32 | 53.2 | 9.33 | 54.8 | 9.60 | 57.0 | 9.84 | 58.6 | 9.99 |
| | | 183.0 | 41.5 | 6.03 | 45.0 | 7.02 | 48.9 | 8.19 | 53.2 | 9.17 | 54.8 | 9.44 | 57.0 | 9.68 | 58.6 | 9.83 |
| | | 366.0 | 41.5 | 5.53 | 45.0 | 6.57 | 48.9 | 7.66 | 53.2 | 8.59 | 54.8 | 8.80 | 57.0 | 9.04 | 58.6 | 9.17 |
| | | 457.5 | 41.5 | 5.37 | 45.0 | 6.41 | 48.9 | 7.50 | 53.2 | 8.45 | 54.8 | 8.64 | 57.0 | 8.88 | 58.6 | 8.93 |
| | | 549.0 | 41.5 | 5.31 | 45.0 | 6.35 | 48.9 | 7.42 | 53.2 | 8.37 | 54.8 | 8.56 | 57.0 | 8.80 | 58.6 | 8.80 |
| | 40 | 146.4 | 41.5 | 7.25 | 45.0 | 8.43 | 48.9 | 9.84 | 53.2 | 11.09 | 54.8 | 11.35 | 57.0 | 11.64 | 58.6 | 11.83 |
| | | 183.0 | 41.5 | 7.10 | 45.0 | 8.29 | 48.9 | 9.68 | 53.2 | 10.90 | 54.8 | 11.16 | 57.0 | 11.46 | 58.6 | 11.65 |
| | | 366.0 | 41.5 | 6.57 | 45.0 | 7.76 | 48.9 | 9.04 | 53.2 | 10.18 | 54.8 | 10.42 | 57.0 | 10.71 | 58.6 | 10.90 |
| | | 457.5 | 41.5 | 6.38 | 45.0 | 7.60 | 48.9 | 8.88 | 53.2 | 9.97 | 54.8 | 10.21 | 57.0 | 10.52 | 58.6 | 10.61 |
| | | 549.0 | 41.5 | 6.27 | 45.0 | 7.52 | 48.9 | 8.80 | 53.2 | 9.87 | 54.8 | 10.13 | 57.0 | 10.42 | 58.6 | 10.47 |
| | 45 | 146.4 | 41.5 | 8.35 | 45.0 | 9.73 | 48.9 | 11.35 | 53.2 | 12.87 | 54.8 | 13.10 | 57.0 | 13.45 | 58.6 | 13.69 |
| | | 183.0 | 41.5 | 8.19 | 45.0 | 9.57 | 48.9 | 11.16 | 53.2 | 12.63 | 54.8 | 12.89 | 57.0 | 13.24 | 58.6 | 13.48 |
| | | 366.0 | 41.5 | 7.60 | 45.0 | 8.93 | 48.9 | 10.42 | 53.2 | 11.75 | 54.8 | 12.04 | 57.0 | 12.39 | 58.6 | 12.63 |
| | | 457.5 | 41.5 | 7.36 | 45.0 | 8.80 | 48.9 | 10.26 | 53.2 | 11.51 | 54.8 | 11.80 | 57.0 | 12.15 | 58.6 | 12.28 |
| | | 549.0 | 41.5 | 7.23 | 45.0 | 8.72 | 48.9 | 10.19 | 53.2 | 11.38 | 54.8 | 11.67 | 57.0 | 12.02 | 58.6 | 12.12 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN400BAS4

**Cooling Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 154.0 | 104.0 | 7.65 | 112.7 | 8.95 | 123.0 | 10.44 | 133.5 | 11.76 | 137.3 | 12.10 | 142.7 | 12.32 | 146.7 | 12.42 |
| | | 192.5 | 104.0 | 7.51 | 112.7 | 8.82 | 123.0 | 10.27 | 133.5 | 11.57 | 137.3 | 11.88 | 142.7 | 12.13 | 146.7 | 12.27 |
| | | 385.0 | 104.0 | 6.97 | 112.7 | 8.26 | 123.0 | 9.63 | 133.5 | 10.83 | 137.3 | 11.02 | 142.7 | 11.37 | 146.7 | 11.64 |
| | | 481.3 | 104.0 | 6.77 | 112.7 | 8.07 | 123.0 | 9.41 | 133.5 | 10.56 | 137.3 | 10.88 | 142.7 | 11.12 | 146.7 | 11.32 |
| | | 577.5 | 104.0 | 6.67 | 112.7 | 7.97 | 123.0 | 9.32 | 133.5 | 10.44 | 137.3 | 10.81 | 142.7 | 11.00 | 146.7 | 11.17 |
| | 15 | 154.0 | 102.3 | 10.10 | 111.0 | 11.74 | 120.8 | 13.69 | 131.3 | 15.43 | 135.2 | 15.82 | 140.5 | 16.16 | 144.3 | 16.41 |
| | | 192.5 | 102.3 | 9.90 | 111.0 | 11.56 | 120.8 | 13.47 | 131.3 | 15.18 | 135.2 | 15.55 | 140.5 | 15.92 | 144.3 | 16.18 |
| | | 385.0 | 102.3 | 9.12 | 111.0 | 10.83 | 120.8 | 12.59 | 131.3 | 14.20 | 135.2 | 14.52 | 140.5 | 14.94 | 144.3 | 15.23 |
| | | 481.3 | 102.3 | 8.87 | 111.0 | 10.58 | 120.8 | 12.34 | 131.3 | 13.89 | 135.2 | 14.25 | 140.5 | 14.62 | 144.3 | 14.89 |
| | | 577.5 | 102.3 | 8.73 | 111.0 | 10.44 | 120.8 | 12.20 | 131.3 | 13.74 | 135.2 | 14.13 | 140.5 | 14.47 | 144.3 | 14.69 |
| | 20 | 154.0 | 101.0 | 12.27 | 109.3 | 14.23 | 119.0 | 16.60 | 129.5 | 18.70 | 133.3 | 19.12 | 138.5 | 19.58 | 142.3 | 19.95 |
| | | 192.5 | 101.0 | 12.03 | 109.3 | 14.01 | 119.0 | 16.33 | 129.5 | 18.41 | 133.3 | 18.82 | 138.5 | 19.29 | 142.3 | 19.65 |
| | | 385.0 | 101.0 | 11.05 | 109.3 | 13.11 | 119.0 | 15.23 | 129.5 | 17.21 | 133.3 | 17.63 | 138.5 | 18.09 | 142.3 | 18.46 |
| | | 481.3 | 101.0 | 10.73 | 109.3 | 12.81 | 119.0 | 14.94 | 129.5 | 16.85 | 133.3 | 17.26 | 138.5 | 17.73 | 142.3 | 18.04 |
| | | 577.5 | 101.0 | 10.58 | 109.3 | 12.64 | 119.0 | 14.77 | 129.5 | 16.67 | 133.3 | 17.09 | 138.5 | 17.55 | 142.3 | 17.82 |
| | 25 | 154.0 | 101.0 | 15.13 | 109.3 | 17.53 | 119.0 | 20.44 | 129.5 | 23.03 | 133.3 | 23.59 | 138.5 | 24.18 | 142.3 | 24.57 |
| | | 192.5 | 101.0 | 14.82 | 109.3 | 17.26 | 119.0 | 20.12 | 129.5 | 22.66 | 133.3 | 23.23 | 138.5 | 23.79 | 142.3 | 24.20 |
| | | 385.0 | 101.0 | 13.64 | 109.3 | 16.18 | 119.0 | 18.82 | 129.5 | 21.20 | 133.3 | 21.71 | 138.5 | 22.30 | 142.3 | 22.76 |
| | | 481.3 | 101.0 | 13.27 | 109.3 | 15.82 | 119.0 | 18.46 | 129.5 | 20.78 | 133.3 | 21.32 | 138.5 | 21.88 | 142.3 | 22.25 |
| | | 577.5 | 101.0 | 13.08 | 109.3 | 15.62 | 119.0 | 18.26 | 129.5 | 20.58 | 133.3 | 21.10 | 138.5 | 21.66 | 142.3 | 21.98 |
| | 30 | 154.0 | 101.0 | 18.14 | 109.3 | 21.07 | 119.0 | 24.55 | 129.5 | 27.65 | 133.3 | 28.29 | 138.5 | 29.02 | 142.3 | 29.46 |
| | | 192.5 | 101.0 | 17.78 | 109.3 | 20.73 | 119.0 | 24.16 | 129.5 | 27.21 | 133.3 | 27.84 | 138.5 | 28.56 | 142.3 | 29.02 |
| | | 385.0 | 101.0 | 16.33 | 109.3 | 19.39 | 119.0 | 22.61 | 129.5 | 25.45 | 133.3 | 26.08 | 138.5 | 26.75 | 142.3 | 27.31 |
| | | 481.3 | 101.0 | 15.92 | 109.3 | 18.97 | 119.0 | 22.13 | 129.5 | 24.94 | 133.3 | 25.62 | 138.5 | 26.23 | 142.3 | 26.70 |
| | | 577.5 | 101.0 | 15.72 | 109.3 | 18.77 | 119.0 | 21.91 | 129.5 | 24.67 | 133.3 | 25.38 | 138.5 | 25.97 | 142.3 | 26.38 |
| | 35 | 154.0 | 90.8 | 18.36 | 98.3 | 21.34 | 107.2 | 24.81 | 116.5 | 27.99 | 120.0 | 28.60 | 124.5 | 29.34 | 128.0 | 29.85 |
| | | 192.5 | 90.8 | 17.99 | 98.3 | 21.00 | 107.2 | 24.42 | 116.5 | 27.53 | 120.0 | 28.14 | 124.5 | 28.87 | 128.0 | 29.39 |
| | | 385.0 | 90.8 | 16.53 | 98.3 | 19.61 | 107.2 | 22.86 | 116.5 | 25.72 | 120.0 | 26.38 | 124.5 | 27.06 | 128.0 | 27.58 |
| | | 481.3 | 90.8 | 16.06 | 98.3 | 19.19 | 107.2 | 22.39 | 116.5 | 25.20 | 120.0 | 25.87 | 124.5 | 26.55 | 128.0 | 27.01 |
| | | 577.5 | 90.8 | 15.84 | 98.3 | 18.97 | 107.2 | 22.17 | 116.5 | 24.94 | 120.0 | 25.62 | 124.5 | 26.28 | 128.0 | 26.72 |
| | 40 | 154.0 | 80.7 | 19.36 | 87.5 | 22.49 | 95.2 | 26.18 | 103.5 | 29.51 | 106.5 | 30.19 | 110.8 | 30.90 | 113.8 | 31.47 |
| | | 192.5 | 80.7 | 18.97 | 87.5 | 22.13 | 95.2 | 25.77 | 103.5 | 29.02 | 106.5 | 29.70 | 110.8 | 30.44 | 113.8 | 31.00 |
| | | 385.0 | 80.7 | 17.41 | 87.5 | 20.68 | 95.2 | 24.11 | 103.5 | 27.11 | 106.5 | 27.80 | 110.8 | 28.56 | 113.8 | 29.14 |
| | | 481.3 | 80.7 | 16.94 | 87.5 | 20.22 | 95.2 | 23.59 | 103.5 | 26.60 | 106.5 | 27.26 | 110.8 | 27.99 | 113.8 | 28.46 |
| | | 577.5 | 80.7 | 16.72 | 87.5 | 19.98 | 95.2 | 23.32 | 103.5 | 26.33 | 106.5 | 27.01 | 110.8 | 27.70 | 113.8 | 28.12 |
| | 45 | 154.0 | 70.5 | 20.39 | 76.5 | 23.66 | 83.2 | 27.55 | 90.5 | 31.05 | 93.2 | 31.78 | 97.0 | 32.47 | 99.7 | 33.10 |
| | | 192.5 | 70.5 | 19.95 | 76.5 | 23.27 | 83.2 | 27.11 | 90.5 | 30.54 | 93.2 | 31.27 | 97.0 | 31.98 | 99.7 | 32.61 |
| | | 385.0 | 70.5 | 18.31 | 76.5 | 21.78 | 83.2 | 25.35 | 90.5 | 28.51 | 93.2 | 29.19 | 97.0 | 30.07 | 99.7 | 30.68 |
| | | 481.3 | 70.5 | 17.82 | 76.5 | 21.25 | 83.2 | 24.79 | 90.5 | 27.99 | 93.2 | 28.68 | 97.0 | 29.44 | 99.7 | 29.92 |
| | | 577.5 | 70.5 | 17.60 | 76.5 | 21.00 | 83.2 | 24.50 | 90.5 | 27.73 | 93.2 | 28.41 | 97.0 | 29.14 | 99.7 | 29.53 |
| 120 | 10 | 154.0 | 98.5 | 7.31 | 106.7 | 8.44 | 116.0 | 9.93 | 126.3 | 11.13 | 130.2 | 11.47 | 135.2 | 11.71 | 139.0 | 11.91 |
| | | 192.5 | 98.5 | 7.16 | 106.7 | 8.31 | 116.0 | 9.76 | 126.3 | 10.95 | 130.2 | 11.27 | 135.2 | 11.51 | 139.0 | 11.71 |
| | | 385.0 | 98.5 | 6.55 | 106.7 | 7.75 | 116.0 | 9.05 | 126.3 | 10.27 | 130.2 | 10.46 | 135.2 | 10.76 | 139.0 | 10.90 |
| | | 481.3 | 98.5 | 6.46 | 106.7 | 7.60 | 116.0 | 8.97 | 126.3 | 10.05 | 130.2 | 10.25 | 135.2 | 10.56 | 139.0 | 10.71 |
| | | 577.5 | 98.5 | 6.41 | 106.7 | 7.53 | 116.0 | 8.92 | 126.3 | 9.95 | 130.2 | 10.15 | 135.2 | 10.46 | 139.0 | 10.61 |
| | 15 | 154.0 | 97.5 | 9.68 | 105.5 | 11.22 | 114.8 | 13.13 | 125.0 | 14.74 | 128.7 | 15.13 | 133.5 | 15.50 | 137.3 | 15.75 |
| | | 192.5 | 97.5 | 9.49 | 105.5 | 11.05 | 114.8 | 12.91 | 125.0 | 14.52 | 128.7 | 14.89 | 133.5 | 15.23 | 137.3 | 15.50 |
| | | 385.0 | 97.5 | 8.70 | 105.5 | 10.32 | 114.8 | 12.03 | 125.0 | 13.59 | 128.7 | 13.89 | 133.5 | 14.25 | 137.3 | 14.52 |
| | | 481.3 | 97.5 | 8.51 | 105.5 | 10.10 | 114.8 | 11.81 | 125.0 | 13.32 | 128.7 | 13.64 | 133.5 | 14.01 | 137.3 | 14.20 |
| | | 577.5 | 97.5 | 8.41 | 105.5 | 10.00 | 114.8 | 11.71 | 125.0 | 13.20 | 128.7 | 13.50 | 133.5 | 13.86 | 137.3 | 14.06 |
| | 20 | 154.0 | 96.5 | 11.81 | 104.5 | 13.69 | 113.7 | 15.97 | 123.7 | 17.97 | 127.2 | 18.38 | 132.2 | 18.85 | 136.0 | 19.17 |
| | | 192.5 | 96.5 | 11.56 | 104.5 | 13.47 | 113.7 | 15.70 | 123.7 | 17.68 | 127.2 | 18.09 | 132.2 | 18.56 | 136.0 | 18.87 |
| | | 385.0 | 96.5 | 10.63 | 104.5 | 12.59 | 113.7 | 14.67 | 123.7 | 16.53 | 127.2 | 16.94 | 132.2 | 17.36 | 136.0 | 17.73 |
| | | 481.3 | 96.5 | 10.32 | 104.5 | 12.34 | 113.7 | 14.35 | 123.7 | 16.23 | 127.2 | 16.65 | 132.2 | 17.06 | 136.0 | 17.31 |
| | | 577.5 | 96.5 | 10.17 | 104.5 | 12.20 | 113.7 | 14.20 | 123.7 | 16.06 | 127.2 | 16.48 | 132.2 | 16.89 | 136.0 | 17.11 |
| | 25 | 154.0 | 96.5 | 14.50 | 104.5 | 16.80 | 113.7 | 19.61 | 123.7 | 22.08 | 127.2 | 22.61 | 132.2 | 23.18 | 136.0 | 23.59 |
| | | 192.5 | 96.5 | 14.20 | 104.5 | 16.53 | 113.7 | 19.29 | 123.7 | 21.71 | 127.2 | 22.25 | 132.2 | 22.81 | 136.0 | 23.23 |
| | | 385.0 | 96.5 | 13.06 | 104.5 | 15.50 | 113.7 | 18.04 | 123.7 | 20.32 | 127.2 | 20.78 | 132.2 | 21.37 | 136.0 | 21.78 |
| | | 481.3 | 96.5 | 12.71 | 104.5 | 15.13 | 113.7 | 17.68 | 123.7 | 19.90 | 127.2 | 20.42 | 132.2 | 20.95 | 136.0 | 21.25 |
| | | 577.5 | 96.5 | 12.52 | 104.5 | 14.96 | 113.7 | 17.50 | 123.7 | 19.70 | 127.2 | 20.24 | 132.2 | 20.73 | 136.0 | 21.00 |
| | 30 | 154.0 | 96.5 | 17.50 | 104.5 | 20.34 | 113.7 | 23.71 | 123.7 | 26.72 | 127.2 | 27.36 | 132.2 | 28.02 | 136.0 | 28.48 |
| | | 192.5 | 96.5 | 17.16 | 104.5 | 20.00 | 113.7 | 23.32 | 123.7 | 26.28 | 127.2 | 26.92 | 132.2 | 27.58 | 136.0 | 28.04 |
| | | 385.0 | 96.5 | 15.82 | 104.5 | 18.70 | 113.7 | 21.83 | 123.7 | 24.57 | 127.2 | 25.13 | 132.2 | 25.82 | 136.0 | 26.33 |
| | | 481.3 | 96.5 | 15.35 | 104.5 | 18.31 | 113.7 | 21.37 | 123.7 | 24.06 | 127.2 | 24.67 | 132.2 | 25.35 | 136.0 | 25.72 |
| | | 577.5 | 96.5 | 15.11 | 104.5 | 18.09 | 113.7 | 21.12 | 123.7 | 23.79 | 127.2 | 24.45 | 132.2 | 25.11 | 136.0 | 25.40 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 154.0 | 88.2 | 17.92 | 95.5 | 20.88 | 104.0 | 24.30 | 113.0 | 27.33 | 116.5 | 28.02 | 121.0 | 28.70 | 124.5 | 29.24 |
| | | 192.5 | 88.2 | 17.58 | 95.5 | 20.54 | 104.0 | 23.91 | 113.0 | 26.92 | 116.5 | 27.58 | 121.0 | 28.26 | 124.5 | 28.77 |
| | | 385.0 | 88.2 | 16.18 | 95.5 | 19.19 | 104.0 | 22.35 | 113.0 | 25.20 | 116.5 | 25.82 | 121.0 | 26.50 | 124.5 | 26.96 |
| | | 481.3 | 88.2 | 15.77 | 95.5 | 18.77 | 104.0 | 21.88 | 113.0 | 24.67 | 116.5 | 25.30 | 121.0 | 25.97 | 124.5 | 26.33 |
| | | 577.5 | 88.2 | 15.55 | 95.5 | 18.56 | 104.0 | 21.64 | 113.0 | 24.42 | 116.5 | 25.04 | 121.0 | 25.72 | 124.5 | 26.04 |
| | 40 | 154.0 | 80.0 | 19.29 | 86.7 | 22.44 | 94.5 | 26.13 | 102.7 | 29.46 | 105.5 | 30.14 | 109.8 | 30.86 | 113.0 | 31.44 |
| | | 192.5 | 80.0 | 18.92 | 86.7 | 22.08 | 94.5 | 25.72 | 102.7 | 28.97 | 105.5 | 29.66 | 109.8 | 30.39 | 113.0 | 30.95 |
| | | 385.0 | 80.0 | 17.41 | 86.7 | 20.63 | 94.5 | 24.06 | 102.7 | 27.11 | 105.5 | 27.73 | 109.8 | 28.46 | 113.0 | 29.02 |
| | | 481.3 | 80.0 | 16.94 | 86.7 | 20.22 | 94.5 | 23.59 | 102.7 | 26.55 | 105.5 | 27.21 | 109.8 | 27.94 | 113.0 | 28.36 |
| | | 577.5 | 80.0 | 16.72 | 86.7 | 20.02 | 94.5 | 23.35 | 102.7 | 26.26 | 105.5 | 26.96 | 109.8 | 27.68 | 113.0 | 28.02 |
| | 45 | 154.0 | 72.0 | 20.68 | 77.8 | 24.03 | 84.8 | 27.97 | 92.2 | 31.56 | 94.7 | 32.25 | 98.5 | 33.03 | 101.5 | 33.64 |
| | | 192.5 | 72.0 | 20.27 | 77.8 | 23.64 | 84.8 | 27.53 | 92.2 | 31.05 | 94.7 | 31.73 | 98.5 | 32.51 | 101.5 | 33.13 |
| | | 385.0 | 72.0 | 18.66 | 77.8 | 22.08 | 84.8 | 25.77 | 92.2 | 29.02 | 94.7 | 29.66 | 98.5 | 30.44 | 101.5 | 31.10 |
| | | 481.3 | 72.0 | 18.14 | 77.8 | 21.66 | 84.8 | 25.30 | 92.2 | 28.41 | 94.7 | 29.14 | 98.5 | 29.92 | 101.5 | 30.39 |
| | | 577.5 | 72.0 | 17.89 | 77.8 | 21.46 | 84.8 | 25.06 | 92.2 | 28.09 | 94.7 | 28.87 | 98.5 | 29.66 | 101.5 | 30.02 |
| 110 | 10 | 154.0 | 93.0 | 6.94 | 100.5 | 8.04 | 109.5 | 9.27 | 119.0 | 10.51 | 122.7 | 10.68 | 127.7 | 11.03 | 131.0 | 11.17 |
| | | 192.5 | 93.0 | 6.80 | 100.5 | 7.90 | 109.5 | 9.14 | 119.0 | 10.34 | 122.7 | 10.54 | 127.7 | 10.83 | 131.0 | 10.98 |
| | | 385.0 | 93.0 | 6.26 | 100.5 | 7.34 | 109.5 | 8.58 | 119.0 | 9.70 | 122.7 | 9.95 | 127.7 | 10.07 | 131.0 | 10.29 |
| | | 481.3 | 93.0 | 6.04 | 100.5 | 7.19 | 109.5 | 8.39 | 119.0 | 9.49 | 122.7 | 9.68 | 127.7 | 9.88 | 131.0 | 10.15 |
| | | 577.5 | 93.0 | 5.94 | 100.5 | 7.12 | 109.5 | 8.29 | 119.0 | 9.39 | 122.7 | 9.56 | 127.7 | 9.78 | 131.0 | 10.07 |
| | 15 | 154.0 | 92.5 | 9.26 | 100.0 | 10.76 | 109.0 | 12.49 | 118.5 | 14.06 | 122.0 | 14.38 | 126.8 | 14.74 | 130.2 | 15.01 |
| | | 192.5 | 92.5 | 9.07 | 100.0 | 10.58 | 109.0 | 12.30 | 118.5 | 13.84 | 122.0 | 14.15 | 126.8 | 14.52 | 130.2 | 14.77 |
| | | 385.0 | 92.5 | 8.34 | 100.0 | 9.85 | 109.0 | 11.51 | 118.5 | 12.96 | 122.0 | 13.27 | 126.8 | 13.59 | 130.2 | 13.84 |
| | | 481.3 | 92.5 | 8.09 | 100.0 | 9.63 | 109.0 | 11.25 | 118.5 | 12.71 | 122.0 | 13.01 | 126.8 | 13.32 | 130.2 | 13.52 |
| | | 577.5 | 92.5 | 7.97 | 100.0 | 9.54 | 109.0 | 11.12 | 118.5 | 12.57 | 122.0 | 12.88 | 126.8 | 13.20 | 130.2 | 13.37 |
| | 20 | 154.0 | 92.0 | 11.32 | 99.5 | 13.18 | 108.5 | 15.33 | 117.8 | 17.23 | 121.3 | 17.65 | 126.0 | 18.07 | 129.5 | 18.43 |
| | | 192.5 | 92.0 | 11.10 | 99.5 | 12.96 | 108.5 | 15.08 | 117.8 | 16.94 | 121.3 | 17.36 | 126.0 | 17.78 | 129.5 | 18.14 |
| | | 385.0 | 92.0 | 10.22 | 99.5 | 12.08 | 108.5 | 14.11 | 117.8 | 15.87 | 121.3 | 16.23 | 126.0 | 16.70 | 129.5 | 17.01 |
| | | 481.3 | 92.0 | 9.90 | 99.5 | 11.81 | 108.5 | 13.79 | 117.8 | 15.55 | 121.3 | 15.97 | 126.0 | 16.38 | 129.5 | 16.53 |
| | | 577.5 | 92.0 | 9.75 | 99.5 | 11.69 | 108.5 | 13.64 | 117.8 | 15.40 | 121.3 | 15.84 | 126.0 | 16.23 | 129.5 | 16.31 |
| | 25 | 154.0 | 92.0 | 13.86 | 99.5 | 16.13 | 108.5 | 18.75 | 117.8 | 21.12 | 121.3 | 21.59 | 126.0 | 22.12 | 129.5 | 22.54 |
| | | 192.5 | 92.0 | 13.59 | 99.5 | 15.87 | 108.5 | 18.46 | 117.8 | 20.78 | 121.3 | 21.25 | 126.0 | 21.78 | 129.5 | 22.20 |
| | | 385.0 | 92.0 | 12.49 | 99.5 | 14.82 | 108.5 | 17.26 | 117.8 | 19.44 | 121.3 | 19.90 | 126.0 | 20.42 | 129.5 | 20.78 |
| | | 481.3 | 92.0 | 12.13 | 99.5 | 14.52 | 108.5 | 16.89 | 117.8 | 19.02 | 121.3 | 19.54 | 126.0 | 20.00 | 129.5 | 20.27 |
| | | 577.5 | 92.0 | 11.95 | 99.5 | 14.35 | 108.5 | 16.72 | 117.8 | 18.82 | 121.3 | 19.36 | 126.0 | 19.80 | 129.5 | 20.02 |
| | 30 | 154.0 | 92.0 | 16.87 | 99.5 | 19.66 | 108.5 | 22.86 | 117.8 | 25.77 | 121.3 | 26.33 | 126.0 | 27.02 | 129.5 | 27.50 |
| | | 192.5 | 92.0 | 16.53 | 99.5 | 19.34 | 108.5 | 22.49 | 117.8 | 25.35 | 121.3 | 25.92 | 126.0 | 26.60 | 129.5 | 27.06 |
| | | 385.0 | 92.0 | 15.23 | 99.5 | 18.04 | 108.5 | 21.05 | 117.8 | 23.69 | 121.3 | 24.25 | 126.0 | 24.89 | 129.5 | 25.35 |
| | | 481.3 | 92.0 | 14.82 | 99.5 | 17.68 | 108.5 | 20.58 | 117.8 | 23.23 | 121.3 | 23.79 | 126.0 | 24.42 | 129.5 | 24.72 |
| | | 577.5 | 92.0 | 14.62 | 99.5 | 17.50 | 108.5 | 20.34 | 117.8 | 22.98 | 121.3 | 23.57 | 126.0 | 24.18 | 129.5 | 24.42 |
| | 35 | 154.0 | 85.5 | 17.56 | 92.7 | 20.39 | 101.0 | 23.76 | 109.8 | 26.77 | 113.0 | 27.38 | 117.5 | 28.07 | 120.7 | 28.60 |
| | | 192.5 | 85.5 | 17.21 | 92.7 | 20.07 | 101.0 | 23.37 | 109.8 | 26.33 | 113.0 | 26.96 | 117.5 | 27.63 | 120.7 | 28.14 |
| | | 385.0 | 85.5 | 15.82 | 92.7 | 18.77 | 101.0 | 21.88 | 109.8 | 24.62 | 113.0 | 25.25 | 117.5 | 25.87 | 120.7 | 26.33 |
| | | 481.3 | 85.5 | 15.40 | 92.7 | 18.36 | 101.0 | 21.42 | 109.8 | 24.16 | 113.0 | 24.72 | 117.5 | 25.40 | 120.7 | 25.72 |
| | | 577.5 | 85.5 | 15.18 | 92.7 | 18.14 | 101.0 | 21.17 | 109.8 | 23.93 | 113.0 | 24.47 | 117.5 | 25.18 | 120.7 | 25.40 |
| | 40 | 154.0 | 79.3 | 19.31 | 85.8 | 22.39 | 93.7 | 26.14 | 101.7 | 29.39 | 104.7 | 30.09 | 109.0 | 30.81 | 111.8 | 31.39 |
| | | 192.5 | 79.3 | 18.92 | 85.8 | 22.03 | 93.7 | 25.72 | 101.7 | 28.92 | 104.7 | 29.61 | 109.0 | 30.32 | 111.8 | 30.90 |
| | | 385.0 | 79.3 | 17.36 | 85.8 | 20.63 | 93.7 | 24.01 | 101.7 | 27.06 | 104.7 | 27.68 | 109.0 | 28.41 | 111.8 | 28.97 |
| | | 481.3 | 79.3 | 16.89 | 85.8 | 20.17 | 93.7 | 23.54 | 101.7 | 26.55 | 104.7 | 27.16 | 109.0 | 27.89 | 111.8 | 28.26 |
| | | 577.5 | 79.3 | 16.67 | 85.8 | 19.93 | 93.7 | 23.30 | 101.7 | 26.28 | 104.7 | 26.92 | 109.0 | 27.63 | 111.8 | 27.89 |
| | 45 | 154.0 | 73.0 | 21.07 | 79.0 | 24.38 | 86.3 | 28.53 | 93.7 | 32.03 | 96.3 | 32.78 | 100.3 | 33.54 | 103.0 | 34.15 |
| | | 192.5 | 73.0 | 20.63 | 79.0 | 24.01 | 86.3 | 28.04 | 93.7 | 31.51 | 96.3 | 32.25 | 100.3 | 33.03 | 103.0 | 33.64 |
| | | 385.0 | 73.0 | 18.92 | 79.0 | 22.49 | 86.3 | 26.13 | 93.7 | 29.51 | 96.3 | 30.12 | 100.3 | 30.95 | 103.0 | 31.61 |
| | | 481.3 | 73.0 | 18.41 | 79.0 | 21.98 | 86.3 | 25.67 | 93.7 | 28.92 | 96.3 | 29.61 | 100.3 | 30.39 | 103.0 | 30.80 |
| | | 577.5 | 73.0 | 18.14 | 79.0 | 21.73 | 86.3 | 25.43 | 93.7 | 28.65 | 96.3 | 29.34 | 100.3 | 30.10 | 103.0 | 30.39 |
| 100 | 10 | 154.0 | 87.5 | 6.45 | 94.5 | 7.58 | 103.0 | 8.75 | 112.0 | 9.80 | 115.5 | 10.05 | 119.8 | 10.39 | 123.2 | 10.61 |
| | | 192.5 | 87.5 | 6.33 | 94.5 | 7.43 | 103.0 | 8.63 | 112.0 | 9.66 | 115.5 | 9.93 | 119.8 | 10.22 | 123.2 | 10.42 |
| | | 385.0 | 87.5 | 5.84 | 94.5 | 6.87 | 103.0 | 8.09 | 112.0 | 9.12 | 115.5 | 9.39 | 119.8 | 9.58 | 123.2 | 9.66 |
| | | 481.3 | 87.5 | 5.74 | 94.5 | 6.72 | 103.0 | 7.92 | 112.0 | 8.87 | 115.5 | 9.12 | 119.8 | 9.39 | 123.2 | 9.53 |
| | | 577.5 | 87.5 | 5.70 | 94.5 | 6.65 | 103.0 | 7.85 | 112.0 | 8.75 | 115.5 | 9.00 | 119.8 | 9.27 | 123.2 | 9.46 |
| | 15 | 154.0 | 87.5 | 8.78 | 94.5 | 10.22 | 103.0 | 11.91 | 112.0 | 13.37 | 115.5 | 13.69 | 119.8 | 14.06 | 123.2 | 14.33 |
| | | 192.5 | 87.5 | 8.61 | 94.5 | 10.05 | 103.0 | 11.71 | 112.0 | 13.18 | 115.5 | 13.47 | 119.8 | 13.84 | 123.2 | 14.11 |
| | | 385.0 | 87.5 | 7.92 | 94.5 | 9.39 | 103.0 | 10.93 | 112.0 | 12.34 | 115.5 | 12.64 | 119.8 | 12.96 | 123.2 | 13.18 |
| | | 481.3 | 87.5 | 7.73 | 94.5 | 9.17 | 103.0 | 10.73 | 112.0 | 12.08 | 115.5 | 12.39 | 119.8 | 12.71 | 123.2 | 12.86 |
| | | 577.5 | 87.5 | 7.63 | 94.5 | 9.07 | 103.0 | 10.63 | 112.0 | 11.95 | 115.5 | 12.27 | 119.8 | 12.57 | 123.2 | 12.71 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 154.0 | 87.5 | 10.83 | 94.5 | 12.59 | 103.0 | 14.72 | 112.0 | 16.55 | 115.5 | 16.92 | 119.8 | 17.33 | 123.2 | 17.65 |
| | | 192.5 | 87.5 | 10.63 | 94.5 | 12.39 | 103.0 | 14.47 | 112.0 | 16.28 | 115.5 | 16.65 | 119.8 | 17.06 | 123.2 | 17.36 |
| | | 385.0 | 87.5 | 9.80 | 94.5 | 11.61 | 103.0 | 13.47 | 112.0 | 15.18 | 115.5 | 15.55 | 119.8 | 15.97 | 123.2 | 16.28 |
| | | 481.3 | 87.5 | 9.49 | 94.5 | 11.35 | 103.0 | 13.23 | 112.0 | 14.94 | 115.5 | 15.30 | 119.8 | 15.65 | 123.2 | 15.82 |
| | | 577.5 | 87.5 | 9.34 | 94.5 | 11.22 | 103.0 | 13.08 | 112.0 | 14.79 | 115.5 | 15.16 | 119.8 | 15.50 | 123.2 | 15.57 |
| | 25 | 154.0 | 87.5 | 13.23 | 94.5 | 15.38 | 103.0 | 17.92 | 112.0 | 20.19 | 115.5 | 20.66 | 119.8 | 21.12 | 123.2 | 21.56 |
| | | 192.5 | 87.5 | 12.96 | 94.5 | 15.13 | 103.0 | 17.63 | 112.0 | 19.85 | 115.5 | 20.32 | 119.8 | 20.78 | 123.2 | 21.20 |
| | | 385.0 | 87.5 | 11.93 | 94.5 | 14.15 | 103.0 | 16.48 | 112.0 | 18.56 | 115.5 | 18.97 | 119.8 | 19.49 | 123.2 | 19.80 |
| | | 481.3 | 87.5 | 11.61 | 94.5 | 13.84 | 103.0 | 16.11 | 112.0 | 18.19 | 115.5 | 18.61 | 119.8 | 19.12 | 123.2 | 19.29 |
| | | 577.5 | 87.5 | 11.46 | 94.5 | 13.69 | 103.0 | 15.94 | 112.0 | 18.02 | 115.5 | 18.43 | 119.8 | 18.95 | 123.2 | 19.02 |
| | 30 | 154.0 | 87.5 | 16.28 | 94.5 | 18.92 | 103.0 | 22.03 | 112.0 | 24.82 | 115.5 | 25.40 | 119.8 | 26.04 | 123.2 | 26.50 |
| | | 192.5 | 87.5 | 15.97 | 94.5 | 18.61 | 103.0 | 21.66 | 112.0 | 24.42 | 115.5 | 24.99 | 119.8 | 25.62 | 123.2 | 26.08 |
| | | 385.0 | 87.5 | 14.67 | 94.5 | 17.36 | 103.0 | 20.27 | 112.0 | 22.81 | 115.5 | 23.32 | 119.8 | 23.96 | 123.2 | 24.37 |
| | | 481.3 | 87.5 | 14.25 | 94.5 | 17.01 | 103.0 | 19.85 | 112.0 | 22.35 | 115.5 | 22.91 | 119.8 | 23.49 | 123.2 | 23.74 |
| | | 577.5 | 87.5 | 14.06 | 94.5 | 16.82 | 103.0 | 19.65 | 112.0 | 22.10 | 115.5 | 22.71 | 119.8 | 23.25 | 123.2 | 23.44 |
| | 35 | 154.0 | 83.0 | 17.19 | 90.0 | 19.97 | 97.8 | 23.25 | 106.5 | 26.21 | 109.7 | 26.82 | 113.8 | 27.43 | 117.0 | 27.92 |
| | | 192.5 | 83.0 | 16.85 | 90.0 | 19.65 | 97.8 | 22.86 | 106.5 | 25.77 | 109.7 | 26.38 | 113.8 | 27.01 | 117.0 | 27.48 |
| | | 385.0 | 83.0 | 15.50 | 90.0 | 18.36 | 97.8 | 21.37 | 106.5 | 24.06 | 109.7 | 24.67 | 113.8 | 25.30 | 117.0 | 25.72 |
| | | 481.3 | 83.0 | 15.04 | 90.0 | 17.99 | 97.8 | 20.95 | 106.5 | 23.59 | 109.7 | 24.20 | 113.8 | 24.84 | 117.0 | 25.04 |
| | | 577.5 | 83.0 | 14.79 | 90.0 | 17.80 | 97.8 | 20.73 | 106.5 | 23.35 | 109.7 | 23.98 | 113.8 | 24.60 | 117.0 | 24.69 |
| | 40 | 154.0 | 78.5 | 19.24 | 85.0 | 22.40 | 92.7 | 26.08 | 100.8 | 29.34 | 103.8 | 30.10 | 107.8 | 30.83 | 111.0 | 31.34 |
| | | 192.5 | 78.5 | 18.87 | 85.0 | 22.03 | 92.7 | 25.67 | 100.8 | 28.87 | 103.8 | 29.61 | 107.8 | 30.32 | 111.0 | 30.85 |
| | | 385.0 | 78.5 | 17.36 | 85.0 | 20.58 | 92.7 | 24.01 | 100.8 | 27.01 | 103.8 | 27.63 | 107.8 | 28.36 | 111.0 | 28.87 |
| | | 481.3 | 78.5 | 16.89 | 85.0 | 20.17 | 92.7 | 23.49 | 100.8 | 26.50 | 103.8 | 27.16 | 107.8 | 27.84 | 111.0 | 28.09 |
| | | 577.5 | 78.5 | 16.67 | 85.0 | 19.95 | 92.7 | 23.23 | 100.8 | 26.23 | 103.8 | 26.94 | 107.8 | 27.58 | 111.0 | 27.70 |
| | 45 | 154.0 | 74.0 | 21.32 | 80.3 | 24.82 | 87.5 | 28.92 | 95.2 | 32.49 | 97.8 | 33.37 | 101.7 | 34.20 | 104.8 | 34.77 |
| | | 192.5 | 74.0 | 20.90 | 80.3 | 24.42 | 87.5 | 28.46 | 95.2 | 31.98 | 97.8 | 32.81 | 101.7 | 33.64 | 104.8 | 34.23 |
| | | 385.0 | 74.0 | 19.24 | 80.3 | 22.81 | 87.5 | 26.65 | 95.2 | 29.97 | 97.8 | 30.58 | 101.7 | 31.42 | 104.8 | 32.03 |
| | | 481.3 | 74.0 | 18.77 | 80.3 | 22.35 | 87.5 | 26.01 | 95.2 | 29.39 | 97.8 | 30.12 | 101.7 | 30.85 | 104.8 | 31.15 |
| | | 577.5 | 74.0 | 18.53 | 80.3 | 22.10 | 87.5 | 25.72 | 95.2 | 29.12 | 97.8 | 29.88 | 101.7 | 30.56 | 104.8 | 30.71 |
| 90 | 10 | 154.0 | 78.5 | 5.60 | 85.0 | 6.48 | 92.7 | 7.48 | 100.8 | 8.51 | 103.8 | 8.73 | 107.8 | 8.97 | 111.0 | 9.14 |
| | | 192.5 | 78.5 | 5.50 | 85.0 | 6.38 | 92.7 | 7.38 | 100.8 | 8.38 | 103.8 | 8.58 | 107.8 | 8.83 | 111.0 | 8.97 |
| | | 385.0 | 78.5 | 5.09 | 85.0 | 5.99 | 92.7 | 6.99 | 100.8 | 7.89 | 103.8 | 8.02 | 107.8 | 8.24 | 111.0 | 8.38 |
| | | 481.3 | 78.5 | 4.89 | 85.0 | 5.89 | 92.7 | 6.77 | 100.8 | 7.68 | 103.8 | 7.87 | 107.8 | 8.09 | 111.0 | 8.12 |
| | | 577.5 | 78.5 | 4.79 | 85.0 | 5.84 | 92.7 | 6.67 | 100.8 | 7.58 | 103.8 | 7.80 | 107.8 | 8.00 | 111.0 | 8.00 |
| | 15 | 154.0 | 78.5 | 7.55 | 85.0 | 8.80 | 92.7 | 10.22 | 100.8 | 11.54 | 103.8 | 11.79 | 107.8 | 12.13 | 111.0 | 12.32 |
| | | 192.5 | 78.5 | 7.41 | 85.0 | 8.66 | 92.7 | 10.05 | 100.8 | 11.35 | 103.8 | 11.61 | 107.8 | 11.93 | 111.0 | 12.13 |
| | | 385.0 | 78.5 | 6.85 | 85.0 | 8.09 | 92.7 | 9.44 | 100.8 | 10.63 | 103.8 | 10.88 | 107.8 | 11.15 | 111.0 | 11.35 |
| | | 481.3 | 78.5 | 6.63 | 85.0 | 7.92 | 92.7 | 9.22 | 100.8 | 10.42 | 103.8 | 10.68 | 107.8 | 10.93 | 111.0 | 11.05 |
| | | 577.5 | 78.5 | 6.53 | 85.0 | 7.85 | 92.7 | 9.12 | 100.8 | 10.32 | 103.8 | 10.58 | 107.8 | 10.83 | 111.0 | 10.88 |
| | 20 | 154.0 | 78.5 | 9.31 | 85.0 | 10.86 | 92.7 | 12.64 | 100.8 | 14.23 | 103.8 | 14.52 | 107.8 | 14.91 | 111.0 | 15.16 |
| | | 192.5 | 78.5 | 9.12 | 85.0 | 10.68 | 92.7 | 12.44 | 100.8 | 14.01 | 103.8 | 14.30 | 107.8 | 14.67 | 111.0 | 14.94 |
| | | 385.0 | 78.5 | 8.41 | 85.0 | 9.95 | 92.7 | 11.61 | 100.8 | 13.06 | 103.8 | 13.42 | 107.8 | 13.74 | 111.0 | 14.01 |
| | | 481.3 | 78.5 | 8.19 | 85.0 | 9.75 | 92.7 | 11.42 | 100.8 | 12.86 | 103.8 | 13.18 | 107.8 | 13.47 | 111.0 | 13.64 |
| | | 577.5 | 78.5 | 8.09 | 85.0 | 9.63 | 92.7 | 11.30 | 100.8 | 12.76 | 103.8 | 13.03 | 107.8 | 13.35 | 111.0 | 13.45 |
| | 25 | 154.0 | 78.5 | 11.37 | 85.0 | 13.23 | 92.7 | 15.38 | 100.8 | 17.33 | 103.8 | 17.75 | 107.8 | 18.17 | 111.0 | 18.55 |
| | | 192.5 | 78.5 | 11.15 | 85.0 | 13.01 | 92.7 | 15.13 | 100.8 | 17.06 | 103.8 | 17.48 | 107.8 | 17.89 | 111.0 | 18.24 |
| | | 385.0 | 78.5 | 10.27 | 85.0 | 12.18 | 92.7 | 14.15 | 100.8 | 15.97 | 103.8 | 16.33 | 107.8 | 16.75 | 111.0 | 17.06 |
| | | 481.3 | 78.5 | 9.95 | 85.0 | 11.93 | 92.7 | 13.89 | 100.8 | 15.65 | 103.8 | 16.01 | 107.8 | 16.43 | 111.0 | 16.65 |
| | | 577.5 | 78.5 | 9.80 | 85.0 | 11.79 | 92.7 | 13.76 | 100.8 | 15.50 | 103.8 | 15.87 | 107.8 | 16.28 | 111.0 | 16.43 |
| | 30 | 154.0 | 78.5 | 14.03 | 85.0 | 16.28 | 92.7 | 18.97 | 100.8 | 21.34 | 103.8 | 21.86 | 107.8 | 22.39 | 111.0 | 22.81 |
| | | 192.5 | 78.5 | 13.74 | 85.0 | 16.01 | 92.7 | 18.66 | 100.8 | 21.00 | 103.8 | 21.51 | 107.8 | 22.03 | 111.0 | 22.44 |
| | | 385.0 | 78.5 | 12.59 | 85.0 | 14.99 | 92.7 | 17.41 | 100.8 | 19.65 | 103.8 | 20.12 | 107.8 | 20.63 | 111.0 | 21.00 |
| | | 481.3 | 78.5 | 12.30 | 85.0 | 14.67 | 92.7 | 17.06 | 100.8 | 19.24 | 103.8 | 19.75 | 107.8 | 20.22 | 111.0 | 20.42 |
| | | 577.5 | 78.5 | 12.13 | 85.0 | 14.52 | 92.7 | 16.87 | 100.8 | 19.02 | 103.8 | 19.58 | 107.8 | 20.02 | 111.0 | 20.14 |
| | 35 | 154.0 | 76.5 | 15.13 | 82.8 | 17.53 | 90.2 | 20.44 | 98.0 | 23.03 | 101.0 | 23.55 | 104.8 | 24.13 | 107.8 | 24.60 |
| | | 192.5 | 76.5 | 14.82 | 82.8 | 17.26 | 90.2 | 20.12 | 98.0 | 22.66 | 101.0 | 23.18 | 104.8 | 23.74 | 107.8 | 24.20 |
| | | 385.0 | 76.5 | 13.64 | 82.8 | 16.18 | 90.2 | 18.82 | 98.0 | 21.20 | 101.0 | 21.66 | 104.8 | 22.25 | 107.8 | 22.66 |
| | | 481.3 | 76.5 | 13.23 | 82.8 | 15.82 | 90.2 | 18.41 | 98.0 | 20.78 | 101.0 | 21.32 | 104.8 | 21.83 | 107.8 | 22.03 |
| | | 577.5 | 76.5 | 13.01 | 82.8 | 15.62 | 90.2 | 18.19 | 98.0 | 20.58 | 101.0 | 21.12 | 104.8 | 21.61 | 107.8 | 21.73 |
| | 40 | 154.0 | 74.2 | 17.34 | 80.5 | 20.19 | 87.5 | 23.50 | 95.2 | 26.45 | 98.0 | 27.09 | 102.0 | 27.77 | 104.7 | 28.24 |
| | | 192.5 | 74.2 | 17.01 | 80.5 | 19.85 | 87.5 | 23.13 | 95.2 | 26.01 | 98.0 | 26.65 | 102.0 | 27.31 | 104.7 | 27.80 |
| | | 385.0 | 74.2 | 15.65 | 80.5 | 18.56 | 87.5 | 21.61 | 95.2 | 24.30 | 98.0 | 24.94 | 102.0 | 25.55 | 104.7 | 26.01 |
| | | 481.3 | 74.2 | 15.18 | 80.5 | 18.14 | 87.5 | 21.15 | 95.2 | 23.84 | 98.0 | 24.47 | 102.0 | 25.09 | 104.7 | 25.35 |
| | | 577.5 | 74.2 | 14.96 | 80.5 | 17.94 | 87.5 | 20.93 | 95.2 | 23.62 | 98.0 | 24.23 | 102.0 | 24.86 | 104.7 | 25.01 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 154.0 | 72.0 | 19.56 | 78.0 | 22.83 | 85.0 | 26.55 | 92.5 | 29.90 | 95.0 | 30.61 | 99.0 | 31.41 | 101.5 | 31.86 |
| | | 192.5 | 72.0 | 19.19 | 78.0 | 22.44 | 85.0 | 26.13 | 92.5 | 29.39 | 95.0 | 30.12 | 99.0 | 30.90 | 101.5 | 31.37 |
| | | 385.0 | 72.0 | 17.68 | 78.0 | 20.95 | 85.0 | 24.42 | 92.5 | 27.43 | 95.0 | 28.21 | 99.0 | 28.87 | 101.5 | 29.39 |
| | | 481.3 | 72.0 | 17.16 | 78.0 | 20.49 | 85.0 | 23.91 | 92.5 | 26.92 | 95.0 | 27.63 | 99.0 | 28.36 | 101.5 | 28.68 |
| | | 577.5 | 72.0 | 16.89 | 78.0 | 20.24 | 85.0 | 23.64 | 92.5 | 26.65 | 95.0 | 27.36 | 99.0 | 28.09 | 101.5 | 28.31 |
| 80 | 10 | 154.0 | 69.8 | 4.69 | 75.8 | 5.40 | 82.5 | 6.36 | 89.5 | 7.21 | 92.2 | 7.29 | 95.8 | 7.58 | 98.5 | 7.60 |
| | | 192.5 | 69.8 | 4.59 | 75.8 | 5.33 | 82.5 | 6.23 | 89.5 | 7.09 | 92.2 | 7.19 | 95.8 | 7.43 | 98.5 | 7.48 |
| | | 385.0 | 69.8 | 4.18 | 75.8 | 5.04 | 82.5 | 5.77 | 89.5 | 6.58 | 92.2 | 6.72 | 95.8 | 6.87 | 98.5 | 6.97 |
| | | 481.3 | 69.8 | 4.08 | 75.8 | 4.89 | 82.5 | 5.67 | 89.5 | 6.38 | 92.2 | 6.53 | 95.8 | 6.79 | 98.5 | 6.89 |
| | | 577.5 | 69.8 | 4.04 | 75.8 | 4.81 | 82.5 | 5.63 | 89.5 | 6.28 | 92.2 | 6.43 | 95.8 | 6.75 | 98.5 | 6.85 |
| | 15 | 154.0 | 69.8 | 6.36 | 75.8 | 7.38 | 82.5 | 8.60 | 89.5 | 9.70 | 92.2 | 9.90 | 95.8 | 10.17 | 98.5 | 10.34 |
| | | 192.5 | 69.8 | 6.21 | 75.8 | 7.26 | 82.5 | 8.46 | 89.5 | 9.54 | 92.2 | 9.75 | 95.8 | 10.00 | 98.5 | 10.17 |
| | | 385.0 | 69.8 | 5.70 | 75.8 | 6.80 | 82.5 | 7.87 | 89.5 | 8.92 | 92.2 | 9.12 | 95.8 | 9.34 | 98.5 | 9.49 |
| | | 481.3 | 69.8 | 5.55 | 75.8 | 6.63 | 82.5 | 7.73 | 89.5 | 8.70 | 92.2 | 8.92 | 95.8 | 9.17 | 98.5 | 9.29 |
| | | 577.5 | 69.8 | 5.48 | 75.8 | 6.55 | 82.5 | 7.65 | 89.5 | 8.61 | 92.2 | 8.80 | 95.8 | 9.10 | 98.5 | 9.17 |
| | 20 | 154.0 | 69.8 | 7.82 | 75.8 | 9.12 | 82.5 | 10.59 | 89.5 | 11.90 | 92.2 | 12.22 | 95.8 | 12.49 | 98.5 | 12.76 |
| | | 192.5 | 69.8 | 7.68 | 75.8 | 8.97 | 82.5 | 10.42 | 89.5 | 11.71 | 92.2 | 12.03 | 95.8 | 12.30 | 98.5 | 12.54 |
| | | 385.0 | 69.8 | 7.04 | 75.8 | 8.34 | 82.5 | 9.75 | 89.5 | 11.00 | 92.2 | 11.25 | 95.8 | 11.51 | 98.5 | 11.71 |
| | | 481.3 | 69.8 | 6.85 | 75.8 | 8.19 | 82.5 | 9.54 | 89.5 | 10.78 | 92.2 | 11.05 | 95.8 | 11.30 | 98.5 | 11.42 |
| | | 577.5 | 69.8 | 6.75 | 75.8 | 8.12 | 82.5 | 9.44 | 89.5 | 10.68 | 92.2 | 10.93 | 95.8 | 11.20 | 98.5 | 11.25 |
| | 25 | 154.0 | 69.8 | 9.51 | 75.8 | 11.05 | 82.5 | 12.91 | 89.5 | 14.55 | 92.2 | 14.91 | 95.8 | 15.28 | 98.5 | 15.55 |
| | | 192.5 | 69.8 | 9.34 | 75.8 | 10.88 | 82.5 | 12.71 | 89.5 | 14.30 | 92.2 | 14.67 | 95.8 | 15.04 | 98.5 | 15.30 |
| | | 385.0 | 69.8 | 8.61 | 75.8 | 10.22 | 82.5 | 11.88 | 89.5 | 13.37 | 92.2 | 13.69 | 95.8 | 14.06 | 98.5 | 14.30 |
| | | 481.3 | 69.8 | 8.34 | 75.8 | 10.00 | 82.5 | 11.66 | 89.5 | 13.11 | 92.2 | 13.42 | 95.8 | 13.79 | 98.5 | 13.94 |
| | | 577.5 | 69.8 | 8.22 | 75.8 | 9.90 | 82.5 | 11.56 | 89.5 | 12.98 | 92.2 | 13.30 | 95.8 | 13.67 | 98.5 | 13.76 |
| | 30 | 154.0 | 69.8 | 11.74 | 75.8 | 13.64 | 82.5 | 15.92 | 89.5 | 17.92 | 92.2 | 18.34 | 95.8 | 18.75 | 98.5 | 19.14 |
| | | 192.5 | 69.8 | 11.51 | 75.8 | 13.42 | 82.5 | 15.65 | 89.5 | 17.63 | 92.2 | 18.04 | 95.8 | 18.46 | 98.5 | 18.82 |
| | | 385.0 | 69.8 | 10.58 | 75.8 | 12.54 | 82.5 | 14.62 | 89.5 | 16.43 | 92.2 | 16.85 | 95.8 | 17.26 | 98.5 | 17.58 |
| | | 481.3 | 69.8 | 10.27 | 75.8 | 12.30 | 82.5 | 14.30 | 89.5 | 16.11 | 92.2 | 16.53 | 95.8 | 16.94 | 98.5 | 17.11 |
| | | 577.5 | 69.8 | 10.12 | 75.8 | 12.15 | 82.5 | 14.16 | 89.5 | 15.97 | 92.2 | 16.38 | 95.8 | 16.80 | 98.5 | 16.87 |
| | 35 | 154.0 | 69.8 | 13.06 | 75.8 | 15.18 | 82.5 | 17.65 | 89.5 | 19.85 | 92.2 | 20.34 | 95.8 | 20.88 | 98.5 | 21.22 |
| | | 192.5 | 69.8 | 12.81 | 75.8 | 14.94 | 82.5 | 17.36 | 89.5 | 19.54 | 92.2 | 20.00 | 95.8 | 20.54 | 98.5 | 20.90 |
| | | 385.0 | 69.8 | 11.76 | 75.8 | 13.94 | 82.5 | 16.23 | 89.5 | 18.31 | 92.2 | 18.70 | 95.8 | 19.19 | 98.5 | 19.54 |
| | | 481.3 | 69.8 | 11.46 | 75.8 | 13.64 | 82.5 | 15.92 | 89.5 | 17.94 | 92.2 | 18.36 | 95.8 | 18.87 | 98.5 | 19.02 |
| | | 577.5 | 69.8 | 11.30 | 75.8 | 13.47 | 82.5 | 15.77 | 89.5 | 17.75 | 92.2 | 18.17 | 95.8 | 18.73 | 98.5 | 18.77 |
| | 40 | 154.0 | 69.8 | 15.43 | 75.8 | 17.97 | 82.5 | 20.93 | 89.5 | 23.55 | 92.2 | 24.08 | 95.8 | 24.71 | 98.5 | 25.13 |
| | | 192.5 | 69.8 | 15.13 | 75.8 | 17.68 | 82.5 | 20.58 | 89.5 | 23.18 | 92.2 | 23.69 | 95.8 | 24.30 | 98.5 | 24.72 |
| | | 385.0 | 69.8 | 13.94 | 75.8 | 16.48 | 82.5 | 19.24 | 89.5 | 21.66 | 92.2 | 22.20 | 95.8 | 22.76 | 98.5 | 23.18 |
| | | 481.3 | 69.8 | 13.52 | 75.8 | 16.18 | 82.5 | 18.82 | 89.5 | 21.25 | 92.2 | 21.78 | 95.8 | 22.30 | 98.5 | 22.54 |
| | | 577.5 | 69.8 | 13.32 | 75.8 | 16.01 | 82.5 | 18.61 | 89.5 | 21.05 | 92.2 | 21.56 | 95.8 | 22.05 | 98.5 | 22.25 |
| | 45 | 154.0 | 69.8 | 17.82 | 75.8 | 20.78 | 82.5 | 24.18 | 89.5 | 27.24 | 92.2 | 27.80 | 95.8 | 28.53 | 98.5 | 29.02 |
| | | 192.5 | 69.8 | 17.48 | 75.8 | 20.42 | 82.5 | 23.79 | 89.5 | 26.80 | 92.2 | 27.38 | 95.8 | 28.09 | 98.5 | 28.56 |
| | | 385.0 | 69.8 | 16.11 | 75.8 | 19.02 | 82.5 | 22.25 | 89.5 | 25.04 | 92.2 | 25.67 | 95.8 | 26.33 | 98.5 | 26.80 |
| | | 481.3 | 69.8 | 15.60 | 75.8 | 18.70 | 82.5 | 21.71 | 89.5 | 24.57 | 92.2 | 25.20 | 95.8 | 25.72 | 98.5 | 26.08 |
| | | 577.5 | 69.8 | 15.35 | 75.8 | 18.56 | 82.5 | 21.46 | 89.5 | 24.35 | 92.2 | 24.96 | 95.8 | 25.40 | 98.5 | 25.72 |
| 70 | 10 | 154.0 | 61.2 | 3.91 | 66.3 | 4.50 | 72.2 | 5.33 | 78.5 | 5.99 | 80.7 | 6.01 | 83.8 | 6.23 | 86.2 | 6.33 |
| | | 192.5 | 61.2 | 3.84 | 66.3 | 4.45 | 72.2 | 5.23 | 78.5 | 5.89 | 80.7 | 5.94 | 83.8 | 6.14 | 86.2 | 6.23 |
| | | 385.0 | 61.2 | 3.54 | 66.3 | 4.18 | 72.2 | 4.89 | 78.5 | 5.50 | 80.7 | 5.58 | 83.8 | 5.74 | 86.2 | 5.89 |
| | | 481.3 | 61.2 | 3.40 | 66.3 | 4.03 | 72.2 | 4.74 | 78.5 | 5.33 | 80.7 | 5.43 | 83.8 | 5.65 | 86.2 | 5.74 |
| | | 577.5 | 61.2 | 3.30 | 66.3 | 3.96 | 72.2 | 4.67 | 78.5 | 5.26 | 80.7 | 5.35 | 83.8 | 5.60 | 86.2 | 5.67 |
| | 15 | 154.0 | 61.2 | 5.28 | 66.3 | 6.11 | 72.2 | 7.16 | 78.5 | 8.07 | 80.7 | 8.22 | 83.8 | 8.43 | 86.2 | 8.58 |
| | | 192.5 | 61.2 | 5.18 | 66.3 | 6.01 | 72.2 | 7.04 | 78.5 | 7.92 | 80.7 | 8.09 | 83.8 | 8.29 | 86.2 | 8.46 |
| | | 385.0 | 61.2 | 4.77 | 66.3 | 5.65 | 72.2 | 6.58 | 78.5 | 7.41 | 80.7 | 7.58 | 83.8 | 7.77 | 86.2 | 7.92 |
| | | 481.3 | 61.2 | 4.62 | 66.3 | 5.50 | 72.2 | 6.43 | 78.5 | 7.26 | 80.7 | 7.41 | 83.8 | 7.63 | 86.2 | 7.73 |
| | | 577.5 | 61.2 | 4.55 | 66.3 | 5.43 | 72.2 | 6.36 | 78.5 | 7.19 | 80.7 | 7.33 | 83.8 | 7.55 | 86.2 | 7.63 |
| | 20 | 154.0 | 61.2 | 6.50 | 66.3 | 7.53 | 72.2 | 8.80 | 78.5 | 9.90 | 80.7 | 10.17 | 83.8 | 10.37 | 86.2 | 10.59 |
| | | 192.5 | 61.2 | 6.38 | 66.3 | 7.41 | 72.2 | 8.66 | 78.5 | 9.75 | 80.7 | 10.00 | 83.8 | 10.22 | 86.2 | 10.42 |
| | | 385.0 | 61.2 | 5.87 | 66.3 | 6.94 | 72.2 | 8.09 | 78.5 | 9.12 | 80.7 | 9.34 | 83.8 | 9.58 | 86.2 | 9.75 |
| | | 481.3 | 61.2 | 5.70 | 66.3 | 6.80 | 72.2 | 7.92 | 78.5 | 8.97 | 80.7 | 9.17 | 83.8 | 9.39 | 86.2 | 9.49 |
| | | 577.5 | 61.2 | 5.62 | 66.3 | 6.72 | 72.2 | 7.85 | 78.5 | 8.90 | 80.7 | 9.10 | 83.8 | 9.29 | 86.2 | 9.36 |
| | 25 | 154.0 | 61.2 | 7.92 | 66.3 | 9.22 | 72.2 | 10.76 | 78.5 | 12.13 | 80.7 | 12.37 | 83.8 | 12.71 | 86.2 | 12.91 |
| | | 192.5 | 61.2 | 7.77 | 66.3 | 9.07 | 72.2 | 10.58 | 78.5 | 11.93 | 80.7 | 12.18 | 83.8 | 12.49 | 86.2 | 12.71 |
| | | 385.0 | 61.2 | 7.16 | 66.3 | 8.51 | 72.2 | 9.90 | 78.5 | 11.15 | 80.7 | 11.42 | 83.8 | 11.66 | 86.2 | 11.88 |
| | | 481.3 | 61.2 | 6.94 | 66.3 | 8.29 | 72.2 | 9.70 | 78.5 | 10.88 | 80.7 | 11.20 | 83.8 | 11.46 | 86.2 | 11.56 |
| | | 577.5 | 61.2 | 6.85 | 66.3 | 8.19 | 72.2 | 9.58 | 78.5 | 10.76 | 80.7 | 11.10 | 83.8 | 11.35 | 86.2 | 11.42 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 154.0 | 61.2 | 9.78 | 66.3 | 11.32 | 72.2 | 13.23 | 78.5 | 14.86 | 80.7 | 15.23 | 83.8 | 15.60 | 86.2 | 15.84 |
| | | 192.5 | 61.2 | 9.58 | 66.3 | 11.15 | 72.2 | 13.01 | 78.5 | 14.62 | 80.7 | 14.99 | 83.8 | 15.35 | 86.2 | 15.60 |
| | | 385.0 | 61.2 | 8.80 | 66.3 | 10.42 | 72.2 | 12.13 | 78.5 | 13.69 | 80.7 | 14.01 | 83.8 | 14.35 | 86.2 | 14.62 |
| | | 481.3 | 61.2 | 8.56 | 66.3 | 10.22 | 72.2 | 11.93 | 78.5 | 13.42 | 80.7 | 13.74 | 83.8 | 14.11 | 86.2 | 14.25 |
| | | 577.5 | 61.2 | 8.43 | 66.3 | 10.12 | 72.2 | 11.81 | 78.5 | 13.30 | 80.7 | 13.62 | 83.8 | 13.96 | 86.2 | 14.08 |
| | 35 | 154.0 | 61.2 | 10.83 | 66.3 | 12.59 | 72.2 | 14.72 | 78.5 | 16.55 | 80.7 | 16.92 | 83.8 | 17.33 | 86.2 | 17.65 |
| | | 192.5 | 61.2 | 10.63 | 66.3 | 12.39 | 72.2 | 14.47 | 78.5 | 16.28 | 80.7 | 16.65 | 83.8 | 17.06 | 86.2 | 17.36 |
| | | 385.0 | 61.2 | 9.80 | 66.3 | 11.61 | 72.2 | 13.47 | 78.5 | 15.18 | 80.7 | 15.55 | 83.8 | 15.97 | 86.2 | 16.28 |
| | | 481.3 | 61.2 | 9.49 | 66.3 | 11.35 | 72.2 | 13.23 | 78.5 | 14.94 | 80.7 | 15.30 | 83.8 | 15.65 | 86.2 | 15.82 |
| | | 577.5 | 61.2 | 9.34 | 66.3 | 11.22 | 72.2 | 13.08 | 78.5 | 14.79 | 80.7 | 15.16 | 83.8 | 15.50 | 86.2 | 15.57 |
| | 40 | 154.0 | 61.2 | 12.86 | 66.3 | 14.91 | 72.2 | 17.40 | 78.5 | 19.56 | 80.7 | 20.02 | 83.8 | 20.54 | 86.2 | 20.93 |
| | | 192.5 | 61.2 | 12.59 | 66.3 | 14.67 | 72.2 | 17.11 | 78.5 | 19.24 | 80.7 | 19.70 | 83.8 | 20.22 | 86.2 | 20.58 |
| | | 385.0 | 61.2 | 11.56 | 66.3 | 13.74 | 72.2 | 15.97 | 78.5 | 17.99 | 80.7 | 18.46 | 83.8 | 18.92 | 86.2 | 19.24 |
| | | 481.3 | 61.2 | 11.25 | 66.3 | 13.42 | 72.2 | 15.65 | 78.5 | 17.68 | 80.7 | 18.09 | 83.8 | 18.56 | 86.2 | 18.77 |
| | | 577.5 | 61.2 | 11.10 | 66.3 | 13.27 | 72.2 | 15.50 | 78.5 | 17.53 | 80.7 | 17.92 | 83.8 | 18.38 | 86.2 | 18.53 |
| | 45 | 154.0 | 61.2 | 14.89 | 66.3 | 17.23 | 72.2 | 20.07 | 78.5 | 22.54 | 80.7 | 23.10 | 83.8 | 23.76 | 86.2 | 24.20 |
| | | 192.5 | 61.2 | 14.57 | 66.3 | 16.94 | 72.2 | 19.75 | 78.5 | 22.20 | 80.7 | 22.76 | 83.8 | 23.37 | 86.2 | 23.79 |
| | | 385.0 | 61.2 | 13.32 | 66.3 | 15.87 | 72.2 | 18.46 | 78.5 | 20.78 | 80.7 | 21.37 | 83.8 | 21.88 | 86.2 | 22.20 |
| | | 481.3 | 61.2 | 13.01 | 66.3 | 15.50 | 72.2 | 18.09 | 78.5 | 20.42 | 80.7 | 20.90 | 83.8 | 21.46 | 86.2 | 21.71 |
| | | 577.5 | 61.2 | 12.86 | 66.3 | 15.33 | 72.2 | 17.92 | 78.5 | 20.24 | 80.7 | 20.66 | 83.8 | 21.25 | 86.2 | 21.49 |
| 60 | 10 | 154.0 | 52.5 | 3.18 | 56.8 | 3.67 | 61.8 | 4.23 | 67.2 | 4.77 | 69.2 | 4.89 | 71.8 | 5.04 | 74.0 | 5.06 |
| | | 192.5 | 52.5 | 3.10 | 56.8 | 3.59 | 61.8 | 4.13 | 67.2 | 4.69 | 69.2 | 4.79 | 71.8 | 4.94 | 74.0 | 4.99 |
| | | 385.0 | 52.5 | 2.79 | 56.8 | 3.35 | 61.8 | 3.84 | 67.2 | 4.40 | 69.2 | 4.38 | 71.8 | 4.55 | 74.0 | 4.69 |
| | | 481.3 | 52.5 | 2.69 | 56.8 | 3.25 | 61.8 | 3.79 | 67.2 | 4.28 | 69.2 | 4.33 | 71.8 | 4.43 | 74.0 | 4.48 |
| | | 577.5 | 52.5 | 2.64 | 56.8 | 3.18 | 61.8 | 3.77 | 67.2 | 4.23 | 69.2 | 4.30 | 71.8 | 4.38 | 74.0 | 4.38 |
| | 15 | 154.0 | 52.5 | 4.23 | 56.8 | 4.89 | 61.8 | 5.70 | 67.2 | 6.43 | 69.2 | 6.60 | 71.8 | 6.75 | 74.0 | 6.85 |
| | | 192.5 | 52.5 | 4.15 | 56.8 | 4.82 | 61.8 | 5.60 | 67.2 | 6.33 | 69.2 | 6.48 | 71.8 | 6.63 | 74.0 | 6.75 |
| | | 385.0 | 52.5 | 3.79 | 56.8 | 4.50 | 61.8 | 5.23 | 67.2 | 5.92 | 69.2 | 6.01 | 71.8 | 6.16 | 74.0 | 6.33 |
| | | 481.3 | 52.5 | 3.69 | 56.8 | 4.40 | 61.8 | 5.13 | 67.2 | 5.80 | 69.2 | 5.92 | 71.8 | 6.06 | 74.0 | 6.11 |
| | | 577.5 | 52.5 | 3.62 | 56.8 | 4.35 | 61.8 | 5.08 | 67.2 | 5.75 | 69.2 | 5.87 | 71.8 | 6.01 | 74.0 | 6.01 |
| | 20 | 154.0 | 52.5 | 5.18 | 56.8 | 5.99 | 61.8 | 6.99 | 67.2 | 7.90 | 69.2 | 8.12 | 71.8 | 8.26 | 74.0 | 8.43 |
| | | 192.5 | 52.5 | 5.08 | 56.8 | 5.92 | 61.8 | 6.89 | 67.2 | 7.77 | 69.2 | 7.99 | 71.8 | 8.14 | 74.0 | 8.29 |
| | | 385.0 | 52.5 | 4.67 | 56.8 | 5.55 | 61.8 | 6.48 | 67.2 | 7.26 | 69.2 | 7.46 | 71.8 | 7.63 | 74.0 | 7.77 |
| | | 481.3 | 52.5 | 4.57 | 56.8 | 5.45 | 61.8 | 6.33 | 67.2 | 7.16 | 69.2 | 7.31 | 71.8 | 7.51 | 74.0 | 7.58 |
| | | 577.5 | 52.5 | 4.50 | 56.8 | 5.40 | 61.8 | 6.26 | 67.2 | 7.11 | 69.2 | 7.24 | 71.8 | 7.46 | 74.0 | 7.46 |
| | 25 | 154.0 | 52.5 | 6.36 | 56.8 | 7.33 | 61.8 | 8.53 | 67.2 | 9.63 | 69.2 | 9.85 | 71.8 | 10.12 | 74.0 | 10.27 |
| | | 192.5 | 52.5 | 6.21 | 56.8 | 7.21 | 61.8 | 8.41 | 67.2 | 9.49 | 69.2 | 9.70 | 71.8 | 9.95 | 74.0 | 10.10 |
| | | 385.0 | 52.5 | 5.70 | 56.8 | 6.75 | 61.8 | 7.87 | 67.2 | 8.87 | 69.2 | 9.07 | 71.8 | 9.34 | 74.0 | 9.49 |
| | | 481.3 | 52.5 | 5.55 | 56.8 | 6.63 | 61.8 | 7.73 | 67.2 | 8.70 | 69.2 | 8.92 | 71.8 | 9.12 | 74.0 | 9.22 |
| | | 577.5 | 52.5 | 5.48 | 56.8 | 6.58 | 61.8 | 7.65 | 67.2 | 8.63 | 69.2 | 8.85 | 71.8 | 9.02 | 74.0 | 9.10 |
| | 30 | 154.0 | 52.5 | 7.78 | 56.8 | 9.07 | 61.8 | 10.54 | 67.2 | 11.86 | 69.2 | 12.13 | 71.8 | 12.42 | 74.0 | 12.64 |
| | | 192.5 | 52.5 | 7.63 | 56.8 | 8.92 | 61.8 | 10.37 | 67.2 | 11.66 | 69.2 | 11.93 | 71.8 | 12.23 | 74.0 | 12.44 |
| | | 385.0 | 52.5 | 6.99 | 56.8 | 8.29 | 61.8 | 9.70 | 67.2 | 10.88 | 69.2 | 11.15 | 71.8 | 11.46 | 74.0 | 11.66 |
| | | 481.3 | 52.5 | 6.85 | 56.8 | 8.14 | 61.8 | 9.49 | 67.2 | 10.68 | 69.2 | 10.93 | 71.8 | 11.25 | 74.0 | 11.35 |
| | | 577.5 | 52.5 | 6.77 | 56.8 | 8.07 | 61.8 | 9.39 | 67.2 | 10.58 | 69.2 | 10.83 | 71.8 | 11.15 | 74.0 | 11.20 |
| | 35 | 154.0 | 52.5 | 8.63 | 56.8 | 10.07 | 61.8 | 11.69 | 67.2 | 13.18 | 69.2 | 13.50 | 71.8 | 13.79 | 74.0 | 14.06 |
| | | 192.5 | 52.5 | 8.46 | 56.8 | 9.90 | 61.8 | 11.51 | 67.2 | 12.96 | 69.2 | 13.27 | 71.8 | 13.59 | 74.0 | 13.84 |
| | | 385.0 | 52.5 | 7.77 | 56.8 | 9.22 | 61.8 | 10.78 | 67.2 | 12.13 | 69.2 | 12.39 | 71.8 | 12.76 | 74.0 | 12.96 |
| | | 481.3 | 52.5 | 7.58 | 56.8 | 9.02 | 61.8 | 10.51 | 67.2 | 11.88 | 69.2 | 12.18 | 71.8 | 12.49 | 74.0 | 12.59 |
| | | 577.5 | 52.5 | 7.46 | 56.8 | 8.92 | 61.8 | 10.39 | 67.2 | 11.74 | 69.2 | 12.08 | 71.8 | 12.37 | 74.0 | 12.42 |
| | 40 | 154.0 | 52.5 | 10.27 | 56.8 | 11.91 | 61.8 | 13.86 | 67.2 | 15.60 | 69.2 | 15.97 | 71.8 | 16.38 | 74.0 | 16.65 |
| | | 192.5 | 52.5 | 10.05 | 56.8 | 11.71 | 61.8 | 13.64 | 67.2 | 15.35 | 69.2 | 15.70 | 71.8 | 16.11 | 74.0 | 16.38 |
| | | 385.0 | 52.5 | 9.22 | 56.8 | 10.93 | 61.8 | 12.76 | 67.2 | 14.35 | 69.2 | 14.67 | 71.8 | 15.08 | 74.0 | 15.35 |
| | | 481.3 | 52.5 | 8.97 | 56.8 | 10.73 | 61.8 | 12.49 | 67.2 | 14.06 | 69.2 | 14.40 | 71.8 | 14.77 | 74.0 | 14.94 |
| | | 577.5 | 52.5 | 8.85 | 56.8 | 10.63 | 61.8 | 12.37 | 67.2 | 13.89 | 69.2 | 14.28 | 71.8 | 14.62 | 74.0 | 14.72 |
| | 45 | 154.0 | 52.5 | 11.91 | 56.8 | 13.76 | 61.8 | 16.01 | 67.2 | 18.02 | 69.2 | 18.44 | 71.8 | 18.97 | 74.0 | 19.22 |
| | | 192.5 | 52.5 | 11.66 | 56.8 | 13.52 | 61.8 | 15.77 | 67.2 | 17.73 | 69.2 | 18.14 | 71.8 | 18.66 | 74.0 | 18.92 |
| | | 385.0 | 52.5 | 10.68 | 56.8 | 12.64 | 61.8 | 14.72 | 67.2 | 16.60 | 69.2 | 16.94 | 71.8 | 17.41 | 74.0 | 17.73 |
| | | 481.3 | 52.5 | 10.37 | 56.8 | 12.44 | 61.8 | 14.47 | 67.2 | 16.23 | 69.2 | 16.65 | 71.8 | 17.06 | 74.0 | 17.26 |
| | | 577.5 | 52.5 | 10.22 | 56.8 | 12.34 | 61.8 | 14.33 | 67.2 | 16.04 | 69.2 | 16.48 | 71.8 | 16.87 | 74.0 | 17.04 |
| 50 | 10 | 154.0 | 43.7 | 2.27 | 47.3 | 2.69 | 51.5 | 3.23 | 56.0 | 3.55 | 57.7 | 3.59 | 60.0 | 3.71 | 61.5 | 3.81 |
| | | 192.5 | 43.7 | 2.25 | 47.3 | 2.64 | 51.5 | 3.15 | 56.0 | 3.50 | 57.7 | 3.54 | 60.0 | 3.64 | 61.5 | 3.74 |
| | | 385.0 | 43.7 | 2.15 | 47.3 | 2.49 | 51.5 | 2.84 | 56.0 | 3.25 | 57.7 | 3.35 | 60.0 | 3.40 | 61.5 | 3.50 |
| | | 481.3 | 43.7 | 2.05 | 47.3 | 2.40 | 51.5 | 2.84 | 56.0 | 3.13 | 57.7 | 3.25 | 60.0 | 3.28 | 61.5 | 3.35 |
| | | 577.5 | 43.7 | 2.00 | 47.3 | 2.35 | 51.5 | 2.84 | 56.0 | 3.08 | 57.7 | 3.18 | 60.0 | 3.23 | 61.5 | 3.25 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 154.0 | 43.7 | 3.11 | 47.3 | 3.62 | 51.5 | 4.28 | 56.0 | 4.79 | 57.7 | 4.89 | 60.0 | 5.01 | 61.5 | 5.11 |
| | | 192.5 | 43.7 | 3.06 | 47.3 | 3.57 | 51.5 | 4.20 | 56.0 | 4.72 | 57.7 | 4.82 | 60.0 | 4.92 | 61.5 | 5.03 |
| | | 385.0 | 43.7 | 2.86 | 47.3 | 3.37 | 51.5 | 3.89 | 56.0 | 4.40 | 57.7 | 4.50 | 60.0 | 4.62 | 61.5 | 4.72 |
| | | 481.3 | 43.7 | 2.74 | 47.3 | 3.27 | 51.5 | 3.84 | 56.0 | 4.30 | 57.7 | 4.40 | 60.0 | 4.50 | 61.5 | 4.57 |
| | | 577.5 | 43.7 | 2.69 | 47.3 | 3.20 | 51.5 | 3.81 | 56.0 | 4.25 | 57.7 | 4.35 | 60.0 | 4.45 | 61.5 | 4.48 |
| | 20 | 154.0 | 43.7 | 3.86 | 47.3 | 4.47 | 51.5 | 5.21 | 56.0 | 5.89 | 57.7 | 6.06 | 60.0 | 6.16 | 61.5 | 6.26 |
| | | 192.5 | 43.7 | 3.79 | 47.3 | 4.40 | 51.5 | 5.13 | 56.0 | 5.80 | 57.7 | 5.96 | 60.0 | 6.06 | 61.5 | 6.16 |
| | | 385.0 | 43.7 | 3.47 | 47.3 | 4.15 | 51.5 | 4.82 | 56.0 | 5.45 | 57.7 | 5.55 | 60.0 | 5.70 | 61.5 | 5.80 |
| | | 481.3 | 43.7 | 3.37 | 47.3 | 4.04 | 51.5 | 4.72 | 56.0 | 5.33 | 57.7 | 5.45 | 60.0 | 5.60 | 61.5 | 5.65 |
| | | 577.5 | 43.7 | 3.32 | 47.3 | 3.99 | 51.5 | 4.67 | 56.0 | 5.28 | 57.7 | 5.40 | 60.0 | 5.55 | 61.5 | 5.57 |
| | 25 | 154.0 | 43.7 | 4.70 | 47.3 | 5.48 | 51.5 | 6.38 | 56.0 | 7.16 | 57.7 | 7.38 | 60.0 | 7.53 | 61.5 | 7.70 |
| | | 192.5 | 43.7 | 4.62 | 47.3 | 5.40 | 51.5 | 6.28 | 56.0 | 7.04 | 57.7 | 7.26 | 60.0 | 7.41 | 61.5 | 7.58 |
| | | 385.0 | 43.7 | 4.25 | 47.3 | 5.03 | 51.5 | 5.87 | 56.0 | 6.63 | 57.7 | 6.80 | 60.0 | 6.94 | 61.5 | 7.04 |
| | | 481.3 | 43.7 | 4.15 | 47.3 | 4.92 | 51.5 | 5.75 | 56.0 | 6.48 | 57.7 | 6.63 | 60.0 | 6.80 | 61.5 | 6.89 |
| | | 577.5 | 43.7 | 4.11 | 47.3 | 4.87 | 51.5 | 5.70 | 56.0 | 6.40 | 57.7 | 6.55 | 60.0 | 6.72 | 61.5 | 6.82 |
| | 30 | 154.0 | 43.7 | 5.82 | 47.3 | 6.75 | 51.5 | 7.85 | 56.0 | 8.85 | 57.7 | 9.07 | 60.0 | 9.27 | 61.5 | 9.41 |
| | | 192.5 | 43.7 | 5.70 | 47.3 | 6.63 | 51.5 | 7.73 | 56.0 | 8.70 | 57.7 | 8.92 | 60.0 | 9.12 | 61.5 | 9.29 |
| | | 385.0 | 43.7 | 5.23 | 47.3 | 6.21 | 51.5 | 7.21 | 56.0 | 8.14 | 57.7 | 8.34 | 60.0 | 8.56 | 61.5 | 8.70 |
| | | 481.3 | 43.7 | 5.08 | 47.3 | 6.06 | 51.5 | 7.04 | 56.0 | 7.99 | 57.7 | 8.19 | 60.0 | 8.41 | 61.5 | 8.46 |
| | | 577.5 | 43.7 | 5.01 | 47.3 | 5.99 | 51.5 | 6.97 | 56.0 | 7.90 | 57.7 | 8.12 | 60.0 | 8.31 | 61.5 | 8.31 |
| | 35 | 154.0 | 43.7 | 6.45 | 47.3 | 7.48 | 51.5 | 8.75 | 56.0 | 9.80 | 57.7 | 10.07 | 60.0 | 10.34 | 61.5 | 10.49 |
| | | 192.5 | 43.7 | 6.33 | 47.3 | 7.36 | 51.5 | 8.61 | 56.0 | 9.63 | 57.7 | 9.90 | 60.0 | 10.17 | 61.5 | 10.32 |
| | | 385.0 | 43.7 | 5.80 | 47.3 | 6.89 | 51.5 | 8.04 | 56.0 | 9.02 | 57.7 | 9.22 | 60.0 | 9.49 | 61.5 | 9.63 |
| | | 481.3 | 43.7 | 5.65 | 47.3 | 6.75 | 51.5 | 7.87 | 56.0 | 8.87 | 57.7 | 9.07 | 60.0 | 9.34 | 61.5 | 9.39 |
| | | 577.5 | 43.7 | 5.57 | 47.3 | 6.65 | 51.5 | 7.80 | 56.0 | 8.78 | 57.7 | 9.00 | 60.0 | 9.26 | 61.5 | 9.26 |
| | 40 | 154.0 | 43.7 | 7.60 | 47.3 | 8.85 | 51.5 | 10.34 | 56.0 | 11.66 | 57.7 | 11.91 | 60.0 | 12.22 | 61.5 | 12.42 |
| | | 192.5 | 43.7 | 7.46 | 47.3 | 8.70 | 51.5 | 10.17 | 56.0 | 11.46 | 57.7 | 11.71 | 60.0 | 12.03 | 61.5 | 12.23 |
| | | 385.0 | 43.7 | 6.89 | 47.3 | 8.14 | 51.5 | 9.49 | 56.0 | 10.68 | 57.7 | 10.93 | 60.0 | 11.25 | 61.5 | 11.46 |
| | | 481.3 | 43.7 | 6.70 | 47.3 | 7.99 | 51.5 | 9.34 | 56.0 | 10.47 | 57.7 | 10.73 | 60.0 | 11.05 | 61.5 | 11.15 |
| | | 577.5 | 43.7 | 6.58 | 47.3 | 7.90 | 51.5 | 9.26 | 56.0 | 10.37 | 57.7 | 10.63 | 60.0 | 10.93 | 61.5 | 11.00 |
| | 45 | 154.0 | 43.7 | 8.75 | 47.3 | 10.22 | 51.5 | 11.91 | 56.0 | 13.50 | 57.7 | 13.76 | 60.0 | 14.11 | 61.5 | 14.38 |
| | | 192.5 | 43.7 | 8.61 | 47.3 | 10.05 | 51.5 | 11.71 | 56.0 | 13.27 | 57.7 | 13.52 | 60.0 | 13.89 | 61.5 | 14.15 |
| | | 385.0 | 43.7 | 7.99 | 47.3 | 9.39 | 51.5 | 10.93 | 56.0 | 12.34 | 57.7 | 12.64 | 60.0 | 13.01 | 61.5 | 13.27 |
| | | 481.3 | 43.7 | 7.73 | 47.3 | 9.22 | 51.5 | 10.78 | 56.0 | 12.08 | 57.7 | 12.39 | 60.0 | 12.76 | 61.5 | 12.91 |
| | | 577.5 | 43.7 | 7.60 | 47.3 | 9.14 | 51.5 | 10.71 | 56.0 | 11.95 | 57.7 | 12.27 | 60.0 | 12.62 | 61.5 | 12.74 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

Cooling Capacity(42HP)

## ARWN420BAS4

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 162.0 | 109.2 | 8.22 | 118.2 | 9.63 | 129.0 | 11.22 | 140.1 | 12.63 | 144.0 | 12.99 | 150.0 | 13.23 | 153.9 | 13.35 |
| | | 202.5 | 109.2 | 8.07 | 118.2 | 9.48 | 129.0 | 11.04 | 140.1 | 12.45 | 144.0 | 12.75 | 150.0 | 13.02 | 153.9 | 13.17 |
| | | 405.0 | 109.2 | 7.50 | 118.2 | 8.88 | 129.0 | 10.35 | 140.1 | 11.64 | 144.0 | 11.85 | 150.0 | 12.21 | 153.9 | 12.48 |
| | | 506.3 | 109.2 | 7.26 | 118.2 | 8.67 | 129.0 | 10.11 | 140.1 | 11.37 | 144.0 | 11.67 | 150.0 | 11.94 | 153.9 | 12.15 |
| | | 607.5 | 109.2 | 7.17 | 118.2 | 8.55 | 129.0 | 10.02 | 140.1 | 11.22 | 144.0 | 11.61 | 150.0 | 11.82 | 153.9 | 12.00 |
| | 15 | 162.0 | 107.4 | 10.86 | 116.4 | 12.63 | 126.9 | 14.73 | 138.0 | 16.59 | 141.9 | 16.98 | 147.6 | 17.37 | 151.5 | 17.64 |
| | | 202.5 | 107.4 | 10.65 | 116.4 | 12.42 | 126.9 | 14.49 | 138.0 | 16.32 | 141.9 | 16.71 | 147.6 | 17.10 | 151.5 | 17.37 |
| | | 405.0 | 107.4 | 9.81 | 116.4 | 11.64 | 126.9 | 13.53 | 138.0 | 15.27 | 141.9 | 15.60 | 147.6 | 16.05 | 151.5 | 16.38 |
| | | 506.3 | 107.4 | 9.54 | 116.4 | 11.37 | 126.9 | 13.26 | 138.0 | 14.94 | 141.9 | 15.33 | 147.6 | 15.72 | 151.5 | 15.99 |
| | | 607.5 | 107.4 | 9.39 | 116.4 | 11.22 | 126.9 | 13.11 | 138.0 | 14.76 | 141.9 | 15.18 | 147.6 | 15.54 | 151.5 | 15.78 |
| | 20 | 162.0 | 105.9 | 13.20 | 114.9 | 15.27 | 125.1 | 17.85 | 135.9 | 20.10 | 140.1 | 20.55 | 145.5 | 21.06 | 149.4 | 21.45 |
| | | 202.5 | 105.9 | 12.93 | 114.9 | 15.03 | 125.1 | 17.55 | 135.9 | 19.77 | 140.1 | 20.22 | 145.5 | 20.73 | 149.4 | 21.12 |
| | | 405.0 | 105.9 | 11.88 | 114.9 | 14.10 | 125.1 | 16.38 | 135.9 | 18.48 | 140.1 | 18.93 | 145.5 | 19.44 | 149.4 | 19.83 |
| | | 506.3 | 105.9 | 11.52 | 114.9 | 13.77 | 125.1 | 16.05 | 135.9 | 18.09 | 140.1 | 18.54 | 145.5 | 19.05 | 149.4 | 19.38 |
| | | 607.5 | 105.9 | 11.37 | 114.9 | 13.59 | 125.1 | 15.87 | 135.9 | 17.91 | 140.1 | 18.36 | 145.5 | 18.87 | 149.4 | 19.17 |
| | 25 | 162.0 | 105.9 | 16.26 | 114.9 | 18.84 | 125.1 | 21.96 | 135.9 | 24.75 | 140.1 | 25.35 | 145.5 | 25.98 | 149.4 | 26.40 |
| | | 202.5 | 105.9 | 15.93 | 114.9 | 18.54 | 125.1 | 21.60 | 135.9 | 24.33 | 140.1 | 24.96 | 145.5 | 25.56 | 149.4 | 26.01 |
| | | 405.0 | 105.9 | 14.64 | 114.9 | 17.37 | 125.1 | 20.22 | 135.9 | 22.77 | 140.1 | 23.34 | 145.5 | 23.94 | 149.4 | 24.45 |
| | | 506.3 | 105.9 | 14.25 | 114.9 | 16.98 | 125.1 | 19.83 | 135.9 | 22.35 | 140.1 | 22.89 | 145.5 | 23.52 | 149.4 | 23.91 |
| | | 607.5 | 105.9 | 14.07 | 114.9 | 16.80 | 125.1 | 19.65 | 135.9 | 22.11 | 140.1 | 22.68 | 145.5 | 23.28 | 149.4 | 23.61 |
| | 30 | 162.0 | 105.9 | 19.50 | 114.9 | 22.65 | 125.1 | 26.37 | 135.9 | 29.73 | 140.1 | 30.39 | 145.5 | 31.20 | 149.4 | 31.65 |
| | | 202.5 | 105.9 | 19.11 | 114.9 | 22.29 | 125.1 | 25.95 | 135.9 | 29.25 | 140.1 | 29.91 | 145.5 | 30.69 | 149.4 | 31.20 |
| | | 405.0 | 105.9 | 17.55 | 114.9 | 20.82 | 125.1 | 24.30 | 135.9 | 27.36 | 140.1 | 28.02 | 145.5 | 28.74 | 149.4 | 29.37 |
| | | 506.3 | 105.9 | 17.10 | 114.9 | 20.40 | 125.1 | 23.79 | 135.9 | 26.79 | 140.1 | 27.51 | 145.5 | 28.20 | 149.4 | 28.68 |
| | | 607.5 | 105.9 | 16.89 | 114.9 | 20.16 | 125.1 | 23.55 | 135.9 | 26.52 | 140.1 | 27.27 | 145.5 | 27.90 | 149.4 | 28.35 |
| | 35 | 162.0 | 95.4 | 19.71 | 103.2 | 22.95 | 112.5 | 26.67 | 122.4 | 30.06 | 126.0 | 30.72 | 130.8 | 31.53 | 134.4 | 32.07 |
| | | 202.5 | 95.4 | 19.32 | 103.2 | 22.56 | 112.5 | 26.25 | 122.4 | 29.58 | 126.0 | 30.24 | 130.8 | 31.02 | 134.4 | 31.59 |
| | | 405.0 | 95.4 | 17.76 | 103.2 | 21.06 | 112.5 | 24.57 | 122.4 | 27.63 | 126.0 | 28.35 | 130.8 | 29.07 | 134.4 | 29.64 |
| | | 506.3 | 95.4 | 17.28 | 103.2 | 20.61 | 112.5 | 24.06 | 122.4 | 27.06 | 126.0 | 27.81 | 130.8 | 28.53 | 134.4 | 29.01 |
| | | 607.5 | 95.4 | 17.01 | 103.2 | 20.40 | 112.5 | 23.82 | 122.4 | 26.79 | 126.0 | 27.51 | 130.8 | 28.23 | 134.4 | 28.71 |
| | 40 | 162.0 | 84.9 | 20.82 | 91.8 | 24.18 | 99.9 | 28.14 | 108.6 | 31.71 | 111.9 | 32.43 | 116.4 | 33.21 | 119.7 | 33.81 |
| | | 202.5 | 84.9 | 20.40 | 91.8 | 23.79 | 99.9 | 27.69 | 108.6 | 31.20 | 111.9 | 31.92 | 116.4 | 32.70 | 119.7 | 33.30 |
| | | 405.0 | 84.9 | 18.72 | 91.8 | 22.23 | 99.9 | 25.89 | 108.6 | 29.13 | 111.9 | 29.85 | 116.4 | 30.69 | 119.7 | 31.32 |
| | | 506.3 | 84.9 | 18.21 | 91.8 | 21.72 | 99.9 | 25.35 | 108.6 | 28.59 | 111.9 | 29.31 | 116.4 | 30.09 | 119.7 | 30.57 |
| | | 607.5 | 84.9 | 17.97 | 91.8 | 21.48 | 99.9 | 25.08 | 108.6 | 28.29 | 111.9 | 29.01 | 116.4 | 29.79 | 119.7 | 30.21 |
| | 45 | 162.0 | 74.1 | 21.90 | 80.4 | 25.41 | 87.3 | 29.61 | 94.8 | 33.36 | 97.8 | 34.14 | 101.7 | 34.89 | 104.7 | 35.55 |
| | | 202.5 | 74.1 | 21.45 | 80.4 | 25.02 | 87.3 | 29.13 | 94.8 | 32.82 | 97.8 | 33.60 | 101.7 | 34.38 | 104.7 | 35.04 |
| | | 405.0 | 74.1 | 19.65 | 80.4 | 23.40 | 87.3 | 27.24 | 94.8 | 30.63 | 97.8 | 31.35 | 101.7 | 32.31 | 104.7 | 32.97 |
| | | 506.3 | 74.1 | 19.17 | 80.4 | 22.83 | 87.3 | 26.64 | 94.8 | 30.09 | 97.8 | 30.81 | 101.7 | 31.65 | 104.7 | 32.13 |
| | | 607.5 | 74.1 | 18.90 | 80.4 | 22.56 | 87.3 | 26.31 | 94.8 | 29.79 | 97.8 | 30.54 | 101.7 | 31.32 | 104.7 | 31.74 |
| 120 | 10 | 162.0 | 103.2 | 7.86 | 111.9 | 9.06 | 121.8 | 10.68 | 132.6 | 11.97 | 136.8 | 12.33 | 141.9 | 12.57 | 145.8 | 12.81 |
| | | 202.5 | 103.2 | 7.68 | 111.9 | 8.91 | 121.8 | 10.50 | 132.6 | 11.76 | 136.8 | 12.09 | 141.9 | 12.36 | 145.8 | 12.57 |
| | | 405.0 | 103.2 | 7.05 | 111.9 | 8.34 | 121.8 | 9.72 | 132.6 | 11.01 | 136.8 | 11.22 | 141.9 | 11.55 | 145.8 | 11.70 |
| | | 506.3 | 103.2 | 6.93 | 111.9 | 8.16 | 121.8 | 9.63 | 132.6 | 10.80 | 136.8 | 11.01 | 141.9 | 11.34 | 145.8 | 11.49 |
| | | 607.5 | 103.2 | 6.90 | 111.9 | 8.10 | 121.8 | 9.57 | 132.6 | 10.71 | 136.8 | 10.92 | 141.9 | 11.25 | 145.8 | 11.40 |
| | 15 | 162.0 | 102.3 | 10.41 | 110.7 | 12.06 | 120.6 | 14.10 | 131.1 | 15.84 | 135.0 | 16.26 | 140.4 | 16.65 | 144.3 | 16.92 |
| | | 202.5 | 102.3 | 10.20 | 110.7 | 11.88 | 120.6 | 13.86 | 131.1 | 15.60 | 135.0 | 15.99 | 140.4 | 16.38 | 144.3 | 16.65 |
| | | 405.0 | 102.3 | 9.36 | 110.7 | 11.10 | 120.6 | 12.93 | 131.1 | 14.58 | 135.0 | 14.94 | 140.4 | 15.33 | 144.3 | 15.60 |
| | | 506.3 | 102.3 | 9.15 | 110.7 | 10.86 | 120.6 | 12.69 | 131.1 | 14.31 | 135.0 | 14.64 | 140.4 | 15.03 | 144.3 | 15.27 |
| | | 607.5 | 102.3 | 9.03 | 110.7 | 10.74 | 120.6 | 12.60 | 131.1 | 14.19 | 135.0 | 14.52 | 140.4 | 14.91 | 144.3 | 15.09 |
| | 20 | 162.0 | 101.4 | 12.69 | 109.5 | 14.73 | 119.4 | 17.16 | 129.9 | 19.29 | 133.5 | 19.74 | 138.9 | 20.28 | 142.8 | 20.58 |
| | | 202.5 | 101.4 | 12.42 | 109.5 | 14.49 | 119.4 | 16.89 | 129.9 | 18.99 | 133.5 | 19.44 | 138.9 | 19.95 | 142.8 | 20.28 |
| | | 405.0 | 101.4 | 11.43 | 109.5 | 13.53 | 119.4 | 15.75 | 129.9 | 17.76 | 133.5 | 18.21 | 138.9 | 18.66 | 142.8 | 19.05 |
| | | 506.3 | 101.4 | 11.10 | 109.5 | 13.26 | 119.4 | 15.42 | 129.9 | 17.43 | 133.5 | 17.88 | 138.9 | 18.33 | 142.8 | 18.60 |
| | | 607.5 | 101.4 | 10.92 | 109.5 | 13.11 | 119.4 | 15.27 | 129.9 | 17.28 | 133.5 | 17.70 | 138.9 | 18.15 | 142.8 | 18.39 |
| | 25 | 162.0 | 101.4 | 15.57 | 109.5 | 18.06 | 119.4 | 21.06 | 129.9 | 23.73 | 133.5 | 24.30 | 138.9 | 24.90 | 142.8 | 25.35 |
| | | 202.5 | 101.4 | 15.27 | 109.5 | 17.76 | 119.4 | 20.73 | 129.9 | 23.34 | 133.5 | 23.91 | 138.9 | 24.51 | 142.8 | 24.96 |
| | | 405.0 | 101.4 | 14.04 | 109.5 | 16.65 | 119.4 | 19.38 | 129.9 | 21.84 | 133.5 | 22.35 | 138.9 | 22.95 | 142.8 | 23.40 |
| | | 506.3 | 101.4 | 13.65 | 109.5 | 16.26 | 119.4 | 18.99 | 129.9 | 21.39 | 133.5 | 21.96 | 138.9 | 22.50 | 142.8 | 22.83 |
| | | 607.5 | 101.4 | 13.44 | 109.5 | 16.08 | 119.4 | 18.81 | 129.9 | 21.18 | 133.5 | 21.75 | 138.9 | 22.29 | 142.8 | 22.56 |
| | 30 | 162.0 | 101.4 | 18.81 | 109.5 | 21.84 | 119.4 | 25.47 | 129.9 | 28.71 | 133.5 | 29.40 | 138.9 | 30.12 | 142.8 | 30.60 |
| | | 202.5 | 101.4 | 18.45 | 109.5 | 21.51 | 119.4 | 25.08 | 129.9 | 28.23 | 133.5 | 28.92 | 138.9 | 29.64 | 142.8 | 30.15 |
| | | 405.0 | 101.4 | 16.98 | 109.5 | 20.10 | 119.4 | 23.46 | 129.9 | 26.40 | 133.5 | 27.03 | 138.9 | 27.75 | 142.8 | 28.29 |
| | | 506.3 | 101.4 | 16.50 | 109.5 | 19.65 | 119.4 | 22.95 | 129.9 | 25.86 | 133.5 | 26.52 | 138.9 | 27.24 | 142.8 | 27.63 |
| | | 607.5 | 101.4 | 16.23 | 109.5 | 19.44 | 119.4 | 22.71 | 129.9 | 25.56 | 133.5 | 26.28 | 138.9 | 27.00 | 142.8 | 27.30 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 162.0 | 92.7 | 19.26 | 100.2 | 22.41 | 109.2 | 26.10 | 118.8 | 29.37 | 122.4 | 30.12 | 127.2 | 30.84 | 130.8 | 31.41 |
| | | 202.5 | 92.7 | 18.87 | 100.2 | 22.05 | 109.2 | 25.68 | 118.8 | 28.92 | 122.4 | 29.64 | 127.2 | 30.36 | 130.8 | 30.93 |
| | | 405.0 | 92.7 | 17.37 | 100.2 | 20.61 | 109.2 | 24.00 | 118.8 | 27.06 | 122.4 | 27.75 | 127.2 | 28.47 | 130.8 | 28.98 |
| | | 506.3 | 92.7 | 16.92 | 100.2 | 20.16 | 109.2 | 23.52 | 118.8 | 26.52 | 122.4 | 27.18 | 127.2 | 27.90 | 130.8 | 28.29 |
| | | 607.5 | 92.7 | 16.71 | 100.2 | 19.95 | 109.2 | 23.25 | 118.8 | 26.25 | 122.4 | 26.91 | 127.2 | 27.63 | 130.8 | 27.96 |
| | 40 | 162.0 | 84.0 | 20.73 | 90.9 | 24.12 | 99.0 | 28.08 | 107.7 | 31.65 | 111.0 | 32.37 | 115.2 | 33.15 | 118.5 | 33.78 |
| | | 202.5 | 84.0 | 20.34 | 90.9 | 23.73 | 99.0 | 27.63 | 107.7 | 31.14 | 111.0 | 31.86 | 115.2 | 32.64 | 118.5 | 33.27 |
| | | 405.0 | 84.0 | 18.72 | 90.9 | 22.17 | 99.0 | 25.86 | 107.7 | 29.13 | 111.0 | 29.79 | 115.2 | 30.57 | 118.5 | 31.20 |
| | | 506.3 | 84.0 | 18.21 | 90.9 | 21.72 | 99.0 | 25.35 | 107.7 | 28.53 | 111.0 | 29.25 | 115.2 | 30.03 | 118.5 | 30.48 |
| | | 607.5 | 84.0 | 17.97 | 90.9 | 21.51 | 99.0 | 25.11 | 107.7 | 28.23 | 111.0 | 28.98 | 115.2 | 29.76 | 118.5 | 30.12 |
| | 45 | 162.0 | 75.6 | 22.23 | 81.6 | 25.83 | 89.1 | 30.06 | 96.9 | 33.93 | 99.6 | 34.65 | 103.5 | 35.49 | 106.5 | 36.15 |
| | | 202.5 | 75.6 | 21.78 | 81.6 | 25.41 | 89.1 | 29.58 | 96.9 | 33.36 | 99.6 | 34.08 | 103.5 | 34.92 | 106.5 | 35.61 |
| | | 405.0 | 75.6 | 20.04 | 81.6 | 23.73 | 89.1 | 27.69 | 96.9 | 31.20 | 99.6 | 31.86 | 103.5 | 32.70 | 106.5 | 33.42 |
| | | 506.3 | 75.6 | 19.50 | 81.6 | 23.28 | 89.1 | 27.18 | 96.9 | 30.54 | 99.6 | 31.32 | 103.5 | 32.13 | 106.5 | 32.64 |
| | | 607.5 | 75.6 | 19.23 | 81.6 | 23.07 | 89.1 | 26.94 | 96.9 | 30.18 | 99.6 | 31.02 | 103.5 | 31.86 | 106.5 | 32.25 |
| 110 | 10 | 162.0 | 97.5 | 7.44 | 105.6 | 8.64 | 114.9 | 9.96 | 125.1 | 11.28 | 128.7 | 11.49 | 134.1 | 11.85 | 137.4 | 12.00 |
| | | 202.5 | 97.5 | 7.29 | 105.6 | 8.49 | 114.9 | 9.81 | 125.1 | 11.10 | 128.7 | 11.31 | 134.1 | 11.64 | 137.4 | 11.79 |
| | | 405.0 | 97.5 | 6.72 | 105.6 | 7.89 | 114.9 | 9.24 | 125.1 | 10.41 | 128.7 | 10.68 | 134.1 | 10.83 | 137.4 | 11.04 |
| | | 506.3 | 97.5 | 6.51 | 105.6 | 7.74 | 114.9 | 9.03 | 125.1 | 10.20 | 128.7 | 10.41 | 134.1 | 10.62 | 137.4 | 10.89 |
| | | 607.5 | 97.5 | 6.39 | 105.6 | 7.65 | 114.9 | 8.91 | 125.1 | 10.08 | 128.7 | 10.26 | 134.1 | 10.50 | 137.4 | 10.83 |
| | 15 | 162.0 | 96.9 | 9.96 | 105.0 | 11.55 | 114.3 | 13.41 | 124.2 | 15.12 | 128.1 | 15.45 | 133.2 | 15.84 | 136.8 | 16.14 |
| | | 202.5 | 96.9 | 9.75 | 105.0 | 11.37 | 114.3 | 13.20 | 124.2 | 14.88 | 128.1 | 15.21 | 133.2 | 15.60 | 136.8 | 15.87 |
| | | 405.0 | 96.9 | 8.97 | 105.0 | 10.59 | 114.3 | 12.36 | 124.2 | 13.92 | 128.1 | 14.25 | 133.2 | 14.58 | 136.8 | 14.88 |
| | | 506.3 | 96.9 | 8.70 | 105.0 | 10.35 | 114.3 | 12.09 | 124.2 | 13.65 | 128.1 | 13.98 | 133.2 | 14.31 | 136.8 | 14.55 |
| | | 607.5 | 96.9 | 8.55 | 105.0 | 10.26 | 114.3 | 11.94 | 124.2 | 13.50 | 128.1 | 13.83 | 133.2 | 14.19 | 136.8 | 14.37 |
| | 20 | 162.0 | 96.6 | 12.15 | 104.4 | 14.16 | 113.7 | 16.47 | 123.6 | 18.51 | 127.5 | 18.96 | 132.3 | 19.41 | 136.2 | 19.80 |
| | | 202.5 | 96.6 | 11.91 | 104.4 | 13.92 | 113.7 | 16.20 | 123.6 | 18.21 | 127.5 | 18.66 | 132.3 | 19.11 | 136.2 | 19.50 |
| | | 405.0 | 96.6 | 10.98 | 104.4 | 12.99 | 113.7 | 15.15 | 123.6 | 17.04 | 127.5 | 17.43 | 132.3 | 17.94 | 136.2 | 18.27 |
| | | 506.3 | 96.6 | 10.65 | 104.4 | 12.69 | 113.7 | 14.82 | 123.6 | 16.71 | 127.5 | 17.16 | 132.3 | 17.61 | 136.2 | 17.76 |
| | | 607.5 | 96.6 | 10.47 | 104.4 | 12.57 | 113.7 | 14.64 | 123.6 | 16.56 | 127.5 | 17.01 | 132.3 | 17.43 | 136.2 | 17.52 |
| | 25 | 162.0 | 96.6 | 14.88 | 104.4 | 17.34 | 113.7 | 20.16 | 123.6 | 22.71 | 127.5 | 23.19 | 132.3 | 23.76 | 136.2 | 24.21 |
| | | 202.5 | 96.6 | 14.58 | 104.4 | 17.04 | 113.7 | 19.83 | 123.6 | 22.35 | 127.5 | 22.83 | 132.3 | 23.40 | 136.2 | 23.85 |
| | | 405.0 | 96.6 | 13.41 | 104.4 | 15.93 | 113.7 | 18.54 | 123.6 | 20.88 | 127.5 | 21.39 | 132.3 | 21.96 | 136.2 | 22.35 |
| | | 506.3 | 96.6 | 13.02 | 104.4 | 15.60 | 113.7 | 18.15 | 123.6 | 20.43 | 127.5 | 21.00 | 132.3 | 21.51 | 136.2 | 21.78 |
| | | 607.5 | 96.6 | 12.84 | 104.4 | 15.42 | 113.7 | 17.97 | 123.6 | 20.22 | 127.5 | 20.82 | 132.3 | 21.27 | 136.2 | 21.51 |
| | 30 | 162.0 | 96.6 | 18.12 | 104.4 | 21.12 | 113.7 | 24.57 | 123.6 | 27.69 | 127.5 | 28.29 | 132.3 | 29.04 | 136.2 | 29.55 |
| | | 202.5 | 96.6 | 17.76 | 104.4 | 20.79 | 113.7 | 24.18 | 123.6 | 27.24 | 127.5 | 27.84 | 132.3 | 28.59 | 136.2 | 29.07 |
| | | 405.0 | 96.6 | 16.38 | 104.4 | 19.38 | 113.7 | 22.62 | 123.6 | 25.47 | 127.5 | 26.07 | 132.3 | 26.73 | 136.2 | 27.24 |
| | | 506.3 | 96.6 | 15.93 | 104.4 | 18.99 | 113.7 | 22.11 | 123.6 | 24.96 | 127.5 | 25.56 | 132.3 | 26.25 | 136.2 | 26.58 |
| | | 607.5 | 96.6 | 15.72 | 104.4 | 18.81 | 113.7 | 21.87 | 123.6 | 24.72 | 127.5 | 25.32 | 132.3 | 25.98 | 136.2 | 26.25 |
| | 35 | 162.0 | 89.7 | 18.87 | 97.2 | 21.90 | 105.9 | 25.53 | 115.2 | 28.77 | 118.8 | 29.43 | 123.3 | 30.18 | 126.6 | 30.75 |
| | | 202.5 | 89.7 | 18.48 | 97.2 | 21.57 | 105.9 | 25.11 | 115.2 | 28.29 | 118.8 | 28.98 | 123.3 | 29.70 | 126.6 | 30.24 |
| | | 405.0 | 89.7 | 16.98 | 97.2 | 20.16 | 105.9 | 23.52 | 115.2 | 26.46 | 118.8 | 27.12 | 123.3 | 27.81 | 126.6 | 28.29 |
| | | 506.3 | 89.7 | 16.53 | 97.2 | 19.71 | 105.9 | 23.01 | 115.2 | 25.95 | 118.8 | 26.58 | 123.3 | 27.30 | 126.6 | 27.63 |
| | | 607.5 | 89.7 | 16.32 | 97.2 | 19.50 | 105.9 | 22.77 | 115.2 | 25.71 | 118.8 | 26.28 | 123.3 | 27.06 | 126.6 | 27.30 |
| | 40 | 162.0 | 83.4 | 20.76 | 90.3 | 24.06 | 98.4 | 28.08 | 106.8 | 31.59 | 109.8 | 32.34 | 114.3 | 33.12 | 117.3 | 33.72 |
| | | 202.5 | 83.4 | 20.34 | 90.3 | 23.67 | 98.4 | 27.63 | 106.8 | 31.08 | 109.8 | 31.80 | 114.3 | 32.58 | 117.3 | 33.21 |
| | | 405.0 | 83.4 | 18.66 | 90.3 | 22.17 | 98.4 | 25.80 | 106.8 | 29.07 | 109.8 | 29.76 | 114.3 | 30.54 | 117.3 | 31.14 |
| | | 506.3 | 83.4 | 18.15 | 90.3 | 21.66 | 98.4 | 25.29 | 106.8 | 28.53 | 109.8 | 29.19 | 114.3 | 29.97 | 117.3 | 30.36 |
| | | 607.5 | 83.4 | 17.91 | 90.3 | 21.42 | 98.4 | 25.05 | 106.8 | 28.23 | 109.8 | 28.92 | 114.3 | 29.70 | 117.3 | 29.97 |
| | 45 | 162.0 | 76.8 | 22.62 | 83.1 | 26.19 | 90.6 | 30.66 | 98.4 | 34.41 | 101.1 | 35.22 | 105.3 | 36.06 | 108.0 | 36.69 |
| | | 202.5 | 76.8 | 22.17 | 83.1 | 25.80 | 90.6 | 30.15 | 98.4 | 33.87 | 101.1 | 34.65 | 105.3 | 35.49 | 108.0 | 36.15 |
| | | 405.0 | 76.8 | 20.34 | 83.1 | 24.18 | 90.6 | 28.08 | 98.4 | 31.71 | 101.1 | 32.37 | 105.3 | 33.27 | 108.0 | 33.99 |
| | | 506.3 | 76.8 | 19.77 | 83.1 | 23.61 | 90.6 | 27.57 | 98.4 | 31.08 | 101.1 | 31.80 | 105.3 | 32.64 | 108.0 | 33.09 |
| | | 607.5 | 76.8 | 19.50 | 83.1 | 23.34 | 90.6 | 27.33 | 98.4 | 30.78 | 101.1 | 31.53 | 105.3 | 32.34 | 108.0 | 32.64 |
| 100 | 10 | 162.0 | 91.8 | 6.93 | 99.3 | 8.13 | 108.0 | 9.42 | 117.6 | 10.53 | 121.2 | 10.80 | 125.7 | 11.16 | 129.3 | 11.40 |
| | | 202.5 | 91.8 | 6.81 | 99.3 | 7.98 | 108.0 | 9.27 | 117.6 | 10.38 | 121.2 | 10.65 | 125.7 | 10.98 | 129.3 | 11.19 |
| | | 405.0 | 91.8 | 6.27 | 99.3 | 7.38 | 108.0 | 8.67 | 117.6 | 9.81 | 121.2 | 10.08 | 125.7 | 10.29 | 129.3 | 10.38 |
| | | 506.3 | 91.8 | 6.18 | 99.3 | 7.23 | 108.0 | 8.52 | 117.6 | 9.54 | 121.2 | 9.81 | 125.7 | 10.08 | 129.3 | 10.23 |
| | | 607.5 | 91.8 | 6.12 | 99.3 | 7.14 | 108.0 | 8.43 | 117.6 | 9.39 | 121.2 | 9.66 | 125.7 | 9.96 | 129.3 | 10.17 |
| | 15 | 162.0 | 91.8 | 9.42 | 99.3 | 10.98 | 108.0 | 12.81 | 117.6 | 14.37 | 121.2 | 14.70 | 125.7 | 15.12 | 129.3 | 15.39 |
| | | 202.5 | 91.8 | 9.24 | 99.3 | 10.80 | 108.0 | 12.60 | 117.6 | 14.16 | 121.2 | 14.49 | 125.7 | 14.88 | 129.3 | 15.15 |
| | | 405.0 | 91.8 | 8.52 | 99.3 | 10.08 | 108.0 | 11.76 | 117.6 | 13.26 | 121.2 | 13.59 | 125.7 | 13.92 | 129.3 | 14.16 |
| | | 506.3 | 91.8 | 8.31 | 99.3 | 9.87 | 108.0 | 11.52 | 117.6 | 12.99 | 121.2 | 13.32 | 125.7 | 13.65 | 129.3 | 13.80 |
| | | 607.5 | 91.8 | 8.19 | 99.3 | 9.75 | 108.0 | 11.43 | 117.6 | 12.84 | 121.2 | 13.17 | 125.7 | 13.50 | 129.3 | 13.65 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Cooling Capacity(42HP)

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 162.0 | 91.8 | 11.64 | 99.3 | 13.53 | 108.0 | 15.81 | 117.6 | 17.79 | 121.2 | 18.18 | 125.7 | 18.63 | 129.3 | 18.96 |
| | | 202.5 | 91.8 | 11.43 | 99.3 | 13.32 | 108.0 | 15.54 | 117.6 | 17.49 | 121.2 | 17.88 | 125.7 | 18.33 | 129.3 | 18.66 |
| | | 405.0 | 91.8 | 10.53 | 99.3 | 12.48 | 108.0 | 14.49 | 117.6 | 16.32 | 121.2 | 16.71 | 125.7 | 17.16 | 129.3 | 17.49 |
| | | 506.3 | 91.8 | 10.20 | 99.3 | 12.21 | 108.0 | 14.19 | 117.6 | 16.05 | 121.2 | 16.44 | 125.7 | 16.83 | 129.3 | 16.98 |
| | | 607.5 | 91.8 | 10.02 | 99.3 | 12.06 | 108.0 | 14.07 | 117.6 | 15.90 | 121.2 | 16.29 | 125.7 | 16.65 | 129.3 | 16.74 |
| | 25 | 162.0 | 91.8 | 14.22 | 99.3 | 16.53 | 108.0 | 19.26 | 117.6 | 21.69 | 121.2 | 22.20 | 125.7 | 22.68 | 129.3 | 23.16 |
| | | 202.5 | 91.8 | 13.92 | 99.3 | 16.26 | 108.0 | 18.93 | 117.6 | 21.33 | 121.2 | 21.84 | 125.7 | 22.35 | 129.3 | 22.77 |
| | | 405.0 | 91.8 | 12.81 | 99.3 | 15.21 | 108.0 | 17.70 | 117.6 | 19.95 | 121.2 | 20.40 | 125.7 | 20.94 | 129.3 | 21.27 |
| | | 506.3 | 91.8 | 12.48 | 99.3 | 14.88 | 108.0 | 17.31 | 117.6 | 19.56 | 121.2 | 20.01 | 125.7 | 20.55 | 129.3 | 20.73 |
| | | 607.5 | 91.8 | 12.30 | 99.3 | 14.70 | 108.0 | 17.13 | 117.6 | 19.35 | 121.2 | 19.80 | 125.7 | 20.37 | 129.3 | 20.43 |
| | 30 | 162.0 | 91.8 | 17.52 | 99.3 | 20.34 | 108.0 | 23.67 | 117.6 | 26.67 | 121.2 | 27.30 | 125.7 | 27.96 | 129.3 | 28.47 |
| | | 202.5 | 91.8 | 17.16 | 99.3 | 20.01 | 108.0 | 23.28 | 117.6 | 26.25 | 121.2 | 26.85 | 125.7 | 27.51 | 129.3 | 28.02 |
| | | 405.0 | 91.8 | 15.75 | 99.3 | 18.66 | 108.0 | 21.78 | 117.6 | 24.51 | 121.2 | 25.08 | 125.7 | 25.74 | 129.3 | 26.19 |
| | | 506.3 | 91.8 | 15.33 | 99.3 | 18.27 | 108.0 | 21.33 | 117.6 | 24.00 | 121.2 | 24.63 | 125.7 | 25.23 | 129.3 | 25.50 |
| | | 607.5 | 91.8 | 15.09 | 99.3 | 18.09 | 108.0 | 21.12 | 117.6 | 23.76 | 121.2 | 24.39 | 125.7 | 24.99 | 129.3 | 25.17 |
| | 35 | 162.0 | 87.3 | 18.48 | 94.5 | 21.45 | 102.6 | 24.96 | 111.6 | 28.14 | 115.2 | 28.83 | 119.7 | 29.49 | 122.7 | 30.00 |
| | | 202.5 | 87.3 | 18.09 | 94.5 | 21.12 | 102.6 | 24.57 | 111.6 | 27.69 | 115.2 | 28.35 | 119.7 | 29.01 | 122.7 | 29.52 |
| | | 405.0 | 87.3 | 16.65 | 94.5 | 19.71 | 102.6 | 22.95 | 111.6 | 25.86 | 115.2 | 26.52 | 119.7 | 27.18 | 122.7 | 27.63 |
| | | 506.3 | 87.3 | 16.14 | 94.5 | 19.32 | 102.6 | 22.50 | 111.6 | 25.35 | 115.2 | 26.01 | 119.7 | 26.67 | 122.7 | 26.91 |
| | | 607.5 | 87.3 | 15.90 | 94.5 | 19.14 | 102.6 | 22.29 | 111.6 | 25.11 | 115.2 | 25.77 | 119.7 | 26.43 | 122.7 | 26.55 |
| | 40 | 162.0 | 82.5 | 20.67 | 89.4 | 24.06 | 97.2 | 28.02 | 105.9 | 31.53 | 108.9 | 32.34 | 113.1 | 33.12 | 116.4 | 33.69 |
| | | 202.5 | 82.5 | 20.28 | 89.4 | 23.67 | 97.2 | 27.57 | 105.9 | 31.02 | 108.9 | 31.80 | 113.1 | 32.58 | 116.4 | 33.15 |
| | | 405.0 | 82.5 | 18.66 | 89.4 | 22.11 | 97.2 | 25.80 | 105.9 | 29.01 | 108.9 | 29.70 | 113.1 | 30.48 | 116.4 | 31.02 |
| | | 506.3 | 82.5 | 18.15 | 89.4 | 21.66 | 97.2 | 25.23 | 105.9 | 28.47 | 108.9 | 29.19 | 113.1 | 29.91 | 116.4 | 30.18 |
| | | 607.5 | 82.5 | 17.91 | 89.4 | 21.45 | 97.2 | 24.96 | 105.9 | 28.20 | 108.9 | 28.95 | 113.1 | 29.64 | 116.4 | 29.79 |
| | 45 | 162.0 | 77.7 | 22.89 | 84.3 | 26.67 | 92.1 | 31.08 | 99.9 | 34.92 | 102.6 | 35.88 | 106.8 | 36.75 | 110.1 | 37.35 |
| | | 202.5 | 77.7 | 22.44 | 84.3 | 26.25 | 92.1 | 30.57 | 99.9 | 34.38 | 102.6 | 35.25 | 106.8 | 36.15 | 110.1 | 36.78 |
| | | 405.0 | 77.7 | 20.67 | 84.3 | 24.51 | 92.1 | 28.62 | 99.9 | 32.19 | 102.6 | 32.88 | 106.8 | 33.75 | 110.1 | 34.44 |
| | | 506.3 | 77.7 | 20.16 | 84.3 | 24.00 | 92.1 | 27.96 | 99.9 | 31.59 | 102.6 | 32.37 | 106.8 | 33.15 | 110.1 | 33.48 |
| | | 607.5 | 77.7 | 19.92 | 84.3 | 23.76 | 92.1 | 27.63 | 99.9 | 31.29 | 102.6 | 32.10 | 106.8 | 32.85 | 110.1 | 33.00 |
| 90 | 10 | 162.0 | 82.5 | 6.00 | 89.4 | 6.96 | 97.2 | 8.04 | 105.9 | 9.15 | 108.9 | 9.36 | 113.1 | 9.66 | 116.4 | 9.81 |
| | | 202.5 | 82.5 | 5.91 | 89.4 | 6.87 | 97.2 | 7.92 | 105.9 | 9.00 | 108.9 | 9.21 | 113.1 | 9.48 | 116.4 | 9.66 |
| | | 405.0 | 82.5 | 5.46 | 89.4 | 6.42 | 97.2 | 7.50 | 105.9 | 8.46 | 108.9 | 8.64 | 113.1 | 8.85 | 116.4 | 9.00 |
| | | 506.3 | 82.5 | 5.25 | 89.4 | 6.33 | 97.2 | 7.29 | 105.9 | 8.25 | 108.9 | 8.46 | 113.1 | 8.67 | 116.4 | 8.73 |
| | | 607.5 | 82.5 | 5.13 | 89.4 | 6.27 | 97.2 | 7.17 | 105.9 | 8.13 | 108.9 | 8.40 | 113.1 | 8.61 | 116.4 | 8.61 |
| | 15 | 162.0 | 82.5 | 8.13 | 89.4 | 9.45 | 97.2 | 10.98 | 105.9 | 12.39 | 108.9 | 12.66 | 113.1 | 13.02 | 116.4 | 13.26 |
| | | 202.5 | 82.5 | 7.98 | 89.4 | 9.30 | 97.2 | 10.80 | 105.9 | 12.21 | 108.9 | 12.48 | 113.1 | 12.81 | 116.4 | 13.02 |
| | | 405.0 | 82.5 | 7.35 | 89.4 | 8.70 | 97.2 | 10.14 | 105.9 | 11.43 | 108.9 | 11.70 | 113.1 | 11.97 | 116.4 | 12.21 |
| | | 506.3 | 82.5 | 7.14 | 89.4 | 8.52 | 97.2 | 9.93 | 105.9 | 11.19 | 108.9 | 11.49 | 113.1 | 11.76 | 116.4 | 11.88 |
| | | 607.5 | 82.5 | 7.02 | 89.4 | 8.43 | 97.2 | 9.81 | 105.9 | 11.10 | 108.9 | 11.37 | 113.1 | 11.64 | 116.4 | 11.70 |
| | 20 | 162.0 | 82.5 | 9.99 | 89.4 | 11.67 | 97.2 | 13.59 | 105.9 | 15.30 | 108.9 | 15.60 | 113.1 | 16.02 | 116.4 | 16.29 |
| | | 202.5 | 82.5 | 9.81 | 89.4 | 11.49 | 97.2 | 13.38 | 105.9 | 15.03 | 108.9 | 15.36 | 113.1 | 15.75 | 116.4 | 16.05 |
| | | 405.0 | 82.5 | 9.03 | 89.4 | 10.71 | 97.2 | 12.48 | 105.9 | 14.04 | 108.9 | 14.43 | 113.1 | 14.76 | 116.4 | 15.03 |
| | | 506.3 | 82.5 | 8.79 | 89.4 | 10.47 | 97.2 | 12.27 | 105.9 | 13.80 | 108.9 | 14.16 | 113.1 | 14.49 | 116.4 | 14.64 |
| | | 607.5 | 82.5 | 8.70 | 89.4 | 10.35 | 97.2 | 12.15 | 105.9 | 13.71 | 108.9 | 14.01 | 113.1 | 14.34 | 116.4 | 14.46 |
| | 25 | 162.0 | 82.5 | 12.21 | 89.4 | 14.22 | 97.2 | 16.53 | 105.9 | 18.63 | 108.9 | 19.08 | 113.1 | 19.53 | 116.4 | 19.92 |
| | | 202.5 | 82.5 | 11.97 | 89.4 | 13.98 | 97.2 | 16.26 | 105.9 | 18.33 | 108.9 | 18.78 | 113.1 | 19.23 | 116.4 | 19.62 |
| | | 405.0 | 82.5 | 11.04 | 89.4 | 13.08 | 97.2 | 15.21 | 105.9 | 17.16 | 108.9 | 17.55 | 113.1 | 18.00 | 116.4 | 18.33 |
| | | 506.3 | 82.5 | 10.71 | 89.4 | 12.81 | 97.2 | 14.94 | 105.9 | 16.83 | 108.9 | 17.22 | 113.1 | 17.67 | 116.4 | 17.88 |
| | | 607.5 | 82.5 | 10.53 | 89.4 | 12.66 | 97.2 | 14.79 | 105.9 | 16.65 | 108.9 | 17.04 | 113.1 | 17.49 | 116.4 | 17.67 |
| | 30 | 162.0 | 82.5 | 15.06 | 89.4 | 17.49 | 97.2 | 20.40 | 105.9 | 22.92 | 108.9 | 23.49 | 113.1 | 24.06 | 116.4 | 24.51 |
| | | 202.5 | 82.5 | 14.76 | 89.4 | 17.22 | 97.2 | 20.04 | 105.9 | 22.56 | 108.9 | 23.13 | 113.1 | 23.67 | 116.4 | 24.12 |
| | | 405.0 | 82.5 | 13.53 | 89.4 | 16.11 | 97.2 | 18.72 | 105.9 | 21.12 | 108.9 | 21.60 | 113.1 | 22.17 | 116.4 | 22.56 |
| | | 506.3 | 82.5 | 13.20 | 89.4 | 15.75 | 97.2 | 18.33 | 105.9 | 20.67 | 108.9 | 21.21 | 113.1 | 21.72 | 116.4 | 21.96 |
| | | 607.5 | 82.5 | 13.05 | 89.4 | 15.60 | 97.2 | 18.12 | 105.9 | 20.43 | 108.9 | 21.03 | 113.1 | 21.51 | 116.4 | 21.63 |
| | 35 | 162.0 | 80.1 | 16.26 | 87.0 | 18.84 | 94.8 | 21.96 | 102.9 | 24.75 | 105.9 | 25.32 | 110.1 | 25.92 | 113.1 | 26.43 |
| | | 202.5 | 80.1 | 15.93 | 87.0 | 18.54 | 94.8 | 21.60 | 102.9 | 24.33 | 105.9 | 24.90 | 110.1 | 25.50 | 113.1 | 26.01 |
| | | 405.0 | 80.1 | 14.64 | 87.0 | 17.37 | 94.8 | 20.22 | 102.9 | 22.77 | 105.9 | 23.28 | 110.1 | 23.91 | 113.1 | 24.33 |
| | | 506.3 | 80.1 | 14.19 | 87.0 | 16.98 | 94.8 | 19.77 | 102.9 | 22.35 | 105.9 | 22.89 | 110.1 | 23.46 | 113.1 | 23.67 |
| | | 607.5 | 80.1 | 13.98 | 87.0 | 16.80 | 94.8 | 19.56 | 102.9 | 22.11 | 105.9 | 22.71 | 110.1 | 23.22 | 113.1 | 23.34 |
| | 40 | 162.0 | 78.0 | 18.63 | 84.3 | 21.69 | 92.1 | 25.26 | 99.9 | 28.44 | 102.9 | 29.10 | 107.1 | 29.82 | 109.8 | 30.33 |
| | | 202.5 | 78.0 | 18.27 | 84.3 | 21.33 | 92.1 | 24.84 | 99.9 | 27.96 | 102.9 | 28.62 | 107.1 | 29.37 | 109.8 | 29.85 |
| | | 405.0 | 78.0 | 16.83 | 84.3 | 19.95 | 92.1 | 23.22 | 99.9 | 26.13 | 102.9 | 26.79 | 107.1 | 27.45 | 109.8 | 27.96 |
| | | 506.3 | 78.0 | 16.32 | 84.3 | 19.50 | 92.1 | 22.74 | 99.9 | 25.62 | 102.9 | 26.28 | 107.1 | 26.97 | 109.8 | 27.24 |
| | | 607.5 | 78.0 | 16.08 | 84.3 | 19.26 | 92.1 | 22.47 | 99.9 | 25.38 | 102.9 | 26.04 | 107.1 | 26.70 | 109.8 | 26.88 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 162.0 | 75.6 | 21.03 | 81.9 | 24.54 | 89.1 | 28.53 | 96.9 | 32.13 | 99.9 | 32.88 | 103.8 | 33.75 | 106.8 | 34.23 |
| | | 202.5 | 75.6 | 20.61 | 81.9 | 24.12 | 89.1 | 28.08 | 96.9 | 31.59 | 99.9 | 32.37 | 103.8 | 33.21 | 106.8 | 33.69 |
| | | 405.0 | 75.6 | 18.99 | 81.9 | 22.50 | 89.1 | 26.25 | 96.9 | 29.46 | 99.9 | 30.30 | 103.8 | 31.02 | 106.8 | 31.59 |
| | | 506.3 | 75.6 | 18.45 | 81.9 | 21.99 | 89.1 | 25.68 | 96.9 | 28.92 | 99.9 | 29.70 | 103.8 | 30.48 | 106.8 | 30.81 |
| | | 607.5 | 75.6 | 18.15 | 81.9 | 21.75 | 89.1 | 25.41 | 96.9 | 28.62 | 99.9 | 29.40 | 103.8 | 30.18 | 106.8 | 30.42 |
| 80 | 10 | 162.0 | 73.2 | 5.04 | 79.5 | 5.82 | 86.7 | 6.81 | 94.2 | 7.74 | 96.9 | 7.83 | 100.5 | 8.13 | 103.5 | 8.16 |
| | | 202.5 | 73.2 | 4.92 | 79.5 | 5.73 | 86.7 | 6.69 | 94.2 | 7.62 | 96.9 | 7.71 | 100.5 | 7.98 | 103.5 | 8.04 |
| | | 405.0 | 73.2 | 4.50 | 79.5 | 5.43 | 86.7 | 6.21 | 94.2 | 7.08 | 96.9 | 7.23 | 100.5 | 7.38 | 103.5 | 7.50 |
| | | 506.3 | 73.2 | 4.38 | 79.5 | 5.25 | 86.7 | 6.12 | 94.2 | 6.84 | 96.9 | 7.02 | 100.5 | 7.29 | 103.5 | 7.41 |
| | | 607.5 | 73.2 | 4.35 | 79.5 | 5.16 | 86.7 | 6.06 | 94.2 | 6.75 | 96.9 | 6.90 | 100.5 | 7.23 | 103.5 | 7.35 |
| | 15 | 162.0 | 73.2 | 6.84 | 79.5 | 7.92 | 86.7 | 9.24 | 94.2 | 10.41 | 96.9 | 10.65 | 100.5 | 10.92 | 103.5 | 11.10 |
| | | 202.5 | 73.2 | 6.69 | 79.5 | 7.80 | 86.7 | 9.09 | 94.2 | 10.26 | 96.9 | 10.47 | 100.5 | 10.74 | 103.5 | 10.92 |
| | | 405.0 | 73.2 | 6.12 | 79.5 | 7.29 | 86.7 | 8.46 | 94.2 | 9.57 | 96.9 | 9.81 | 100.5 | 10.02 | 103.5 | 10.20 |
| | | 506.3 | 73.2 | 5.97 | 79.5 | 7.14 | 86.7 | 8.31 | 94.2 | 9.36 | 96.9 | 9.57 | 100.5 | 9.87 | 103.5 | 9.96 |
| | | 607.5 | 73.2 | 5.88 | 79.5 | 7.05 | 86.7 | 8.22 | 94.2 | 9.24 | 96.9 | 9.48 | 100.5 | 9.78 | 103.5 | 9.87 |
| | 20 | 162.0 | 73.2 | 8.40 | 79.5 | 9.81 | 86.7 | 11.37 | 94.2 | 12.78 | 96.9 | 13.14 | 100.5 | 13.41 | 103.5 | 13.71 |
| | | 202.5 | 73.2 | 8.25 | 79.5 | 9.63 | 86.7 | 11.19 | 94.2 | 12.60 | 96.9 | 12.93 | 100.5 | 13.20 | 103.5 | 13.47 |
| | | 405.0 | 73.2 | 7.59 | 79.5 | 8.97 | 86.7 | 10.47 | 94.2 | 11.82 | 96.9 | 12.09 | 100.5 | 12.36 | 103.5 | 12.60 |
| | | 506.3 | 73.2 | 7.35 | 79.5 | 8.79 | 86.7 | 10.26 | 94.2 | 11.58 | 96.9 | 11.88 | 100.5 | 12.15 | 103.5 | 12.27 |
| | | 607.5 | 73.2 | 7.23 | 79.5 | 8.73 | 86.7 | 10.14 | 94.2 | 11.49 | 96.9 | 11.76 | 100.5 | 12.03 | 103.5 | 12.09 |
| | 25 | 162.0 | 73.2 | 10.23 | 79.5 | 11.88 | 86.7 | 13.86 | 94.2 | 15.63 | 96.9 | 16.02 | 100.5 | 16.41 | 103.5 | 16.71 |
| | | 202.5 | 73.2 | 10.02 | 79.5 | 11.70 | 86.7 | 13.65 | 94.2 | 15.36 | 96.9 | 15.75 | 100.5 | 16.14 | 103.5 | 16.44 |
| | | 405.0 | 73.2 | 9.24 | 79.5 | 10.98 | 86.7 | 12.75 | 94.2 | 14.37 | 96.9 | 14.70 | 100.5 | 15.09 | 103.5 | 15.36 |
| | | 506.3 | 73.2 | 8.97 | 79.5 | 10.74 | 86.7 | 12.54 | 94.2 | 14.10 | 96.9 | 14.43 | 100.5 | 14.82 | 103.5 | 14.97 |
| | | 607.5 | 73.2 | 8.82 | 79.5 | 10.65 | 86.7 | 12.42 | 94.2 | 13.95 | 96.9 | 14.28 | 100.5 | 14.67 | 103.5 | 14.79 |
| | 30 | 162.0 | 73.2 | 12.63 | 79.5 | 14.67 | 86.7 | 17.10 | 94.2 | 19.26 | 96.9 | 19.71 | 100.5 | 20.16 | 103.5 | 20.55 |
| | | 202.5 | 73.2 | 12.36 | 79.5 | 14.43 | 86.7 | 16.83 | 94.2 | 18.93 | 96.9 | 19.38 | 100.5 | 19.83 | 103.5 | 20.22 |
| | | 405.0 | 73.2 | 11.37 | 79.5 | 13.47 | 86.7 | 15.72 | 94.2 | 17.67 | 96.9 | 18.09 | 100.5 | 18.54 | 103.5 | 18.87 |
| | | 506.3 | 73.2 | 11.04 | 79.5 | 13.20 | 86.7 | 15.36 | 94.2 | 17.31 | 96.9 | 17.76 | 100.5 | 18.21 | 103.5 | 18.39 |
| | | 607.5 | 73.2 | 10.86 | 79.5 | 13.05 | 86.7 | 15.21 | 94.2 | 17.16 | 96.9 | 17.61 | 100.5 | 18.06 | 103.5 | 18.12 |
| | 35 | 162.0 | 73.2 | 14.04 | 79.5 | 16.32 | 86.7 | 18.96 | 94.2 | 21.33 | 96.9 | 21.84 | 100.5 | 22.41 | 103.5 | 22.80 |
| | | 202.5 | 73.2 | 13.77 | 79.5 | 16.05 | 86.7 | 18.66 | 94.2 | 21.00 | 96.9 | 21.51 | 100.5 | 22.05 | 103.5 | 22.44 |
| | | 405.0 | 73.2 | 12.63 | 79.5 | 14.97 | 86.7 | 17.43 | 94.2 | 19.65 | 96.9 | 20.10 | 100.5 | 20.61 | 103.5 | 21.00 |
| | | 506.3 | 73.2 | 12.30 | 79.5 | 14.64 | 86.7 | 17.10 | 94.2 | 19.26 | 96.9 | 19.71 | 100.5 | 20.28 | 103.5 | 20.43 |
| | | 607.5 | 73.2 | 12.15 | 79.5 | 14.49 | 86.7 | 16.92 | 94.2 | 19.08 | 96.9 | 19.53 | 100.5 | 20.10 | 103.5 | 20.16 |
| | 40 | 162.0 | 73.2 | 16.59 | 79.5 | 19.32 | 86.7 | 22.47 | 94.2 | 25.32 | 96.9 | 25.86 | 100.5 | 26.55 | 103.5 | 27.00 |
| | | 202.5 | 73.2 | 16.26 | 79.5 | 18.99 | 86.7 | 22.11 | 94.2 | 24.90 | 96.9 | 25.47 | 100.5 | 26.13 | 103.5 | 26.58 |
| | | 405.0 | 73.2 | 14.97 | 79.5 | 17.70 | 86.7 | 20.67 | 94.2 | 23.28 | 96.9 | 23.85 | 100.5 | 24.45 | 103.5 | 24.90 |
| | | 506.3 | 73.2 | 14.55 | 79.5 | 17.37 | 86.7 | 20.22 | 94.2 | 22.83 | 96.9 | 23.40 | 100.5 | 23.94 | 103.5 | 24.24 |
| | | 607.5 | 73.2 | 14.31 | 79.5 | 17.22 | 86.7 | 20.01 | 94.2 | 22.62 | 96.9 | 23.16 | 100.5 | 23.70 | 103.5 | 23.91 |
| | 45 | 162.0 | 73.2 | 19.14 | 79.5 | 22.32 | 86.7 | 25.98 | 94.2 | 29.28 | 96.9 | 29.88 | 100.5 | 30.66 | 103.5 | 31.17 |
| | | 202.5 | 73.2 | 18.78 | 79.5 | 21.96 | 86.7 | 25.56 | 94.2 | 28.80 | 96.9 | 29.40 | 100.5 | 30.18 | 103.5 | 30.69 |
| | | 405.0 | 73.2 | 17.31 | 79.5 | 20.43 | 86.7 | 23.91 | 94.2 | 26.91 | 96.9 | 27.57 | 100.5 | 28.29 | 103.5 | 28.80 |
| | | 506.3 | 73.2 | 16.77 | 79.5 | 20.10 | 86.7 | 23.34 | 94.2 | 26.40 | 96.9 | 27.06 | 100.5 | 27.63 | 103.5 | 28.02 |
| | | 607.5 | 73.2 | 16.50 | 79.5 | 19.95 | 86.7 | 23.07 | 94.2 | 26.16 | 96.9 | 26.82 | 100.5 | 27.30 | 103.5 | 27.63 |
| 70 | 10 | 162.0 | 64.2 | 4.20 | 69.6 | 4.83 | 75.9 | 5.73 | 82.2 | 6.45 | 84.9 | 6.45 | 87.9 | 6.69 | 90.6 | 6.78 |
| | | 202.5 | 64.2 | 4.14 | 69.6 | 4.77 | 75.9 | 5.64 | 82.2 | 6.33 | 84.9 | 6.36 | 87.9 | 6.60 | 90.6 | 6.69 |
| | | 405.0 | 64.2 | 3.81 | 69.6 | 4.50 | 75.9 | 5.25 | 82.2 | 5.91 | 84.9 | 6.00 | 87.9 | 6.15 | 90.6 | 6.33 |
| | | 506.3 | 64.2 | 3.63 | 69.6 | 4.35 | 75.9 | 5.10 | 82.2 | 5.73 | 84.9 | 5.85 | 87.9 | 6.06 | 90.6 | 6.18 |
| | | 607.5 | 64.2 | 3.57 | 69.6 | 4.26 | 75.9 | 5.01 | 82.2 | 5.64 | 84.9 | 5.76 | 87.9 | 6.00 | 90.6 | 6.09 |
| | 15 | 162.0 | 64.2 | 5.67 | 69.6 | 6.57 | 75.9 | 7.71 | 82.2 | 8.67 | 84.9 | 8.82 | 87.9 | 9.06 | 90.6 | 9.21 |
| | | 202.5 | 64.2 | 5.58 | 69.6 | 6.45 | 75.9 | 7.59 | 82.2 | 8.52 | 84.9 | 8.70 | 87.9 | 8.91 | 90.6 | 9.09 |
| | | 405.0 | 64.2 | 5.13 | 69.6 | 6.06 | 75.9 | 7.08 | 82.2 | 7.98 | 84.9 | 8.13 | 87.9 | 8.37 | 90.6 | 8.52 |
| | | 506.3 | 64.2 | 4.95 | 69.6 | 5.91 | 75.9 | 6.90 | 82.2 | 7.80 | 84.9 | 7.98 | 87.9 | 8.19 | 90.6 | 8.31 |
| | | 607.5 | 64.2 | 4.86 | 69.6 | 5.82 | 75.9 | 6.81 | 82.2 | 7.71 | 84.9 | 7.89 | 87.9 | 8.10 | 90.6 | 8.19 |
| | 20 | 162.0 | 64.2 | 6.99 | 69.6 | 8.10 | 75.9 | 9.45 | 82.2 | 10.65 | 84.9 | 10.92 | 87.9 | 11.13 | 90.6 | 11.37 |
| | | 202.5 | 64.2 | 6.84 | 69.6 | 7.98 | 75.9 | 9.30 | 82.2 | 10.47 | 84.9 | 10.74 | 87.9 | 10.98 | 90.6 | 11.19 |
| | | 405.0 | 64.2 | 6.30 | 69.6 | 7.47 | 75.9 | 8.70 | 82.2 | 9.81 | 84.9 | 10.02 | 87.9 | 10.32 | 90.6 | 10.47 |
| | | 506.3 | 64.2 | 6.12 | 69.6 | 7.29 | 75.9 | 8.52 | 82.2 | 9.63 | 84.9 | 9.87 | 87.9 | 10.08 | 90.6 | 10.20 |
| | | 607.5 | 64.2 | 6.03 | 69.6 | 7.20 | 75.9 | 8.43 | 82.2 | 9.54 | 84.9 | 9.78 | 87.9 | 9.96 | 90.6 | 10.05 |
| | 25 | 162.0 | 64.2 | 8.52 | 69.6 | 9.90 | 75.9 | 11.55 | 82.2 | 13.02 | 84.9 | 13.29 | 87.9 | 13.65 | 90.6 | 13.86 |
| | | 202.5 | 64.2 | 8.37 | 69.6 | 9.75 | 75.9 | 11.37 | 82.2 | 12.81 | 84.9 | 13.08 | 87.9 | 13.41 | 90.6 | 13.65 |
| | | 405.0 | 64.2 | 7.68 | 69.6 | 9.15 | 75.9 | 10.65 | 82.2 | 11.97 | 84.9 | 12.27 | 87.9 | 12.54 | 90.6 | 12.75 |
| | | 506.3 | 64.2 | 7.47 | 69.6 | 8.91 | 75.9 | 10.41 | 82.2 | 11.70 | 84.9 | 12.03 | 87.9 | 12.30 | 90.6 | 12.42 |
| | | 607.5 | 64.2 | 7.35 | 69.6 | 8.79 | 75.9 | 10.32 | 82.2 | 11.55 | 84.9 | 11.91 | 87.9 | 12.21 | 90.6 | 12.27 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 162.0 | 64.2 | 10.53 | 69.6 | 12.18 | 75.9 | 14.22 | 82.2 | 15.96 | 84.9 | 16.38 | 87.9 | 16.77 | 90.6 | 17.04 |
| | | 202.5 | 64.2 | 10.32 | 69.6 | 11.97 | 75.9 | 13.98 | 82.2 | 15.72 | 84.9 | 16.11 | 87.9 | 16.50 | 90.6 | 16.77 |
| | | 405.0 | 64.2 | 9.48 | 69.6 | 11.19 | 75.9 | 13.02 | 82.2 | 14.70 | 84.9 | 15.03 | 87.9 | 15.42 | 90.6 | 15.72 |
| | | 506.3 | 64.2 | 9.18 | 69.6 | 10.98 | 75.9 | 12.81 | 82.2 | 14.43 | 84.9 | 14.76 | 87.9 | 15.15 | 90.6 | 15.33 |
| | | 607.5 | 64.2 | 9.06 | 69.6 | 10.86 | 75.9 | 12.69 | 82.2 | 14.28 | 84.9 | 14.61 | 87.9 | 15.00 | 90.6 | 15.12 |
| | 35 | 162.0 | 64.2 | 11.64 | 69.6 | 13.53 | 75.9 | 15.81 | 82.2 | 17.79 | 84.9 | 18.18 | 87.9 | 18.63 | 90.6 | 18.96 |
| | | 202.5 | 64.2 | 11.43 | 69.6 | 13.32 | 75.9 | 15.54 | 82.2 | 17.49 | 84.9 | 17.88 | 87.9 | 18.33 | 90.6 | 18.66 |
| | | 405.0 | 64.2 | 10.53 | 69.6 | 12.48 | 75.9 | 14.49 | 82.2 | 16.32 | 84.9 | 16.71 | 87.9 | 17.16 | 90.6 | 17.49 |
| | | 506.3 | 64.2 | 10.20 | 69.6 | 12.21 | 75.9 | 14.19 | 82.2 | 16.05 | 84.9 | 16.44 | 87.9 | 16.83 | 90.6 | 16.98 |
| | | 607.5 | 64.2 | 10.02 | 69.6 | 12.06 | 75.9 | 14.07 | 82.2 | 15.90 | 84.9 | 16.29 | 87.9 | 16.65 | 90.6 | 16.74 |
| | 40 | 162.0 | 64.2 | 13.83 | 69.6 | 16.02 | 75.9 | 18.69 | 82.2 | 21.00 | 84.9 | 21.51 | 87.9 | 22.08 | 90.6 | 22.47 |
| | | 202.5 | 64.2 | 13.53 | 69.6 | 15.75 | 75.9 | 18.39 | 82.2 | 20.67 | 84.9 | 21.18 | 87.9 | 21.72 | 90.6 | 22.11 |
| | | 405.0 | 64.2 | 12.42 | 69.6 | 14.76 | 75.9 | 17.16 | 82.2 | 19.32 | 84.9 | 19.83 | 87.9 | 20.34 | 90.6 | 20.67 |
| | | 506.3 | 64.2 | 12.09 | 69.6 | 14.43 | 75.9 | 16.83 | 82.2 | 18.99 | 84.9 | 19.44 | 87.9 | 19.95 | 90.6 | 20.16 |
| | | 607.5 | 64.2 | 11.91 | 69.6 | 14.25 | 75.9 | 16.65 | 82.2 | 18.84 | 84.9 | 19.26 | 87.9 | 19.74 | 90.6 | 19.92 |
| | 45 | 162.0 | 64.2 | 15.99 | 69.6 | 18.51 | 75.9 | 21.57 | 82.2 | 24.21 | 84.9 | 24.84 | 87.9 | 25.53 | 90.6 | 26.01 |
| | | 202.5 | 64.2 | 15.66 | 69.6 | 18.21 | 75.9 | 21.21 | 82.2 | 23.85 | 84.9 | 24.45 | 87.9 | 25.11 | 90.6 | 25.56 |
| | | 405.0 | 64.2 | 14.31 | 69.6 | 17.04 | 75.9 | 19.83 | 82.2 | 22.35 | 84.9 | 22.95 | 87.9 | 23.52 | 90.6 | 23.85 |
| | | 506.3 | 64.2 | 13.98 | 69.6 | 16.65 | 75.9 | 19.44 | 82.2 | 21.96 | 84.9 | 22.44 | 87.9 | 23.07 | 90.6 | 23.34 |
| | | 607.5 | 64.2 | 13.83 | 69.6 | 16.47 | 75.9 | 19.26 | 82.2 | 21.75 | 84.9 | 22.20 | 87.9 | 22.83 | 90.6 | 23.10 |
| 60 | 10 | 162.0 | 54.9 | 3.42 | 59.7 | 3.93 | 64.8 | 4.53 | 70.5 | 5.13 | 72.6 | 5.25 | 75.6 | 5.43 | 77.7 | 5.43 |
| | | 202.5 | 54.9 | 3.33 | 59.7 | 3.87 | 64.8 | 4.44 | 70.5 | 5.04 | 72.6 | 5.16 | 75.6 | 5.31 | 77.7 | 5.37 |
| | | 405.0 | 54.9 | 3.00 | 59.7 | 3.60 | 64.8 | 4.11 | 70.5 | 4.71 | 72.6 | 4.71 | 75.6 | 4.86 | 77.7 | 5.04 |
| | | 506.3 | 54.9 | 2.88 | 59.7 | 3.48 | 64.8 | 4.08 | 70.5 | 4.62 | 72.6 | 4.65 | 75.6 | 4.77 | 77.7 | 4.83 |
| | | 607.5 | 54.9 | 2.82 | 59.7 | 3.42 | 64.8 | 4.05 | 70.5 | 4.56 | 72.6 | 4.62 | 75.6 | 4.71 | 77.7 | 4.71 |
| | 15 | 162.0 | 54.9 | 4.56 | 59.7 | 5.25 | 64.8 | 6.12 | 70.5 | 6.90 | 72.6 | 7.08 | 75.6 | 7.26 | 77.7 | 7.35 |
| | | 202.5 | 54.9 | 4.47 | 59.7 | 5.19 | 64.8 | 6.03 | 70.5 | 6.81 | 72.6 | 6.96 | 75.6 | 7.14 | 77.7 | 7.23 |
| | | 405.0 | 54.9 | 4.08 | 59.7 | 4.86 | 64.8 | 5.64 | 70.5 | 6.36 | 72.6 | 6.45 | 75.6 | 6.63 | 77.7 | 6.81 |
| | | 506.3 | 54.9 | 3.96 | 59.7 | 4.74 | 64.8 | 5.52 | 70.5 | 6.24 | 72.6 | 6.36 | 75.6 | 6.51 | 77.7 | 6.57 |
| | | 607.5 | 54.9 | 3.90 | 59.7 | 4.68 | 64.8 | 5.46 | 70.5 | 6.18 | 72.6 | 6.30 | 75.6 | 6.45 | 77.7 | 6.45 |
| | 20 | 162.0 | 54.9 | 5.58 | 59.7 | 6.45 | 64.8 | 7.53 | 70.5 | 8.49 | 72.6 | 8.73 | 75.6 | 8.88 | 77.7 | 9.06 |
| | | 202.5 | 54.9 | 5.46 | 59.7 | 6.36 | 64.8 | 7.41 | 70.5 | 8.37 | 72.6 | 8.58 | 75.6 | 8.76 | 77.7 | 8.91 |
| | | 405.0 | 54.9 | 5.01 | 59.7 | 5.97 | 64.8 | 6.96 | 70.5 | 7.80 | 72.6 | 8.01 | 75.6 | 8.19 | 77.7 | 8.37 |
| | | 506.3 | 54.9 | 4.89 | 59.7 | 5.85 | 64.8 | 6.81 | 70.5 | 7.68 | 72.6 | 7.86 | 75.6 | 8.07 | 77.7 | 8.13 |
| | | 607.5 | 54.9 | 4.86 | 59.7 | 5.79 | 64.8 | 6.72 | 70.5 | 7.62 | 72.6 | 7.77 | 75.6 | 8.01 | 77.7 | 8.01 |
| | 25 | 162.0 | 54.9 | 6.84 | 59.7 | 7.86 | 64.8 | 9.15 | 70.5 | 10.35 | 72.6 | 10.59 | 75.6 | 10.86 | 77.7 | 11.04 |
| | | 202.5 | 54.9 | 6.69 | 59.7 | 7.74 | 64.8 | 9.03 | 70.5 | 10.20 | 72.6 | 10.41 | 75.6 | 10.71 | 77.7 | 10.86 |
| | | 405.0 | 54.9 | 6.12 | 59.7 | 7.23 | 64.8 | 8.46 | 70.5 | 9.54 | 72.6 | 9.75 | 75.6 | 10.02 | 77.7 | 10.20 |
| | | 506.3 | 54.9 | 5.97 | 59.7 | 7.14 | 64.8 | 8.31 | 70.5 | 9.36 | 72.6 | 9.57 | 75.6 | 9.81 | 77.7 | 9.93 |
| | | 607.5 | 54.9 | 5.88 | 59.7 | 7.08 | 64.8 | 8.22 | 70.5 | 9.27 | 72.6 | 9.51 | 75.6 | 9.69 | 77.7 | 9.78 |
| | 30 | 162.0 | 54.9 | 8.37 | 59.7 | 9.75 | 64.8 | 11.31 | 70.5 | 12.75 | 72.6 | 13.02 | 75.6 | 13.35 | 77.7 | 13.59 |
| | | 202.5 | 54.9 | 8.19 | 59.7 | 9.57 | 64.8 | 11.13 | 70.5 | 12.54 | 72.6 | 12.81 | 75.6 | 13.14 | 77.7 | 13.38 |
| | | 405.0 | 54.9 | 7.53 | 59.7 | 8.91 | 64.8 | 10.41 | 70.5 | 11.70 | 72.6 | 11.97 | 75.6 | 12.30 | 77.7 | 12.54 |
| | | 506.3 | 54.9 | 7.35 | 59.7 | 8.76 | 64.8 | 10.20 | 70.5 | 11.49 | 72.6 | 11.76 | 75.6 | 12.09 | 77.7 | 12.21 |
| | | 607.5 | 54.9 | 7.26 | 59.7 | 8.67 | 64.8 | 10.08 | 70.5 | 11.37 | 72.6 | 11.64 | 75.6 | 11.97 | 77.7 | 12.03 |
| | 35 | 162.0 | 54.9 | 9.27 | 59.7 | 10.83 | 64.8 | 12.57 | 70.5 | 14.16 | 72.6 | 14.49 | 75.6 | 14.82 | 77.7 | 15.12 |
| | | 202.5 | 54.9 | 9.09 | 59.7 | 10.65 | 64.8 | 12.36 | 70.5 | 13.92 | 72.6 | 14.25 | 75.6 | 14.58 | 77.7 | 14.88 |
| | | 405.0 | 54.9 | 8.37 | 59.7 | 9.93 | 64.8 | 11.58 | 70.5 | 13.02 | 72.6 | 13.32 | 75.6 | 13.71 | 77.7 | 13.92 |
| | | 506.3 | 54.9 | 8.13 | 59.7 | 9.69 | 64.8 | 11.31 | 70.5 | 12.75 | 72.6 | 13.08 | 75.6 | 13.41 | 77.7 | 13.53 |
| | | 607.5 | 54.9 | 8.01 | 59.7 | 9.57 | 64.8 | 11.16 | 70.5 | 12.63 | 72.6 | 12.99 | 75.6 | 13.29 | 77.7 | 13.35 |
| | 40 | 162.0 | 54.9 | 11.04 | 59.7 | 12.81 | 64.8 | 14.88 | 70.5 | 16.77 | 72.6 | 17.16 | 75.6 | 17.61 | 77.7 | 17.88 |
| | | 202.5 | 54.9 | 10.80 | 59.7 | 12.60 | 64.8 | 14.64 | 70.5 | 16.50 | 72.6 | 16.89 | 75.6 | 17.31 | 77.7 | 17.61 |
| | | 405.0 | 54.9 | 9.93 | 59.7 | 11.76 | 64.8 | 13.71 | 70.5 | 15.42 | 72.6 | 15.75 | 75.6 | 16.20 | 77.7 | 16.50 |
| | | 506.3 | 54.9 | 9.63 | 59.7 | 11.52 | 64.8 | 13.41 | 70.5 | 15.09 | 72.6 | 15.48 | 75.6 | 15.87 | 77.7 | 16.05 |
| | | 607.5 | 54.9 | 9.51 | 59.7 | 11.43 | 64.8 | 13.29 | 70.5 | 14.94 | 72.6 | 15.36 | 75.6 | 15.72 | 77.7 | 15.81 |
| | 45 | 162.0 | 54.9 | 12.81 | 59.7 | 14.79 | 64.8 | 17.22 | 70.5 | 19.35 | 72.6 | 19.83 | 75.6 | 20.40 | 77.7 | 20.67 |
| | | 202.5 | 54.9 | 12.54 | 59.7 | 14.55 | 64.8 | 16.92 | 70.5 | 19.05 | 72.6 | 19.50 | 75.6 | 20.04 | 77.7 | 20.34 |
| | | 405.0 | 54.9 | 11.49 | 59.7 | 13.59 | 64.8 | 15.81 | 70.5 | 17.82 | 72.6 | 18.21 | 75.6 | 18.72 | 77.7 | 19.05 |
| | | 506.3 | 54.9 | 11.13 | 59.7 | 13.38 | 64.8 | 15.54 | 70.5 | 17.43 | 72.6 | 17.88 | 75.6 | 18.33 | 77.7 | 18.54 |
| | | 607.5 | 54.9 | 10.98 | 59.7 | 13.26 | 64.8 | 15.39 | 70.5 | 17.25 | 72.6 | 17.70 | 75.6 | 18.12 | 77.7 | 18.30 |
| 50 | 10 | 162.0 | 45.9 | 2.43 | 49.8 | 2.88 | 54.0 | 3.48 | 58.8 | 3.81 | 60.6 | 3.84 | 63.0 | 3.99 | 64.8 | 4.08 |
| | | 202.5 | 45.9 | 2.40 | 49.8 | 2.85 | 54.0 | 3.39 | 58.8 | 3.75 | 60.6 | 3.81 | 63.0 | 3.90 | 64.8 | 4.02 |
| | | 405.0 | 45.9 | 2.31 | 49.8 | 2.67 | 54.0 | 3.06 | 58.8 | 3.48 | 60.6 | 3.60 | 63.0 | 3.63 | 64.8 | 3.75 |
| | | 506.3 | 45.9 | 2.19 | 49.8 | 2.58 | 54.0 | 3.06 | 58.8 | 3.36 | 60.6 | 3.48 | 63.0 | 3.54 | 64.8 | 3.60 |
| | | 607.5 | 45.9 | 2.13 | 49.8 | 2.52 | 54.0 | 3.06 | 58.8 | 3.30 | 60.6 | 3.42 | 63.0 | 3.48 | 64.8 | 3.51 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 162.0 | 45.9 | 3.33 | 49.8 | 3.90 | 54.0 | 4.59 | 58.8 | 5.16 | 60.6 | 5.25 | 63.0 | 5.37 | 64.8 | 5.49 |
| | | 202.5 | 45.9 | 3.30 | 49.8 | 3.84 | 54.0 | 4.50 | 58.8 | 5.07 | 60.6 | 5.19 | 63.0 | 5.28 | 64.8 | 5.40 |
| | | 405.0 | 45.9 | 3.06 | 49.8 | 3.63 | 54.0 | 4.17 | 58.8 | 4.74 | 60.6 | 4.86 | 63.0 | 4.95 | 64.8 | 5.07 |
| | | 506.3 | 45.9 | 2.94 | 49.8 | 3.51 | 54.0 | 4.11 | 58.8 | 4.62 | 60.6 | 4.74 | 63.0 | 4.86 | 64.8 | 4.89 |
| | | 607.5 | 45.9 | 2.91 | 49.8 | 3.45 | 54.0 | 4.08 | 58.8 | 4.56 | 60.6 | 4.68 | 63.0 | 4.80 | 64.8 | 4.83 |
| | 20 | 162.0 | 45.9 | 4.14 | 49.8 | 4.80 | 54.0 | 5.61 | 58.8 | 6.33 | 60.6 | 6.51 | 63.0 | 6.63 | 64.8 | 6.72 |
| | | 202.5 | 45.9 | 4.08 | 49.8 | 4.74 | 54.0 | 5.52 | 58.8 | 6.24 | 60.6 | 6.42 | 63.0 | 6.51 | 64.8 | 6.63 |
| | | 405.0 | 45.9 | 3.72 | 49.8 | 4.47 | 54.0 | 5.19 | 58.8 | 5.85 | 60.6 | 5.97 | 63.0 | 6.12 | 64.8 | 6.24 |
| | | 506.3 | 45.9 | 3.63 | 49.8 | 4.35 | 54.0 | 5.07 | 58.8 | 5.73 | 60.6 | 5.85 | 63.0 | 6.03 | 64.8 | 6.06 |
| | | 607.5 | 45.9 | 3.57 | 49.8 | 4.29 | 54.0 | 5.01 | 58.8 | 5.67 | 60.6 | 5.79 | 63.0 | 5.97 | 64.8 | 6.00 |
| | 25 | 162.0 | 45.9 | 5.07 | 49.8 | 5.88 | 54.0 | 6.84 | 58.8 | 7.68 | 60.6 | 7.92 | 63.0 | 8.10 | 64.8 | 8.28 |
| | | 202.5 | 45.9 | 4.95 | 49.8 | 5.79 | 54.0 | 6.75 | 58.8 | 7.59 | 60.6 | 7.80 | 63.0 | 7.98 | 64.8 | 8.13 |
| | | 405.0 | 45.9 | 4.56 | 49.8 | 5.40 | 54.0 | 6.30 | 58.8 | 7.14 | 60.6 | 7.29 | 63.0 | 7.47 | 64.8 | 7.59 |
| | | 506.3 | 45.9 | 4.47 | 49.8 | 5.28 | 54.0 | 6.18 | 58.8 | 6.96 | 60.6 | 7.14 | 63.0 | 7.29 | 64.8 | 7.41 |
| | | 607.5 | 45.9 | 4.41 | 49.8 | 5.25 | 54.0 | 6.12 | 58.8 | 6.87 | 60.6 | 7.05 | 63.0 | 7.20 | 64.8 | 7.32 |
| | 30 | 162.0 | 45.9 | 6.24 | 49.8 | 7.23 | 54.0 | 8.43 | 58.8 | 9.51 | 60.6 | 9.75 | 63.0 | 9.96 | 64.8 | 10.14 |
| | | 202.5 | 45.9 | 6.12 | 49.8 | 7.14 | 54.0 | 8.31 | 58.8 | 9.36 | 60.6 | 9.57 | 63.0 | 9.81 | 64.8 | 9.96 |
| | | 405.0 | 45.9 | 5.64 | 49.8 | 6.69 | 54.0 | 7.74 | 58.8 | 8.76 | 60.6 | 8.97 | 63.0 | 9.18 | 64.8 | 9.36 |
| | | 506.3 | 45.9 | 5.46 | 49.8 | 6.51 | 54.0 | 7.59 | 58.8 | 8.58 | 60.6 | 8.79 | 63.0 | 9.03 | 64.8 | 9.09 |
| | | 607.5 | 45.9 | 5.37 | 49.8 | 6.42 | 54.0 | 7.50 | 58.8 | 8.49 | 60.6 | 8.73 | 63.0 | 8.94 | 64.8 | 8.94 |
| | 35 | 162.0 | 45.9 | 6.93 | 49.8 | 8.04 | 54.0 | 9.39 | 58.8 | 10.53 | 60.6 | 10.83 | 63.0 | 11.10 | 64.8 | 11.28 |
| | | 202.5 | 45.9 | 6.81 | 49.8 | 7.92 | 54.0 | 9.24 | 58.8 | 10.35 | 60.6 | 10.65 | 63.0 | 10.92 | 64.8 | 11.10 |
| | | 405.0 | 45.9 | 6.24 | 49.8 | 7.41 | 54.0 | 8.64 | 58.8 | 9.69 | 60.6 | 9.93 | 63.0 | 10.20 | 64.8 | 10.35 |
| | | 506.3 | 45.9 | 6.06 | 49.8 | 7.23 | 54.0 | 8.46 | 58.8 | 9.54 | 60.6 | 9.75 | 63.0 | 10.02 | 64.8 | 10.08 |
| | | 607.5 | 45.9 | 6.00 | 49.8 | 7.17 | 54.0 | 8.37 | 58.8 | 9.45 | 60.6 | 9.66 | 63.0 | 9.93 | 64.8 | 9.93 |
| | 40 | 162.0 | 45.9 | 8.19 | 49.8 | 9.51 | 54.0 | 11.10 | 58.8 | 12.51 | 60.6 | 12.81 | 63.0 | 13.14 | 64.8 | 13.35 |
| | | 202.5 | 45.9 | 8.01 | 49.8 | 9.36 | 54.0 | 10.92 | 58.8 | 12.30 | 60.6 | 12.60 | 63.0 | 12.93 | 64.8 | 13.14 |
| | | 405.0 | 45.9 | 7.41 | 49.8 | 8.76 | 54.0 | 10.20 | 58.8 | 11.49 | 60.6 | 11.76 | 63.0 | 12.09 | 64.8 | 12.30 |
| | | 506.3 | 45.9 | 7.20 | 49.8 | 8.58 | 54.0 | 10.02 | 58.8 | 11.25 | 60.6 | 11.52 | 63.0 | 11.88 | 64.8 | 11.97 |
| | | 607.5 | 45.9 | 7.08 | 49.8 | 8.49 | 54.0 | 9.93 | 58.8 | 11.13 | 60.6 | 11.43 | 63.0 | 11.76 | 64.8 | 11.82 |
| | 45 | 162.0 | 45.9 | 9.42 | 49.8 | 10.98 | 54.0 | 12.81 | 58.8 | 14.52 | 60.6 | 14.79 | 63.0 | 15.18 | 64.8 | 15.45 |
| | | 202.5 | 45.9 | 9.24 | 49.8 | 10.80 | 54.0 | 12.60 | 58.8 | 14.25 | 60.6 | 14.55 | 63.0 | 14.94 | 64.8 | 15.21 |
| | | 405.0 | 45.9 | 8.58 | 49.8 | 10.08 | 54.0 | 11.76 | 58.8 | 13.26 | 60.6 | 13.59 | 63.0 | 13.98 | 64.8 | 14.25 |
| | | 506.3 | 45.9 | 8.31 | 49.8 | 9.93 | 54.0 | 11.58 | 58.8 | 12.99 | 60.6 | 13.32 | 63.0 | 13.71 | 64.8 | 13.86 |
| | | 607.5 | 45.9 | 8.16 | 49.8 | 9.84 | 54.0 | 11.49 | 58.8 | 12.84 | 60.6 | 13.17 | 63.0 | 13.56 | 64.8 | 13.68 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN440BAS4

**Cooling Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 169.6 | 114.4 | 8.61 | 123.9 | 10.08 | 135.2 | 11.75 | 146.8 | 13.23 | 150.9 | 13.61 | 157.1 | 13.86 | 161.3 | 13.98 |
| | | 212.0 | 114.4 | 8.45 | 123.9 | 9.93 | 135.2 | 11.56 | 146.8 | 13.03 | 150.9 | 13.36 | 157.1 | 13.64 | 161.3 | 13.80 |
| | | 424.0 | 114.4 | 7.85 | 123.9 | 9.30 | 135.2 | 10.84 | 146.8 | 12.19 | 150.9 | 12.41 | 157.1 | 12.79 | 161.3 | 13.08 |
| | | 530.0 | 114.4 | 7.61 | 123.9 | 9.08 | 135.2 | 10.59 | 146.8 | 11.90 | 150.9 | 12.23 | 157.1 | 12.51 | 161.3 | 12.73 |
| | | 636.0 | 114.4 | 7.51 | 123.9 | 8.96 | 135.2 | 10.49 | 146.8 | 11.75 | 150.9 | 12.16 | 157.1 | 12.38 | 161.3 | 12.57 |
| | 15 | 169.6 | 112.5 | 11.37 | 122.0 | 13.22 | 132.9 | 15.42 | 144.5 | 17.37 | 148.7 | 17.79 | 154.6 | 18.19 | 158.7 | 18.47 |
| | | 212.0 | 112.5 | 11.15 | 122.0 | 13.01 | 132.9 | 15.17 | 144.5 | 17.09 | 148.7 | 17.50 | 154.6 | 17.91 | 158.7 | 18.20 |
| | | 424.0 | 112.5 | 10.27 | 122.0 | 12.19 | 132.9 | 14.17 | 144.5 | 15.99 | 148.7 | 16.34 | 154.6 | 16.81 | 158.7 | 17.15 |
| | | 530.0 | 112.5 | 9.99 | 122.0 | 11.91 | 132.9 | 13.89 | 144.5 | 15.64 | 148.7 | 16.05 | 154.6 | 16.46 | 158.7 | 16.75 |
| | | 636.0 | 112.5 | 9.83 | 122.0 | 11.75 | 132.9 | 13.73 | 144.5 | 15.46 | 148.7 | 15.90 | 154.6 | 16.28 | 158.7 | 16.53 |
| | 20 | 169.6 | 111.0 | 13.82 | 120.3 | 16.00 | 131.0 | 18.69 | 142.4 | 21.05 | 146.7 | 21.52 | 152.4 | 22.05 | 156.5 | 22.46 |
| | | 212.0 | 111.0 | 13.54 | 120.3 | 15.75 | 131.0 | 18.38 | 142.4 | 20.71 | 146.7 | 21.18 | 152.4 | 21.71 | 156.5 | 22.12 |
| | | 424.0 | 111.0 | 12.44 | 120.3 | 14.76 | 131.0 | 17.15 | 142.4 | 19.36 | 146.7 | 19.83 | 152.4 | 20.36 | 156.5 | 20.77 |
| | | 530.0 | 111.0 | 12.07 | 120.3 | 14.42 | 131.0 | 16.81 | 142.4 | 18.95 | 146.7 | 19.42 | 152.4 | 19.95 | 156.5 | 20.30 |
| | | 636.0 | 111.0 | 11.91 | 120.3 | 14.23 | 131.0 | 16.62 | 142.4 | 18.76 | 146.7 | 19.23 | 152.4 | 19.76 | 156.5 | 20.07 |
| | 25 | 169.6 | 111.0 | 17.03 | 120.3 | 19.73 | 131.0 | 23.00 | 142.4 | 25.92 | 146.7 | 26.55 | 152.4 | 27.21 | 156.5 | 27.65 |
| | | 212.0 | 111.0 | 16.68 | 120.3 | 19.42 | 131.0 | 22.63 | 142.4 | 25.49 | 146.7 | 26.14 | 152.4 | 26.77 | 156.5 | 27.24 |
| | | 424.0 | 111.0 | 15.34 | 120.3 | 18.20 | 131.0 | 21.18 | 142.4 | 23.85 | 146.7 | 24.44 | 152.4 | 25.08 | 156.5 | 25.61 |
| | | 530.0 | 111.0 | 14.93 | 120.3 | 17.79 | 131.0 | 20.77 | 142.4 | 23.40 | 146.7 | 23.98 | 152.4 | 24.63 | 156.5 | 25.04 |
| | | 636.0 | 111.0 | 14.73 | 120.3 | 17.59 | 131.0 | 20.57 | 142.4 | 23.16 | 146.7 | 23.75 | 152.4 | 24.38 | 156.5 | 24.73 |
| | 30 | 169.6 | 111.0 | 20.42 | 120.3 | 23.72 | 131.0 | 27.62 | 142.4 | 31.13 | 146.7 | 31.83 | 152.4 | 32.67 | 156.5 | 33.15 |
| | | 212.0 | 111.0 | 20.01 | 120.3 | 23.34 | 131.0 | 27.18 | 142.4 | 30.63 | 146.7 | 31.33 | 152.4 | 32.14 | 156.5 | 32.67 |
| | | 424.0 | 111.0 | 18.38 | 120.3 | 21.81 | 131.0 | 25.45 | 142.4 | 28.65 | 146.7 | 29.35 | 152.4 | 30.10 | 156.5 | 30.75 |
| | | 530.0 | 111.0 | 17.91 | 120.3 | 21.36 | 131.0 | 24.91 | 142.4 | 28.06 | 146.7 | 28.82 | 152.4 | 29.53 | 156.5 | 30.04 |
| | | 636.0 | 111.0 | 17.69 | 120.3 | 21.12 | 131.0 | 24.66 | 142.4 | 27.77 | 146.7 | 28.56 | 152.4 | 29.22 | 156.5 | 29.69 |
| | 35 | 169.6 | 99.9 | 20.65 | 108.1 | 24.03 | 117.9 | 27.93 | 128.2 | 31.49 | 132.0 | 32.18 | 137.0 | 33.02 | 140.8 | 33.59 |
| | | 212.0 | 99.9 | 20.24 | 108.1 | 23.63 | 117.9 | 27.49 | 128.2 | 30.98 | 132.0 | 31.67 | 137.0 | 32.49 | 140.8 | 33.08 |
| | | 424.0 | 99.9 | 18.60 | 108.1 | 22.06 | 117.9 | 25.73 | 128.2 | 28.94 | 132.0 | 29.69 | 137.0 | 30.45 | 140.8 | 31.04 |
| | | 530.0 | 99.9 | 18.09 | 108.1 | 21.59 | 117.9 | 25.20 | 128.2 | 28.35 | 132.0 | 29.12 | 137.0 | 29.88 | 140.8 | 30.39 |
| | | 636.0 | 99.9 | 17.82 | 108.1 | 21.36 | 117.9 | 24.95 | 128.2 | 28.06 | 132.0 | 28.82 | 137.0 | 29.57 | 140.8 | 30.07 |
| | 40 | 169.6 | 88.9 | 21.80 | 96.2 | 25.32 | 104.7 | 29.47 | 113.8 | 33.21 | 117.2 | 33.97 | 121.9 | 34.78 | 125.3 | 35.41 |
| | | 212.0 | 88.9 | 21.36 | 96.2 | 24.91 | 104.7 | 29.00 | 113.8 | 32.67 | 117.2 | 33.43 | 121.9 | 34.25 | 125.3 | 34.88 |
| | | 424.0 | 88.9 | 19.60 | 96.2 | 23.28 | 104.7 | 27.12 | 113.8 | 30.51 | 117.2 | 31.27 | 121.9 | 32.14 | 125.3 | 32.80 |
| | | 530.0 | 88.9 | 19.07 | 96.2 | 22.75 | 104.7 | 26.55 | 113.8 | 29.94 | 117.2 | 30.69 | 121.9 | 31.51 | 125.3 | 32.02 |
| | | 636.0 | 88.9 | 18.82 | 96.2 | 22.49 | 104.7 | 26.26 | 113.8 | 29.63 | 117.2 | 30.39 | 121.9 | 31.19 | 125.3 | 31.64 |
| | 45 | 169.6 | 77.6 | 22.94 | 84.2 | 26.62 | 91.5 | 31.01 | 99.4 | 34.94 | 102.5 | 35.76 | 106.6 | 36.54 | 109.7 | 37.24 |
| | | 212.0 | 77.6 | 22.46 | 84.2 | 26.20 | 91.5 | 30.51 | 99.4 | 34.37 | 102.5 | 35.19 | 106.6 | 36.00 | 109.7 | 36.70 |
| | | 424.0 | 77.6 | 20.59 | 84.2 | 24.51 | 91.5 | 28.53 | 99.4 | 32.08 | 102.5 | 32.84 | 106.6 | 33.84 | 109.7 | 34.53 |
| | | 530.0 | 77.6 | 20.07 | 84.2 | 23.91 | 91.5 | 27.90 | 99.4 | 31.51 | 102.5 | 32.27 | 106.6 | 33.14 | 109.7 | 33.66 |
| | | 636.0 | 77.6 | 19.80 | 84.2 | 23.63 | 91.5 | 27.56 | 99.4 | 31.20 | 102.5 | 31.98 | 106.6 | 32.80 | 109.7 | 33.24 |
| 120 | 10 | 169.6 | 108.2 | 8.23 | 117.3 | 9.49 | 127.6 | 11.18 | 138.9 | 12.53 | 143.3 | 12.91 | 148.7 | 13.17 | 152.8 | 13.41 |
| | | 212.0 | 108.2 | 8.05 | 117.3 | 9.34 | 127.6 | 10.99 | 138.9 | 12.32 | 143.3 | 12.67 | 148.7 | 12.95 | 152.8 | 13.17 |
| | | 424.0 | 108.2 | 7.38 | 117.3 | 8.73 | 127.6 | 10.18 | 138.9 | 11.54 | 143.3 | 11.76 | 148.7 | 12.10 | 152.8 | 12.26 |
| | | 530.0 | 108.2 | 7.26 | 117.3 | 8.55 | 127.6 | 10.09 | 138.9 | 11.31 | 143.3 | 11.53 | 148.7 | 11.88 | 152.8 | 12.04 |
| | | 636.0 | 108.2 | 7.22 | 117.3 | 8.48 | 127.6 | 10.03 | 138.9 | 11.21 | 143.3 | 11.43 | 148.7 | 11.78 | 152.8 | 11.94 |
| | 15 | 169.6 | 107.2 | 10.90 | 116.0 | 12.63 | 126.3 | 14.77 | 137.4 | 16.59 | 141.5 | 17.03 | 147.0 | 17.44 | 151.1 | 17.72 |
| | | 212.0 | 107.2 | 10.68 | 116.0 | 12.44 | 126.3 | 14.52 | 137.4 | 16.34 | 141.5 | 16.75 | 147.0 | 17.15 | 151.1 | 17.44 |
| | | 424.0 | 107.2 | 9.80 | 116.0 | 11.62 | 126.3 | 13.54 | 137.4 | 15.28 | 141.5 | 15.64 | 147.0 | 16.05 | 151.1 | 16.34 |
| | | 530.0 | 107.2 | 9.58 | 116.0 | 11.37 | 126.3 | 13.29 | 137.4 | 14.99 | 141.5 | 15.34 | 147.0 | 15.75 | 151.1 | 15.99 |
| | | 636.0 | 107.2 | 9.46 | 116.0 | 11.25 | 126.3 | 13.19 | 137.4 | 14.86 | 141.5 | 15.20 | 147.0 | 15.61 | 151.1 | 15.81 |
| | 20 | 169.6 | 106.2 | 13.29 | 114.8 | 15.42 | 125.1 | 17.97 | 136.1 | 20.21 | 139.9 | 20.68 | 145.5 | 21.23 | 149.6 | 21.56 |
| | | 212.0 | 106.2 | 13.01 | 114.8 | 15.17 | 125.1 | 17.68 | 136.1 | 19.89 | 139.9 | 20.36 | 145.5 | 20.89 | 149.6 | 21.24 |
| | | 424.0 | 106.2 | 11.97 | 114.8 | 14.17 | 125.1 | 16.50 | 136.1 | 18.60 | 139.9 | 19.07 | 145.5 | 19.54 | 149.6 | 19.95 |
| | | 530.0 | 106.2 | 11.62 | 114.8 | 13.89 | 125.1 | 16.15 | 136.1 | 18.26 | 139.9 | 18.73 | 145.5 | 19.20 | 149.6 | 19.48 |
| | | 636.0 | 106.2 | 11.44 | 114.8 | 13.73 | 125.1 | 15.99 | 136.1 | 18.09 | 139.9 | 18.54 | 145.5 | 19.01 | 149.6 | 19.26 |
| | 25 | 169.6 | 106.2 | 16.31 | 114.8 | 18.91 | 125.1 | 22.06 | 136.1 | 24.85 | 139.9 | 25.45 | 145.5 | 26.08 | 149.6 | 26.55 |
| | | 212.0 | 106.2 | 15.99 | 114.8 | 18.60 | 125.1 | 21.71 | 136.1 | 24.44 | 139.9 | 25.04 | 145.5 | 25.67 | 149.6 | 26.14 |
| | | 424.0 | 106.2 | 14.70 | 114.8 | 17.44 | 125.1 | 20.30 | 136.1 | 22.87 | 139.9 | 23.40 | 145.5 | 24.04 | 149.6 | 24.51 |
| | | 530.0 | 106.2 | 14.30 | 114.8 | 17.03 | 125.1 | 19.89 | 136.1 | 22.40 | 139.9 | 22.99 | 145.5 | 23.57 | 149.6 | 23.91 |
| | | 636.0 | 106.2 | 14.08 | 114.8 | 16.84 | 125.1 | 19.70 | 136.1 | 22.18 | 139.9 | 22.78 | 145.5 | 23.34 | 149.6 | 23.63 |
| | 30 | 169.6 | 106.2 | 19.70 | 114.8 | 22.88 | 125.1 | 26.68 | 136.1 | 30.07 | 139.9 | 30.79 | 145.5 | 31.54 | 149.6 | 32.05 |
| | | 212.0 | 106.2 | 19.32 | 114.8 | 22.52 | 125.1 | 26.26 | 136.1 | 29.57 | 139.9 | 30.29 | 145.5 | 31.04 | 149.6 | 31.57 |
| | | 424.0 | 106.2 | 17.79 | 114.8 | 21.05 | 125.1 | 24.57 | 136.1 | 27.65 | 139.9 | 28.30 | 145.5 | 29.06 | 149.6 | 29.63 |
| | | 530.0 | 106.2 | 17.28 | 114.8 | 20.59 | 125.1 | 24.04 | 136.1 | 27.08 | 139.9 | 27.77 | 145.5 | 28.53 | 149.6 | 28.94 |
| | | 636.0 | 106.2 | 17.00 | 114.8 | 20.36 | 125.1 | 23.78 | 136.1 | 26.77 | 139.9 | 27.52 | 145.5 | 28.27 | 149.6 | 28.59 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 169.6 | 97.1 | 20.17 | 105.0 | 23.48 | 114.4 | 27.34 | 124.4 | 30.76 | 128.2 | 31.54 | 133.2 | 32.30 | 137.0 | 32.90 |
| | | 212.0 | 97.1 | 19.77 | 105.0 | 23.10 | 114.4 | 26.90 | 124.4 | 30.29 | 128.2 | 31.04 | 133.2 | 31.80 | 137.0 | 32.39 |
| | | 424.0 | 97.1 | 18.20 | 105.0 | 21.59 | 114.4 | 25.14 | 124.4 | 28.35 | 128.2 | 29.06 | 133.2 | 29.82 | 137.0 | 30.35 |
| | | 530.0 | 97.1 | 17.73 | 105.0 | 21.12 | 114.4 | 24.63 | 124.4 | 27.77 | 128.2 | 28.47 | 133.2 | 29.22 | 137.0 | 29.63 |
| | | 636.0 | 97.1 | 17.50 | 105.0 | 20.89 | 114.4 | 24.35 | 124.4 | 27.49 | 128.2 | 28.18 | 133.2 | 28.94 | 137.0 | 29.29 |
| | 40 | 169.6 | 88.0 | 21.71 | 95.3 | 25.26 | 103.8 | 29.41 | 112.9 | 33.15 | 116.2 | 33.91 | 120.7 | 34.72 | 124.2 | 35.38 |
| | | 212.0 | 88.0 | 21.30 | 95.3 | 24.85 | 103.8 | 28.94 | 112.9 | 32.61 | 116.2 | 33.37 | 120.7 | 34.19 | 124.2 | 34.84 |
| | | 424.0 | 88.0 | 19.60 | 95.3 | 23.22 | 103.8 | 27.08 | 112.9 | 30.51 | 116.2 | 31.20 | 120.7 | 32.02 | 124.2 | 32.67 |
| | | 530.0 | 88.0 | 19.07 | 95.3 | 22.75 | 103.8 | 26.55 | 112.9 | 29.88 | 116.2 | 30.63 | 120.7 | 31.45 | 124.2 | 31.92 |
| | | 636.0 | 88.0 | 18.82 | 95.3 | 22.53 | 103.8 | 26.29 | 112.9 | 29.56 | 116.2 | 30.35 | 120.7 | 31.16 | 124.2 | 31.54 |
| | 45 | 169.6 | 79.2 | 23.28 | 85.5 | 27.05 | 93.3 | 31.48 | 101.5 | 35.53 | 104.3 | 36.29 | 108.4 | 37.17 | 111.6 | 37.86 |
| | | 212.0 | 79.2 | 22.81 | 85.5 | 26.61 | 93.3 | 30.98 | 101.5 | 34.94 | 104.3 | 35.70 | 108.4 | 36.58 | 111.6 | 37.29 |
| | | 424.0 | 79.2 | 20.99 | 85.5 | 24.85 | 93.3 | 29.00 | 101.5 | 32.67 | 104.3 | 33.37 | 108.4 | 34.25 | 111.6 | 35.00 |
| | | 530.0 | 79.2 | 20.42 | 85.5 | 24.38 | 93.3 | 28.47 | 101.5 | 31.98 | 104.3 | 32.80 | 108.4 | 33.66 | 111.6 | 34.19 |
| | | 636.0 | 79.2 | 20.14 | 85.5 | 24.16 | 93.3 | 28.21 | 101.5 | 31.61 | 104.3 | 32.49 | 108.4 | 33.37 | 111.6 | 33.78 |
| 110 | 10 | 169.6 | 102.2 | 7.80 | 110.6 | 9.05 | 120.4 | 10.43 | 131.0 | 11.82 | 134.9 | 12.03 | 140.5 | 12.41 | 144.0 | 12.57 |
| | | 212.0 | 102.2 | 7.64 | 110.6 | 8.89 | 120.4 | 10.28 | 131.0 | 11.63 | 134.9 | 11.85 | 140.5 | 12.19 | 144.0 | 12.35 |
| | | 424.0 | 102.2 | 7.04 | 110.6 | 8.26 | 120.4 | 9.67 | 131.0 | 10.91 | 134.9 | 11.19 | 140.5 | 11.34 | 144.0 | 11.57 |
| | | 530.0 | 102.2 | 6.81 | 110.6 | 8.10 | 120.4 | 9.45 | 131.0 | 10.68 | 134.9 | 10.90 | 140.5 | 11.12 | 144.0 | 11.41 |
| | | 636.0 | 102.2 | 6.69 | 110.6 | 8.01 | 120.4 | 9.33 | 131.0 | 10.56 | 134.9 | 10.75 | 140.5 | 11.00 | 144.0 | 11.34 |
| | 15 | 169.6 | 101.6 | 10.43 | 110.0 | 12.10 | 119.8 | 14.05 | 130.2 | 15.83 | 134.2 | 16.18 | 139.5 | 16.59 | 143.3 | 16.90 |
| | | 212.0 | 101.6 | 10.21 | 110.0 | 11.91 | 119.8 | 13.83 | 130.2 | 15.58 | 134.2 | 15.93 | 139.5 | 16.34 | 143.3 | 16.62 |
| | | 424.0 | 101.6 | 9.39 | 110.0 | 11.09 | 119.8 | 12.95 | 130.2 | 14.58 | 134.2 | 14.93 | 139.5 | 15.28 | 143.3 | 15.58 |
| | | 530.0 | 101.6 | 9.11 | 110.0 | 10.84 | 119.8 | 12.66 | 130.2 | 14.30 | 134.2 | 14.64 | 139.5 | 14.99 | 143.3 | 15.23 |
| | | 636.0 | 101.6 | 8.96 | 110.0 | 10.74 | 119.8 | 12.51 | 130.2 | 14.14 | 134.2 | 14.49 | 139.5 | 14.86 | 143.3 | 15.05 |
| | 20 | 169.6 | 101.2 | 12.73 | 109.4 | 14.83 | 119.2 | 17.25 | 129.5 | 19.39 | 133.5 | 19.86 | 138.6 | 20.33 | 142.6 | 20.74 |
| | | 212.0 | 101.2 | 12.48 | 109.4 | 14.58 | 119.2 | 16.97 | 129.5 | 19.07 | 133.5 | 19.54 | 138.6 | 20.01 | 142.6 | 20.42 |
| | | 424.0 | 101.2 | 11.50 | 109.4 | 13.60 | 119.2 | 15.87 | 129.5 | 17.85 | 133.5 | 18.26 | 138.6 | 18.79 | 142.6 | 19.14 |
| | | 530.0 | 101.2 | 11.15 | 109.4 | 13.29 | 119.2 | 15.52 | 129.5 | 17.50 | 133.5 | 17.97 | 138.6 | 18.44 | 142.6 | 18.60 |
| | | 636.0 | 101.2 | 10.97 | 109.4 | 13.16 | 119.2 | 15.34 | 129.5 | 17.34 | 133.5 | 17.82 | 138.6 | 18.26 | 142.6 | 18.35 |
| | 25 | 169.6 | 101.2 | 15.59 | 109.4 | 18.16 | 119.2 | 21.11 | 129.5 | 23.78 | 133.5 | 24.29 | 138.6 | 24.89 | 142.6 | 25.36 |
| | | 212.0 | 101.2 | 15.28 | 109.4 | 17.85 | 119.2 | 20.77 | 129.5 | 23.40 | 133.5 | 23.91 | 138.6 | 24.51 | 142.6 | 24.98 |
| | | 424.0 | 101.2 | 14.05 | 109.4 | 16.68 | 119.2 | 19.42 | 129.5 | 21.87 | 133.5 | 22.40 | 138.6 | 22.99 | 142.6 | 23.40 |
| | | 530.0 | 101.2 | 13.64 | 109.4 | 16.34 | 119.2 | 19.01 | 129.5 | 21.40 | 133.5 | 21.99 | 138.6 | 22.52 | 142.6 | 22.81 |
| | | 636.0 | 101.2 | 13.45 | 109.4 | 16.15 | 119.2 | 18.82 | 129.5 | 21.18 | 133.5 | 21.80 | 138.6 | 22.28 | 142.6 | 22.53 |
| | 30 | 169.6 | 101.2 | 18.98 | 109.4 | 22.12 | 119.2 | 25.73 | 129.5 | 29.00 | 133.5 | 29.63 | 138.6 | 30.41 | 142.6 | 30.95 |
| | | 212.0 | 101.2 | 18.60 | 109.4 | 21.77 | 119.2 | 25.32 | 129.5 | 28.53 | 133.5 | 29.16 | 138.6 | 29.94 | 142.6 | 30.45 |
| | | 424.0 | 101.2 | 17.15 | 109.4 | 20.30 | 119.2 | 23.69 | 129.5 | 26.67 | 133.5 | 27.30 | 138.6 | 28.00 | 142.6 | 28.53 |
| | | 530.0 | 101.2 | 16.68 | 109.4 | 19.89 | 119.2 | 23.16 | 129.5 | 26.14 | 133.5 | 26.77 | 138.6 | 27.49 | 142.6 | 27.83 |
| | | 636.0 | 101.2 | 16.46 | 109.4 | 19.70 | 119.2 | 22.90 | 129.5 | 25.88 | 133.5 | 26.52 | 138.6 | 27.21 | 142.6 | 27.49 |
| | 35 | 169.6 | 94.0 | 19.76 | 101.9 | 22.94 | 111.0 | 26.74 | 120.7 | 30.13 | 124.4 | 30.82 | 129.2 | 31.60 | 132.7 | 32.20 |
| | | 212.0 | 94.0 | 19.36 | 101.9 | 22.59 | 111.0 | 26.30 | 120.7 | 29.63 | 124.4 | 30.35 | 129.2 | 31.10 | 132.7 | 31.67 |
| | | 424.0 | 94.0 | 17.79 | 101.9 | 21.12 | 111.0 | 24.63 | 120.7 | 27.71 | 124.4 | 28.41 | 129.2 | 29.12 | 132.7 | 29.63 |
| | | 530.0 | 94.0 | 17.32 | 101.9 | 20.65 | 111.0 | 24.10 | 120.7 | 27.18 | 124.4 | 27.83 | 129.2 | 28.59 | 132.7 | 28.94 |
| | | 636.0 | 94.0 | 17.09 | 101.9 | 20.42 | 111.0 | 23.84 | 120.7 | 26.93 | 124.4 | 27.53 | 129.2 | 28.34 | 132.7 | 28.59 |
| | 40 | 169.6 | 87.3 | 21.74 | 94.5 | 25.20 | 103.1 | 29.41 | 111.9 | 33.08 | 115.1 | 33.87 | 119.8 | 34.68 | 122.9 | 35.32 |
| | | 212.0 | 87.3 | 21.30 | 94.5 | 24.79 | 103.1 | 28.94 | 111.9 | 32.55 | 115.1 | 33.31 | 119.8 | 34.12 | 122.9 | 34.78 |
| | | 424.0 | 87.3 | 19.54 | 94.5 | 23.22 | 103.1 | 27.02 | 111.9 | 30.45 | 115.1 | 31.16 | 119.8 | 31.98 | 122.9 | 32.61 |
| | | 530.0 | 87.3 | 19.01 | 94.5 | 22.69 | 103.1 | 26.49 | 111.9 | 29.88 | 115.1 | 30.57 | 119.8 | 31.39 | 122.9 | 31.80 |
| | | 636.0 | 87.3 | 18.76 | 94.5 | 22.43 | 103.1 | 26.23 | 111.9 | 29.57 | 115.1 | 30.29 | 119.8 | 31.10 | 122.9 | 31.39 |
| | 45 | 169.6 | 80.4 | 23.70 | 87.0 | 27.43 | 94.9 | 32.11 | 103.1 | 36.04 | 105.9 | 36.89 | 110.3 | 37.76 | 113.2 | 38.43 |
| | | 212.0 | 80.4 | 23.22 | 87.0 | 27.02 | 94.9 | 31.57 | 103.1 | 35.47 | 105.9 | 36.29 | 110.3 | 37.17 | 113.2 | 37.86 |
| | | 424.0 | 80.4 | 21.30 | 87.0 | 25.32 | 94.9 | 29.41 | 103.1 | 33.21 | 105.9 | 33.90 | 110.3 | 34.84 | 113.2 | 35.59 |
| | | 530.0 | 80.4 | 20.71 | 87.0 | 24.73 | 94.9 | 28.88 | 103.1 | 32.55 | 105.9 | 33.31 | 110.3 | 34.19 | 113.2 | 34.66 |
| | | 636.0 | 80.4 | 20.42 | 87.0 | 24.45 | 94.9 | 28.62 | 103.1 | 32.24 | 105.9 | 33.02 | 110.3 | 33.87 | 113.2 | 34.19 |
| 100 | 10 | 169.6 | 96.2 | 7.26 | 104.0 | 8.52 | 113.2 | 9.86 | 123.2 | 11.03 | 127.0 | 11.31 | 131.7 | 11.69 | 135.5 | 11.94 |
| | | 212.0 | 96.2 | 7.13 | 104.0 | 8.36 | 113.2 | 9.71 | 123.2 | 10.87 | 127.0 | 11.16 | 131.7 | 11.50 | 135.5 | 11.72 |
| | | 424.0 | 96.2 | 6.57 | 104.0 | 7.73 | 113.2 | 9.09 | 123.2 | 10.27 | 127.0 | 10.56 | 131.7 | 10.78 | 135.5 | 10.87 |
| | | 530.0 | 96.2 | 6.47 | 104.0 | 7.57 | 113.2 | 8.92 | 123.2 | 9.99 | 127.0 | 10.27 | 131.7 | 10.56 | 135.5 | 10.72 |
| | | 636.0 | 96.2 | 6.41 | 104.0 | 7.48 | 113.2 | 8.83 | 123.2 | 9.84 | 127.0 | 10.12 | 131.7 | 10.43 | 135.5 | 10.65 |
| | 15 | 169.6 | 96.2 | 9.87 | 104.0 | 11.50 | 113.2 | 13.41 | 123.2 | 15.05 | 127.0 | 15.40 | 131.7 | 15.83 | 135.5 | 16.12 |
| | | 212.0 | 96.2 | 9.68 | 104.0 | 11.31 | 113.2 | 13.19 | 123.2 | 14.83 | 127.0 | 15.17 | 131.7 | 15.58 | 135.5 | 15.87 |
| | | 424.0 | 96.2 | 8.92 | 104.0 | 10.56 | 113.2 | 12.31 | 123.2 | 13.89 | 127.0 | 14.23 | 131.7 | 14.58 | 135.5 | 14.83 |
| | | 530.0 | 96.2 | 8.70 | 104.0 | 10.33 | 113.2 | 12.07 | 123.2 | 13.60 | 127.0 | 13.95 | 131.7 | 14.30 | 135.5 | 14.46 |
| | | 636.0 | 96.2 | 8.58 | 104.0 | 10.21 | 113.2 | 11.97 | 123.2 | 13.45 | 127.0 | 13.80 | 131.7 | 14.14 | 135.5 | 14.30 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 169.6 | 96.2 | 12.19 | 104.0 | 14.17 | 113.2 | 16.56 | 123.2 | 18.63 | 127.0 | 19.04 | 131.7 | 19.51 | 135.5 | 19.86 |
| | | 212.0 | 96.2 | 11.97 | 104.0 | 13.95 | 113.2 | 16.28 | 123.2 | 18.32 | 127.0 | 18.73 | 131.7 | 19.20 | 135.5 | 19.54 |
| | | 424.0 | 96.2 | 11.03 | 104.0 | 13.07 | 113.2 | 15.17 | 123.2 | 17.09 | 127.0 | 17.50 | 131.7 | 17.97 | 135.5 | 18.32 |
| | | 530.0 | 96.2 | 10.68 | 104.0 | 12.78 | 113.2 | 14.87 | 123.2 | 16.81 | 127.0 | 17.22 | 131.7 | 17.62 | 135.5 | 17.79 |
| | | 636.0 | 96.2 | 10.50 | 104.0 | 12.63 | 113.2 | 14.73 | 123.2 | 16.65 | 127.0 | 17.06 | 131.7 | 17.44 | 135.5 | 17.53 |
| | 25 | 169.6 | 96.2 | 14.89 | 104.0 | 17.31 | 113.2 | 20.17 | 123.2 | 22.72 | 127.0 | 23.25 | 131.7 | 23.76 | 135.5 | 24.26 |
| | | 212.0 | 96.2 | 14.58 | 104.0 | 17.03 | 113.2 | 19.83 | 123.2 | 22.34 | 127.0 | 22.87 | 131.7 | 23.40 | 135.5 | 23.85 |
| | | 424.0 | 96.2 | 13.42 | 104.0 | 15.93 | 113.2 | 18.54 | 123.2 | 20.89 | 127.0 | 21.36 | 131.7 | 21.93 | 135.5 | 22.28 |
| | | 530.0 | 96.2 | 13.07 | 104.0 | 15.58 | 113.2 | 18.13 | 123.2 | 20.48 | 127.0 | 20.95 | 131.7 | 21.52 | 135.5 | 21.71 |
| | | 636.0 | 96.2 | 12.89 | 104.0 | 15.40 | 113.2 | 17.94 | 123.2 | 20.27 | 127.0 | 20.74 | 131.7 | 21.33 | 135.5 | 21.40 |
| | 30 | 169.6 | 96.2 | 18.34 | 104.0 | 21.30 | 113.2 | 24.79 | 123.2 | 27.93 | 127.0 | 28.59 | 131.7 | 29.29 | 135.5 | 29.82 |
| | | 212.0 | 96.2 | 17.97 | 104.0 | 20.95 | 113.2 | 24.38 | 123.2 | 27.49 | 127.0 | 28.12 | 131.7 | 28.82 | 135.5 | 29.35 |
| | | 424.0 | 96.2 | 16.50 | 104.0 | 19.54 | 113.2 | 22.81 | 123.2 | 25.66 | 127.0 | 26.26 | 131.7 | 26.96 | 135.5 | 27.43 |
| | | 530.0 | 96.2 | 16.05 | 104.0 | 19.14 | 113.2 | 22.34 | 123.2 | 25.14 | 127.0 | 25.79 | 131.7 | 26.43 | 135.5 | 26.71 |
| | | 636.0 | 96.2 | 15.81 | 104.0 | 18.94 | 113.2 | 22.12 | 123.2 | 24.88 | 127.0 | 25.55 | 131.7 | 26.17 | 135.5 | 26.37 |
| | 35 | 169.6 | 91.4 | 19.35 | 99.0 | 22.47 | 107.5 | 26.15 | 117.0 | 29.48 | 120.7 | 30.19 | 125.3 | 30.88 | 128.6 | 31.42 |
| | | 212.0 | 91.4 | 18.95 | 99.0 | 22.12 | 107.5 | 25.73 | 117.0 | 29.00 | 120.7 | 29.69 | 125.3 | 30.39 | 128.6 | 30.92 |
| | | 424.0 | 91.4 | 17.44 | 99.0 | 20.65 | 107.5 | 24.04 | 117.0 | 27.08 | 120.7 | 27.77 | 125.3 | 28.47 | 128.6 | 28.94 |
| | | 530.0 | 91.4 | 16.91 | 99.0 | 20.24 | 107.5 | 23.57 | 117.0 | 26.55 | 120.7 | 27.24 | 125.3 | 27.94 | 128.6 | 28.18 |
| | | 636.0 | 91.4 | 16.65 | 99.0 | 20.04 | 107.5 | 23.34 | 117.0 | 26.29 | 120.7 | 26.99 | 125.3 | 27.68 | 128.6 | 27.80 |
| | 40 | 169.6 | 86.4 | 21.65 | 93.6 | 25.20 | 101.9 | 29.35 | 110.9 | 33.02 | 114.1 | 33.87 | 118.5 | 34.69 | 122.0 | 35.28 |
| | | 212.0 | 86.4 | 21.24 | 93.6 | 24.79 | 101.9 | 28.88 | 110.9 | 32.49 | 114.1 | 33.31 | 118.5 | 34.12 | 122.0 | 34.72 |
| | | 424.0 | 86.4 | 19.54 | 93.6 | 23.16 | 101.9 | 27.02 | 110.9 | 30.39 | 114.1 | 31.10 | 118.5 | 31.92 | 122.0 | 32.49 |
| | | 530.0 | 86.4 | 19.01 | 93.6 | 22.69 | 101.9 | 26.43 | 110.9 | 29.82 | 114.1 | 30.57 | 118.5 | 31.33 | 122.0 | 31.61 |
| | | 636.0 | 86.4 | 18.76 | 93.6 | 22.46 | 101.9 | 26.14 | 110.9 | 29.53 | 114.1 | 30.32 | 118.5 | 31.04 | 122.0 | 31.19 |
| | 45 | 169.6 | 81.4 | 23.98 | 88.3 | 27.93 | 96.4 | 32.55 | 104.7 | 36.57 | 107.5 | 37.57 | 111.9 | 38.49 | 115.3 | 39.12 |
| | | 212.0 | 81.4 | 23.51 | 88.3 | 27.49 | 96.4 | 32.02 | 104.7 | 36.00 | 107.5 | 36.92 | 111.9 | 37.86 | 115.3 | 38.52 |
| | | 424.0 | 81.4 | 21.65 | 88.3 | 25.67 | 96.4 | 29.98 | 104.7 | 33.72 | 107.5 | 34.43 | 111.9 | 35.35 | 115.3 | 36.06 |
| | | 530.0 | 81.4 | 21.12 | 88.3 | 25.14 | 96.4 | 29.28 | 104.7 | 33.08 | 107.5 | 33.90 | 111.9 | 34.72 | 115.3 | 35.06 |
| | | 636.0 | 81.4 | 20.86 | 88.3 | 24.88 | 96.4 | 28.94 | 104.7 | 32.77 | 107.5 | 33.62 | 111.9 | 34.40 | 115.3 | 34.56 |
| 90 | 10 | 169.6 | 86.4 | 6.29 | 93.6 | 7.29 | 101.9 | 8.42 | 110.9 | 9.58 | 114.1 | 9.81 | 118.5 | 10.11 | 122.0 | 10.28 |
| | | 212.0 | 86.4 | 6.19 | 93.6 | 7.19 | 101.9 | 8.30 | 110.9 | 9.43 | 114.1 | 9.65 | 118.5 | 9.93 | 122.0 | 10.11 |
| | | 424.0 | 86.4 | 5.72 | 93.6 | 6.73 | 101.9 | 7.86 | 110.9 | 8.87 | 114.1 | 9.04 | 118.5 | 9.27 | 122.0 | 9.43 |
| | | 530.0 | 86.4 | 5.50 | 93.6 | 6.63 | 101.9 | 7.63 | 110.9 | 8.64 | 114.1 | 8.86 | 118.5 | 9.09 | 122.0 | 9.14 |
| | | 636.0 | 86.4 | 5.38 | 93.6 | 6.57 | 101.9 | 7.51 | 110.9 | 8.52 | 114.1 | 8.79 | 118.5 | 9.01 | 122.0 | 9.01 |
| | 15 | 169.6 | 86.4 | 8.51 | 93.6 | 9.90 | 101.9 | 11.50 | 110.9 | 12.98 | 114.1 | 13.26 | 118.5 | 13.64 | 122.0 | 13.88 |
| | | 212.0 | 86.4 | 8.35 | 93.6 | 9.74 | 101.9 | 11.31 | 110.9 | 12.78 | 114.1 | 13.07 | 118.5 | 13.42 | 122.0 | 13.64 |
| | | 424.0 | 86.4 | 7.70 | 93.6 | 9.11 | 101.9 | 10.62 | 110.9 | 11.97 | 114.1 | 12.25 | 118.5 | 12.54 | 122.0 | 12.78 |
| | | 530.0 | 86.4 | 7.47 | 93.6 | 8.92 | 101.9 | 10.39 | 110.9 | 11.72 | 114.1 | 12.03 | 118.5 | 12.31 | 122.0 | 12.44 |
| | | 636.0 | 86.4 | 7.35 | 93.6 | 8.83 | 101.9 | 10.27 | 110.9 | 11.62 | 114.1 | 11.91 | 118.5 | 12.19 | 122.0 | 12.25 |
| | 20 | 169.6 | 86.4 | 10.47 | 93.6 | 12.22 | 101.9 | 14.23 | 110.9 | 16.02 | 114.1 | 16.34 | 118.5 | 16.78 | 122.0 | 17.06 |
| | | 212.0 | 86.4 | 10.27 | 93.6 | 12.03 | 101.9 | 14.01 | 110.9 | 15.75 | 114.1 | 16.09 | 118.5 | 16.50 | 122.0 | 16.81 |
| | | 424.0 | 86.4 | 9.46 | 93.6 | 11.21 | 101.9 | 13.07 | 110.9 | 14.70 | 114.1 | 15.11 | 118.5 | 15.46 | 122.0 | 15.75 |
| | | 530.0 | 86.4 | 9.21 | 93.6 | 10.97 | 101.9 | 12.85 | 110.9 | 14.46 | 114.1 | 14.83 | 118.5 | 15.17 | 122.0 | 15.34 |
| | | 636.0 | 86.4 | 9.11 | 93.6 | 10.84 | 101.9 | 12.72 | 110.9 | 14.36 | 114.1 | 14.67 | 118.5 | 15.02 | 122.0 | 15.14 |
| | 25 | 169.6 | 86.4 | 12.79 | 93.6 | 14.89 | 101.9 | 17.31 | 110.9 | 19.51 | 114.1 | 19.98 | 118.5 | 20.45 | 122.0 | 20.87 |
| | | 212.0 | 86.4 | 12.54 | 93.6 | 14.64 | 101.9 | 17.03 | 110.9 | 19.20 | 114.1 | 19.67 | 118.5 | 20.14 | 122.0 | 20.54 |
| | | 424.0 | 86.4 | 11.56 | 93.6 | 13.70 | 101.9 | 15.93 | 110.9 | 17.97 | 114.1 | 18.38 | 118.5 | 18.85 | 122.0 | 19.20 |
| | | 530.0 | 86.4 | 11.21 | 93.6 | 13.42 | 101.9 | 15.64 | 110.9 | 17.62 | 114.1 | 18.03 | 118.5 | 18.50 | 122.0 | 18.73 |
| | | 636.0 | 86.4 | 11.03 | 93.6 | 13.26 | 101.9 | 15.49 | 110.9 | 17.44 | 114.1 | 17.85 | 118.5 | 18.32 | 122.0 | 18.50 |
| | 30 | 169.6 | 86.4 | 15.78 | 93.6 | 18.32 | 101.9 | 21.36 | 110.9 | 24.01 | 114.1 | 24.60 | 118.5 | 25.20 | 122.0 | 25.67 |
| | | 212.0 | 86.4 | 15.46 | 93.6 | 18.03 | 101.9 | 20.99 | 110.9 | 23.63 | 114.1 | 24.22 | 118.5 | 24.79 | 122.0 | 25.26 |
| | | 424.0 | 86.4 | 14.17 | 93.6 | 16.87 | 101.9 | 19.60 | 110.9 | 22.12 | 114.1 | 22.63 | 118.5 | 23.22 | 122.0 | 23.63 |
| | | 530.0 | 86.4 | 13.83 | 93.6 | 16.50 | 101.9 | 19.20 | 110.9 | 21.65 | 114.1 | 22.22 | 118.5 | 22.75 | 122.0 | 22.99 |
| | | 636.0 | 86.4 | 13.66 | 93.6 | 16.34 | 101.9 | 18.98 | 110.9 | 21.40 | 114.1 | 22.03 | 118.5 | 22.53 | 122.0 | 22.66 |
| | 35 | 169.6 | 84.0 | 17.03 | 91.1 | 19.73 | 99.3 | 23.00 | 107.8 | 25.92 | 111.0 | 26.51 | 115.3 | 27.15 | 118.5 | 27.68 |
| | | 212.0 | 84.0 | 16.68 | 91.1 | 19.42 | 99.3 | 22.63 | 107.8 | 25.49 | 111.0 | 26.08 | 115.3 | 26.71 | 118.5 | 27.24 |
| | | 424.0 | 84.0 | 15.34 | 91.1 | 18.20 | 99.3 | 21.18 | 107.8 | 23.85 | 111.0 | 24.38 | 115.3 | 25.04 | 118.5 | 25.49 |
| | | 530.0 | 84.0 | 14.87 | 91.1 | 17.79 | 99.3 | 20.71 | 107.8 | 23.40 | 111.0 | 23.98 | 115.3 | 24.57 | 118.5 | 24.79 |
| | | 636.0 | 84.0 | 14.64 | 91.1 | 17.59 | 99.3 | 20.48 | 107.8 | 23.16 | 111.0 | 23.78 | 115.3 | 24.32 | 118.5 | 24.45 |
| | 40 | 169.6 | 81.7 | 19.51 | 88.4 | 22.72 | 96.4 | 26.45 | 104.7 | 29.78 | 107.8 | 30.48 | 112.2 | 31.24 | 115.1 | 31.77 |
| | | 212.0 | 81.7 | 19.14 | 88.4 | 22.34 | 96.4 | 26.02 | 104.7 | 29.28 | 107.8 | 29.98 | 112.2 | 30.75 | 115.1 | 31.27 |
| | | 424.0 | 81.7 | 17.62 | 88.4 | 20.89 | 96.4 | 24.32 | 104.7 | 27.36 | 107.8 | 28.06 | 112.2 | 28.75 | 115.1 | 29.28 |
| | | 530.0 | 81.7 | 17.09 | 88.4 | 20.42 | 96.4 | 23.81 | 104.7 | 26.83 | 107.8 | 27.53 | 112.2 | 28.24 | 115.1 | 28.53 |
| | | 636.0 | 81.7 | 16.84 | 88.4 | 20.18 | 96.4 | 23.54 | 104.7 | 26.58 | 107.8 | 27.27 | 112.2 | 27.97 | 115.1 | 28.15 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 169.6 | 79.2 | 22.02 | 85.8 | 25.70 | 93.4 | 29.88 | 101.6 | 33.65 | 104.6 | 34.44 | 108.8 | 35.35 | 111.8 | 35.85 |
| | | 212.0 | 79.2 | 21.59 | 85.8 | 25.26 | 93.4 | 29.41 | 101.6 | 33.08 | 104.6 | 33.90 | 108.8 | 34.78 | 111.8 | 35.29 |
| | | 424.0 | 79.2 | 19.89 | 85.8 | 23.57 | 93.4 | 27.49 | 101.6 | 30.86 | 104.6 | 31.74 | 108.8 | 32.49 | 111.8 | 33.08 |
| | | 530.0 | 79.2 | 19.32 | 85.8 | 23.04 | 93.4 | 26.90 | 101.6 | 30.29 | 104.6 | 31.10 | 108.8 | 31.92 | 111.8 | 32.27 |
| | | 636.0 | 79.2 | 19.01 | 85.8 | 22.78 | 93.4 | 26.61 | 101.6 | 29.98 | 104.6 | 30.79 | 108.8 | 31.61 | 111.8 | 31.86 |
| 80 | 10 | 169.6 | 76.7 | 5.28 | 83.3 | 6.09 | 90.8 | 7.14 | 98.6 | 8.11 | 101.5 | 8.20 | 105.3 | 8.52 | 108.4 | 8.55 |
| | | 212.0 | 76.7 | 5.16 | 83.3 | 6.00 | 90.8 | 7.01 | 98.6 | 7.98 | 101.5 | 8.08 | 105.3 | 8.36 | 108.4 | 8.42 |
| | | 424.0 | 76.7 | 4.71 | 83.3 | 5.68 | 90.8 | 6.50 | 98.6 | 7.41 | 101.5 | 7.57 | 105.3 | 7.73 | 108.4 | 7.85 |
| | | 530.0 | 76.7 | 4.59 | 83.3 | 5.50 | 90.8 | 6.40 | 98.6 | 7.17 | 101.5 | 7.35 | 105.3 | 7.64 | 108.4 | 7.76 |
| | | 636.0 | 76.7 | 4.55 | 83.3 | 5.41 | 90.8 | 6.34 | 98.6 | 7.07 | 101.5 | 7.23 | 105.3 | 7.58 | 108.4 | 7.70 |
| | 15 | 169.6 | 76.7 | 7.16 | 83.3 | 8.30 | 90.8 | 9.68 | 98.6 | 10.91 | 101.5 | 11.15 | 105.3 | 11.44 | 108.4 | 11.63 |
| | | 212.0 | 76.7 | 7.00 | 83.3 | 8.17 | 90.8 | 9.52 | 98.6 | 10.74 | 101.5 | 10.97 | 105.3 | 11.25 | 108.4 | 11.44 |
| | | 424.0 | 76.7 | 6.41 | 83.3 | 7.64 | 90.8 | 8.86 | 98.6 | 10.03 | 101.5 | 10.27 | 105.3 | 10.50 | 108.4 | 10.68 |
| | | 530.0 | 76.7 | 6.25 | 83.3 | 7.47 | 90.8 | 8.70 | 98.6 | 9.80 | 101.5 | 10.03 | 105.3 | 10.33 | 108.4 | 10.44 |
| | | 636.0 | 76.7 | 6.16 | 83.3 | 7.38 | 90.8 | 8.61 | 98.6 | 9.68 | 101.5 | 9.92 | 105.3 | 10.24 | 108.4 | 10.33 |
| | 20 | 169.6 | 76.7 | 8.80 | 83.3 | 10.27 | 90.8 | 11.91 | 98.6 | 13.39 | 101.5 | 13.76 | 105.3 | 14.05 | 108.4 | 14.36 |
| | | 212.0 | 76.7 | 8.64 | 83.3 | 10.09 | 90.8 | 11.72 | 98.6 | 13.19 | 101.5 | 13.54 | 105.3 | 13.83 | 108.4 | 14.11 |
| | | 424.0 | 76.7 | 7.94 | 83.3 | 9.39 | 90.8 | 10.97 | 98.6 | 12.38 | 101.5 | 12.66 | 105.3 | 12.95 | 108.4 | 13.19 |
| | | 530.0 | 76.7 | 7.70 | 83.3 | 9.21 | 90.8 | 10.74 | 98.6 | 12.13 | 101.5 | 12.44 | 105.3 | 12.72 | 108.4 | 12.85 |
| | | 636.0 | 76.7 | 7.58 | 83.3 | 9.14 | 90.8 | 10.62 | 98.6 | 12.03 | 101.5 | 12.31 | 105.3 | 12.60 | 108.4 | 12.66 |
| | 25 | 169.6 | 76.7 | 10.71 | 83.3 | 12.44 | 90.8 | 14.52 | 98.6 | 16.37 | 101.5 | 16.78 | 105.3 | 17.19 | 108.4 | 17.50 |
| | | 212.0 | 76.7 | 10.50 | 83.3 | 12.25 | 90.8 | 14.30 | 98.6 | 16.09 | 101.5 | 16.50 | 105.3 | 16.91 | 108.4 | 17.22 |
| | | 424.0 | 76.7 | 9.68 | 83.3 | 11.50 | 90.8 | 13.36 | 98.6 | 15.05 | 101.5 | 15.40 | 105.3 | 15.81 | 108.4 | 16.09 |
| | | 530.0 | 76.7 | 9.39 | 83.3 | 11.25 | 90.8 | 13.13 | 98.6 | 14.76 | 101.5 | 15.11 | 105.3 | 15.52 | 108.4 | 15.68 |
| | | 636.0 | 76.7 | 9.24 | 83.3 | 11.15 | 90.8 | 13.01 | 98.6 | 14.61 | 101.5 | 14.96 | 105.3 | 15.37 | 108.4 | 15.49 |
| | 30 | 169.6 | 76.7 | 13.22 | 83.3 | 15.36 | 90.8 | 17.91 | 98.6 | 20.17 | 101.5 | 20.64 | 105.3 | 21.11 | 108.4 | 21.53 |
| | | 212.0 | 76.7 | 12.95 | 83.3 | 15.11 | 90.8 | 17.62 | 98.6 | 19.83 | 101.5 | 20.30 | 105.3 | 20.77 | 108.4 | 21.18 |
| | | 424.0 | 76.7 | 11.91 | 83.3 | 14.11 | 90.8 | 16.46 | 98.6 | 18.50 | 101.5 | 18.95 | 105.3 | 19.42 | 108.4 | 19.77 |
| | | 530.0 | 76.7 | 11.56 | 83.3 | 13.83 | 90.8 | 16.09 | 98.6 | 18.13 | 101.5 | 18.60 | 105.3 | 19.07 | 108.4 | 19.26 |
| | | 636.0 | 76.7 | 11.38 | 83.3 | 13.67 | 90.8 | 15.93 | 98.6 | 17.97 | 101.5 | 18.44 | 105.3 | 18.91 | 108.4 | 18.98 |
| | 35 | 169.6 | 76.7 | 14.70 | 83.3 | 17.09 | 90.8 | 19.86 | 98.6 | 22.34 | 101.5 | 22.88 | 105.3 | 23.48 | 108.4 | 23.88 |
| | | 212.0 | 76.7 | 14.42 | 83.3 | 16.81 | 90.8 | 19.54 | 98.6 | 21.99 | 101.5 | 22.52 | 105.3 | 23.10 | 108.4 | 23.51 |
| | | 424.0 | 76.7 | 13.23 | 83.3 | 15.68 | 90.8 | 18.26 | 98.6 | 20.59 | 101.5 | 21.05 | 105.3 | 21.59 | 108.4 | 21.99 |
| | | 530.0 | 76.7 | 12.89 | 83.3 | 15.34 | 90.8 | 17.91 | 98.6 | 20.18 | 101.5 | 20.65 | 105.3 | 21.24 | 108.4 | 21.40 |
| | | 636.0 | 76.7 | 12.72 | 83.3 | 15.17 | 90.8 | 17.73 | 98.6 | 19.98 | 101.5 | 20.45 | 105.3 | 21.06 | 108.4 | 21.12 |
| | 40 | 169.6 | 76.7 | 17.37 | 83.3 | 20.23 | 90.8 | 23.54 | 98.6 | 26.51 | 101.5 | 27.09 | 105.3 | 27.81 | 108.4 | 28.28 |
| | | 212.0 | 76.7 | 17.03 | 83.3 | 19.89 | 90.8 | 23.16 | 98.6 | 26.08 | 101.5 | 26.67 | 105.3 | 27.36 | 108.4 | 27.83 |
| | | 424.0 | 76.7 | 15.68 | 83.3 | 18.54 | 90.8 | 21.65 | 98.6 | 24.38 | 101.5 | 24.98 | 105.3 | 25.61 | 108.4 | 26.08 |
| | | 530.0 | 76.7 | 15.23 | 83.3 | 18.20 | 90.8 | 21.18 | 98.6 | 23.91 | 101.5 | 24.51 | 105.3 | 25.08 | 108.4 | 25.38 |
| | | 636.0 | 76.7 | 14.99 | 83.3 | 18.03 | 90.8 | 20.95 | 98.6 | 23.69 | 101.5 | 24.26 | 105.3 | 24.82 | 108.4 | 25.04 |
| | 45 | 169.6 | 76.7 | 20.05 | 83.3 | 23.38 | 90.8 | 27.21 | 98.6 | 30.66 | 101.5 | 31.29 | 105.3 | 32.11 | 108.4 | 32.65 |
| | | 212.0 | 76.7 | 19.67 | 83.3 | 22.99 | 90.8 | 26.77 | 98.6 | 30.16 | 101.5 | 30.80 | 105.3 | 31.61 | 108.4 | 32.14 |
| | | 424.0 | 76.7 | 18.13 | 83.3 | 21.40 | 90.8 | 25.04 | 98.6 | 28.18 | 101.5 | 28.88 | 105.3 | 29.63 | 108.4 | 30.16 |
| | | 530.0 | 76.7 | 17.56 | 83.3 | 21.05 | 90.8 | 24.44 | 98.6 | 27.65 | 101.5 | 28.35 | 105.3 | 28.94 | 108.4 | 29.35 |
| | | 636.0 | 76.7 | 17.28 | 83.3 | 20.89 | 90.8 | 24.16 | 98.6 | 27.40 | 101.5 | 28.09 | 105.3 | 28.59 | 108.4 | 28.94 |
| 70 | 10 | 169.6 | 67.3 | 4.40 | 72.9 | 5.06 | 79.5 | 6.00 | 86.2 | 6.75 | 88.9 | 6.76 | 92.1 | 7.01 | 94.9 | 7.11 |
| | | 212.0 | 67.3 | 4.33 | 72.9 | 5.00 | 79.5 | 5.90 | 86.2 | 6.63 | 88.9 | 6.67 | 92.1 | 6.91 | 94.9 | 7.01 |
| | | 424.0 | 67.3 | 3.99 | 72.9 | 4.71 | 79.5 | 5.50 | 86.2 | 6.19 | 88.9 | 6.28 | 92.1 | 6.45 | 94.9 | 6.63 |
| | | 530.0 | 67.3 | 3.81 | 72.9 | 4.55 | 79.5 | 5.34 | 86.2 | 6.00 | 88.9 | 6.12 | 92.1 | 6.35 | 94.9 | 6.47 |
| | | 636.0 | 67.3 | 3.73 | 72.9 | 4.46 | 79.5 | 5.25 | 86.2 | 5.91 | 88.9 | 6.03 | 92.1 | 6.29 | 94.9 | 6.38 |
| | 15 | 169.6 | 67.3 | 5.94 | 72.9 | 6.88 | 79.5 | 8.07 | 86.2 | 9.08 | 88.9 | 9.24 | 92.1 | 9.49 | 94.9 | 9.65 |
| | | 212.0 | 67.3 | 5.84 | 72.9 | 6.76 | 79.5 | 7.94 | 86.2 | 8.92 | 88.9 | 9.11 | 92.1 | 9.33 | 94.9 | 9.52 |
| | | 424.0 | 67.3 | 5.37 | 72.9 | 6.35 | 79.5 | 7.41 | 86.2 | 8.35 | 88.9 | 8.52 | 92.1 | 8.76 | 94.9 | 8.92 |
| | | 530.0 | 67.3 | 5.19 | 72.9 | 6.19 | 79.5 | 7.23 | 86.2 | 8.17 | 88.9 | 8.35 | 92.1 | 8.58 | 94.9 | 8.70 |
| | | 636.0 | 67.3 | 5.10 | 72.9 | 6.10 | 79.5 | 7.14 | 86.2 | 8.08 | 88.9 | 8.26 | 92.1 | 8.49 | 94.9 | 8.58 |
| | 20 | 169.6 | 67.3 | 7.32 | 72.9 | 8.48 | 79.5 | 9.90 | 86.2 | 11.15 | 88.9 | 11.44 | 92.1 | 11.66 | 94.9 | 11.91 |
| | | 212.0 | 67.3 | 7.17 | 72.9 | 8.35 | 79.5 | 9.74 | 86.2 | 10.97 | 88.9 | 11.25 | 92.1 | 11.50 | 94.9 | 11.72 |
| | | 424.0 | 67.3 | 6.60 | 72.9 | 7.82 | 79.5 | 9.11 | 86.2 | 10.27 | 88.9 | 10.50 | 92.1 | 10.80 | 94.9 | 10.97 |
| | | 530.0 | 67.3 | 6.41 | 72.9 | 7.64 | 79.5 | 8.92 | 86.2 | 10.09 | 88.9 | 10.33 | 92.1 | 10.56 | 94.9 | 10.68 |
| | | 636.0 | 67.3 | 6.32 | 72.9 | 7.55 | 79.5 | 8.83 | 86.2 | 10.00 | 88.9 | 10.24 | 92.1 | 10.44 | 94.9 | 10.53 |
| | 25 | 169.6 | 67.3 | 8.92 | 72.9 | 10.37 | 79.5 | 12.10 | 86.2 | 13.64 | 88.9 | 13.92 | 92.1 | 14.30 | 94.9 | 14.52 |
| | | 212.0 | 67.3 | 8.76 | 72.9 | 10.21 | 79.5 | 11.91 | 86.2 | 13.42 | 88.9 | 13.70 | 92.1 | 14.05 | 94.9 | 14.30 |
| | | 424.0 | 67.3 | 8.05 | 72.9 | 9.58 | 79.5 | 11.15 | 86.2 | 12.54 | 88.9 | 12.85 | 92.1 | 13.13 | 94.9 | 13.36 |
| | | 530.0 | 67.3 | 7.82 | 72.9 | 9.33 | 79.5 | 10.91 | 86.2 | 12.25 | 88.9 | 12.60 | 92.1 | 12.89 | 94.9 | 13.01 |
| | | 636.0 | 67.3 | 7.70 | 72.9 | 9.21 | 79.5 | 10.80 | 86.2 | 12.10 | 88.9 | 12.48 | 92.1 | 12.78 | 94.9 | 12.85 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 169.6 | 67.3 | 11.02 | 72.9 | 12.75 | 79.5 | 14.89 | 86.2 | 16.72 | 88.9 | 17.15 | 92.1 | 17.56 | 94.9 | 17.84 |
| | | 212.0 | 67.3 | 10.80 | 72.9 | 12.54 | 79.5 | 14.64 | 86.2 | 16.46 | 88.9 | 16.87 | 92.1 | 17.28 | 94.9 | 17.56 |
| | | 424.0 | 67.3 | 9.92 | 72.9 | 11.72 | 79.5 | 13.64 | 86.2 | 15.40 | 88.9 | 15.75 | 92.1 | 16.15 | 94.9 | 16.46 |
| | | 530.0 | 67.3 | 9.62 | 72.9 | 11.50 | 79.5 | 13.42 | 86.2 | 15.11 | 88.9 | 15.46 | 92.1 | 15.87 | 94.9 | 16.05 |
| | | 636.0 | 67.3 | 9.49 | 72.9 | 11.38 | 79.5 | 13.29 | 86.2 | 14.96 | 88.9 | 15.31 | 92.1 | 15.71 | 94.9 | 15.84 |
| | 35 | 169.6 | 67.3 | 12.19 | 72.9 | 14.17 | 79.5 | 16.56 | 86.2 | 18.63 | 88.9 | 19.04 | 92.1 | 19.51 | 94.9 | 19.86 |
| | | 212.0 | 67.3 | 11.97 | 72.9 | 13.95 | 79.5 | 16.28 | 86.2 | 18.32 | 88.9 | 18.73 | 92.1 | 19.20 | 94.9 | 19.54 |
| | | 424.0 | 67.3 | 11.03 | 72.9 | 13.07 | 79.5 | 15.17 | 86.2 | 17.09 | 88.9 | 17.50 | 92.1 | 17.97 | 94.9 | 18.32 |
| | | 530.0 | 67.3 | 10.68 | 72.9 | 12.78 | 79.5 | 14.87 | 86.2 | 16.81 | 88.9 | 17.22 | 92.1 | 17.62 | 94.9 | 17.79 |
| | | 636.0 | 67.3 | 10.50 | 72.9 | 12.63 | 79.5 | 14.73 | 86.2 | 16.65 | 88.9 | 17.06 | 92.1 | 17.44 | 94.9 | 17.53 |
| | 40 | 169.6 | 67.3 | 14.48 | 72.9 | 16.78 | 79.5 | 19.58 | 86.2 | 22.00 | 88.9 | 22.53 | 92.1 | 23.12 | 94.9 | 23.54 |
| | | 212.0 | 67.3 | 14.17 | 72.9 | 16.50 | 79.5 | 19.26 | 86.2 | 21.65 | 88.9 | 22.18 | 92.1 | 22.75 | 94.9 | 23.16 |
| | | 424.0 | 67.3 | 13.01 | 72.9 | 15.46 | 79.5 | 17.97 | 86.2 | 20.24 | 88.9 | 20.77 | 92.1 | 21.30 | 94.9 | 21.65 |
| | | 530.0 | 67.3 | 12.66 | 72.9 | 15.11 | 79.5 | 17.62 | 86.2 | 19.89 | 88.9 | 20.36 | 92.1 | 20.89 | 94.9 | 21.12 |
| | | 636.0 | 67.3 | 12.48 | 72.9 | 14.93 | 79.5 | 17.44 | 86.2 | 19.73 | 88.9 | 20.17 | 92.1 | 20.68 | 94.9 | 20.86 |
| | 45 | 169.6 | 67.3 | 16.75 | 72.9 | 19.39 | 79.5 | 22.59 | 86.2 | 25.36 | 88.9 | 26.01 | 92.1 | 26.74 | 94.9 | 27.24 |
| | | 212.0 | 67.3 | 16.40 | 72.9 | 19.07 | 79.5 | 22.22 | 86.2 | 24.98 | 88.9 | 25.61 | 92.1 | 26.30 | 94.9 | 26.77 |
| | | 424.0 | 67.3 | 14.99 | 72.9 | 17.85 | 79.5 | 20.77 | 86.2 | 23.40 | 88.9 | 24.04 | 92.1 | 24.63 | 94.9 | 24.98 |
| | | 530.0 | 67.3 | 14.64 | 72.9 | 17.44 | 79.5 | 20.36 | 86.2 | 22.99 | 88.9 | 23.51 | 92.1 | 24.16 | 94.9 | 24.44 |
| | | 636.0 | 67.3 | 14.48 | 72.9 | 17.25 | 79.5 | 20.17 | 86.2 | 22.78 | 88.9 | 23.25 | 92.1 | 23.91 | 94.9 | 24.19 |
| 60 | 10 | 169.6 | 57.6 | 3.58 | 62.5 | 4.12 | 67.9 | 4.75 | 73.9 | 5.37 | 76.1 | 5.50 | 79.1 | 5.68 | 81.4 | 5.69 |
| | | 212.0 | 57.6 | 3.49 | 62.5 | 4.05 | 67.9 | 4.65 | 73.9 | 5.28 | 76.1 | 5.40 | 79.1 | 5.56 | 81.4 | 5.62 |
| | | 424.0 | 57.6 | 3.14 | 62.5 | 3.77 | 67.9 | 4.31 | 73.9 | 4.94 | 76.1 | 4.93 | 79.1 | 5.10 | 81.4 | 5.28 |
| | | 530.0 | 57.6 | 3.02 | 62.5 | 3.65 | 67.9 | 4.27 | 73.9 | 4.83 | 76.1 | 4.87 | 79.1 | 4.99 | 81.4 | 5.05 |
| | | 636.0 | 57.6 | 2.96 | 62.5 | 3.58 | 67.9 | 4.24 | 73.9 | 4.77 | 76.1 | 4.84 | 79.1 | 4.93 | 81.4 | 4.93 |
| | 15 | 169.6 | 57.6 | 4.77 | 62.5 | 5.50 | 67.9 | 6.41 | 73.9 | 7.23 | 76.1 | 7.42 | 79.1 | 7.60 | 81.4 | 7.70 |
| | | 212.0 | 57.6 | 4.68 | 62.5 | 5.43 | 67.9 | 6.31 | 73.9 | 7.13 | 76.1 | 7.29 | 79.1 | 7.47 | 81.4 | 7.58 |
| | | 424.0 | 57.6 | 4.27 | 62.5 | 5.08 | 67.9 | 5.90 | 73.9 | 6.66 | 76.1 | 6.76 | 79.1 | 6.94 | 81.4 | 7.13 |
| | | 530.0 | 57.6 | 4.15 | 62.5 | 4.96 | 67.9 | 5.78 | 73.9 | 6.53 | 76.1 | 6.66 | 79.1 | 6.82 | 81.4 | 6.88 |
| | | 636.0 | 57.6 | 4.08 | 62.5 | 4.90 | 67.9 | 5.72 | 73.9 | 6.47 | 76.1 | 6.60 | 79.1 | 6.76 | 81.4 | 6.76 |
| | 20 | 169.6 | 57.6 | 5.84 | 62.5 | 6.75 | 67.9 | 7.88 | 73.9 | 8.89 | 76.1 | 9.14 | 79.1 | 9.30 | 81.4 | 9.49 |
| | | 212.0 | 57.6 | 5.72 | 62.5 | 6.66 | 67.9 | 7.76 | 73.9 | 8.76 | 76.1 | 8.99 | 79.1 | 9.17 | 81.4 | 9.33 |
| | | 424.0 | 57.6 | 5.25 | 62.5 | 6.25 | 67.9 | 7.29 | 73.9 | 8.17 | 76.1 | 8.39 | 79.1 | 8.58 | 81.4 | 8.76 |
| | | 530.0 | 57.6 | 5.13 | 62.5 | 6.13 | 67.9 | 7.13 | 73.9 | 8.05 | 76.1 | 8.23 | 79.1 | 8.45 | 81.4 | 8.52 |
| | | 636.0 | 57.6 | 5.08 | 62.5 | 6.07 | 67.9 | 7.04 | 73.9 | 7.99 | 76.1 | 8.14 | 79.1 | 8.39 | 81.4 | 8.39 |
| | 25 | 169.6 | 57.6 | 7.16 | 62.5 | 8.24 | 67.9 | 9.59 | 73.9 | 10.84 | 76.1 | 11.09 | 79.1 | 11.38 | 81.4 | 11.56 |
| | | 212.0 | 57.6 | 7.00 | 62.5 | 8.11 | 67.9 | 9.46 | 73.9 | 10.68 | 76.1 | 10.91 | 79.1 | 11.21 | 81.4 | 11.37 |
| | | 424.0 | 57.6 | 6.41 | 62.5 | 7.58 | 67.9 | 8.86 | 73.9 | 9.99 | 76.1 | 10.21 | 79.1 | 10.50 | 81.4 | 10.68 |
| | | 530.0 | 57.6 | 6.25 | 62.5 | 7.47 | 67.9 | 8.70 | 73.9 | 9.80 | 76.1 | 10.03 | 79.1 | 10.27 | 81.4 | 10.39 |
| | | 636.0 | 57.6 | 6.16 | 62.5 | 7.41 | 67.9 | 8.61 | 73.9 | 9.71 | 76.1 | 9.96 | 79.1 | 10.15 | 81.4 | 10.24 |
| | 30 | 169.6 | 57.6 | 8.76 | 62.5 | 10.21 | 67.9 | 11.85 | 73.9 | 13.35 | 76.1 | 13.64 | 79.1 | 13.98 | 81.4 | 14.23 |
| | | 212.0 | 57.6 | 8.58 | 62.5 | 10.03 | 67.9 | 11.66 | 73.9 | 13.13 | 76.1 | 13.42 | 79.1 | 13.76 | 81.4 | 14.01 |
| | | 424.0 | 57.6 | 7.88 | 62.5 | 9.33 | 67.9 | 10.91 | 73.9 | 12.25 | 76.1 | 12.54 | 79.1 | 12.89 | 81.4 | 13.13 |
| | | 530.0 | 57.6 | 7.70 | 62.5 | 9.17 | 67.9 | 10.68 | 73.9 | 12.03 | 76.1 | 12.31 | 79.1 | 12.66 | 81.4 | 12.78 |
| | | 636.0 | 57.6 | 7.61 | 62.5 | 9.08 | 67.9 | 10.56 | 73.9 | 11.91 | 76.1 | 12.19 | 79.1 | 12.54 | 81.4 | 12.60 |
| | 35 | 169.6 | 57.6 | 9.71 | 62.5 | 11.34 | 67.9 | 13.16 | 73.9 | 14.83 | 76.1 | 15.18 | 79.1 | 15.52 | 81.4 | 15.83 |
| | | 212.0 | 57.6 | 9.52 | 62.5 | 11.15 | 67.9 | 12.95 | 73.9 | 14.58 | 76.1 | 14.93 | 79.1 | 15.28 | 81.4 | 15.58 |
| | | 424.0 | 57.6 | 8.76 | 62.5 | 10.39 | 67.9 | 12.13 | 73.9 | 13.64 | 76.1 | 13.95 | 79.1 | 14.36 | 81.4 | 14.58 |
| | | 530.0 | 57.6 | 8.52 | 62.5 | 10.15 | 67.9 | 11.84 | 73.9 | 13.36 | 76.1 | 13.70 | 79.1 | 14.05 | 81.4 | 14.17 |
| | | 636.0 | 57.6 | 8.39 | 62.5 | 10.03 | 67.9 | 11.69 | 73.9 | 13.22 | 76.1 | 13.60 | 79.1 | 13.92 | 81.4 | 13.98 |
| | 40 | 169.6 | 57.6 | 11.56 | 62.5 | 13.41 | 67.9 | 15.59 | 73.9 | 17.56 | 76.1 | 17.97 | 79.1 | 18.44 | 81.4 | 18.73 |
| | | 212.0 | 57.6 | 11.31 | 62.5 | 13.19 | 67.9 | 15.34 | 73.9 | 17.28 | 76.1 | 17.68 | 79.1 | 18.13 | 81.4 | 18.44 |
| | | 424.0 | 57.6 | 10.39 | 62.5 | 12.31 | 67.9 | 14.36 | 73.9 | 16.15 | 76.1 | 16.50 | 79.1 | 16.97 | 81.4 | 17.28 |
| | | 530.0 | 57.6 | 10.09 | 62.5 | 12.07 | 67.9 | 14.05 | 73.9 | 15.81 | 76.1 | 16.21 | 79.1 | 16.62 | 81.4 | 16.81 |
| | | 636.0 | 57.6 | 9.96 | 62.5 | 11.97 | 67.9 | 13.92 | 73.9 | 15.64 | 76.1 | 16.08 | 79.1 | 16.46 | 81.4 | 16.56 |
| | 45 | 169.6 | 57.6 | 13.41 | 62.5 | 15.49 | 67.9 | 18.03 | 73.9 | 20.27 | 76.1 | 20.76 | 79.1 | 21.36 | 81.4 | 21.64 |
| | | 212.0 | 57.6 | 13.13 | 62.5 | 15.23 | 67.9 | 17.73 | 73.9 | 19.95 | 76.1 | 20.42 | 79.1 | 20.99 | 81.4 | 21.30 |
| | | 424.0 | 57.6 | 12.03 | 62.5 | 14.23 | 67.9 | 16.56 | 73.9 | 18.67 | 76.1 | 19.07 | 79.1 | 19.60 | 81.4 | 19.95 |
| | | 530.0 | 57.6 | 11.66 | 62.5 | 14.01 | 67.9 | 16.28 | 73.9 | 18.26 | 76.1 | 18.73 | 79.1 | 19.20 | 81.4 | 19.42 |
| | | 636.0 | 57.6 | 11.50 | 62.5 | 13.89 | 67.9 | 16.12 | 73.9 | 18.06 | 76.1 | 18.54 | 79.1 | 18.98 | 81.4 | 19.17 |
| 50 | 10 | 169.6 | 48.1 | 2.55 | 52.1 | 3.02 | 56.6 | 3.64 | 61.6 | 3.99 | 63.5 | 4.03 | 66.0 | 4.18 | 67.8 | 4.28 |
| | | 212.0 | 48.1 | 2.52 | 52.1 | 2.98 | 56.6 | 3.55 | 61.6 | 3.93 | 63.5 | 3.99 | 66.0 | 4.09 | 67.8 | 4.21 |
| | | 424.0 | 48.1 | 2.42 | 52.1 | 2.80 | 56.6 | 3.20 | 61.6 | 3.65 | 63.5 | 3.77 | 66.0 | 3.81 | 67.8 | 3.93 |
| | | 530.0 | 48.1 | 2.30 | 52.1 | 2.70 | 56.6 | 3.20 | 61.6 | 3.52 | 63.5 | 3.65 | 66.0 | 3.70 | 67.8 | 3.77 |
| | | 636.0 | 48.1 | 2.24 | 52.1 | 2.64 | 56.6 | 3.20 | 61.6 | 3.46 | 63.5 | 3.58 | 66.0 | 3.64 | 67.8 | 3.67 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 169.6 | 48.1 | 3.49 | 52.1 | 4.08 | 56.6 | 4.81 | 61.6 | 5.40 | 63.5 | 5.50 | 66.0 | 5.63 | 67.8 | 5.75 |
| | | 212.0 | 48.1 | 3.45 | 52.1 | 4.02 | 56.6 | 4.72 | 61.6 | 5.31 | 63.5 | 5.43 | 66.0 | 5.53 | 67.8 | 5.66 |
| | | 424.0 | 48.1 | 3.21 | 52.1 | 3.80 | 56.6 | 4.37 | 61.6 | 4.96 | 63.5 | 5.08 | 66.0 | 5.19 | 67.8 | 5.31 |
| | | 530.0 | 48.1 | 3.08 | 52.1 | 3.68 | 56.6 | 4.31 | 61.6 | 4.84 | 63.5 | 4.96 | 66.0 | 5.08 | 67.8 | 5.13 |
| | | 636.0 | 48.1 | 3.04 | 52.1 | 3.61 | 56.6 | 4.28 | 61.6 | 4.78 | 63.5 | 4.90 | 66.0 | 5.02 | 67.8 | 5.05 |
| | 20 | 169.6 | 48.1 | 4.34 | 52.1 | 5.03 | 56.6 | 5.87 | 61.6 | 6.63 | 63.5 | 6.82 | 66.0 | 6.94 | 67.8 | 7.04 |
| | | 212.0 | 48.1 | 4.27 | 52.1 | 4.96 | 56.6 | 5.78 | 61.6 | 6.53 | 63.5 | 6.72 | 66.0 | 6.82 | 67.8 | 6.94 |
| | | 424.0 | 48.1 | 3.90 | 52.1 | 4.68 | 56.6 | 5.43 | 61.6 | 6.13 | 63.5 | 6.25 | 66.0 | 6.41 | 67.8 | 6.53 |
| | | 530.0 | 48.1 | 3.80 | 52.1 | 4.55 | 56.6 | 5.31 | 61.6 | 6.00 | 63.5 | 6.13 | 66.0 | 6.31 | 67.8 | 6.35 |
| | | 636.0 | 48.1 | 3.74 | 52.1 | 4.49 | 56.6 | 5.25 | 61.6 | 5.94 | 63.5 | 6.07 | 66.0 | 6.25 | 67.8 | 6.28 |
| | 25 | 169.6 | 48.1 | 5.30 | 52.1 | 6.16 | 56.6 | 7.17 | 61.6 | 8.05 | 63.5 | 8.30 | 66.0 | 8.48 | 67.8 | 8.67 |
| | | 212.0 | 48.1 | 5.19 | 52.1 | 6.07 | 56.6 | 7.07 | 61.6 | 7.94 | 63.5 | 8.17 | 66.0 | 8.35 | 67.8 | 8.52 |
| | | 424.0 | 48.1 | 4.78 | 52.1 | 5.66 | 56.6 | 6.60 | 61.6 | 7.47 | 63.5 | 7.64 | 66.0 | 7.82 | 67.8 | 7.94 |
| | | 530.0 | 48.1 | 4.68 | 52.1 | 5.53 | 56.6 | 6.47 | 61.6 | 7.29 | 63.5 | 7.47 | 66.0 | 7.64 | 67.8 | 7.76 |
| | | 636.0 | 48.1 | 4.62 | 52.1 | 5.49 | 56.6 | 6.41 | 61.6 | 7.20 | 63.5 | 7.38 | 66.0 | 7.55 | 67.8 | 7.67 |
| | 30 | 169.6 | 48.1 | 6.54 | 52.1 | 7.58 | 56.6 | 8.83 | 61.6 | 9.96 | 63.5 | 10.21 | 66.0 | 10.43 | 67.8 | 10.61 |
| | | 212.0 | 48.1 | 6.41 | 52.1 | 7.47 | 56.6 | 8.70 | 61.6 | 9.80 | 63.5 | 10.03 | 66.0 | 10.27 | 67.8 | 10.44 |
| | | 424.0 | 48.1 | 5.90 | 52.1 | 7.00 | 56.6 | 8.11 | 61.6 | 9.17 | 63.5 | 9.39 | 66.0 | 9.62 | 67.8 | 9.80 |
| | | 530.0 | 48.1 | 5.72 | 52.1 | 6.82 | 56.6 | 7.94 | 61.6 | 8.99 | 63.5 | 9.21 | 66.0 | 9.46 | 67.8 | 9.52 |
| | | 636.0 | 48.1 | 5.63 | 52.1 | 6.73 | 56.6 | 7.85 | 61.6 | 8.89 | 63.5 | 9.14 | 66.0 | 9.36 | 67.8 | 9.36 |
| | 35 | 169.6 | 48.1 | 7.26 | 52.1 | 8.42 | 56.6 | 9.84 | 61.6 | 11.03 | 63.5 | 11.34 | 66.0 | 11.63 | 67.8 | 11.81 |
| | | 212.0 | 48.1 | 7.13 | 52.1 | 8.29 | 56.6 | 9.68 | 61.6 | 10.84 | 63.5 | 11.15 | 66.0 | 11.44 | 67.8 | 11.62 |
| | | 424.0 | 48.1 | 6.53 | 52.1 | 7.76 | 56.6 | 9.05 | 61.6 | 10.15 | 63.5 | 10.39 | 66.0 | 10.68 | 67.8 | 10.84 |
| | | 530.0 | 48.1 | 6.35 | 52.1 | 7.58 | 56.6 | 8.86 | 61.6 | 9.99 | 63.5 | 10.21 | 66.0 | 10.50 | 67.8 | 10.56 |
| | | 636.0 | 48.1 | 6.28 | 52.1 | 7.50 | 56.6 | 8.77 | 61.6 | 9.89 | 63.5 | 10.12 | 66.0 | 10.41 | 67.8 | 10.41 |
| | 40 | 169.6 | 48.1 | 8.57 | 52.1 | 9.96 | 56.6 | 11.63 | 61.6 | 13.11 | 63.5 | 13.41 | 66.0 | 13.76 | 67.8 | 13.98 |
| | | 212.0 | 48.1 | 8.39 | 52.1 | 9.80 | 56.6 | 11.44 | 61.6 | 12.89 | 63.5 | 13.19 | 66.0 | 13.54 | 67.8 | 13.76 |
| | | 424.0 | 48.1 | 7.76 | 52.1 | 9.17 | 56.6 | 10.68 | 61.6 | 12.03 | 63.5 | 12.31 | 66.0 | 12.66 | 67.8 | 12.89 |
| | | 530.0 | 48.1 | 7.54 | 52.1 | 8.99 | 56.6 | 10.50 | 61.6 | 11.78 | 63.5 | 12.07 | 66.0 | 12.44 | 67.8 | 12.54 |
| | | 636.0 | 48.1 | 7.41 | 52.1 | 8.89 | 56.6 | 10.41 | 61.6 | 11.66 | 63.5 | 11.97 | 66.0 | 12.31 | 67.8 | 12.38 |
| | 45 | 169.6 | 48.1 | 9.86 | 52.1 | 11.50 | 56.6 | 13.41 | 61.6 | 15.20 | 63.5 | 15.49 | 66.0 | 15.89 | 67.8 | 16.18 |
| | | 212.0 | 48.1 | 9.68 | 52.1 | 11.31 | 56.6 | 13.19 | 61.6 | 14.93 | 63.5 | 15.23 | 66.0 | 15.64 | 67.8 | 15.93 |
| | | 424.0 | 48.1 | 8.99 | 52.1 | 10.56 | 56.6 | 12.31 | 61.6 | 13.89 | 63.5 | 14.23 | 66.0 | 14.64 | 67.8 | 14.93 |
| | | 530.0 | 48.1 | 8.70 | 52.1 | 10.39 | 56.6 | 12.13 | 61.6 | 13.60 | 63.5 | 13.95 | 66.0 | 14.36 | 67.8 | 14.52 |
| | | 636.0 | 48.1 | 8.55 | 52.1 | 10.30 | 56.6 | 12.04 | 61.6 | 13.45 | 63.5 | 13.80 | 66.0 | 14.20 | 67.8 | 14.33 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN460BAS4

**Cooling Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 177.2 | 119.6 | 9.00 | 129.6 | 10.53 | 141.4 | 12.28 | 153.5 | 13.83 | 157.8 | 14.23 | 164.2 | 14.49 | 168.7 | 14.61 |
| | | 221.5 | 119.6 | 8.83 | 129.6 | 10.38 | 141.4 | 12.08 | 153.5 | 13.61 | 157.8 | 13.97 | 164.2 | 14.26 | 168.7 | 14.43 |
| | | 443.0 | 119.6 | 8.20 | 129.6 | 9.72 | 141.4 | 11.33 | 153.5 | 12.74 | 157.8 | 12.97 | 164.2 | 13.37 | 168.7 | 13.68 |
| | | 553.8 | 119.6 | 7.96 | 129.6 | 9.49 | 141.4 | 11.07 | 153.5 | 12.43 | 157.8 | 12.79 | 164.2 | 13.08 | 168.7 | 13.31 |
| | | 664.5 | 119.6 | 7.85 | 129.6 | 9.37 | 141.4 | 10.96 | 153.5 | 12.28 | 157.8 | 12.71 | 164.2 | 12.94 | 168.7 | 13.14 |
| | 15 | 177.2 | 117.6 | 11.88 | 127.6 | 13.81 | 138.9 | 16.11 | 151.0 | 18.15 | 155.5 | 18.60 | 161.6 | 19.01 | 165.9 | 19.30 |
| | | 221.5 | 117.6 | 11.65 | 127.6 | 13.60 | 138.9 | 15.85 | 151.0 | 17.86 | 155.5 | 18.29 | 161.6 | 18.72 | 165.9 | 19.03 |
| | | 443.0 | 117.6 | 10.73 | 127.6 | 12.74 | 138.9 | 14.81 | 151.0 | 16.71 | 155.5 | 17.08 | 161.6 | 17.57 | 165.9 | 17.92 |
| | | 553.8 | 117.6 | 10.44 | 127.6 | 12.45 | 138.9 | 14.52 | 151.0 | 16.34 | 155.5 | 16.77 | 161.6 | 17.20 | 165.9 | 17.51 |
| | | 664.5 | 117.6 | 10.27 | 127.6 | 12.28 | 138.9 | 14.35 | 151.0 | 16.16 | 155.5 | 16.62 | 161.6 | 17.02 | 165.9 | 17.28 |
| | 20 | 177.2 | 116.1 | 14.44 | 125.7 | 16.73 | 136.9 | 19.53 | 148.9 | 22.00 | 153.3 | 22.49 | 159.3 | 23.04 | 163.6 | 23.47 |
| | | 221.5 | 116.1 | 14.15 | 125.7 | 16.47 | 136.9 | 19.21 | 148.9 | 21.65 | 153.3 | 22.14 | 159.3 | 22.69 | 163.6 | 23.12 |
| | | 443.0 | 116.1 | 13.00 | 125.7 | 15.42 | 136.9 | 17.92 | 148.9 | 20.24 | 153.3 | 20.73 | 159.3 | 21.28 | 163.6 | 21.71 |
| | | 553.8 | 116.1 | 12.62 | 125.7 | 15.07 | 136.9 | 17.57 | 148.9 | 19.81 | 153.3 | 20.30 | 159.3 | 20.85 | 163.6 | 21.22 |
| | | 664.5 | 116.1 | 12.45 | 125.7 | 14.87 | 136.9 | 17.37 | 148.9 | 19.61 | 153.3 | 20.10 | 159.3 | 20.65 | 163.6 | 20.97 |
| | 25 | 177.2 | 116.1 | 17.80 | 125.7 | 20.62 | 136.9 | 24.04 | 148.9 | 27.09 | 153.3 | 27.75 | 159.3 | 28.44 | 163.6 | 28.90 |
| | | 221.5 | 116.1 | 17.43 | 125.7 | 20.30 | 136.9 | 23.66 | 148.9 | 26.65 | 153.3 | 27.32 | 159.3 | 27.98 | 163.6 | 28.47 |
| | | 443.0 | 116.1 | 16.04 | 125.7 | 19.03 | 136.9 | 22.14 | 148.9 | 24.93 | 153.3 | 25.54 | 159.3 | 26.22 | 163.6 | 26.77 |
| | | 553.8 | 116.1 | 15.61 | 125.7 | 18.60 | 136.9 | 21.71 | 148.9 | 24.45 | 153.3 | 25.07 | 159.3 | 25.74 | 163.6 | 26.17 |
| | | 664.5 | 116.1 | 15.39 | 125.7 | 18.38 | 136.9 | 21.49 | 148.9 | 24.21 | 153.3 | 24.82 | 159.3 | 25.48 | 163.6 | 25.85 |
| | 30 | 177.2 | 116.1 | 21.34 | 125.7 | 24.79 | 136.9 | 28.87 | 148.9 | 32.53 | 153.3 | 33.27 | 159.3 | 34.14 | 163.6 | 34.65 |
| | | 221.5 | 116.1 | 20.91 | 125.7 | 24.39 | 136.9 | 28.41 | 148.9 | 32.01 | 153.3 | 32.75 | 159.3 | 33.59 | 163.6 | 34.14 |
| | | 443.0 | 116.1 | 19.21 | 125.7 | 22.80 | 136.9 | 26.60 | 148.9 | 29.94 | 153.3 | 30.68 | 159.3 | 31.46 | 163.6 | 32.13 |
| | | 553.8 | 116.1 | 18.72 | 125.7 | 22.32 | 136.9 | 26.03 | 148.9 | 29.33 | 153.3 | 30.13 | 159.3 | 30.86 | 163.6 | 31.40 |
| | | 664.5 | 116.1 | 18.49 | 125.7 | 22.08 | 136.9 | 25.77 | 148.9 | 29.02 | 153.3 | 29.85 | 159.3 | 30.54 | 163.6 | 31.03 |
| | 35 | 177.2 | 104.4 | 21.59 | 113.0 | 25.11 | 123.3 | 29.19 | 134.0 | 32.92 | 138.0 | 33.64 | 143.2 | 34.51 | 147.2 | 35.11 |
| | | 221.5 | 104.4 | 21.16 | 113.0 | 24.70 | 123.3 | 28.73 | 134.0 | 32.38 | 138.0 | 33.10 | 143.2 | 33.96 | 147.2 | 34.57 |
| | | 443.0 | 104.4 | 19.44 | 113.0 | 23.06 | 123.3 | 26.89 | 134.0 | 30.25 | 138.0 | 31.03 | 143.2 | 31.83 | 147.2 | 32.44 |
| | | 553.8 | 104.4 | 18.90 | 113.0 | 22.57 | 123.3 | 26.34 | 134.0 | 29.64 | 138.0 | 30.43 | 143.2 | 31.23 | 147.2 | 31.77 |
| | | 664.5 | 104.4 | 18.63 | 113.0 | 22.32 | 123.3 | 26.08 | 134.0 | 29.33 | 138.0 | 30.13 | 143.2 | 30.91 | 147.2 | 31.43 |
| | 40 | 177.2 | 92.9 | 22.78 | 100.6 | 26.46 | 109.5 | 30.80 | 119.0 | 34.71 | 122.5 | 35.51 | 127.4 | 36.35 | 130.9 | 37.01 |
| | | 221.5 | 92.9 | 22.32 | 100.6 | 26.03 | 109.5 | 30.31 | 119.0 | 34.14 | 122.5 | 34.94 | 127.4 | 35.80 | 130.9 | 36.46 |
| | | 443.0 | 92.9 | 20.48 | 100.6 | 24.33 | 109.5 | 28.35 | 119.0 | 31.89 | 122.5 | 32.69 | 127.4 | 33.59 | 130.9 | 34.28 |
| | | 553.8 | 92.9 | 19.93 | 100.6 | 23.78 | 109.5 | 27.75 | 119.0 | 31.29 | 122.5 | 32.07 | 127.4 | 32.93 | 130.9 | 33.47 |
| | | 664.5 | 92.9 | 19.67 | 100.6 | 23.50 | 109.5 | 27.44 | 119.0 | 30.97 | 122.5 | 31.77 | 127.4 | 32.59 | 130.9 | 33.07 |
| | 45 | 177.2 | 81.1 | 23.98 | 88.0 | 27.83 | 95.7 | 32.41 | 104.0 | 36.52 | 107.2 | 37.38 | 111.5 | 38.19 | 114.7 | 38.93 |
| | | 221.5 | 81.1 | 23.47 | 88.0 | 27.38 | 95.7 | 31.89 | 104.0 | 35.92 | 107.2 | 36.78 | 111.5 | 37.62 | 114.7 | 38.36 |
| | | 443.0 | 81.1 | 21.53 | 88.0 | 25.62 | 95.7 | 29.82 | 104.0 | 33.53 | 107.2 | 34.33 | 111.5 | 35.37 | 114.7 | 36.09 |
| | | 553.8 | 81.1 | 20.97 | 88.0 | 24.99 | 95.7 | 29.16 | 104.0 | 32.93 | 107.2 | 33.73 | 111.5 | 34.63 | 114.7 | 35.19 |
| | | 664.5 | 81.1 | 20.70 | 88.0 | 24.70 | 95.7 | 28.81 | 104.0 | 32.61 | 107.2 | 33.42 | 111.5 | 34.28 | 114.7 | 34.74 |
| 120 | 10 | 177.2 | 113.2 | 8.60 | 122.7 | 9.92 | 133.4 | 11.68 | 145.2 | 13.09 | 149.8 | 13.49 | 155.5 | 13.77 | 159.8 | 14.01 |
| | | 221.5 | 113.2 | 8.42 | 122.7 | 9.77 | 133.4 | 11.48 | 145.2 | 12.88 | 149.8 | 13.25 | 155.5 | 13.54 | 159.8 | 13.77 |
| | | 443.0 | 113.2 | 7.71 | 122.7 | 9.12 | 133.4 | 10.64 | 145.2 | 12.07 | 149.8 | 12.30 | 155.5 | 12.65 | 159.8 | 12.82 |
| | | 553.8 | 113.2 | 7.59 | 122.7 | 8.94 | 133.4 | 10.55 | 145.2 | 11.82 | 149.8 | 12.05 | 155.5 | 12.42 | 159.8 | 12.59 |
| | | 664.5 | 113.2 | 7.54 | 122.7 | 8.86 | 133.4 | 10.49 | 145.2 | 11.71 | 149.8 | 11.94 | 155.5 | 12.31 | 159.8 | 12.48 |
| | 15 | 177.2 | 112.1 | 11.39 | 121.3 | 13.20 | 132.0 | 15.44 | 143.7 | 17.34 | 148.0 | 17.80 | 153.6 | 18.23 | 157.9 | 18.52 |
| | | 221.5 | 112.1 | 11.16 | 121.3 | 13.00 | 132.0 | 15.18 | 143.7 | 17.08 | 148.0 | 17.51 | 153.6 | 17.92 | 157.9 | 18.23 |
| | | 443.0 | 112.1 | 10.24 | 121.3 | 12.14 | 132.0 | 14.15 | 143.7 | 15.98 | 148.0 | 16.34 | 153.6 | 16.77 | 157.9 | 17.08 |
| | | 553.8 | 112.1 | 10.01 | 121.3 | 11.88 | 132.0 | 13.89 | 143.7 | 15.67 | 148.0 | 16.04 | 153.6 | 16.47 | 157.9 | 16.71 |
| | | 664.5 | 112.1 | 9.89 | 121.3 | 11.76 | 132.0 | 13.78 | 143.7 | 15.53 | 148.0 | 15.88 | 153.6 | 16.31 | 157.9 | 16.53 |
| | 20 | 177.2 | 111.0 | 13.89 | 120.1 | 16.11 | 130.8 | 18.78 | 142.3 | 21.13 | 146.3 | 21.62 | 152.1 | 22.18 | 156.4 | 22.54 |
| | | 221.5 | 111.0 | 13.60 | 120.1 | 15.85 | 130.8 | 18.47 | 142.3 | 20.79 | 146.3 | 21.28 | 152.1 | 21.83 | 156.4 | 22.20 |
| | | 443.0 | 111.0 | 12.51 | 120.1 | 14.81 | 130.8 | 17.25 | 142.3 | 19.44 | 146.3 | 19.93 | 152.1 | 20.42 | 156.4 | 20.85 |
| | | 553.8 | 111.0 | 12.14 | 120.1 | 14.52 | 130.8 | 16.88 | 142.3 | 19.09 | 146.3 | 19.58 | 152.1 | 20.07 | 156.4 | 20.36 |
| | | 664.5 | 111.0 | 11.96 | 120.1 | 14.35 | 130.8 | 16.71 | 142.3 | 18.90 | 146.3 | 19.38 | 152.1 | 19.87 | 156.4 | 20.13 |
| | 25 | 177.2 | 111.0 | 17.05 | 120.1 | 19.76 | 130.8 | 23.06 | 142.3 | 25.97 | 146.3 | 26.60 | 152.1 | 27.26 | 156.4 | 27.75 |
| | | 221.5 | 111.0 | 16.71 | 120.1 | 19.44 | 130.8 | 22.69 | 142.3 | 25.54 | 146.3 | 26.17 | 152.1 | 26.83 | 156.4 | 27.32 |
| | | 443.0 | 111.0 | 15.36 | 120.1 | 18.23 | 130.8 | 21.22 | 142.3 | 23.90 | 146.3 | 24.45 | 152.1 | 25.13 | 156.4 | 25.62 |
| | | 553.8 | 111.0 | 14.95 | 120.1 | 17.80 | 130.8 | 20.79 | 142.3 | 23.41 | 146.3 | 24.02 | 152.1 | 24.64 | 156.4 | 24.99 |
| | | 664.5 | 111.0 | 14.72 | 120.1 | 17.60 | 130.8 | 20.59 | 142.3 | 23.18 | 146.3 | 23.81 | 152.1 | 24.39 | 156.4 | 24.70 |
| | 30 | 177.2 | 111.0 | 20.59 | 120.1 | 23.92 | 130.8 | 27.89 | 142.3 | 31.43 | 146.3 | 32.18 | 152.1 | 32.96 | 156.4 | 33.50 |
| | | 221.5 | 111.0 | 20.19 | 120.1 | 23.53 | 130.8 | 27.44 | 142.3 | 30.91 | 146.3 | 31.66 | 152.1 | 32.44 | 156.4 | 32.99 |
| | | 443.0 | 111.0 | 18.60 | 120.1 | 22.00 | 130.8 | 25.68 | 142.3 | 28.90 | 146.3 | 29.57 | 152.1 | 30.37 | 156.4 | 30.97 |
| | | 553.8 | 111.0 | 18.06 | 120.1 | 21.53 | 130.8 | 25.13 | 142.3 | 28.30 | 146.3 | 29.02 | 152.1 | 29.82 | 156.4 | 30.25 |
| | | 664.5 | 111.0 | 17.77 | 120.1 | 21.28 | 130.8 | 24.85 | 142.3 | 27.98 | 146.3 | 28.76 | 152.1 | 29.54 | 156.4 | 29.88 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 177.2 | 101.5 | 21.08 | 109.8 | 24.55 | 119.6 | 28.58 | 130.0 | 32.15 | 134.0 | 32.96 | 139.2 | 33.76 | 143.2 | 34.39 |
| | | 221.5 | 101.5 | 20.67 | 109.8 | 24.15 | 119.6 | 28.12 | 130.0 | 31.66 | 134.0 | 32.44 | 139.2 | 33.24 | 143.2 | 33.85 |
| | | 443.0 | 101.5 | 19.03 | 109.8 | 22.57 | 119.6 | 26.28 | 130.0 | 29.64 | 134.0 | 30.37 | 139.2 | 31.17 | 143.2 | 31.72 |
| | | 553.8 | 101.5 | 18.54 | 109.8 | 22.08 | 119.6 | 25.74 | 130.0 | 29.02 | 134.0 | 29.76 | 139.2 | 30.54 | 143.2 | 30.97 |
| | | 664.5 | 101.5 | 18.29 | 109.8 | 21.83 | 119.6 | 25.45 | 130.0 | 28.73 | 134.0 | 29.45 | 139.2 | 30.25 | 143.2 | 30.62 |
| | 40 | 177.2 | 92.0 | 22.69 | 99.7 | 26.40 | 108.6 | 30.74 | 118.1 | 34.65 | 121.4 | 35.45 | 126.2 | 36.29 | 129.9 | 36.98 |
| | | 221.5 | 92.0 | 22.26 | 99.7 | 25.97 | 108.6 | 30.25 | 118.1 | 34.08 | 121.4 | 34.88 | 126.2 | 35.74 | 129.9 | 36.41 |
| | | 443.0 | 92.0 | 20.48 | 99.7 | 24.27 | 108.6 | 28.30 | 118.1 | 31.89 | 121.4 | 32.61 | 126.2 | 33.47 | 129.9 | 34.14 |
| | | 553.8 | 92.0 | 19.93 | 99.7 | 23.78 | 108.6 | 27.75 | 118.1 | 31.23 | 121.4 | 32.01 | 126.2 | 32.87 | 129.9 | 33.36 |
| | | 664.5 | 92.0 | 19.67 | 99.7 | 23.55 | 108.6 | 27.47 | 118.1 | 30.89 | 121.4 | 31.72 | 126.2 | 32.56 | 129.9 | 32.96 |
| | 45 | 177.2 | 82.8 | 24.33 | 89.4 | 28.27 | 97.5 | 32.90 | 106.1 | 37.13 | 109.0 | 37.93 | 113.3 | 38.85 | 116.7 | 39.57 |
| | | 221.5 | 82.8 | 23.84 | 89.4 | 27.81 | 97.5 | 32.38 | 106.1 | 36.52 | 109.0 | 37.32 | 113.3 | 38.24 | 116.7 | 38.97 |
| | | 443.0 | 82.8 | 21.94 | 89.4 | 25.97 | 97.5 | 30.31 | 106.1 | 34.14 | 109.0 | 34.88 | 113.3 | 35.80 | 116.7 | 36.58 |
| | | 553.8 | 82.8 | 21.34 | 89.4 | 25.48 | 97.5 | 29.76 | 106.1 | 33.42 | 109.0 | 34.28 | 113.3 | 35.19 | 116.7 | 35.74 |
| | | 664.5 | 82.8 | 21.05 | 89.4 | 25.25 | 97.5 | 29.48 | 106.1 | 33.04 | 109.0 | 33.96 | 113.3 | 34.88 | 116.7 | 35.31 |
| 110 | 10 | 177.2 | 106.9 | 8.16 | 115.6 | 9.46 | 125.9 | 10.90 | 136.9 | 12.36 | 141.1 | 12.57 | 146.9 | 12.97 | 150.6 | 13.14 |
| | | 221.5 | 106.9 | 7.99 | 115.6 | 9.29 | 125.9 | 10.75 | 136.9 | 12.16 | 141.1 | 12.39 | 146.9 | 12.74 | 150.6 | 12.91 |
| | | 443.0 | 106.9 | 7.36 | 115.6 | 8.63 | 125.9 | 10.10 | 136.9 | 11.41 | 141.1 | 11.70 | 146.9 | 11.85 | 150.6 | 12.10 |
| | | 553.8 | 106.9 | 7.11 | 115.6 | 8.46 | 125.9 | 9.87 | 136.9 | 11.16 | 141.1 | 11.39 | 146.9 | 11.62 | 150.6 | 11.93 |
| | | 664.5 | 106.9 | 6.99 | 115.6 | 8.37 | 125.9 | 9.75 | 136.9 | 11.04 | 141.1 | 11.24 | 146.9 | 11.50 | 150.6 | 11.85 |
| | 15 | 177.2 | 106.3 | 10.90 | 115.0 | 12.65 | 125.3 | 14.69 | 136.2 | 16.54 | 140.3 | 16.91 | 145.8 | 17.34 | 149.8 | 17.66 |
| | | 221.5 | 106.3 | 10.67 | 115.0 | 12.45 | 125.3 | 14.46 | 136.2 | 16.28 | 140.3 | 16.65 | 145.8 | 17.08 | 149.8 | 17.37 |
| | | 443.0 | 106.3 | 9.81 | 115.0 | 11.59 | 125.3 | 13.54 | 136.2 | 15.24 | 140.3 | 15.61 | 145.8 | 15.98 | 149.8 | 16.28 |
| | | 553.8 | 106.3 | 9.52 | 115.0 | 11.33 | 125.3 | 13.23 | 136.2 | 14.95 | 140.3 | 15.30 | 145.8 | 15.67 | 149.8 | 15.91 |
| | | 664.5 | 106.3 | 9.37 | 115.0 | 11.22 | 125.3 | 13.08 | 136.2 | 14.78 | 140.3 | 15.15 | 145.8 | 15.53 | 149.8 | 15.73 |
| | 20 | 177.2 | 105.8 | 13.31 | 114.4 | 15.50 | 124.7 | 18.03 | 135.4 | 20.27 | 139.5 | 20.76 | 144.9 | 21.25 | 149.0 | 21.68 |
| | | 221.5 | 105.8 | 13.05 | 114.4 | 15.24 | 124.7 | 17.74 | 135.4 | 19.93 | 139.5 | 20.42 | 144.9 | 20.91 | 149.0 | 21.34 |
| | | 443.0 | 105.8 | 12.02 | 114.4 | 14.21 | 124.7 | 16.59 | 135.4 | 18.66 | 139.5 | 19.09 | 144.9 | 19.64 | 149.0 | 20.01 |
| | | 553.8 | 105.8 | 11.65 | 114.4 | 13.89 | 124.7 | 16.22 | 135.4 | 18.29 | 139.5 | 18.78 | 144.9 | 19.27 | 149.0 | 19.44 |
| | | 664.5 | 105.8 | 11.47 | 114.4 | 13.75 | 124.7 | 16.04 | 135.4 | 18.12 | 139.5 | 18.63 | 144.9 | 19.09 | 149.0 | 19.18 |
| | 25 | 177.2 | 105.8 | 16.30 | 114.4 | 18.98 | 124.7 | 22.06 | 135.4 | 24.85 | 139.5 | 25.39 | 144.9 | 26.02 | 149.0 | 26.51 |
| | | 221.5 | 105.8 | 15.98 | 114.4 | 18.66 | 124.7 | 21.71 | 135.4 | 24.45 | 139.5 | 24.99 | 144.9 | 25.62 | 149.0 | 26.11 |
| | | 443.0 | 105.8 | 14.69 | 114.4 | 17.43 | 124.7 | 20.30 | 135.4 | 22.86 | 139.5 | 23.41 | 144.9 | 24.02 | 149.0 | 24.45 |
| | | 553.8 | 105.8 | 14.26 | 114.4 | 17.08 | 124.7 | 19.87 | 135.4 | 22.37 | 139.5 | 22.98 | 144.9 | 23.53 | 149.0 | 23.84 |
| | | 664.5 | 105.8 | 14.06 | 114.4 | 16.88 | 124.7 | 19.67 | 135.4 | 22.14 | 139.5 | 22.78 | 144.9 | 23.29 | 149.0 | 23.55 |
| | 30 | 177.2 | 105.8 | 19.84 | 114.4 | 23.12 | 124.7 | 26.89 | 135.4 | 30.31 | 139.5 | 30.97 | 144.9 | 31.78 | 149.0 | 32.35 |
| | | 221.5 | 105.8 | 19.44 | 114.4 | 22.75 | 124.7 | 26.46 | 135.4 | 29.82 | 139.5 | 30.48 | 144.9 | 31.29 | 149.0 | 31.83 |
| | | 443.0 | 105.8 | 17.92 | 114.4 | 21.22 | 124.7 | 24.76 | 135.4 | 27.87 | 139.5 | 28.53 | 144.9 | 29.27 | 149.0 | 29.82 |
| | | 553.8 | 105.8 | 17.43 | 114.4 | 20.79 | 124.7 | 24.21 | 135.4 | 27.32 | 139.5 | 27.98 | 144.9 | 28.73 | 149.0 | 29.08 |
| | | 664.5 | 105.8 | 17.20 | 114.4 | 20.59 | 124.7 | 23.93 | 135.4 | 27.04 | 139.5 | 27.72 | 144.9 | 28.44 | 149.0 | 28.73 |
| | 35 | 177.2 | 98.3 | 20.65 | 106.6 | 23.98 | 116.1 | 27.95 | 126.2 | 31.49 | 130.0 | 32.21 | 135.1 | 33.02 | 138.8 | 33.65 |
| | | 221.5 | 98.3 | 20.24 | 106.6 | 23.61 | 116.1 | 27.49 | 126.2 | 30.97 | 130.0 | 31.72 | 135.1 | 32.50 | 138.8 | 33.10 |
| | | 443.0 | 98.3 | 18.60 | 106.6 | 22.08 | 116.1 | 25.74 | 126.2 | 28.96 | 130.0 | 29.70 | 135.1 | 30.43 | 138.8 | 30.97 |
| | | 553.8 | 98.3 | 18.11 | 106.6 | 21.59 | 116.1 | 25.19 | 126.2 | 28.41 | 130.0 | 29.08 | 135.1 | 29.88 | 138.8 | 30.25 |
| | | 664.5 | 98.3 | 17.86 | 106.6 | 21.34 | 116.1 | 24.91 | 126.2 | 28.15 | 130.0 | 28.78 | 135.1 | 29.62 | 138.8 | 29.88 |
| | 40 | 177.2 | 91.2 | 22.72 | 98.7 | 26.34 | 107.8 | 30.74 | 117.0 | 34.57 | 120.4 | 35.40 | 125.3 | 36.24 | 128.5 | 36.92 |
| | | 221.5 | 91.2 | 22.26 | 98.7 | 25.91 | 107.8 | 30.25 | 117.0 | 34.02 | 120.4 | 34.82 | 125.3 | 35.66 | 128.5 | 36.35 |
| | | 443.0 | 91.2 | 20.42 | 98.7 | 24.27 | 107.8 | 28.24 | 117.0 | 31.83 | 120.4 | 32.56 | 125.3 | 33.42 | 128.5 | 34.08 |
| | | 553.8 | 91.2 | 19.87 | 98.7 | 23.72 | 107.8 | 27.69 | 117.0 | 31.23 | 120.4 | 31.95 | 125.3 | 32.81 | 128.5 | 33.24 |
| | | 664.5 | 91.2 | 19.61 | 98.7 | 23.44 | 107.8 | 27.41 | 117.0 | 30.91 | 120.4 | 31.66 | 125.3 | 32.50 | 128.5 | 32.81 |
| | 45 | 177.2 | 84.0 | 24.78 | 90.9 | 28.67 | 99.2 | 33.56 | 107.8 | 37.67 | 110.7 | 38.56 | 115.3 | 39.46 | 118.4 | 40.17 |
| | | 221.5 | 84.0 | 24.27 | 90.9 | 28.24 | 99.2 | 32.99 | 107.8 | 37.07 | 110.7 | 37.93 | 115.3 | 38.85 | 118.4 | 39.57 |
| | | 443.0 | 84.0 | 22.26 | 90.9 | 26.46 | 99.2 | 30.74 | 107.8 | 34.71 | 110.7 | 35.43 | 115.3 | 36.41 | 118.4 | 37.19 |
| | | 553.8 | 84.0 | 21.65 | 90.9 | 25.85 | 99.2 | 30.19 | 107.8 | 34.02 | 110.7 | 34.82 | 115.3 | 35.74 | 118.4 | 36.23 |
| | | 664.5 | 84.0 | 21.34 | 90.9 | 25.56 | 99.2 | 29.91 | 107.8 | 33.70 | 110.7 | 34.51 | 115.3 | 35.40 | 118.4 | 35.74 |
| 100 | 10 | 177.2 | 100.6 | 7.59 | 108.7 | 8.91 | 118.4 | 10.30 | 128.8 | 11.53 | 132.8 | 11.82 | 137.7 | 12.22 | 141.7 | 12.48 |
| | | 221.5 | 100.6 | 7.45 | 108.7 | 8.74 | 118.4 | 10.15 | 128.8 | 11.36 | 132.8 | 11.67 | 137.7 | 12.02 | 141.7 | 12.25 |
| | | 443.0 | 100.6 | 6.87 | 108.7 | 8.08 | 118.4 | 9.51 | 128.8 | 10.73 | 132.8 | 11.04 | 137.7 | 11.27 | 141.7 | 11.36 |
| | | 553.8 | 100.6 | 6.76 | 108.7 | 7.91 | 118.4 | 9.32 | 128.8 | 10.44 | 132.8 | 10.73 | 137.7 | 11.04 | 141.7 | 11.21 |
| | | 664.5 | 100.6 | 6.70 | 108.7 | 7.82 | 118.4 | 9.23 | 128.8 | 10.29 | 132.8 | 10.58 | 137.7 | 10.90 | 141.7 | 11.13 |
| | 15 | 177.2 | 100.6 | 10.32 | 108.7 | 12.02 | 118.4 | 14.01 | 128.8 | 15.73 | 132.8 | 16.10 | 137.7 | 16.54 | 141.7 | 16.85 |
| | | 221.5 | 100.6 | 10.12 | 108.7 | 11.82 | 118.4 | 13.78 | 128.8 | 15.50 | 132.8 | 15.85 | 137.7 | 16.28 | 141.7 | 16.59 |
| | | 443.0 | 100.6 | 9.32 | 108.7 | 11.04 | 118.4 | 12.86 | 128.8 | 14.52 | 132.8 | 14.87 | 137.7 | 15.24 | 141.7 | 15.50 |
| | | 553.8 | 100.6 | 9.09 | 108.7 | 10.79 | 118.4 | 12.62 | 128.8 | 14.21 | 132.8 | 14.58 | 137.7 | 14.95 | 141.7 | 15.12 |
| | | 664.5 | 100.6 | 8.97 | 108.7 | 10.67 | 118.4 | 12.51 | 128.8 | 14.06 | 132.8 | 14.43 | 137.7 | 14.78 | 141.7 | 14.95 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 177.2 | 100.6 | 12.74 | 108.7 | 14.81 | 118.4 | 17.31 | 128.8 | 19.47 | 132.8 | 19.90 | 137.7 | 20.39 | 141.7 | 20.76 |
| | | 221.5 | 100.6 | 12.51 | 108.7 | 14.58 | 118.4 | 17.02 | 128.8 | 19.15 | 132.8 | 19.58 | 137.7 | 20.07 | 141.7 | 20.42 |
| | | 443.0 | 100.6 | 11.53 | 108.7 | 13.66 | 118.4 | 15.85 | 128.8 | 17.86 | 132.8 | 18.29 | 137.7 | 18.78 | 141.7 | 19.15 |
| | | 553.8 | 100.6 | 11.16 | 108.7 | 13.35 | 118.4 | 15.55 | 128.8 | 17.57 | 132.8 | 18.00 | 137.7 | 18.41 | 141.7 | 18.60 |
| | | 664.5 | 100.6 | 10.98 | 108.7 | 13.20 | 118.4 | 15.39 | 128.8 | 17.40 | 132.8 | 17.83 | 137.7 | 18.23 | 141.7 | 18.32 |
| | 25 | 177.2 | 100.6 | 15.56 | 108.7 | 18.09 | 118.4 | 21.08 | 128.8 | 23.75 | 132.8 | 24.30 | 137.7 | 24.84 | 141.7 | 25.36 |
| | | 221.5 | 100.6 | 15.24 | 108.7 | 17.80 | 118.4 | 20.73 | 128.8 | 23.35 | 132.8 | 23.90 | 137.7 | 24.45 | 141.7 | 24.93 |
| | | 443.0 | 100.6 | 14.03 | 108.7 | 16.65 | 118.4 | 19.38 | 128.8 | 21.83 | 132.8 | 22.32 | 137.7 | 22.92 | 141.7 | 23.29 |
| | | 553.8 | 100.6 | 13.66 | 108.7 | 16.28 | 118.4 | 18.95 | 128.8 | 21.40 | 132.8 | 21.89 | 137.7 | 22.49 | 141.7 | 22.69 |
| | | 664.5 | 100.6 | 13.48 | 108.7 | 16.10 | 118.4 | 18.75 | 128.8 | 21.19 | 132.8 | 21.68 | 137.7 | 22.29 | 141.7 | 22.37 |
| | 30 | 177.2 | 100.6 | 19.16 | 108.7 | 22.26 | 118.4 | 25.91 | 128.8 | 29.19 | 132.8 | 29.88 | 137.7 | 30.62 | 141.7 | 31.17 |
| | | 221.5 | 100.6 | 18.78 | 108.7 | 21.89 | 118.4 | 25.48 | 128.8 | 28.73 | 132.8 | 29.39 | 137.7 | 30.13 | 141.7 | 30.68 |
| | | 443.0 | 100.6 | 17.25 | 108.7 | 20.42 | 118.4 | 23.84 | 128.8 | 26.83 | 132.8 | 27.44 | 137.7 | 28.18 | 141.7 | 28.67 |
| | | 553.8 | 100.6 | 16.77 | 108.7 | 20.01 | 118.4 | 23.35 | 128.8 | 26.28 | 132.8 | 26.95 | 137.7 | 27.63 | 141.7 | 27.92 |
| | | 664.5 | 100.6 | 16.53 | 108.7 | 19.79 | 118.4 | 23.12 | 128.8 | 26.00 | 132.8 | 26.71 | 137.7 | 27.35 | 141.7 | 27.57 |
| | 35 | 177.2 | 95.5 | 20.22 | 103.5 | 23.49 | 112.4 | 27.34 | 122.4 | 30.82 | 126.2 | 31.55 | 130.9 | 32.27 | 134.5 | 32.84 |
| | | 221.5 | 95.5 | 19.81 | 103.5 | 23.12 | 112.4 | 26.89 | 122.4 | 30.31 | 126.2 | 31.03 | 130.9 | 31.77 | 134.5 | 32.32 |
| | | 443.0 | 95.5 | 18.23 | 103.5 | 21.59 | 112.4 | 25.13 | 122.4 | 28.30 | 126.2 | 29.02 | 130.9 | 29.76 | 134.5 | 30.25 |
| | | 553.8 | 95.5 | 17.68 | 103.5 | 21.16 | 112.4 | 24.64 | 122.4 | 27.75 | 126.2 | 28.47 | 130.9 | 29.21 | 134.5 | 29.45 |
| | | 664.5 | 95.5 | 17.40 | 103.5 | 20.94 | 112.4 | 24.39 | 122.4 | 27.47 | 126.2 | 28.21 | 130.9 | 28.93 | 134.5 | 29.05 |
| | 40 | 177.2 | 90.3 | 22.63 | 97.8 | 26.34 | 106.6 | 30.68 | 115.9 | 34.51 | 119.3 | 35.40 | 123.9 | 36.26 | 127.6 | 36.87 |
| | | 221.5 | 90.3 | 22.20 | 97.8 | 25.91 | 106.6 | 30.19 | 115.9 | 33.96 | 119.3 | 34.82 | 123.9 | 35.66 | 127.6 | 36.29 |
| | | 443.0 | 90.3 | 20.42 | 97.8 | 24.21 | 106.6 | 28.24 | 115.9 | 31.77 | 119.3 | 32.50 | 123.9 | 33.36 | 127.6 | 33.96 |
| | | 553.8 | 90.3 | 19.87 | 97.8 | 23.72 | 106.6 | 27.63 | 115.9 | 31.17 | 119.3 | 31.95 | 123.9 | 32.75 | 127.6 | 33.04 |
| | | 664.5 | 90.3 | 19.61 | 97.8 | 23.47 | 106.6 | 27.32 | 115.9 | 30.86 | 119.3 | 31.69 | 123.9 | 32.44 | 127.6 | 32.59 |
| | 45 | 177.2 | 85.1 | 25.07 | 92.3 | 29.19 | 100.7 | 34.02 | 109.5 | 38.22 | 112.4 | 39.26 | 117.0 | 40.23 | 120.5 | 40.89 |
| | | 221.5 | 85.1 | 24.58 | 92.3 | 28.73 | 100.7 | 33.47 | 109.5 | 37.62 | 112.4 | 38.59 | 117.0 | 39.57 | 120.5 | 40.26 |
| | | 443.0 | 85.1 | 22.63 | 92.3 | 26.83 | 100.7 | 31.34 | 109.5 | 35.25 | 112.4 | 35.98 | 117.0 | 36.95 | 120.5 | 37.68 |
| | | 553.8 | 85.1 | 22.08 | 92.3 | 26.28 | 100.7 | 30.60 | 109.5 | 34.57 | 112.4 | 35.43 | 117.0 | 36.29 | 120.5 | 36.64 |
| | | 664.5 | 85.1 | 21.80 | 92.3 | 26.00 | 100.7 | 30.25 | 109.5 | 34.25 | 112.4 | 35.14 | 117.0 | 35.95 | 120.5 | 36.12 |
| 90 | 10 | 177.2 | 90.3 | 6.58 | 97.8 | 7.62 | 106.6 | 8.80 | 115.9 | 10.01 | 119.3 | 10.26 | 123.9 | 10.56 | 127.6 | 10.75 |
| | | 221.5 | 90.3 | 6.47 | 97.8 | 7.51 | 106.6 | 8.68 | 115.9 | 9.86 | 119.3 | 10.09 | 123.9 | 10.38 | 127.6 | 10.56 |
| | | 443.0 | 90.3 | 5.98 | 97.8 | 7.04 | 106.6 | 8.22 | 115.9 | 9.28 | 119.3 | 9.44 | 123.9 | 9.69 | 127.6 | 9.86 |
| | | 553.8 | 90.3 | 5.75 | 97.8 | 6.93 | 106.6 | 7.97 | 115.9 | 9.03 | 119.3 | 9.26 | 123.9 | 9.51 | 127.6 | 9.55 |
| | | 664.5 | 90.3 | 5.63 | 97.8 | 6.87 | 106.6 | 7.85 | 115.9 | 8.91 | 119.3 | 9.18 | 123.9 | 9.41 | 127.6 | 9.41 |
| | 15 | 177.2 | 90.3 | 8.89 | 97.8 | 10.35 | 106.6 | 12.02 | 115.9 | 13.57 | 119.3 | 13.86 | 123.9 | 14.26 | 127.6 | 14.50 |
| | | 221.5 | 90.3 | 8.72 | 97.8 | 10.18 | 106.6 | 11.82 | 115.9 | 13.35 | 119.3 | 13.66 | 123.9 | 14.03 | 127.6 | 14.26 |
| | | 443.0 | 90.3 | 8.05 | 97.8 | 9.52 | 106.6 | 11.10 | 115.9 | 12.51 | 119.3 | 12.80 | 123.9 | 13.11 | 127.6 | 13.35 |
| | | 553.8 | 90.3 | 7.80 | 97.8 | 9.32 | 106.6 | 10.85 | 115.9 | 12.25 | 119.3 | 12.57 | 123.9 | 12.86 | 127.6 | 13.00 |
| | | 664.5 | 90.3 | 7.68 | 97.8 | 9.23 | 106.6 | 10.73 | 115.9 | 12.14 | 119.3 | 12.45 | 123.9 | 12.74 | 127.6 | 12.80 |
| | 20 | 177.2 | 90.3 | 10.95 | 97.8 | 12.77 | 106.6 | 14.87 | 115.9 | 16.74 | 119.3 | 17.08 | 123.9 | 17.54 | 127.6 | 17.83 |
| | | 221.5 | 90.3 | 10.73 | 97.8 | 12.57 | 106.6 | 14.64 | 115.9 | 16.47 | 119.3 | 16.82 | 123.9 | 17.25 | 127.6 | 17.57 |
| | | 443.0 | 90.3 | 9.89 | 97.8 | 11.71 | 106.6 | 13.66 | 115.9 | 15.36 | 119.3 | 15.79 | 123.9 | 16.16 | 127.6 | 16.47 |
| | | 553.8 | 90.3 | 9.63 | 97.8 | 11.47 | 106.6 | 13.43 | 115.9 | 15.12 | 119.3 | 15.50 | 123.9 | 15.85 | 127.6 | 16.04 |
| | | 664.5 | 90.3 | 9.52 | 97.8 | 11.33 | 106.6 | 13.29 | 115.9 | 15.01 | 119.3 | 15.33 | 123.9 | 15.70 | 127.6 | 15.82 |
| | 25 | 177.2 | 90.3 | 13.37 | 97.8 | 15.56 | 106.6 | 18.09 | 115.9 | 20.39 | 119.3 | 20.88 | 123.9 | 21.37 | 127.6 | 21.82 |
| | | 221.5 | 90.3 | 13.11 | 97.8 | 15.30 | 106.6 | 17.80 | 115.9 | 20.07 | 119.3 | 20.56 | 123.9 | 21.05 | 127.6 | 21.46 |
| | | 443.0 | 90.3 | 12.08 | 97.8 | 14.32 | 106.6 | 16.65 | 115.9 | 18.78 | 119.3 | 19.21 | 123.9 | 19.70 | 127.6 | 20.07 |
| | | 553.8 | 90.3 | 11.71 | 97.8 | 14.03 | 106.6 | 16.34 | 115.9 | 18.41 | 119.3 | 18.84 | 123.9 | 19.33 | 127.6 | 19.58 |
| | | 664.5 | 90.3 | 11.53 | 97.8 | 13.86 | 106.6 | 16.19 | 115.9 | 18.23 | 119.3 | 18.66 | 123.9 | 19.15 | 127.6 | 19.33 |
| | 30 | 177.2 | 90.3 | 16.50 | 97.8 | 19.15 | 106.6 | 22.32 | 115.9 | 25.10 | 119.3 | 25.71 | 123.9 | 26.34 | 127.6 | 26.83 |
| | | 221.5 | 90.3 | 16.16 | 97.8 | 18.84 | 106.6 | 21.94 | 115.9 | 24.70 | 119.3 | 25.31 | 123.9 | 25.91 | 127.6 | 26.40 |
| | | 443.0 | 90.3 | 14.81 | 97.8 | 17.63 | 106.6 | 20.48 | 115.9 | 23.12 | 119.3 | 23.66 | 123.9 | 24.27 | 127.6 | 24.70 |
| | | 553.8 | 90.3 | 14.46 | 97.8 | 17.25 | 106.6 | 20.07 | 115.9 | 22.63 | 119.3 | 23.23 | 123.9 | 23.78 | 127.6 | 24.02 |
| | | 664.5 | 90.3 | 14.27 | 97.8 | 17.08 | 106.6 | 19.84 | 115.9 | 22.37 | 119.3 | 23.03 | 123.9 | 23.55 | 127.6 | 23.69 |
| | 35 | 177.2 | 87.9 | 17.80 | 95.2 | 20.62 | 103.8 | 24.04 | 112.7 | 27.09 | 116.1 | 27.70 | 120.5 | 28.38 | 123.9 | 28.93 |
| | | 221.5 | 87.9 | 17.43 | 95.2 | 20.30 | 103.8 | 23.66 | 112.7 | 26.65 | 116.1 | 27.26 | 120.5 | 27.92 | 123.9 | 28.47 |
| | | 443.0 | 87.9 | 16.04 | 95.2 | 19.03 | 103.8 | 22.14 | 112.7 | 24.93 | 116.1 | 25.48 | 120.5 | 26.17 | 123.9 | 26.65 |
| | | 553.8 | 87.9 | 15.55 | 95.2 | 18.60 | 103.8 | 21.65 | 112.7 | 24.45 | 116.1 | 25.07 | 120.5 | 25.68 | 123.9 | 25.91 |
| | | 664.5 | 87.9 | 15.30 | 95.2 | 18.38 | 103.8 | 21.40 | 112.7 | 24.21 | 116.1 | 24.85 | 120.5 | 25.42 | 123.9 | 25.56 |
| | 40 | 177.2 | 85.4 | 20.39 | 92.5 | 23.75 | 100.7 | 27.64 | 109.5 | 31.12 | 112.7 | 31.86 | 117.3 | 32.66 | 120.4 | 33.21 |
| | | 221.5 | 85.4 | 20.01 | 92.5 | 23.35 | 100.7 | 27.20 | 109.5 | 30.60 | 112.7 | 31.34 | 117.3 | 32.13 | 120.4 | 32.69 |
| | | 443.0 | 85.4 | 18.41 | 92.5 | 21.83 | 100.7 | 25.42 | 109.5 | 28.59 | 112.7 | 29.33 | 117.3 | 30.05 | 120.4 | 30.60 |
| | | 553.8 | 85.4 | 17.86 | 92.5 | 21.34 | 100.7 | 24.88 | 109.5 | 28.04 | 112.7 | 28.78 | 117.3 | 29.51 | 120.4 | 29.82 |
| | | 664.5 | 85.4 | 17.60 | 92.5 | 21.10 | 100.7 | 24.61 | 109.5 | 27.78 | 112.7 | 28.50 | 117.3 | 29.24 | 120.4 | 29.42 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 177.2 | 82.8 | 23.01 | 89.7 | 26.86 | 97.7 | 31.23 | 106.3 | 35.17 | 109.3 | 36.00 | 113.8 | 36.95 | 116.8 | 37.47 |
| | | 221.5 | 82.8 | 22.57 | 89.7 | 26.40 | 97.7 | 30.74 | 106.3 | 34.57 | 109.3 | 35.43 | 113.8 | 36.35 | 116.8 | 36.89 |
| | | 443.0 | 82.8 | 20.79 | 89.7 | 24.64 | 97.7 | 28.73 | 106.3 | 32.26 | 109.3 | 33.18 | 113.8 | 33.96 | 116.8 | 34.57 |
| | | 553.8 | 82.8 | 20.19 | 89.7 | 24.09 | 97.7 | 28.12 | 106.3 | 31.66 | 109.3 | 32.50 | 113.8 | 33.36 | 116.8 | 33.73 |
| | | 664.5 | 82.8 | 19.87 | 89.7 | 23.81 | 97.7 | 27.81 | 106.3 | 31.34 | 109.3 | 32.18 | 113.8 | 33.04 | 116.8 | 33.30 |
| 80 | 10 | 177.2 | 80.2 | 5.52 | 87.1 | 6.36 | 94.9 | 7.47 | 103.0 | 8.48 | 106.1 | 8.57 | 110.1 | 8.91 | 113.3 | 8.94 |
| | | 221.5 | 80.2 | 5.40 | 87.1 | 6.27 | 94.9 | 7.33 | 103.0 | 8.34 | 106.1 | 8.45 | 110.1 | 8.74 | 113.3 | 8.80 |
| | | 443.0 | 80.2 | 4.92 | 87.1 | 5.93 | 94.9 | 6.79 | 103.0 | 7.74 | 106.1 | 7.91 | 110.1 | 8.08 | 113.3 | 8.20 |
| | | 553.8 | 80.2 | 4.80 | 87.1 | 5.75 | 94.9 | 6.68 | 103.0 | 7.50 | 106.1 | 7.68 | 110.1 | 7.99 | 113.3 | 8.11 |
| | | 664.5 | 80.2 | 4.75 | 87.1 | 5.66 | 94.9 | 6.62 | 103.0 | 7.39 | 106.1 | 7.56 | 110.1 | 7.93 | 113.3 | 8.05 |
| | 15 | 177.2 | 80.2 | 7.48 | 87.1 | 8.68 | 94.9 | 10.12 | 103.0 | 11.41 | 106.1 | 11.65 | 110.1 | 11.96 | 113.3 | 12.16 |
| | | 221.5 | 80.2 | 7.31 | 87.1 | 8.54 | 94.9 | 9.95 | 103.0 | 11.22 | 106.1 | 11.47 | 110.1 | 11.76 | 113.3 | 11.96 |
| | | 443.0 | 80.2 | 6.70 | 87.1 | 7.99 | 94.9 | 9.26 | 103.0 | 10.49 | 106.1 | 10.73 | 110.1 | 10.98 | 113.3 | 11.16 |
| | | 553.8 | 80.2 | 6.53 | 87.1 | 7.80 | 94.9 | 9.09 | 103.0 | 10.24 | 106.1 | 10.49 | 110.1 | 10.79 | 113.3 | 10.92 |
| | | 664.5 | 80.2 | 6.44 | 87.1 | 7.71 | 94.9 | 9.00 | 103.0 | 10.12 | 106.1 | 10.36 | 110.1 | 10.70 | 113.3 | 10.79 |
| | 20 | 177.2 | 80.2 | 9.20 | 87.1 | 10.73 | 94.9 | 12.45 | 103.0 | 14.00 | 106.1 | 14.38 | 110.1 | 14.69 | 113.3 | 15.01 |
| | | 221.5 | 80.2 | 9.03 | 87.1 | 10.55 | 94.9 | 12.25 | 103.0 | 13.78 | 106.1 | 14.15 | 110.1 | 14.46 | 113.3 | 14.75 |
| | | 443.0 | 80.2 | 8.29 | 87.1 | 9.81 | 94.9 | 11.47 | 103.0 | 12.94 | 106.1 | 13.23 | 110.1 | 13.54 | 113.3 | 13.78 |
| | | 553.8 | 80.2 | 8.05 | 87.1 | 9.63 | 94.9 | 11.22 | 103.0 | 12.68 | 106.1 | 13.00 | 110.1 | 13.29 | 113.3 | 13.43 |
| | | 664.5 | 80.2 | 7.93 | 87.1 | 9.55 | 94.9 | 11.10 | 103.0 | 12.57 | 106.1 | 12.86 | 110.1 | 13.17 | 113.3 | 13.23 |
| | 25 | 177.2 | 80.2 | 11.19 | 87.1 | 13.00 | 94.9 | 15.18 | 103.0 | 17.11 | 106.1 | 17.54 | 110.1 | 17.97 | 113.3 | 18.29 |
| | | 221.5 | 80.2 | 10.98 | 87.1 | 12.80 | 94.9 | 14.95 | 103.0 | 16.82 | 106.1 | 17.25 | 110.1 | 17.68 | 113.3 | 18.00 |
| | | 443.0 | 80.2 | 10.12 | 87.1 | 12.02 | 94.9 | 13.97 | 103.0 | 15.73 | 106.1 | 16.10 | 110.1 | 16.53 | 113.3 | 16.82 |
| | | 553.8 | 80.2 | 9.81 | 87.1 | 11.76 | 94.9 | 13.72 | 103.0 | 15.42 | 106.1 | 15.79 | 110.1 | 16.22 | 113.3 | 16.39 |
| | | 664.5 | 80.2 | 9.66 | 87.1 | 11.65 | 94.9 | 13.60 | 103.0 | 15.27 | 106.1 | 15.64 | 110.1 | 16.07 | 113.3 | 16.19 |
| | 30 | 177.2 | 80.2 | 13.81 | 87.1 | 16.05 | 94.9 | 18.72 | 103.0 | 21.08 | 106.1 | 21.57 | 110.1 | 22.06 | 113.3 | 22.51 |
| | | 221.5 | 80.2 | 13.54 | 87.1 | 15.79 | 94.9 | 18.41 | 103.0 | 20.73 | 106.1 | 21.22 | 110.1 | 21.71 | 113.3 | 22.14 |
| | | 443.0 | 80.2 | 12.45 | 87.1 | 14.75 | 94.9 | 17.20 | 103.0 | 19.33 | 106.1 | 19.81 | 110.1 | 20.30 | 113.3 | 20.67 |
| | | 553.8 | 80.2 | 12.08 | 87.1 | 14.46 | 94.9 | 16.82 | 103.0 | 18.95 | 106.1 | 19.44 | 110.1 | 19.93 | 113.3 | 20.13 |
| | | 664.5 | 80.2 | 11.90 | 87.1 | 14.29 | 94.9 | 16.65 | 103.0 | 18.78 | 106.1 | 19.27 | 110.1 | 19.76 | 113.3 | 19.84 |
| | 35 | 177.2 | 80.2 | 15.36 | 87.1 | 17.86 | 94.9 | 20.76 | 103.0 | 23.35 | 106.1 | 23.92 | 110.1 | 24.55 | 113.3 | 24.96 |
| | | 221.5 | 80.2 | 15.07 | 87.1 | 17.57 | 94.9 | 20.42 | 103.0 | 22.98 | 106.1 | 23.53 | 110.1 | 24.15 | 113.3 | 24.58 |
| | | 443.0 | 80.2 | 13.83 | 87.1 | 16.39 | 94.9 | 19.09 | 103.0 | 21.53 | 106.1 | 22.00 | 110.1 | 22.57 | 113.3 | 22.98 |
| | | 553.8 | 80.2 | 13.48 | 87.1 | 16.04 | 94.9 | 18.72 | 103.0 | 21.10 | 106.1 | 21.59 | 110.1 | 22.20 | 113.3 | 22.37 |
| | | 664.5 | 80.2 | 13.29 | 87.1 | 15.85 | 94.9 | 18.54 | 103.0 | 20.88 | 106.1 | 21.37 | 110.1 | 22.02 | 113.3 | 22.08 |
| | 40 | 177.2 | 80.2 | 18.15 | 87.1 | 21.14 | 94.9 | 24.61 | 103.0 | 27.70 | 106.1 | 28.32 | 110.1 | 29.07 | 113.3 | 29.56 |
| | | 221.5 | 80.2 | 17.80 | 87.1 | 20.79 | 94.9 | 24.21 | 103.0 | 27.26 | 106.1 | 27.87 | 110.1 | 28.59 | 113.3 | 29.08 |
| | | 443.0 | 80.2 | 16.39 | 87.1 | 19.38 | 94.9 | 22.63 | 103.0 | 25.48 | 106.1 | 26.11 | 110.1 | 26.77 | 113.3 | 27.26 |
| | | 553.8 | 80.2 | 15.91 | 87.1 | 19.03 | 94.9 | 22.14 | 103.0 | 24.99 | 106.1 | 25.62 | 110.1 | 26.22 | 113.3 | 26.52 |
| | | 664.5 | 80.2 | 15.67 | 87.1 | 18.84 | 94.9 | 21.89 | 103.0 | 24.76 | 106.1 | 25.36 | 110.1 | 25.94 | 113.3 | 26.17 |
| | 45 | 177.2 | 80.2 | 20.96 | 87.1 | 24.44 | 94.9 | 28.44 | 103.0 | 32.04 | 106.1 | 32.70 | 110.1 | 33.56 | 113.3 | 34.13 |
| | | 221.5 | 80.2 | 20.56 | 87.1 | 24.02 | 94.9 | 27.98 | 103.0 | 31.52 | 106.1 | 32.20 | 110.1 | 33.04 | 113.3 | 33.59 |
| | | 443.0 | 80.2 | 18.95 | 87.1 | 22.37 | 94.9 | 26.17 | 103.0 | 29.45 | 106.1 | 30.19 | 110.1 | 30.97 | 113.3 | 31.52 |
| | | 553.8 | 80.2 | 18.35 | 87.1 | 22.00 | 94.9 | 25.54 | 103.0 | 28.90 | 106.1 | 29.64 | 110.1 | 30.25 | 113.3 | 30.68 |
| | | 664.5 | 80.2 | 18.06 | 87.1 | 21.83 | 94.9 | 25.25 | 103.0 | 28.64 | 106.1 | 29.36 | 110.1 | 29.88 | 113.3 | 30.25 |
| 70 | 10 | 177.2 | 70.4 | 4.60 | 76.2 | 5.29 | 83.1 | 6.27 | 90.2 | 7.05 | 92.9 | 7.07 | 96.3 | 7.33 | 99.2 | 7.44 |
| | | 221.5 | 70.4 | 4.52 | 76.2 | 5.23 | 83.1 | 6.16 | 90.2 | 6.93 | 92.9 | 6.98 | 96.3 | 7.22 | 99.2 | 7.33 |
| | | 443.0 | 70.4 | 4.17 | 76.2 | 4.92 | 83.1 | 5.75 | 90.2 | 6.47 | 92.9 | 6.56 | 96.3 | 6.75 | 99.2 | 6.93 |
| | | 553.8 | 70.4 | 3.99 | 76.2 | 4.75 | 83.1 | 5.58 | 90.2 | 6.27 | 92.9 | 6.39 | 96.3 | 6.64 | 99.2 | 6.76 |
| | | 664.5 | 70.4 | 3.89 | 76.2 | 4.66 | 83.1 | 5.49 | 90.2 | 6.18 | 92.9 | 6.30 | 96.3 | 6.58 | 99.2 | 6.67 |
| | 15 | 177.2 | 70.4 | 6.21 | 76.2 | 7.19 | 83.1 | 8.43 | 90.2 | 9.49 | 92.9 | 9.66 | 96.3 | 9.92 | 99.2 | 10.09 |
| | | 221.5 | 70.4 | 6.10 | 76.2 | 7.07 | 83.1 | 8.29 | 90.2 | 9.32 | 92.9 | 9.52 | 96.3 | 9.75 | 99.2 | 9.95 |
| | | 443.0 | 70.4 | 5.61 | 76.2 | 6.64 | 83.1 | 7.74 | 90.2 | 8.72 | 92.9 | 8.91 | 96.3 | 9.15 | 99.2 | 9.32 |
| | | 553.8 | 70.4 | 5.43 | 76.2 | 6.47 | 83.1 | 7.56 | 90.2 | 8.54 | 92.9 | 8.72 | 96.3 | 8.97 | 99.2 | 9.09 |
| | | 664.5 | 70.4 | 5.34 | 76.2 | 6.38 | 83.1 | 7.47 | 90.2 | 8.45 | 92.9 | 8.63 | 96.3 | 8.88 | 99.2 | 8.97 |
| | 20 | 177.2 | 70.4 | 7.65 | 76.2 | 8.86 | 83.1 | 10.35 | 90.2 | 11.65 | 92.9 | 11.96 | 96.3 | 12.19 | 99.2 | 12.45 |
| | | 221.5 | 70.4 | 7.50 | 76.2 | 8.72 | 83.1 | 10.18 | 90.2 | 11.47 | 92.9 | 11.76 | 96.3 | 12.02 | 99.2 | 12.25 |
| | | 443.0 | 70.4 | 6.90 | 76.2 | 8.17 | 83.1 | 9.52 | 90.2 | 10.73 | 92.9 | 10.98 | 96.3 | 11.28 | 99.2 | 11.47 |
| | | 553.8 | 70.4 | 6.70 | 76.2 | 7.99 | 83.1 | 9.32 | 90.2 | 10.55 | 92.9 | 10.79 | 96.3 | 11.04 | 99.2 | 11.16 |
| | | 664.5 | 70.4 | 6.61 | 76.2 | 7.90 | 83.1 | 9.23 | 90.2 | 10.46 | 92.9 | 10.70 | 96.3 | 10.92 | 99.2 | 11.01 |
| | 25 | 177.2 | 70.4 | 9.32 | 76.2 | 10.84 | 83.1 | 12.65 | 90.2 | 14.26 | 92.9 | 14.55 | 96.3 | 14.95 | 99.2 | 15.18 |
| | | 221.5 | 70.4 | 9.15 | 76.2 | 10.67 | 83.1 | 12.45 | 90.2 | 14.03 | 92.9 | 14.32 | 96.3 | 14.69 | 99.2 | 14.95 |
| | | 443.0 | 70.4 | 8.42 | 76.2 | 10.01 | 83.1 | 11.65 | 90.2 | 13.11 | 92.9 | 13.43 | 96.3 | 13.72 | 99.2 | 13.97 |
| | | 553.8 | 70.4 | 8.17 | 76.2 | 9.75 | 83.1 | 11.41 | 90.2 | 12.80 | 92.9 | 13.17 | 96.3 | 13.48 | 99.2 | 13.60 |
| | | 664.5 | 70.4 | 8.05 | 76.2 | 9.63 | 83.1 | 11.28 | 90.2 | 12.65 | 92.9 | 13.05 | 96.3 | 13.35 | 99.2 | 13.43 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Cooling Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 177.2 | 70.4 | 11.51 | 76.2 | 13.32 | 83.1 | 15.56 | 90.2 | 17.48 | 92.9 | 17.92 | 96.3 | 18.35 | 99.2 | 18.64 |
| | | 221.5 | 70.4 | 11.28 | 76.2 | 13.11 | 83.1 | 15.30 | 90.2 | 17.20 | 92.9 | 17.63 | 96.3 | 18.06 | 99.2 | 18.35 |
| | | 443.0 | 70.4 | 10.36 | 76.2 | 12.25 | 83.1 | 14.26 | 90.2 | 16.10 | 92.9 | 16.47 | 96.3 | 16.88 | 99.2 | 17.20 |
| | | 553.8 | 70.4 | 10.06 | 76.2 | 12.02 | 83.1 | 14.03 | 90.2 | 15.79 | 92.9 | 16.16 | 96.3 | 16.59 | 99.2 | 16.77 |
| | | 664.5 | 70.4 | 9.92 | 76.2 | 11.90 | 83.1 | 13.89 | 90.2 | 15.64 | 92.9 | 16.01 | 96.3 | 16.42 | 99.2 | 16.56 |
| | 35 | 177.2 | 70.4 | 12.74 | 76.2 | 14.81 | 83.1 | 17.31 | 90.2 | 19.47 | 92.9 | 19.90 | 96.3 | 20.39 | 99.2 | 20.76 |
| | | 221.5 | 70.4 | 12.51 | 76.2 | 14.58 | 83.1 | 17.02 | 90.2 | 19.15 | 92.9 | 19.58 | 96.3 | 20.07 | 99.2 | 20.42 |
| | | 443.0 | 70.4 | 11.53 | 76.2 | 13.66 | 83.1 | 15.85 | 90.2 | 17.86 | 92.9 | 18.29 | 96.3 | 18.78 | 99.2 | 19.15 |
| | | 553.8 | 70.4 | 11.16 | 76.2 | 13.35 | 83.1 | 15.55 | 90.2 | 17.57 | 92.9 | 18.00 | 96.3 | 18.41 | 99.2 | 18.60 |
| | | 664.5 | 70.4 | 10.98 | 76.2 | 13.20 | 83.1 | 15.39 | 90.2 | 17.40 | 92.9 | 17.83 | 96.3 | 18.23 | 99.2 | 18.32 |
| | 40 | 177.2 | 70.4 | 15.13 | 76.2 | 17.54 | 83.1 | 20.47 | 90.2 | 23.00 | 92.9 | 23.55 | 96.3 | 24.16 | 99.2 | 24.61 |
| | | 221.5 | 70.4 | 14.81 | 76.2 | 17.25 | 83.1 | 20.13 | 90.2 | 22.63 | 92.9 | 23.18 | 96.3 | 23.78 | 99.2 | 24.21 |
| | | 443.0 | 70.4 | 13.60 | 76.2 | 16.16 | 83.1 | 18.78 | 90.2 | 21.16 | 92.9 | 21.71 | 96.3 | 22.26 | 99.2 | 22.63 |
| | | 553.8 | 70.4 | 13.23 | 76.2 | 15.79 | 83.1 | 18.41 | 90.2 | 20.79 | 92.9 | 21.28 | 96.3 | 21.83 | 99.2 | 22.08 |
| | | 664.5 | 70.4 | 13.05 | 76.2 | 15.61 | 83.1 | 18.23 | 90.2 | 20.62 | 92.9 | 21.08 | 96.3 | 21.62 | 99.2 | 21.80 |
| | 45 | 177.2 | 70.4 | 17.51 | 76.2 | 20.27 | 83.1 | 23.61 | 90.2 | 26.51 | 92.9 | 27.18 | 96.3 | 27.95 | 99.2 | 28.47 |
| | | 221.5 | 70.4 | 17.14 | 76.2 | 19.93 | 83.1 | 23.23 | 90.2 | 26.11 | 92.9 | 26.77 | 96.3 | 27.49 | 99.2 | 27.98 |
| | | 443.0 | 70.4 | 15.67 | 76.2 | 18.66 | 83.1 | 21.71 | 90.2 | 24.45 | 92.9 | 25.13 | 96.3 | 25.74 | 99.2 | 26.11 |
| | | 553.8 | 70.4 | 15.30 | 76.2 | 18.23 | 83.1 | 21.28 | 90.2 | 24.02 | 92.9 | 24.58 | 96.3 | 25.25 | 99.2 | 25.54 |
| | | 664.5 | 70.4 | 15.13 | 76.2 | 18.03 | 83.1 | 21.08 | 90.2 | 23.81 | 92.9 | 24.30 | 96.3 | 24.99 | 99.2 | 25.28 |
| 60 | 10 | 177.2 | 60.3 | 3.74 | 65.3 | 4.31 | 71.0 | 4.97 | 77.3 | 5.61 | 79.6 | 5.75 | 82.6 | 5.93 | 85.1 | 5.95 |
| | | 221.5 | 60.3 | 3.65 | 65.3 | 4.23 | 71.0 | 4.86 | 77.3 | 5.52 | 79.6 | 5.64 | 82.6 | 5.81 | 85.1 | 5.87 |
| | | 443.0 | 60.3 | 3.28 | 65.3 | 3.94 | 71.0 | 4.51 | 77.3 | 5.17 | 79.6 | 5.15 | 82.6 | 5.34 | 85.1 | 5.52 |
| | | 553.8 | 60.3 | 3.16 | 65.3 | 3.82 | 71.0 | 4.46 | 77.3 | 5.04 | 79.6 | 5.09 | 82.6 | 5.21 | 85.1 | 5.27 |
| | | 664.5 | 60.3 | 3.10 | 65.3 | 3.74 | 71.0 | 4.43 | 77.3 | 4.98 | 79.6 | 5.06 | 82.6 | 5.15 | 85.1 | 5.15 |
| | 15 | 177.2 | 60.3 | 4.98 | 65.3 | 5.75 | 71.0 | 6.70 | 77.3 | 7.56 | 79.6 | 7.76 | 82.6 | 7.94 | 85.1 | 8.05 |
| | | 221.5 | 60.3 | 4.89 | 65.3 | 5.67 | 71.0 | 6.59 | 77.3 | 7.45 | 79.6 | 7.62 | 82.6 | 7.80 | 85.1 | 7.93 |
| | | 443.0 | 60.3 | 4.46 | 65.3 | 5.30 | 71.0 | 6.16 | 77.3 | 6.96 | 79.6 | 7.07 | 82.6 | 7.25 | 85.1 | 7.45 |
| | | 553.8 | 60.3 | 4.34 | 65.3 | 5.18 | 71.0 | 6.04 | 77.3 | 6.82 | 79.6 | 6.96 | 82.6 | 7.13 | 85.1 | 7.19 |
| | | 664.5 | 60.3 | 4.26 | 65.3 | 5.12 | 71.0 | 5.98 | 77.3 | 6.76 | 79.6 | 6.90 | 82.6 | 7.07 | 85.1 | 7.07 |
| | 20 | 177.2 | 60.3 | 6.10 | 65.3 | 7.05 | 71.0 | 8.23 | 77.3 | 9.29 | 79.6 | 9.55 | 82.6 | 9.72 | 85.1 | 9.92 |
| | | 221.5 | 60.3 | 5.98 | 65.3 | 6.96 | 71.0 | 8.11 | 77.3 | 9.15 | 79.6 | 9.40 | 82.6 | 9.58 | 85.1 | 9.75 |
| | | 443.0 | 60.3 | 5.49 | 65.3 | 6.53 | 71.0 | 7.62 | 77.3 | 8.54 | 79.6 | 8.77 | 82.6 | 8.97 | 85.1 | 9.15 |
| | | 553.8 | 60.3 | 5.37 | 65.3 | 6.41 | 71.0 | 7.45 | 77.3 | 8.42 | 79.6 | 8.60 | 82.6 | 8.83 | 85.1 | 8.91 |
| | | 664.5 | 60.3 | 5.30 | 65.3 | 6.35 | 71.0 | 7.36 | 77.3 | 8.36 | 79.6 | 8.51 | 82.6 | 8.77 | 85.1 | 8.77 |
| | 25 | 177.2 | 60.3 | 7.48 | 65.3 | 8.62 | 71.0 | 10.03 | 77.3 | 11.33 | 79.6 | 11.59 | 82.6 | 11.90 | 85.1 | 12.08 |
| | | 221.5 | 60.3 | 7.31 | 65.3 | 8.48 | 71.0 | 9.89 | 77.3 | 11.16 | 79.6 | 11.41 | 82.6 | 11.71 | 85.1 | 11.88 |
| | | 443.0 | 60.3 | 6.70 | 65.3 | 7.93 | 71.0 | 9.26 | 77.3 | 10.44 | 79.6 | 10.67 | 82.6 | 10.98 | 85.1 | 11.16 |
| | | 553.8 | 60.3 | 6.53 | 65.3 | 7.80 | 71.0 | 9.09 | 77.3 | 10.24 | 79.6 | 10.49 | 82.6 | 10.73 | 85.1 | 10.85 |
| | | 664.5 | 60.3 | 6.44 | 65.3 | 7.74 | 71.0 | 9.00 | 77.3 | 10.15 | 79.6 | 10.41 | 82.6 | 10.61 | 85.1 | 10.70 |
| | 30 | 177.2 | 60.3 | 9.15 | 65.3 | 10.67 | 71.0 | 12.39 | 77.3 | 13.95 | 79.6 | 14.26 | 82.6 | 14.61 | 85.1 | 14.87 |
| | | 221.5 | 60.3 | 8.97 | 65.3 | 10.49 | 71.0 | 12.19 | 77.3 | 13.72 | 79.6 | 14.03 | 82.6 | 14.38 | 85.1 | 14.64 |
| | | 443.0 | 60.3 | 8.23 | 65.3 | 9.75 | 71.0 | 11.41 | 77.3 | 12.80 | 79.6 | 13.11 | 82.6 | 13.48 | 85.1 | 13.72 |
| | | 553.8 | 60.3 | 8.05 | 65.3 | 9.58 | 71.0 | 11.16 | 77.3 | 12.57 | 79.6 | 12.86 | 82.6 | 13.23 | 85.1 | 13.35 |
| | | 664.5 | 60.3 | 7.96 | 65.3 | 9.49 | 71.0 | 11.04 | 77.3 | 12.45 | 79.6 | 12.74 | 82.6 | 13.11 | 85.1 | 13.17 |
| | 35 | 177.2 | 60.3 | 10.15 | 65.3 | 11.85 | 71.0 | 13.75 | 77.3 | 15.50 | 79.6 | 15.87 | 82.6 | 16.22 | 85.1 | 16.54 |
| | | 221.5 | 60.3 | 9.95 | 65.3 | 11.65 | 71.0 | 13.54 | 77.3 | 15.24 | 79.6 | 15.61 | 82.6 | 15.98 | 85.1 | 16.28 |
| | | 443.0 | 60.3 | 9.15 | 65.3 | 10.85 | 71.0 | 12.68 | 77.3 | 14.26 | 79.6 | 14.58 | 82.6 | 15.01 | 85.1 | 15.24 |
| | | 553.8 | 60.3 | 8.91 | 65.3 | 10.61 | 71.0 | 12.37 | 77.3 | 13.97 | 79.6 | 14.32 | 82.6 | 14.69 | 85.1 | 14.81 |
| | | 664.5 | 60.3 | 8.77 | 65.3 | 10.49 | 71.0 | 12.22 | 77.3 | 13.81 | 79.6 | 14.21 | 82.6 | 14.55 | 85.1 | 14.61 |
| | 40 | 177.2 | 60.3 | 12.08 | 65.3 | 14.01 | 71.0 | 16.30 | 77.3 | 18.35 | 79.6 | 18.78 | 82.6 | 19.27 | 85.1 | 19.58 |
| | | 221.5 | 60.3 | 11.82 | 65.3 | 13.78 | 71.0 | 16.04 | 77.3 | 18.06 | 79.6 | 18.47 | 82.6 | 18.95 | 85.1 | 19.27 |
| | | 443.0 | 60.3 | 10.85 | 65.3 | 12.86 | 71.0 | 15.01 | 77.3 | 16.88 | 79.6 | 17.25 | 82.6 | 17.74 | 85.1 | 18.06 |
| | | 553.8 | 60.3 | 10.55 | 65.3 | 12.62 | 71.0 | 14.69 | 77.3 | 16.53 | 79.6 | 16.94 | 82.6 | 17.37 | 85.1 | 17.57 |
| | | 664.5 | 60.3 | 10.41 | 65.3 | 12.51 | 71.0 | 14.55 | 77.3 | 16.34 | 79.6 | 16.80 | 82.6 | 17.20 | 85.1 | 17.31 |
| | 45 | 177.2 | 60.3 | 14.01 | 65.3 | 16.19 | 71.0 | 18.84 | 77.3 | 21.19 | 79.6 | 21.69 | 82.6 | 22.32 | 85.1 | 22.61 |
| | | 221.5 | 60.3 | 13.72 | 65.3 | 15.91 | 71.0 | 18.54 | 77.3 | 20.85 | 79.6 | 21.34 | 82.6 | 21.94 | 85.1 | 22.26 |
| | | 443.0 | 60.3 | 12.57 | 65.3 | 14.87 | 71.0 | 17.31 | 77.3 | 19.52 | 79.6 | 19.93 | 82.6 | 20.48 | 85.1 | 20.85 |
| | | 553.8 | 60.3 | 12.19 | 65.3 | 14.64 | 71.0 | 17.02 | 77.3 | 19.09 | 79.6 | 19.58 | 82.6 | 20.07 | 85.1 | 20.30 |
| | | 664.5 | 60.3 | 12.02 | 65.3 | 14.52 | 71.0 | 16.85 | 77.3 | 18.87 | 79.6 | 19.38 | 82.6 | 19.84 | 85.1 | 20.04 |
| 50 | 10 | 177.2 | 50.3 | 2.67 | 54.4 | 3.16 | 59.2 | 3.80 | 64.4 | 4.17 | 66.4 | 4.22 | 69.0 | 4.37 | 70.8 | 4.48 |
| | | 221.5 | 50.3 | 2.64 | 54.4 | 3.11 | 59.2 | 3.71 | 64.4 | 4.11 | 66.4 | 4.17 | 69.0 | 4.28 | 70.8 | 4.40 |
| | | 443.0 | 50.3 | 2.53 | 54.4 | 2.93 | 59.2 | 3.34 | 64.4 | 3.82 | 66.4 | 3.94 | 69.0 | 3.99 | 70.8 | 4.11 |
| | | 553.8 | 50.3 | 2.41 | 54.4 | 2.82 | 59.2 | 3.34 | 64.4 | 3.68 | 66.4 | 3.82 | 69.0 | 3.86 | 70.8 | 3.94 |
| | | 664.5 | 50.3 | 2.35 | 54.4 | 2.76 | 59.2 | 3.34 | 64.4 | 3.62 | 66.4 | 3.74 | 69.0 | 3.80 | 70.8 | 3.83 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 177.2 | 50.3 | 3.65 | 54.4 | 4.26 | 59.2 | 5.03 | 64.4 | 5.64 | 66.4 | 5.75 | 69.0 | 5.89 | 70.8 | 6.01 |
| | | 221.5 | 50.3 | 3.60 | 54.4 | 4.20 | 59.2 | 4.94 | 64.4 | 5.55 | 66.4 | 5.67 | 69.0 | 5.78 | 70.8 | 5.92 |
| | | 443.0 | 50.3 | 3.36 | 54.4 | 3.97 | 59.2 | 4.57 | 64.4 | 5.18 | 66.4 | 5.30 | 69.0 | 5.43 | 70.8 | 5.55 |
| | | 553.8 | 50.3 | 3.22 | 54.4 | 3.85 | 59.2 | 4.51 | 64.4 | 5.06 | 66.4 | 5.18 | 69.0 | 5.30 | 70.8 | 5.37 |
| | | 664.5 | 50.3 | 3.17 | 54.4 | 3.77 | 59.2 | 4.48 | 64.4 | 5.00 | 66.4 | 5.12 | 69.0 | 5.24 | 70.8 | 5.27 |
| | 20 | 177.2 | 50.3 | 4.54 | 54.4 | 5.26 | 59.2 | 6.13 | 64.4 | 6.93 | 66.4 | 7.13 | 69.0 | 7.25 | 70.8 | 7.36 |
| | | 221.5 | 50.3 | 4.46 | 54.4 | 5.18 | 59.2 | 6.04 | 64.4 | 6.82 | 66.4 | 7.02 | 69.0 | 7.13 | 70.8 | 7.25 |
| | | 443.0 | 50.3 | 4.08 | 54.4 | 4.89 | 59.2 | 5.67 | 64.4 | 6.41 | 66.4 | 6.53 | 69.0 | 6.70 | 70.8 | 6.82 |
| | | 553.8 | 50.3 | 3.97 | 54.4 | 4.75 | 59.2 | 5.55 | 64.4 | 6.27 | 66.4 | 6.41 | 69.0 | 6.59 | 70.8 | 6.64 |
| | | 664.5 | 50.3 | 3.91 | 54.4 | 4.69 | 59.2 | 5.49 | 64.4 | 6.21 | 66.4 | 6.35 | 69.0 | 6.53 | 70.8 | 6.56 |
| | 25 | 177.2 | 50.3 | 5.53 | 54.4 | 6.44 | 59.2 | 7.50 | 64.4 | 8.42 | 66.4 | 8.68 | 69.0 | 8.86 | 70.8 | 9.06 |
| | | 221.5 | 50.3 | 5.43 | 54.4 | 6.35 | 59.2 | 7.39 | 64.4 | 8.29 | 66.4 | 8.54 | 69.0 | 8.72 | 70.8 | 8.91 |
| | | 443.0 | 50.3 | 5.00 | 54.4 | 5.92 | 59.2 | 6.90 | 64.4 | 7.80 | 66.4 | 7.99 | 69.0 | 8.17 | 70.8 | 8.29 |
| | | 553.8 | 50.3 | 4.89 | 54.4 | 5.78 | 59.2 | 6.76 | 64.4 | 7.62 | 66.4 | 7.80 | 69.0 | 7.99 | 70.8 | 8.11 |
| | | 664.5 | 50.3 | 4.83 | 54.4 | 5.73 | 59.2 | 6.70 | 64.4 | 7.53 | 66.4 | 7.71 | 69.0 | 7.90 | 70.8 | 8.02 |
| | 30 | 177.2 | 50.3 | 6.84 | 54.4 | 7.93 | 59.2 | 9.23 | 64.4 | 10.41 | 66.4 | 10.67 | 69.0 | 10.90 | 70.8 | 11.08 |
| | | 221.5 | 50.3 | 6.70 | 54.4 | 7.80 | 59.2 | 9.09 | 64.4 | 10.24 | 66.4 | 10.49 | 69.0 | 10.73 | 70.8 | 10.92 |
| | | 443.0 | 50.3 | 6.16 | 54.4 | 7.31 | 59.2 | 8.48 | 64.4 | 9.58 | 66.4 | 9.81 | 69.0 | 10.06 | 70.8 | 10.24 |
| | | 553.8 | 50.3 | 5.98 | 54.4 | 7.13 | 59.2 | 8.29 | 64.4 | 9.40 | 66.4 | 9.63 | 69.0 | 9.89 | 70.8 | 9.95 |
| | | 664.5 | 50.3 | 5.89 | 54.4 | 7.04 | 59.2 | 8.20 | 64.4 | 9.29 | 66.4 | 9.55 | 69.0 | 9.78 | 70.8 | 9.78 |
| | 35 | 177.2 | 50.3 | 7.59 | 54.4 | 8.80 | 59.2 | 10.29 | 64.4 | 11.53 | 66.4 | 11.85 | 69.0 | 12.16 | 70.8 | 12.34 |
| | | 221.5 | 50.3 | 7.45 | 54.4 | 8.66 | 59.2 | 10.12 | 64.4 | 11.33 | 66.4 | 11.65 | 69.0 | 11.96 | 70.8 | 12.14 |
| | | 443.0 | 50.3 | 6.82 | 54.4 | 8.11 | 59.2 | 9.46 | 64.4 | 10.61 | 66.4 | 10.85 | 69.0 | 11.16 | 70.8 | 11.33 |
| | | 553.8 | 50.3 | 6.64 | 54.4 | 7.93 | 59.2 | 9.26 | 64.4 | 10.44 | 66.4 | 10.67 | 69.0 | 10.98 | 70.8 | 11.04 |
| | | 664.5 | 50.3 | 6.56 | 54.4 | 7.83 | 59.2 | 9.17 | 64.4 | 10.33 | 66.4 | 10.58 | 69.0 | 10.89 | 70.8 | 10.89 |
| | 40 | 177.2 | 50.3 | 8.95 | 54.4 | 10.41 | 59.2 | 12.16 | 64.4 | 13.71 | 66.4 | 14.01 | 69.0 | 14.38 | 70.8 | 14.61 |
| | | 221.5 | 50.3 | 8.77 | 54.4 | 10.24 | 59.2 | 11.96 | 64.4 | 13.48 | 66.4 | 13.78 | 69.0 | 14.15 | 70.8 | 14.38 |
| | | 443.0 | 50.3 | 8.11 | 54.4 | 9.58 | 59.2 | 11.16 | 64.4 | 12.57 | 66.4 | 12.86 | 69.0 | 13.23 | 70.8 | 13.48 |
| | | 553.8 | 50.3 | 7.88 | 54.4 | 9.40 | 59.2 | 10.98 | 64.4 | 12.31 | 66.4 | 12.62 | 69.0 | 13.00 | 70.8 | 13.11 |
| | | 664.5 | 50.3 | 7.74 | 54.4 | 9.29 | 59.2 | 10.89 | 64.4 | 12.19 | 66.4 | 12.51 | 69.0 | 12.86 | 70.8 | 12.94 |
| | 45 | 177.2 | 50.3 | 10.30 | 54.4 | 12.02 | 59.2 | 14.01 | 64.4 | 15.88 | 66.4 | 16.19 | 69.0 | 16.60 | 70.8 | 16.91 |
| | | 221.5 | 50.3 | 10.12 | 54.4 | 11.82 | 59.2 | 13.78 | 64.4 | 15.61 | 66.4 | 15.91 | 69.0 | 16.34 | 70.8 | 16.65 |
| | | 443.0 | 50.3 | 9.40 | 54.4 | 11.04 | 59.2 | 12.86 | 64.4 | 14.52 | 66.4 | 14.87 | 69.0 | 15.30 | 70.8 | 15.61 |
| | | 553.8 | 50.3 | 9.09 | 54.4 | 10.85 | 59.2 | 12.68 | 64.4 | 14.21 | 66.4 | 14.58 | 69.0 | 15.01 | 70.8 | 15.18 |
| | | 664.5 | 50.3 | 8.94 | 54.4 | 10.76 | 59.2 | 12.59 | 64.4 | 14.06 | 66.4 | 14.43 | 69.0 | 14.84 | 70.8 | 14.98 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN480BAS4

**Cooling Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | 10 | 184.8 | 124.8 | 9.39 | 135.3 | 10.98 | 147.6 | 12.81 | 160.2 | 14.43 | 164.7 | 14.85 | 171.3 | 15.12 | 176.1 | 15.24 |
| | | 231.0 | 124.8 | 9.21 | 135.3 | 10.83 | 147.6 | 12.60 | 160.2 | 14.19 | 164.7 | 14.58 | 171.3 | 14.88 | 176.1 | 15.06 |
| | | 462.0 | 124.8 | 8.55 | 135.3 | 10.14 | 147.6 | 11.82 | 160.2 | 13.29 | 164.7 | 13.53 | 171.3 | 13.95 | 176.1 | 14.28 |
| | | 577.5 | 124.8 | 8.31 | 135.3 | 9.90 | 147.6 | 11.55 | 160.2 | 12.96 | 164.7 | 13.35 | 171.3 | 13.65 | 176.1 | 13.89 |
| | | 693.0 | 124.8 | 8.19 | 135.3 | 9.78 | 147.6 | 11.43 | 160.2 | 12.81 | 164.7 | 13.26 | 171.3 | 13.50 | 176.1 | 13.71 |
| | 15 | 184.8 | 122.7 | 12.39 | 133.2 | 14.40 | 144.9 | 16.80 | 157.5 | 18.93 | 162.3 | 19.41 | 168.6 | 19.83 | 173.1 | 20.13 |
| | | 231.0 | 122.7 | 12.15 | 133.2 | 14.19 | 144.9 | 16.53 | 157.5 | 18.63 | 162.3 | 19.08 | 168.6 | 19.53 | 173.1 | 19.86 |
| | | 462.0 | 122.7 | 11.19 | 133.2 | 13.29 | 144.9 | 15.45 | 157.5 | 17.43 | 162.3 | 17.82 | 168.6 | 18.33 | 173.1 | 18.69 |
| | | 577.5 | 122.7 | 10.89 | 133.2 | 12.99 | 144.9 | 15.15 | 157.5 | 17.04 | 162.3 | 17.49 | 168.6 | 17.94 | 173.1 | 18.27 |
| | | 693.0 | 122.7 | 10.71 | 133.2 | 12.81 | 144.9 | 14.97 | 157.5 | 16.86 | 162.3 | 17.34 | 168.6 | 17.76 | 173.1 | 18.03 |
| | 20 | 184.8 | 121.2 | 15.06 | 131.1 | 17.46 | 142.8 | 20.37 | 155.4 | 22.95 | 159.9 | 23.46 | 166.2 | 24.03 | 170.7 | 24.48 |
| | | 231.0 | 121.2 | 14.76 | 131.1 | 17.19 | 142.8 | 20.04 | 155.4 | 22.59 | 159.9 | 23.10 | 166.2 | 23.67 | 170.7 | 24.12 |
| | | 462.0 | 121.2 | 13.56 | 131.1 | 16.08 | 142.8 | 18.69 | 155.4 | 21.12 | 159.9 | 21.63 | 166.2 | 22.20 | 170.7 | 22.65 |
| | | 577.5 | 121.2 | 13.17 | 131.1 | 15.72 | 142.8 | 18.33 | 155.4 | 20.67 | 159.9 | 21.18 | 166.2 | 21.75 | 170.7 | 22.14 |
| | | 693.0 | 121.2 | 12.99 | 131.1 | 15.51 | 142.8 | 18.12 | 155.4 | 20.46 | 159.9 | 20.97 | 166.2 | 21.54 | 170.7 | 21.87 |
| | 25 | 184.8 | 121.2 | 18.57 | 131.1 | 21.51 | 142.8 | 25.08 | 155.4 | 28.26 | 159.9 | 28.95 | 166.2 | 29.67 | 170.7 | 30.15 |
| | | 231.0 | 121.2 | 18.18 | 131.1 | 21.18 | 142.8 | 24.69 | 155.4 | 27.81 | 159.9 | 28.50 | 166.2 | 29.19 | 170.7 | 29.70 |
| | | 462.0 | 121.2 | 16.74 | 131.1 | 19.86 | 142.8 | 23.10 | 155.4 | 26.01 | 159.9 | 26.64 | 166.2 | 27.36 | 170.7 | 27.93 |
| | | 577.5 | 121.2 | 16.29 | 131.1 | 19.41 | 142.8 | 22.65 | 155.4 | 25.50 | 159.9 | 26.16 | 166.2 | 26.85 | 170.7 | 27.30 |
| | | 693.0 | 121.2 | 16.05 | 131.1 | 19.17 | 142.8 | 22.41 | 155.4 | 25.26 | 159.9 | 25.89 | 166.2 | 26.58 | 170.7 | 26.97 |
| | 30 | 184.8 | 121.2 | 22.26 | 131.1 | 25.86 | 142.8 | 30.12 | 155.4 | 33.93 | 159.9 | 34.71 | 166.2 | 35.61 | 170.7 | 36.15 |
| | | 231.0 | 121.2 | 21.81 | 131.1 | 25.44 | 142.8 | 29.64 | 155.4 | 33.39 | 159.9 | 34.17 | 166.2 | 35.04 | 170.7 | 35.61 |
| | | 462.0 | 121.2 | 20.04 | 131.1 | 23.79 | 142.8 | 27.75 | 155.4 | 31.23 | 159.9 | 32.01 | 166.2 | 32.82 | 170.7 | 33.51 |
| | | 577.5 | 121.2 | 19.53 | 131.1 | 23.28 | 142.8 | 27.15 | 155.4 | 30.60 | 159.9 | 31.44 | 166.2 | 32.19 | 170.7 | 32.76 |
| | | 693.0 | 121.2 | 19.29 | 131.1 | 23.04 | 142.8 | 26.88 | 155.4 | 30.27 | 159.9 | 31.14 | 166.2 | 31.86 | 170.7 | 32.37 |
| | 35 | 184.8 | 108.9 | 22.53 | 117.9 | 26.19 | 128.7 | 30.45 | 139.8 | 34.35 | 144.0 | 35.10 | 149.4 | 36.00 | 153.6 | 36.63 |
| | | 231.0 | 108.9 | 22.08 | 117.9 | 25.77 | 128.7 | 29.97 | 139.8 | 33.78 | 144.0 | 34.53 | 149.4 | 35.43 | 153.6 | 36.06 |
| | | 462.0 | 108.9 | 20.28 | 117.9 | 24.06 | 128.7 | 28.05 | 139.8 | 31.56 | 144.0 | 32.37 | 149.4 | 33.21 | 153.6 | 33.84 |
| | | 577.5 | 108.9 | 19.71 | 117.9 | 23.55 | 128.7 | 27.48 | 139.8 | 30.93 | 144.0 | 31.74 | 149.4 | 32.58 | 153.6 | 33.15 |
| | | 693.0 | 108.9 | 19.44 | 117.9 | 23.28 | 128.7 | 27.21 | 139.8 | 30.60 | 144.0 | 31.44 | 149.4 | 32.25 | 153.6 | 32.79 |
| | 40 | 184.8 | 96.9 | 23.76 | 105.0 | 27.60 | 114.3 | 32.13 | 124.2 | 36.21 | 127.8 | 37.05 | 132.9 | 37.92 | 136.5 | 38.61 |
| | | 231.0 | 96.9 | 23.28 | 105.0 | 27.15 | 114.3 | 31.62 | 124.2 | 35.61 | 127.8 | 36.45 | 132.9 | 37.35 | 136.5 | 38.04 |
| | | 462.0 | 96.9 | 21.36 | 105.0 | 25.38 | 114.3 | 29.58 | 124.2 | 33.27 | 127.8 | 34.11 | 132.9 | 35.04 | 136.5 | 35.76 |
| | | 577.5 | 96.9 | 20.79 | 105.0 | 24.81 | 114.3 | 28.95 | 124.2 | 32.64 | 127.8 | 33.45 | 132.9 | 34.35 | 136.5 | 34.92 |
| | | 693.0 | 96.9 | 20.52 | 105.0 | 24.51 | 114.3 | 28.62 | 124.2 | 32.31 | 127.8 | 33.15 | 132.9 | 33.99 | 136.5 | 34.50 |
| | 45 | 184.8 | 84.6 | 25.02 | 91.8 | 29.04 | 99.9 | 33.81 | 108.6 | 38.10 | 111.9 | 39.00 | 116.4 | 39.84 | 119.7 | 40.62 |
| | | 231.0 | 84.6 | 24.48 | 91.8 | 28.56 | 99.9 | 33.27 | 108.6 | 37.47 | 111.9 | 38.37 | 116.4 | 39.24 | 119.7 | 40.02 |
| | | 462.0 | 84.6 | 22.47 | 91.8 | 26.73 | 99.9 | 31.11 | 108.6 | 34.98 | 111.9 | 35.82 | 116.4 | 36.90 | 119.7 | 37.65 |
| | | 577.5 | 84.6 | 21.87 | 91.8 | 26.07 | 99.9 | 30.42 | 108.6 | 34.35 | 111.9 | 35.19 | 116.4 | 36.12 | 119.7 | 36.72 |
| | | 693.0 | 84.6 | 21.60 | 91.8 | 25.77 | 99.9 | 30.06 | 108.6 | 34.02 | 111.9 | 34.86 | 116.4 | 35.76 | 119.7 | 36.24 |
| 120 | 10 | 184.8 | 118.2 | 8.97 | 128.1 | 10.35 | 139.2 | 12.18 | 151.5 | 13.65 | 156.3 | 14.07 | 162.3 | 14.37 | 166.8 | 14.61 |
| | | 231.0 | 118.2 | 8.79 | 128.1 | 10.20 | 139.2 | 11.97 | 151.5 | 13.44 | 156.3 | 13.83 | 162.3 | 14.13 | 166.8 | 14.37 |
| | | 462.0 | 118.2 | 8.04 | 128.1 | 9.51 | 139.2 | 11.10 | 151.5 | 12.60 | 156.3 | 12.84 | 162.3 | 13.20 | 166.8 | 13.38 |
| | | 577.5 | 118.2 | 7.92 | 128.1 | 9.33 | 139.2 | 11.01 | 151.5 | 12.33 | 156.3 | 12.57 | 162.3 | 12.96 | 166.8 | 13.14 |
| | | 693.0 | 118.2 | 7.86 | 128.1 | 9.24 | 139.2 | 10.95 | 151.5 | 12.21 | 156.3 | 12.45 | 162.3 | 12.84 | 166.8 | 13.02 |
| | 15 | 184.8 | 117.0 | 11.88 | 126.6 | 13.77 | 137.7 | 16.11 | 150.0 | 18.09 | 154.5 | 18.57 | 160.2 | 19.02 | 164.7 | 19.32 |
| | | 231.0 | 117.0 | 11.64 | 126.6 | 13.56 | 137.7 | 15.84 | 150.0 | 17.82 | 154.5 | 18.27 | 160.2 | 18.69 | 164.7 | 19.02 |
| | | 462.0 | 117.0 | 10.68 | 126.6 | 12.66 | 137.7 | 14.76 | 150.0 | 16.68 | 154.5 | 17.04 | 160.2 | 17.49 | 164.7 | 17.82 |
| | | 577.5 | 117.0 | 10.44 | 126.6 | 12.39 | 137.7 | 14.49 | 150.0 | 16.35 | 154.5 | 16.74 | 160.2 | 17.19 | 164.7 | 17.43 |
| | | 693.0 | 117.0 | 10.32 | 126.6 | 12.27 | 137.7 | 14.37 | 150.0 | 16.20 | 154.5 | 16.56 | 160.2 | 17.01 | 164.7 | 17.25 |
| | 20 | 184.8 | 115.8 | 14.49 | 125.4 | 16.80 | 136.5 | 19.59 | 148.5 | 22.05 | 152.7 | 22.56 | 158.7 | 23.13 | 163.2 | 23.52 |
| | | 231.0 | 115.8 | 14.19 | 125.4 | 16.53 | 136.5 | 19.26 | 148.5 | 21.69 | 152.7 | 22.20 | 158.7 | 22.77 | 163.2 | 23.16 |
| | | 462.0 | 115.8 | 13.05 | 125.4 | 15.45 | 136.5 | 18.00 | 148.5 | 20.28 | 152.7 | 20.79 | 158.7 | 21.30 | 163.2 | 21.75 |
| | | 577.5 | 115.8 | 12.66 | 125.4 | 15.15 | 136.5 | 17.61 | 148.5 | 19.92 | 152.7 | 20.43 | 158.7 | 20.94 | 163.2 | 21.24 |
| | | 693.0 | 115.8 | 12.48 | 125.4 | 14.97 | 136.5 | 17.43 | 148.5 | 19.71 | 152.7 | 20.22 | 158.7 | 20.73 | 163.2 | 21.00 |
| | 25 | 184.8 | 115.8 | 17.79 | 125.4 | 20.61 | 136.5 | 24.06 | 148.5 | 27.09 | 152.7 | 27.75 | 158.7 | 28.44 | 163.2 | 28.95 |
| | | 231.0 | 115.8 | 17.43 | 125.4 | 20.28 | 136.5 | 23.67 | 148.5 | 26.64 | 152.7 | 27.30 | 158.7 | 27.99 | 163.2 | 28.50 |
| | | 462.0 | 115.8 | 16.02 | 125.4 | 19.02 | 136.5 | 22.14 | 148.5 | 24.93 | 152.7 | 25.50 | 158.7 | 26.22 | 163.2 | 26.73 |
| | | 577.5 | 115.8 | 15.60 | 125.4 | 18.57 | 136.5 | 21.69 | 148.5 | 24.42 | 152.7 | 25.05 | 158.7 | 25.71 | 163.2 | 26.07 |
| | | 693.0 | 115.8 | 15.36 | 125.4 | 18.36 | 136.5 | 21.48 | 148.5 | 24.18 | 152.7 | 24.84 | 158.7 | 25.44 | 163.2 | 25.77 |
| | 30 | 184.8 | 115.8 | 21.48 | 125.4 | 24.96 | 136.5 | 29.10 | 148.5 | 32.79 | 152.7 | 33.57 | 158.7 | 34.38 | 163.2 | 34.95 |
| | | 231.0 | 115.8 | 21.06 | 125.4 | 24.54 | 136.5 | 28.62 | 148.5 | 32.25 | 152.7 | 33.03 | 158.7 | 33.84 | 163.2 | 34.41 |
| | | 462.0 | 115.8 | 19.41 | 125.4 | 22.95 | 136.5 | 26.79 | 148.5 | 30.15 | 152.7 | 30.84 | 158.7 | 31.68 | 163.2 | 32.31 |
| | | 577.5 | 115.8 | 18.84 | 125.4 | 22.47 | 136.5 | 26.22 | 148.5 | 29.52 | 152.7 | 30.27 | 158.7 | 31.11 | 163.2 | 31.56 |
| | | 693.0 | 115.8 | 18.54 | 125.4 | 22.20 | 136.5 | 25.92 | 148.5 | 29.19 | 152.7 | 30.00 | 158.7 | 30.81 | 163.2 | 31.17 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 35 | 184.8 | 105.9 | 21.99 | 114.6 | 25.62 | 124.8 | 29.82 | 135.6 | 33.54 | 139.8 | 34.38 | 145.2 | 35.22 | 149.4 | 35.88 |
| | | 231.0 | 105.9 | 21.57 | 114.6 | 25.20 | 124.8 | 29.34 | 135.6 | 33.03 | 139.8 | 33.84 | 145.2 | 34.68 | 149.4 | 35.31 |
| | | 462.0 | 105.9 | 19.86 | 114.6 | 23.55 | 124.8 | 27.42 | 135.6 | 30.93 | 139.8 | 31.68 | 145.2 | 32.52 | 149.4 | 33.09 |
| | | 577.5 | 105.9 | 19.35 | 114.6 | 23.04 | 124.8 | 26.85 | 135.6 | 30.27 | 139.8 | 31.05 | 145.2 | 31.86 | 149.4 | 32.31 |
| | | 693.0 | 105.9 | 19.08 | 114.6 | 22.77 | 124.8 | 26.55 | 135.6 | 29.97 | 139.8 | 30.72 | 145.2 | 31.56 | 149.4 | 31.95 |
| | 40 | 184.8 | 96.0 | 23.67 | 104.1 | 27.54 | 113.4 | 32.07 | 123.3 | 36.15 | 126.6 | 36.99 | 131.7 | 37.86 | 135.6 | 38.58 |
| | | 231.0 | 96.0 | 23.22 | 104.1 | 27.09 | 113.4 | 31.56 | 123.3 | 35.55 | 126.6 | 36.39 | 131.7 | 37.29 | 135.6 | 37.98 |
| | | 462.0 | 96.0 | 21.36 | 104.1 | 25.32 | 113.4 | 29.52 | 123.3 | 33.27 | 126.6 | 34.02 | 131.7 | 34.92 | 135.6 | 35.61 |
| | | 577.5 | 96.0 | 20.79 | 104.1 | 24.81 | 113.4 | 28.95 | 123.3 | 32.58 | 126.6 | 33.39 | 131.7 | 34.29 | 135.6 | 34.80 |
| | | 693.0 | 96.0 | 20.52 | 104.1 | 24.57 | 113.4 | 28.65 | 123.3 | 32.22 | 126.6 | 33.09 | 131.7 | 33.96 | 135.6 | 34.38 |
| | 45 | 184.8 | 86.4 | 25.38 | 93.3 | 29.49 | 101.7 | 34.32 | 110.7 | 38.73 | 113.7 | 39.57 | 118.2 | 40.53 | 121.8 | 41.28 |
| | | 231.0 | 86.4 | 24.87 | 93.3 | 29.01 | 101.7 | 33.78 | 110.7 | 38.10 | 113.7 | 38.94 | 118.2 | 39.90 | 121.8 | 40.65 |
| | | 462.0 | 86.4 | 22.89 | 93.3 | 27.09 | 101.7 | 31.62 | 110.7 | 35.61 | 113.7 | 36.39 | 118.2 | 37.35 | 121.8 | 38.16 |
| | | 577.5 | 86.4 | 22.26 | 93.3 | 26.58 | 101.7 | 31.05 | 110.7 | 34.86 | 113.7 | 35.76 | 118.2 | 36.72 | 121.8 | 37.29 |
| | | 693.0 | 86.4 | 21.96 | 93.3 | 26.34 | 101.7 | 30.75 | 110.7 | 34.47 | 113.7 | 35.43 | 118.2 | 36.39 | 121.8 | 36.84 |
| 110 | 10 | 184.8 | 111.6 | 8.52 | 120.6 | 9.87 | 131.4 | 11.37 | 142.8 | 12.90 | 147.3 | 13.11 | 153.3 | 13.53 | 157.2 | 13.71 |
| | | 231.0 | 111.6 | 8.34 | 120.6 | 9.69 | 131.4 | 11.22 | 142.8 | 12.69 | 147.3 | 12.93 | 153.3 | 13.29 | 157.2 | 13.47 |
| | | 462.0 | 111.6 | 7.68 | 120.6 | 9.00 | 131.4 | 10.53 | 142.8 | 11.91 | 147.3 | 12.21 | 153.3 | 12.36 | 157.2 | 12.63 |
| | | 577.5 | 111.6 | 7.41 | 120.6 | 8.82 | 131.4 | 10.29 | 142.8 | 11.64 | 147.3 | 11.88 | 153.3 | 12.12 | 157.2 | 12.45 |
| | | 693.0 | 111.6 | 7.29 | 120.6 | 8.73 | 131.4 | 10.17 | 142.8 | 11.52 | 147.3 | 11.73 | 153.3 | 12.00 | 157.2 | 12.36 |
| | 15 | 184.8 | 111.0 | 11.37 | 120.0 | 13.20 | 130.8 | 15.33 | 142.2 | 17.25 | 146.4 | 17.64 | 152.1 | 18.09 | 156.3 | 18.42 |
| | | 231.0 | 111.0 | 11.13 | 120.0 | 12.99 | 130.8 | 15.09 | 142.2 | 16.98 | 146.4 | 17.37 | 152.1 | 17.82 | 156.3 | 18.12 |
| | | 462.0 | 111.0 | 10.23 | 120.0 | 12.09 | 130.8 | 14.13 | 142.2 | 15.90 | 146.4 | 16.29 | 152.1 | 16.68 | 156.3 | 16.98 |
| | | 577.5 | 111.0 | 9.93 | 120.0 | 11.82 | 130.8 | 13.80 | 142.2 | 15.60 | 146.4 | 15.96 | 152.1 | 16.35 | 156.3 | 16.59 |
| | | 693.0 | 111.0 | 9.78 | 120.0 | 11.70 | 130.8 | 13.65 | 142.2 | 15.42 | 146.4 | 15.81 | 152.1 | 16.20 | 156.3 | 16.41 |
| | 20 | 184.8 | 110.4 | 13.89 | 119.4 | 16.17 | 130.2 | 18.81 | 141.3 | 21.15 | 145.5 | 21.66 | 151.2 | 22.17 | 155.4 | 22.62 |
| | | 231.0 | 110.4 | 13.62 | 119.4 | 15.90 | 130.2 | 18.51 | 141.3 | 20.79 | 145.5 | 21.30 | 151.2 | 21.81 | 155.4 | 22.26 |
| | | 462.0 | 110.4 | 12.54 | 119.4 | 14.82 | 130.2 | 17.31 | 141.3 | 19.47 | 145.5 | 19.92 | 151.2 | 20.49 | 155.4 | 20.88 |
| | | 577.5 | 110.4 | 12.15 | 119.4 | 14.49 | 130.2 | 16.92 | 141.3 | 19.08 | 145.5 | 19.59 | 151.2 | 20.10 | 155.4 | 20.28 |
| | | 693.0 | 110.4 | 11.97 | 119.4 | 14.34 | 130.2 | 16.74 | 141.3 | 18.90 | 145.5 | 19.44 | 151.2 | 19.92 | 155.4 | 20.01 |
| | 25 | 184.8 | 110.4 | 17.01 | 119.4 | 19.80 | 130.2 | 23.01 | 141.3 | 25.92 | 145.5 | 26.49 | 151.2 | 27.15 | 155.4 | 27.66 |
| | | 231.0 | 110.4 | 16.68 | 119.4 | 19.47 | 130.2 | 22.65 | 141.3 | 25.50 | 145.5 | 26.07 | 151.2 | 26.73 | 155.4 | 27.24 |
| | | 462.0 | 110.4 | 15.33 | 119.4 | 18.18 | 130.2 | 21.18 | 141.3 | 23.85 | 145.5 | 24.42 | 151.2 | 25.05 | 155.4 | 25.50 |
| | | 577.5 | 110.4 | 14.88 | 119.4 | 17.82 | 130.2 | 20.73 | 141.3 | 23.34 | 145.5 | 23.97 | 151.2 | 24.54 | 155.4 | 24.87 |
| | | 693.0 | 110.4 | 14.67 | 119.4 | 17.61 | 130.2 | 20.52 | 141.3 | 23.10 | 145.5 | 23.76 | 151.2 | 24.30 | 155.4 | 24.57 |
| | 30 | 184.8 | 110.4 | 20.70 | 119.4 | 24.12 | 130.2 | 28.05 | 141.3 | 31.62 | 145.5 | 32.31 | 151.2 | 33.15 | 155.4 | 33.75 |
| | | 231.0 | 110.4 | 20.28 | 119.4 | 23.73 | 130.2 | 27.60 | 141.3 | 31.11 | 145.5 | 31.80 | 151.2 | 32.64 | 155.4 | 33.21 |
| | | 462.0 | 110.4 | 18.69 | 119.4 | 22.14 | 130.2 | 25.83 | 141.3 | 29.07 | 145.5 | 29.76 | 151.2 | 30.54 | 155.4 | 31.11 |
| | | 577.5 | 110.4 | 18.18 | 119.4 | 21.69 | 130.2 | 25.26 | 141.3 | 28.50 | 145.5 | 29.19 | 151.2 | 29.97 | 155.4 | 30.33 |
| | | 693.0 | 110.4 | 17.94 | 119.4 | 21.48 | 130.2 | 24.96 | 141.3 | 28.20 | 145.5 | 28.92 | 151.2 | 29.67 | 155.4 | 29.97 |
| | 35 | 184.8 | 102.6 | 21.54 | 111.3 | 25.02 | 121.2 | 29.16 | 131.7 | 32.85 | 135.6 | 33.60 | 141.0 | 34.44 | 144.9 | 35.10 |
| | | 231.0 | 102.6 | 21.12 | 111.3 | 24.63 | 121.2 | 28.68 | 131.7 | 32.31 | 135.6 | 33.09 | 141.0 | 33.90 | 144.9 | 34.53 |
| | | 462.0 | 102.6 | 19.41 | 111.3 | 23.04 | 121.2 | 26.85 | 131.7 | 30.21 | 135.6 | 30.99 | 141.0 | 31.74 | 144.9 | 32.31 |
| | | 577.5 | 102.6 | 18.90 | 111.3 | 22.53 | 121.2 | 26.28 | 131.7 | 29.64 | 135.6 | 30.33 | 141.0 | 31.17 | 144.9 | 31.56 |
| | | 693.0 | 102.6 | 18.63 | 111.3 | 22.26 | 121.2 | 25.98 | 131.7 | 29.37 | 135.6 | 30.03 | 141.0 | 30.90 | 144.9 | 31.17 |
| | 40 | 184.8 | 95.1 | 23.70 | 102.9 | 27.48 | 112.5 | 32.07 | 122.1 | 36.06 | 125.7 | 36.93 | 130.8 | 37.80 | 134.1 | 38.52 |
| | | 231.0 | 95.1 | 23.22 | 102.9 | 27.03 | 112.5 | 31.56 | 122.1 | 35.49 | 125.7 | 36.33 | 130.8 | 37.20 | 134.1 | 37.92 |
| | | 462.0 | 95.1 | 21.30 | 102.9 | 25.32 | 112.5 | 29.46 | 122.1 | 33.21 | 125.7 | 33.96 | 130.8 | 34.86 | 134.1 | 35.55 |
| | | 577.5 | 95.1 | 20.73 | 102.9 | 24.75 | 112.5 | 28.89 | 122.1 | 32.58 | 125.7 | 33.33 | 130.8 | 34.23 | 134.1 | 34.68 |
| | | 693.0 | 95.1 | 20.46 | 102.9 | 24.45 | 112.5 | 28.59 | 122.1 | 32.25 | 125.7 | 33.03 | 130.8 | 33.90 | 134.1 | 34.23 |
| | 45 | 184.8 | 87.6 | 25.86 | 94.8 | 29.91 | 103.5 | 35.01 | 112.5 | 39.30 | 115.5 | 40.23 | 120.3 | 41.16 | 123.6 | 41.91 |
| | | 231.0 | 87.6 | 25.32 | 94.8 | 29.46 | 103.5 | 34.41 | 112.5 | 38.67 | 115.5 | 39.57 | 120.3 | 40.53 | 123.6 | 41.28 |
| | | 462.0 | 87.6 | 23.22 | 94.8 | 27.60 | 103.5 | 32.07 | 112.5 | 36.21 | 115.5 | 36.96 | 120.3 | 37.98 | 123.6 | 38.79 |
| | | 577.5 | 87.6 | 22.59 | 94.8 | 26.97 | 103.5 | 31.50 | 112.5 | 35.49 | 115.5 | 36.33 | 120.3 | 37.29 | 123.6 | 37.80 |
| | | 693.0 | 87.6 | 22.26 | 94.8 | 26.67 | 103.5 | 31.20 | 112.5 | 35.16 | 115.5 | 36.00 | 120.3 | 36.93 | 123.6 | 37.29 |
| 100 | 10 | 184.8 | 105.0 | 7.92 | 113.4 | 9.30 | 123.6 | 10.74 | 134.4 | 12.03 | 138.6 | 12.33 | 143.7 | 12.75 | 147.9 | 13.02 |
| | | 231.0 | 105.0 | 7.77 | 113.4 | 9.12 | 123.6 | 10.59 | 134.4 | 11.85 | 138.6 | 12.18 | 143.7 | 12.54 | 147.9 | 12.78 |
| | | 462.0 | 105.0 | 7.17 | 113.4 | 8.43 | 123.6 | 9.93 | 134.4 | 11.19 | 138.6 | 11.52 | 143.7 | 11.76 | 147.9 | 11.85 |
| | | 577.5 | 105.0 | 7.05 | 113.4 | 8.25 | 123.6 | 9.72 | 134.4 | 10.89 | 138.6 | 11.19 | 143.7 | 11.52 | 147.9 | 11.70 |
| | | 693.0 | 105.0 | 6.99 | 113.4 | 8.16 | 123.6 | 9.63 | 134.4 | 10.74 | 138.6 | 11.04 | 143.7 | 11.37 | 147.9 | 11.61 |
| | 15 | 184.8 | 105.0 | 10.77 | 113.4 | 12.54 | 123.6 | 14.61 | 134.4 | 16.41 | 138.6 | 16.80 | 143.7 | 17.25 | 147.9 | 17.58 |
| | | 231.0 | 105.0 | 10.56 | 113.4 | 12.33 | 123.6 | 14.37 | 134.4 | 16.17 | 138.6 | 16.53 | 143.7 | 16.98 | 147.9 | 17.31 |
| | | 462.0 | 105.0 | 9.72 | 113.4 | 11.52 | 123.6 | 13.41 | 134.4 | 15.15 | 138.6 | 15.51 | 143.7 | 15.90 | 147.9 | 16.17 |
| | | 577.5 | 105.0 | 9.48 | 113.4 | 11.25 | 123.6 | 13.17 | 134.4 | 14.82 | 138.6 | 15.21 | 143.7 | 15.60 | 147.9 | 15.78 |
| | | 693.0 | 105.0 | 9.36 | 113.4 | 11.13 | 123.6 | 13.05 | 134.4 | 14.67 | 138.6 | 15.06 | 143.7 | 15.42 | 147.9 | 15.60 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 20 | 184.8 | 105.0 | 13.29 | 113.4 | 15.45 | 123.6 | 18.06 | 134.4 | 20.31 | 138.6 | 20.76 | 143.7 | 21.27 | 147.9 | 21.66 |
| | | 231.0 | 105.0 | 13.05 | 113.4 | 15.21 | 123.6 | 17.76 | 134.4 | 19.98 | 138.6 | 20.43 | 143.7 | 20.94 | 147.9 | 21.30 |
| | | 462.0 | 105.0 | 12.03 | 113.4 | 14.25 | 123.6 | 16.53 | 134.4 | 18.63 | 138.6 | 19.08 | 143.7 | 19.59 | 147.9 | 19.98 |
| | | 577.5 | 105.0 | 11.64 | 113.4 | 13.92 | 123.6 | 16.23 | 134.4 | 18.33 | 138.6 | 18.78 | 143.7 | 19.20 | 147.9 | 19.41 |
| | | 693.0 | 105.0 | 11.46 | 113.4 | 13.77 | 123.6 | 16.05 | 134.4 | 18.15 | 138.6 | 18.60 | 143.7 | 19.02 | 147.9 | 19.11 |
| | 25 | 184.8 | 105.0 | 16.23 | 113.4 | 18.87 | 123.6 | 21.99 | 134.4 | 24.78 | 138.6 | 25.35 | 143.7 | 25.92 | 147.9 | 26.46 |
| | | 231.0 | 105.0 | 15.90 | 113.4 | 18.57 | 123.6 | 21.63 | 134.4 | 24.36 | 138.6 | 24.93 | 143.7 | 25.50 | 147.9 | 26.01 |
| | | 462.0 | 105.0 | 14.64 | 113.4 | 17.37 | 123.6 | 20.22 | 134.4 | 22.77 | 138.6 | 23.28 | 143.7 | 23.91 | 147.9 | 24.30 |
| | | 577.5 | 105.0 | 14.25 | 113.4 | 16.98 | 123.6 | 19.77 | 134.4 | 22.32 | 138.6 | 22.83 | 143.7 | 23.46 | 147.9 | 23.67 |
| | | 693.0 | 105.0 | 14.07 | 113.4 | 16.80 | 123.6 | 19.56 | 134.4 | 22.11 | 138.6 | 22.62 | 143.7 | 23.25 | 147.9 | 23.34 |
| | 30 | 184.8 | 105.0 | 19.98 | 113.4 | 23.22 | 123.6 | 27.03 | 134.4 | 30.45 | 138.6 | 31.17 | 143.7 | 31.95 | 147.9 | 32.52 |
| | | 231.0 | 105.0 | 19.59 | 113.4 | 22.83 | 123.6 | 26.58 | 134.4 | 29.97 | 138.6 | 30.66 | 143.7 | 31.44 | 147.9 | 32.01 |
| | | 462.0 | 105.0 | 18.00 | 113.4 | 21.30 | 123.6 | 24.87 | 134.4 | 27.99 | 138.6 | 28.62 | 143.7 | 29.40 | 147.9 | 29.91 |
| | | 577.5 | 105.0 | 17.49 | 113.4 | 20.88 | 123.6 | 24.36 | 134.4 | 27.42 | 138.6 | 28.11 | 143.7 | 28.83 | 147.9 | 29.13 |
| | | 693.0 | 105.0 | 17.25 | 113.4 | 20.64 | 123.6 | 24.12 | 134.4 | 27.12 | 138.6 | 27.87 | 143.7 | 28.53 | 147.9 | 28.77 |
| | 35 | 184.8 | 99.6 | 21.09 | 108.0 | 24.51 | 117.3 | 28.53 | 127.8 | 32.16 | 131.7 | 32.91 | 136.5 | 33.66 | 140.4 | 34.26 |
| | | 231.0 | 99.6 | 20.67 | 108.0 | 24.12 | 117.3 | 28.05 | 127.8 | 31.62 | 131.7 | 32.37 | 136.5 | 33.15 | 140.4 | 33.72 |
| | | 462.0 | 99.6 | 19.02 | 108.0 | 22.53 | 117.3 | 26.22 | 127.8 | 29.52 | 131.7 | 30.27 | 136.5 | 31.05 | 140.4 | 31.56 |
| | | 577.5 | 99.6 | 18.45 | 108.0 | 22.08 | 117.3 | 25.71 | 127.8 | 28.95 | 131.7 | 29.70 | 136.5 | 30.48 | 140.4 | 30.72 |
| | | 693.0 | 99.6 | 18.15 | 108.0 | 21.84 | 117.3 | 25.44 | 127.8 | 28.65 | 131.7 | 29.43 | 136.5 | 30.18 | 140.4 | 30.30 |
| | 40 | 184.8 | 94.2 | 23.61 | 102.0 | 27.48 | 111.3 | 32.01 | 120.9 | 36.00 | 124.5 | 36.93 | 129.3 | 37.83 | 133.2 | 38.46 |
| | | 231.0 | 94.2 | 23.16 | 102.0 | 27.03 | 111.3 | 31.50 | 120.9 | 35.43 | 124.5 | 36.33 | 129.3 | 37.20 | 133.2 | 37.86 |
| | | 462.0 | 94.2 | 21.30 | 102.0 | 25.26 | 111.3 | 29.46 | 120.9 | 33.15 | 124.5 | 33.90 | 129.3 | 34.80 | 133.2 | 35.43 |
| | | 577.5 | 94.2 | 20.73 | 102.0 | 24.75 | 111.3 | 28.83 | 120.9 | 32.52 | 124.5 | 33.33 | 129.3 | 34.17 | 133.2 | 34.47 |
| | | 693.0 | 94.2 | 20.46 | 102.0 | 24.48 | 111.3 | 28.50 | 120.9 | 32.19 | 124.5 | 33.06 | 129.3 | 33.84 | 133.2 | 33.99 |
| | 45 | 184.8 | 88.8 | 26.16 | 96.3 | 30.45 | 105.0 | 35.49 | 114.3 | 39.87 | 117.3 | 40.95 | 122.1 | 41.97 | 125.7 | 42.66 |
| | | 231.0 | 88.8 | 25.65 | 96.3 | 29.97 | 105.0 | 34.92 | 114.3 | 39.24 | 117.3 | 40.26 | 122.1 | 41.28 | 125.7 | 42.00 |
| | | 462.0 | 88.8 | 23.61 | 96.3 | 27.99 | 105.0 | 32.70 | 114.3 | 36.78 | 117.3 | 37.53 | 122.1 | 38.55 | 125.7 | 39.30 |
| | | 577.5 | 88.8 | 23.04 | 96.3 | 27.42 | 105.0 | 31.92 | 114.3 | 36.06 | 117.3 | 36.96 | 122.1 | 37.86 | 125.7 | 38.22 |
| | | 693.0 | 88.8 | 22.74 | 96.3 | 27.12 | 105.0 | 31.56 | 114.3 | 35.73 | 117.3 | 36.66 | 122.1 | 37.50 | 125.7 | 37.68 |
| 90 | 10 | 184.8 | 94.2 | 6.87 | 102.0 | 7.95 | 111.3 | 9.18 | 120.9 | 10.44 | 124.5 | 10.71 | 129.3 | 11.01 | 133.2 | 11.22 |
| | | 231.0 | 94.2 | 6.75 | 102.0 | 7.83 | 111.3 | 9.06 | 120.9 | 10.29 | 124.5 | 10.53 | 129.3 | 10.83 | 133.2 | 11.01 |
| | | 462.0 | 94.2 | 6.24 | 102.0 | 7.35 | 111.3 | 8.58 | 120.9 | 9.69 | 124.5 | 9.84 | 129.3 | 10.11 | 133.2 | 10.29 |
| | | 577.5 | 94.2 | 6.00 | 102.0 | 7.23 | 111.3 | 8.31 | 120.9 | 9.42 | 124.5 | 9.66 | 129.3 | 9.93 | 133.2 | 9.96 |
| | | 693.0 | 94.2 | 5.88 | 102.0 | 7.17 | 111.3 | 8.19 | 120.9 | 9.30 | 124.5 | 9.57 | 129.3 | 9.81 | 133.2 | 9.81 |
| | 15 | 184.8 | 94.2 | 9.27 | 102.0 | 10.80 | 111.3 | 12.54 | 120.9 | 14.16 | 124.5 | 14.46 | 129.3 | 14.88 | 133.2 | 15.12 |
| | | 231.0 | 94.2 | 9.09 | 102.0 | 10.62 | 111.3 | 12.33 | 120.9 | 13.92 | 124.5 | 14.25 | 129.3 | 14.64 | 133.2 | 14.88 |
| | | 462.0 | 94.2 | 8.40 | 102.0 | 9.93 | 111.3 | 11.58 | 120.9 | 13.05 | 124.5 | 13.35 | 129.3 | 13.68 | 133.2 | 13.92 |
| | | 577.5 | 94.2 | 8.13 | 102.0 | 9.72 | 111.3 | 11.31 | 120.9 | 12.78 | 124.5 | 13.11 | 129.3 | 13.41 | 133.2 | 13.56 |
| | | 693.0 | 94.2 | 8.01 | 102.0 | 9.63 | 111.3 | 11.19 | 120.9 | 12.66 | 124.5 | 12.99 | 129.3 | 13.29 | 133.2 | 13.35 |
| | 20 | 184.8 | 94.2 | 11.43 | 102.0 | 13.32 | 111.3 | 15.51 | 120.9 | 17.46 | 124.5 | 17.82 | 129.3 | 18.30 | 133.2 | 18.60 |
| | | 231.0 | 94.2 | 11.19 | 102.0 | 13.11 | 111.3 | 15.27 | 120.9 | 17.19 | 124.5 | 17.55 | 129.3 | 18.00 | 133.2 | 18.33 |
| | | 462.0 | 94.2 | 10.32 | 102.0 | 12.21 | 111.3 | 14.25 | 120.9 | 16.02 | 124.5 | 16.47 | 129.3 | 16.86 | 133.2 | 17.19 |
| | | 577.5 | 94.2 | 10.05 | 102.0 | 11.97 | 111.3 | 14.01 | 120.9 | 15.78 | 124.5 | 16.17 | 129.3 | 16.53 | 133.2 | 16.74 |
| | | 693.0 | 94.2 | 9.93 | 102.0 | 11.82 | 111.3 | 13.86 | 120.9 | 15.66 | 124.5 | 15.99 | 129.3 | 16.38 | 133.2 | 16.50 |
| | 25 | 184.8 | 94.2 | 13.95 | 102.0 | 16.23 | 111.3 | 18.87 | 120.9 | 21.27 | 124.5 | 21.78 | 129.3 | 22.29 | 133.2 | 22.77 |
| | | 231.0 | 94.2 | 13.68 | 102.0 | 15.96 | 111.3 | 18.57 | 120.9 | 20.94 | 124.5 | 21.45 | 129.3 | 21.96 | 133.2 | 22.38 |
| | | 462.0 | 94.2 | 12.60 | 102.0 | 14.94 | 111.3 | 17.37 | 120.9 | 19.59 | 124.5 | 20.04 | 129.3 | 20.55 | 133.2 | 20.94 |
| | | 577.5 | 94.2 | 12.21 | 102.0 | 14.64 | 111.3 | 17.04 | 120.9 | 19.20 | 124.5 | 19.65 | 129.3 | 20.16 | 133.2 | 20.43 |
| | | 693.0 | 94.2 | 12.03 | 102.0 | 14.46 | 111.3 | 16.89 | 120.9 | 19.02 | 124.5 | 19.47 | 129.3 | 19.98 | 133.2 | 20.16 |
| | 30 | 184.8 | 94.2 | 17.22 | 102.0 | 19.98 | 111.3 | 23.28 | 120.9 | 26.19 | 124.5 | 26.82 | 129.3 | 27.48 | 133.2 | 27.99 |
| | | 231.0 | 94.2 | 16.86 | 102.0 | 19.65 | 111.3 | 22.89 | 120.9 | 25.77 | 124.5 | 26.40 | 129.3 | 27.03 | 133.2 | 27.54 |
| | | 462.0 | 94.2 | 15.45 | 102.0 | 18.39 | 111.3 | 21.36 | 120.9 | 24.12 | 124.5 | 24.69 | 129.3 | 25.32 | 133.2 | 25.77 |
| | | 577.5 | 94.2 | 15.09 | 102.0 | 18.00 | 111.3 | 20.94 | 120.9 | 23.61 | 124.5 | 24.24 | 129.3 | 24.81 | 133.2 | 25.05 |
| | | 693.0 | 94.2 | 14.88 | 102.0 | 17.82 | 111.3 | 20.70 | 120.9 | 23.34 | 124.5 | 24.03 | 129.3 | 24.57 | 133.2 | 24.72 |
| | 35 | 184.8 | 91.8 | 18.57 | 99.3 | 21.51 | 108.3 | 25.08 | 117.6 | 28.26 | 121.2 | 28.89 | 125.7 | 29.61 | 129.3 | 30.18 |
| | | 231.0 | 91.8 | 18.18 | 99.3 | 21.18 | 108.3 | 24.69 | 117.6 | 27.81 | 121.2 | 28.44 | 125.7 | 29.13 | 129.3 | 29.70 |
| | | 462.0 | 91.8 | 16.74 | 99.3 | 19.86 | 108.3 | 23.10 | 117.6 | 26.01 | 121.2 | 26.58 | 125.7 | 27.30 | 129.3 | 27.81 |
| | | 577.5 | 91.8 | 16.23 | 99.3 | 19.41 | 108.3 | 22.59 | 117.6 | 25.50 | 121.2 | 26.16 | 125.7 | 26.79 | 129.3 | 27.03 |
| | | 693.0 | 91.8 | 15.96 | 99.3 | 19.17 | 108.3 | 22.32 | 117.6 | 25.26 | 121.2 | 25.92 | 125.7 | 26.52 | 129.3 | 26.67 |
| | 40 | 184.8 | 89.1 | 21.27 | 96.6 | 24.78 | 105.0 | 28.83 | 114.3 | 32.46 | 117.6 | 33.24 | 122.4 | 34.08 | 125.7 | 34.65 |
| | | 231.0 | 89.1 | 20.88 | 96.6 | 24.36 | 105.0 | 28.38 | 114.3 | 31.92 | 117.6 | 32.70 | 122.4 | 33.51 | 125.7 | 34.11 |
| | | 462.0 | 89.1 | 19.20 | 96.6 | 22.77 | 105.0 | 26.52 | 114.3 | 29.82 | 117.6 | 30.60 | 122.4 | 31.35 | 125.7 | 31.92 |
| | | 577.5 | 89.1 | 18.63 | 96.6 | 22.26 | 105.0 | 25.95 | 114.3 | 29.25 | 117.6 | 30.03 | 122.4 | 30.78 | 125.7 | 31.11 |
| | | 693.0 | 89.1 | 18.36 | 96.6 | 22.02 | 105.0 | 25.68 | 114.3 | 28.98 | 117.6 | 29.73 | 122.4 | 30.51 | 125.7 | 30.69 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 45 | 184.8 | 86.4 | 24.00 | 93.6 | 28.02 | 102.0 | 32.58 | 111.0 | 36.69 | 114.0 | 37.56 | 118.8 | 38.55 | 121.8 | 39.09 |
| | | 231.0 | 86.4 | 23.55 | 93.6 | 27.54 | 102.0 | 32.07 | 111.0 | 36.06 | 114.0 | 36.96 | 118.8 | 37.92 | 121.8 | 38.49 |
| | | 462.0 | 86.4 | 21.69 | 93.6 | 25.71 | 102.0 | 29.97 | 111.0 | 33.66 | 114.0 | 34.62 | 118.8 | 35.43 | 121.8 | 36.06 |
| | | 577.5 | 86.4 | 21.06 | 93.6 | 25.14 | 102.0 | 29.34 | 111.0 | 33.03 | 114.0 | 33.90 | 118.8 | 34.80 | 121.8 | 35.19 |
| | | 693.0 | 86.4 | 20.73 | 93.6 | 24.84 | 102.0 | 29.01 | 111.0 | 32.70 | 114.0 | 33.57 | 118.8 | 34.47 | 121.8 | 34.74 |
| 80 | 10 | 184.8 | 83.7 | 5.76 | 90.9 | 6.63 | 99.0 | 7.80 | 107.4 | 8.85 | 110.7 | 8.94 | 114.9 | 9.30 | 118.2 | 9.33 |
| | | 231.0 | 83.7 | 5.64 | 90.9 | 6.54 | 99.0 | 7.65 | 107.4 | 8.70 | 110.7 | 8.82 | 114.9 | 9.12 | 118.2 | 9.18 |
| | | 462.0 | 83.7 | 5.13 | 90.9 | 6.18 | 99.0 | 7.08 | 107.4 | 8.07 | 110.7 | 8.25 | 114.9 | 8.43 | 118.2 | 8.55 |
| | | 577.5 | 83.7 | 5.01 | 90.9 | 6.00 | 99.0 | 6.96 | 107.4 | 7.83 | 110.7 | 8.01 | 114.9 | 8.34 | 118.2 | 8.46 |
| | | 693.0 | 83.7 | 4.95 | 90.9 | 5.91 | 99.0 | 6.90 | 107.4 | 7.71 | 110.7 | 7.89 | 114.9 | 8.28 | 118.2 | 8.40 |
| | 15 | 184.8 | 83.7 | 7.80 | 90.9 | 9.06 | 99.0 | 10.56 | 107.4 | 11.91 | 110.7 | 12.15 | 114.9 | 12.48 | 118.2 | 12.69 |
| | | 231.0 | 83.7 | 7.62 | 90.9 | 8.91 | 99.0 | 10.38 | 107.4 | 11.70 | 110.7 | 11.97 | 114.9 | 12.27 | 118.2 | 12.48 |
| | | 462.0 | 83.7 | 6.99 | 90.9 | 8.34 | 99.0 | 9.66 | 107.4 | 10.95 | 110.7 | 11.19 | 114.9 | 11.46 | 118.2 | 11.64 |
| | | 577.5 | 83.7 | 6.81 | 90.9 | 8.13 | 99.0 | 9.48 | 107.4 | 10.68 | 110.7 | 10.95 | 114.9 | 11.25 | 118.2 | 11.40 |
| | | 693.0 | 83.7 | 6.72 | 90.9 | 8.04 | 99.0 | 9.39 | 107.4 | 10.56 | 110.7 | 10.80 | 114.9 | 11.16 | 118.2 | 11.25 |
| | 20 | 184.8 | 83.7 | 9.60 | 90.9 | 11.19 | 99.0 | 12.99 | 107.4 | 14.61 | 110.7 | 15.00 | 114.9 | 15.33 | 118.2 | 15.66 |
| | | 231.0 | 83.7 | 9.42 | 90.9 | 11.01 | 99.0 | 12.78 | 107.4 | 14.37 | 110.7 | 14.76 | 114.9 | 15.09 | 118.2 | 15.39 |
| | | 462.0 | 83.7 | 8.64 | 90.9 | 10.23 | 99.0 | 11.97 | 107.4 | 13.50 | 110.7 | 13.80 | 114.9 | 14.13 | 118.2 | 14.37 |
| | | 577.5 | 83.7 | 8.40 | 90.9 | 10.05 | 99.0 | 11.70 | 107.4 | 13.23 | 110.7 | 13.56 | 114.9 | 13.86 | 118.2 | 14.01 |
| | | 693.0 | 83.7 | 8.28 | 90.9 | 9.96 | 99.0 | 11.58 | 107.4 | 13.11 | 110.7 | 13.41 | 114.9 | 13.74 | 118.2 | 13.80 |
| | 25 | 184.8 | 83.7 | 11.67 | 90.9 | 13.56 | 99.0 | 15.84 | 107.4 | 17.85 | 110.7 | 18.30 | 114.9 | 18.75 | 118.2 | 19.08 |
| | | 231.0 | 83.7 | 11.46 | 90.9 | 13.35 | 99.0 | 15.60 | 107.4 | 17.55 | 110.7 | 18.00 | 114.9 | 18.45 | 118.2 | 18.78 |
| | | 462.0 | 83.7 | 10.56 | 90.9 | 12.54 | 99.0 | 14.58 | 107.4 | 16.41 | 110.7 | 16.80 | 114.9 | 17.25 | 118.2 | 17.55 |
| | | 577.5 | 83.7 | 10.23 | 90.9 | 12.27 | 99.0 | 14.31 | 107.4 | 16.08 | 110.7 | 16.47 | 114.9 | 16.92 | 118.2 | 17.10 |
| | | 693.0 | 83.7 | 10.08 | 90.9 | 12.15 | 99.0 | 14.19 | 107.4 | 15.93 | 110.7 | 16.32 | 114.9 | 16.77 | 118.2 | 16.89 |
| | 30 | 184.8 | 83.7 | 14.40 | 90.9 | 16.74 | 99.0 | 19.53 | 107.4 | 21.99 | 110.7 | 22.50 | 114.9 | 23.01 | 118.2 | 23.49 |
| | | 231.0 | 83.7 | 14.13 | 90.9 | 16.47 | 99.0 | 19.20 | 107.4 | 21.63 | 110.7 | 22.14 | 114.9 | 22.65 | 118.2 | 23.10 |
| | | 462.0 | 83.7 | 12.99 | 90.9 | 15.39 | 99.0 | 17.94 | 107.4 | 20.16 | 110.7 | 20.67 | 114.9 | 21.18 | 118.2 | 21.57 |
| | | 577.5 | 83.7 | 12.60 | 90.9 | 15.09 | 99.0 | 17.55 | 107.4 | 19.77 | 110.7 | 20.28 | 114.9 | 20.79 | 118.2 | 21.00 |
| | | 693.0 | 83.7 | 12.42 | 90.9 | 14.91 | 99.0 | 17.37 | 107.4 | 19.59 | 110.7 | 20.10 | 114.9 | 20.61 | 118.2 | 20.70 |
| | 35 | 184.8 | 83.7 | 16.02 | 90.9 | 18.63 | 99.0 | 21.66 | 107.4 | 24.36 | 110.7 | 24.96 | 114.9 | 25.62 | 118.2 | 26.04 |
| | | 231.0 | 83.7 | 15.72 | 90.9 | 18.33 | 99.0 | 21.30 | 107.4 | 23.97 | 110.7 | 24.54 | 114.9 | 25.20 | 118.2 | 25.65 |
| | | 462.0 | 83.7 | 14.43 | 90.9 | 17.10 | 99.0 | 19.92 | 107.4 | 22.47 | 110.7 | 22.95 | 114.9 | 23.55 | 118.2 | 23.97 |
| | | 577.5 | 83.7 | 14.07 | 90.9 | 16.74 | 99.0 | 19.53 | 107.4 | 22.02 | 110.7 | 22.53 | 114.9 | 23.16 | 118.2 | 23.34 |
| | | 693.0 | 83.7 | 13.86 | 90.9 | 16.53 | 99.0 | 19.35 | 107.4 | 21.78 | 110.7 | 22.29 | 114.9 | 22.98 | 118.2 | 23.04 |
| | 40 | 184.8 | 83.7 | 18.93 | 90.9 | 22.05 | 99.0 | 25.68 | 107.4 | 28.89 | 110.7 | 29.55 | 114.9 | 30.33 | 118.2 | 30.84 |
| | | 231.0 | 83.7 | 18.57 | 90.9 | 21.69 | 99.0 | 25.26 | 107.4 | 28.44 | 110.7 | 29.07 | 114.9 | 29.82 | 118.2 | 30.33 |
| | | 462.0 | 83.7 | 17.10 | 90.9 | 20.22 | 99.0 | 23.61 | 107.4 | 26.58 | 110.7 | 27.24 | 114.9 | 27.93 | 118.2 | 28.44 |
| | | 577.5 | 83.7 | 16.59 | 90.9 | 19.86 | 99.0 | 23.10 | 107.4 | 26.07 | 110.7 | 26.73 | 114.9 | 27.36 | 118.2 | 27.66 |
| | | 693.0 | 83.7 | 16.35 | 90.9 | 19.65 | 99.0 | 22.83 | 107.4 | 25.83 | 110.7 | 26.46 | 114.9 | 27.06 | 118.2 | 27.30 |
| | 45 | 184.8 | 83.7 | 21.87 | 90.9 | 25.50 | 99.0 | 29.67 | 107.4 | 33.42 | 110.7 | 34.11 | 114.9 | 35.01 | 118.2 | 35.61 |
| | | 231.0 | 83.7 | 21.45 | 90.9 | 25.05 | 99.0 | 29.19 | 107.4 | 32.88 | 110.7 | 33.60 | 114.9 | 34.47 | 118.2 | 35.04 |
| | | 462.0 | 83.7 | 19.77 | 90.9 | 23.34 | 99.0 | 27.30 | 107.4 | 30.72 | 110.7 | 31.50 | 114.9 | 32.31 | 118.2 | 32.88 |
| | | 577.5 | 83.7 | 19.14 | 90.9 | 22.95 | 99.0 | 26.64 | 107.4 | 30.15 | 110.7 | 30.93 | 114.9 | 31.56 | 118.2 | 32.01 |
| | | 693.0 | 83.7 | 18.84 | 90.9 | 22.77 | 99.0 | 26.34 | 107.4 | 29.88 | 110.7 | 30.63 | 114.9 | 31.17 | 118.2 | 31.56 |
| 70 | 10 | 184.8 | 73.5 | 4.80 | 79.5 | 5.52 | 86.7 | 6.54 | 94.2 | 7.35 | 96.9 | 7.38 | 100.5 | 7.65 | 103.5 | 7.77 |
| | | 231.0 | 73.5 | 4.71 | 79.5 | 5.46 | 86.7 | 6.42 | 94.2 | 7.23 | 96.9 | 7.29 | 100.5 | 7.53 | 103.5 | 7.65 |
| | | 462.0 | 73.5 | 4.35 | 79.5 | 5.13 | 86.7 | 6.00 | 94.2 | 6.75 | 96.9 | 6.84 | 100.5 | 7.05 | 103.5 | 7.23 |
| | | 577.5 | 73.5 | 4.17 | 79.5 | 4.95 | 86.7 | 5.82 | 94.2 | 6.54 | 96.9 | 6.66 | 100.5 | 6.93 | 103.5 | 7.05 |
| | | 693.0 | 73.5 | 4.05 | 79.5 | 4.86 | 86.7 | 5.73 | 94.2 | 6.45 | 96.9 | 6.57 | 100.5 | 6.87 | 103.5 | 6.96 |
| | 15 | 184.8 | 73.5 | 6.48 | 79.5 | 7.50 | 86.7 | 8.79 | 94.2 | 9.90 | 96.9 | 10.08 | 100.5 | 10.35 | 103.5 | 10.53 |
| | | 231.0 | 73.5 | 6.36 | 79.5 | 7.38 | 86.7 | 8.64 | 94.2 | 9.72 | 96.9 | 9.93 | 100.5 | 10.17 | 103.5 | 10.38 |
| | | 462.0 | 73.5 | 5.85 | 79.5 | 6.93 | 86.7 | 8.07 | 94.2 | 9.09 | 96.9 | 9.30 | 100.5 | 9.54 | 103.5 | 9.72 |
| | | 577.5 | 73.5 | 5.67 | 79.5 | 6.75 | 86.7 | 7.89 | 94.2 | 8.91 | 96.9 | 9.09 | 100.5 | 9.36 | 103.5 | 9.48 |
| | | 693.0 | 73.5 | 5.58 | 79.5 | 6.66 | 86.7 | 7.80 | 94.2 | 8.82 | 96.9 | 9.00 | 100.5 | 9.27 | 103.5 | 9.36 |
| | 20 | 184.8 | 73.5 | 7.98 | 79.5 | 9.24 | 86.7 | 10.80 | 94.2 | 12.15 | 96.9 | 12.48 | 100.5 | 12.72 | 103.5 | 12.99 |
| | | 231.0 | 73.5 | 7.83 | 79.5 | 9.09 | 86.7 | 10.62 | 94.2 | 11.97 | 96.9 | 12.27 | 100.5 | 12.54 | 103.5 | 12.78 |
| | | 462.0 | 73.5 | 7.20 | 79.5 | 8.52 | 86.7 | 9.93 | 94.2 | 11.19 | 96.9 | 11.46 | 100.5 | 11.76 | 103.5 | 11.97 |
| | | 577.5 | 73.5 | 6.99 | 79.5 | 8.34 | 86.7 | 9.72 | 94.2 | 11.01 | 96.9 | 11.25 | 100.5 | 11.52 | 103.5 | 11.64 |
| | | 693.0 | 73.5 | 6.90 | 79.5 | 8.25 | 86.7 | 9.63 | 94.2 | 10.92 | 96.9 | 11.16 | 100.5 | 11.40 | 103.5 | 11.49 |
| | 25 | 184.8 | 73.5 | 9.72 | 79.5 | 11.31 | 86.7 | 13.20 | 94.2 | 14.88 | 96.9 | 15.18 | 100.5 | 15.60 | 103.5 | 15.84 |
| | | 231.0 | 73.5 | 9.54 | 79.5 | 11.13 | 86.7 | 12.99 | 94.2 | 14.64 | 96.9 | 14.94 | 100.5 | 15.33 | 103.5 | 15.60 |
| | | 462.0 | 73.5 | 8.79 | 79.5 | 10.44 | 86.7 | 12.15 | 94.2 | 13.68 | 96.9 | 14.01 | 100.5 | 14.31 | 103.5 | 14.58 |
| | | 577.5 | 73.5 | 8.52 | 79.5 | 10.17 | 86.7 | 11.91 | 94.2 | 13.35 | 96.9 | 13.74 | 100.5 | 14.07 | 103.5 | 14.19 |
| | | 693.0 | 73.5 | 8.40 | 79.5 | 10.05 | 86.7 | 11.76 | 94.2 | 13.20 | 96.9 | 13.62 | 100.5 | 13.92 | 103.5 | 14.01 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Cooling Capacity(48HP)

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 70 | 30 | 184.8 | 73.5 | 12.00 | 79.5 | 13.89 | 86.7 | 16.23 | 94.2 | 18.24 | 96.9 | 18.69 | 100.5 | 19.14 | 103.5 | 19.44 |
| | | 231.0 | 73.5 | 11.76 | 79.5 | 13.68 | 86.7 | 15.96 | 94.2 | 17.94 | 96.9 | 18.39 | 100.5 | 18.84 | 103.5 | 19.14 |
| | | 462.0 | 73.5 | 10.80 | 79.5 | 12.78 | 86.7 | 14.88 | 94.2 | 16.80 | 96.9 | 17.19 | 100.5 | 17.61 | 103.5 | 17.94 |
| | | 577.5 | 73.5 | 10.50 | 79.5 | 12.54 | 86.7 | 14.64 | 94.2 | 16.47 | 96.9 | 16.86 | 100.5 | 17.31 | 103.5 | 17.49 |
| | | 693.0 | 73.5 | 10.35 | 79.5 | 12.42 | 86.7 | 14.49 | 94.2 | 16.32 | 96.9 | 16.71 | 100.5 | 17.13 | 103.5 | 17.28 |
| | 35 | 184.8 | 73.5 | 13.29 | 79.5 | 15.45 | 86.7 | 18.06 | 94.2 | 20.31 | 96.9 | 20.76 | 100.5 | 21.27 | 103.5 | 21.66 |
| | | 231.0 | 73.5 | 13.05 | 79.5 | 15.21 | 86.7 | 17.76 | 94.2 | 19.98 | 96.9 | 20.43 | 100.5 | 20.94 | 103.5 | 21.30 |
| | | 462.0 | 73.5 | 12.03 | 79.5 | 14.25 | 86.7 | 16.53 | 94.2 | 18.63 | 96.9 | 19.08 | 100.5 | 19.59 | 103.5 | 19.98 |
| | | 577.5 | 73.5 | 11.64 | 79.5 | 13.92 | 86.7 | 16.23 | 94.2 | 18.33 | 96.9 | 18.78 | 100.5 | 19.20 | 103.5 | 19.41 |
| | | 693.0 | 73.5 | 11.46 | 79.5 | 13.77 | 86.7 | 16.05 | 94.2 | 18.15 | 96.9 | 18.60 | 100.5 | 19.02 | 103.5 | 19.11 |
| | 40 | 184.8 | 73.5 | 15.78 | 79.5 | 18.30 | 86.7 | 21.36 | 94.2 | 24.00 | 96.9 | 24.57 | 100.5 | 25.20 | 103.5 | 25.68 |
| | | 231.0 | 73.5 | 15.45 | 79.5 | 18.00 | 86.7 | 21.00 | 94.2 | 23.61 | 96.9 | 24.18 | 100.5 | 24.81 | 103.5 | 25.26 |
| | | 462.0 | 73.5 | 14.19 | 79.5 | 16.86 | 86.7 | 19.59 | 94.2 | 22.08 | 96.9 | 22.65 | 100.5 | 23.22 | 103.5 | 23.61 |
| | | 577.5 | 73.5 | 13.80 | 79.5 | 16.47 | 86.7 | 19.20 | 94.2 | 21.69 | 96.9 | 22.20 | 100.5 | 22.77 | 103.5 | 23.04 |
| | | 693.0 | 73.5 | 13.62 | 79.5 | 16.29 | 86.7 | 19.02 | 94.2 | 21.51 | 96.9 | 21.99 | 100.5 | 22.56 | 103.5 | 22.74 |
| | 45 | 184.8 | 73.5 | 18.27 | 79.5 | 21.15 | 86.7 | 24.63 | 94.2 | 27.66 | 96.9 | 28.35 | 100.5 | 29.16 | 103.5 | 29.70 |
| | | 231.0 | 73.5 | 17.88 | 79.5 | 20.79 | 86.7 | 24.24 | 94.2 | 27.24 | 96.9 | 27.93 | 100.5 | 28.68 | 103.5 | 29.19 |
| | | 462.0 | 73.5 | 16.35 | 79.5 | 19.47 | 86.7 | 22.65 | 94.2 | 25.50 | 96.9 | 26.22 | 100.5 | 26.85 | 103.5 | 27.24 |
| | | 577.5 | 73.5 | 15.96 | 79.5 | 19.02 | 86.7 | 22.20 | 94.2 | 25.05 | 96.9 | 25.65 | 100.5 | 26.34 | 103.5 | 26.64 |
| | | 693.0 | 73.5 | 15.78 | 79.5 | 18.81 | 86.7 | 21.99 | 94.2 | 24.84 | 96.9 | 25.35 | 100.5 | 26.07 | 103.5 | 26.37 |
| 60 | 10 | 184.8 | 63.0 | 3.90 | 68.1 | 4.50 | 74.1 | 5.19 | 80.7 | 5.85 | 83.1 | 6.00 | 86.1 | 6.18 | 88.8 | 6.21 |
| | | 231.0 | 63.0 | 3.81 | 68.1 | 4.41 | 74.1 | 5.07 | 80.7 | 5.76 | 83.1 | 5.88 | 86.1 | 6.06 | 88.8 | 6.12 |
| | | 462.0 | 63.0 | 3.42 | 68.1 | 4.11 | 74.1 | 4.71 | 80.7 | 5.40 | 83.1 | 5.37 | 86.1 | 5.58 | 88.8 | 5.76 |
| | | 577.5 | 63.0 | 3.30 | 68.1 | 3.99 | 74.1 | 4.65 | 80.7 | 5.25 | 83.1 | 5.31 | 86.1 | 5.43 | 88.8 | 5.49 |
| | | 693.0 | 63.0 | 3.24 | 68.1 | 3.90 | 74.1 | 4.62 | 80.7 | 5.19 | 83.1 | 5.28 | 86.1 | 5.37 | 88.8 | 5.37 |
| | 15 | 184.8 | 63.0 | 5.19 | 68.1 | 6.00 | 74.1 | 6.99 | 80.7 | 7.89 | 83.1 | 8.10 | 86.1 | 8.28 | 88.8 | 8.40 |
| | | 231.0 | 63.0 | 5.10 | 68.1 | 5.91 | 74.1 | 6.87 | 80.7 | 7.77 | 83.1 | 7.95 | 86.1 | 8.13 | 88.8 | 8.28 |
| | | 462.0 | 63.0 | 4.65 | 68.1 | 5.52 | 74.1 | 6.42 | 80.7 | 7.26 | 83.1 | 7.38 | 86.1 | 7.56 | 88.8 | 7.77 |
| | | 577.5 | 63.0 | 4.53 | 68.1 | 5.40 | 74.1 | 6.30 | 80.7 | 7.11 | 83.1 | 7.26 | 86.1 | 7.44 | 88.8 | 7.50 |
| | | 693.0 | 63.0 | 4.44 | 68.1 | 5.34 | 74.1 | 6.24 | 80.7 | 7.05 | 83.1 | 7.20 | 86.1 | 7.38 | 88.8 | 7.38 |
| | 20 | 184.8 | 63.0 | 6.36 | 68.1 | 7.35 | 74.1 | 8.58 | 80.7 | 9.69 | 83.1 | 9.96 | 86.1 | 10.14 | 88.8 | 10.35 |
| | | 231.0 | 63.0 | 6.24 | 68.1 | 7.26 | 74.1 | 8.46 | 80.7 | 9.54 | 83.1 | 9.81 | 86.1 | 9.99 | 88.8 | 10.17 |
| | | 462.0 | 63.0 | 5.73 | 68.1 | 6.81 | 74.1 | 7.95 | 80.7 | 8.91 | 83.1 | 9.15 | 86.1 | 9.36 | 88.8 | 9.54 |
| | | 577.5 | 63.0 | 5.61 | 68.1 | 6.69 | 74.1 | 7.77 | 80.7 | 8.79 | 83.1 | 8.97 | 86.1 | 9.21 | 88.8 | 9.30 |
| | | 693.0 | 63.0 | 5.52 | 68.1 | 6.63 | 74.1 | 7.68 | 80.7 | 8.73 | 83.1 | 8.88 | 86.1 | 9.15 | 88.8 | 9.15 |
| | 25 | 184.8 | 63.0 | 7.80 | 68.1 | 9.00 | 74.1 | 10.47 | 80.7 | 11.82 | 83.1 | 12.09 | 86.1 | 12.42 | 88.8 | 12.60 |
| | | 231.0 | 63.0 | 7.62 | 68.1 | 8.85 | 74.1 | 10.32 | 80.7 | 11.64 | 83.1 | 11.91 | 86.1 | 12.21 | 88.8 | 12.39 |
| | | 462.0 | 63.0 | 6.99 | 68.1 | 8.28 | 74.1 | 9.66 | 80.7 | 10.89 | 83.1 | 11.13 | 86.1 | 11.46 | 88.8 | 11.64 |
| | | 577.5 | 63.0 | 6.81 | 68.1 | 8.13 | 74.1 | 9.48 | 80.7 | 10.68 | 83.1 | 10.95 | 86.1 | 11.19 | 88.8 | 11.31 |
| | | 693.0 | 63.0 | 6.72 | 68.1 | 8.07 | 74.1 | 9.39 | 80.7 | 10.59 | 83.1 | 10.86 | 86.1 | 11.07 | 88.8 | 11.16 |
| | 30 | 184.8 | 63.0 | 9.54 | 68.1 | 11.13 | 74.1 | 12.93 | 80.7 | 14.55 | 83.1 | 14.88 | 86.1 | 15.24 | 88.8 | 15.51 |
| | | 231.0 | 63.0 | 9.36 | 68.1 | 10.95 | 74.1 | 12.72 | 80.7 | 14.31 | 83.1 | 14.64 | 86.1 | 15.00 | 88.8 | 15.27 |
| | | 462.0 | 63.0 | 8.58 | 68.1 | 10.17 | 74.1 | 11.91 | 80.7 | 13.35 | 83.1 | 13.68 | 86.1 | 14.07 | 88.8 | 14.31 |
| | | 577.5 | 63.0 | 8.40 | 68.1 | 9.99 | 74.1 | 11.64 | 80.7 | 13.11 | 83.1 | 13.41 | 86.1 | 13.80 | 88.8 | 13.92 |
| | | 693.0 | 63.0 | 8.31 | 68.1 | 9.90 | 74.1 | 11.52 | 80.7 | 12.99 | 83.1 | 13.29 | 86.1 | 13.68 | 88.8 | 13.74 |
| | 35 | 184.8 | 63.0 | 10.59 | 68.1 | 12.36 | 74.1 | 14.34 | 80.7 | 16.17 | 83.1 | 16.56 | 86.1 | 16.92 | 88.8 | 17.25 |
| | | 231.0 | 63.0 | 10.38 | 68.1 | 12.15 | 74.1 | 14.13 | 80.7 | 15.90 | 83.1 | 16.29 | 86.1 | 16.68 | 88.8 | 16.98 |
| | | 462.0 | 63.0 | 9.54 | 68.1 | 11.31 | 74.1 | 13.23 | 80.7 | 14.88 | 83.1 | 15.21 | 86.1 | 15.66 | 88.8 | 15.90 |
| | | 577.5 | 63.0 | 9.30 | 68.1 | 11.07 | 74.1 | 12.90 | 80.7 | 14.58 | 83.1 | 14.94 | 86.1 | 15.33 | 88.8 | 15.45 |
| | | 693.0 | 63.0 | 9.15 | 68.1 | 10.95 | 74.1 | 12.75 | 80.7 | 14.40 | 83.1 | 14.82 | 86.1 | 15.18 | 88.8 | 15.24 |
| | 40 | 184.8 | 63.0 | 12.60 | 68.1 | 14.61 | 74.1 | 17.01 | 80.7 | 19.14 | 83.1 | 19.59 | 86.1 | 20.10 | 88.8 | 20.43 |
| | | 231.0 | 63.0 | 12.33 | 68.1 | 14.37 | 74.1 | 16.74 | 80.7 | 18.84 | 83.1 | 19.26 | 86.1 | 19.77 | 88.8 | 20.10 |
| | | 462.0 | 63.0 | 11.31 | 68.1 | 13.41 | 74.1 | 15.66 | 80.7 | 17.61 | 83.1 | 18.00 | 86.1 | 18.51 | 88.8 | 18.84 |
| | | 577.5 | 63.0 | 11.01 | 68.1 | 13.17 | 74.1 | 15.33 | 80.7 | 17.25 | 83.1 | 17.67 | 86.1 | 18.12 | 88.8 | 18.33 |
| | | 693.0 | 63.0 | 10.86 | 68.1 | 13.05 | 74.1 | 15.18 | 80.7 | 17.04 | 83.1 | 17.52 | 86.1 | 17.94 | 88.8 | 18.06 |
| | 45 | 184.8 | 63.0 | 14.61 | 68.1 | 16.89 | 74.1 | 19.65 | 80.7 | 22.11 | 83.1 | 22.62 | 86.1 | 23.28 | 88.8 | 23.58 |
| | | 231.0 | 63.0 | 14.31 | 68.1 | 16.59 | 74.1 | 19.35 | 80.7 | 21.75 | 83.1 | 22.26 | 86.1 | 22.89 | 88.8 | 23.22 |
| | | 462.0 | 63.0 | 13.11 | 68.1 | 15.51 | 74.1 | 18.06 | 80.7 | 20.37 | 83.1 | 20.79 | 86.1 | 21.36 | 88.8 | 21.75 |
| | | 577.5 | 63.0 | 12.72 | 68.1 | 15.27 | 74.1 | 17.76 | 80.7 | 19.92 | 83.1 | 20.43 | 86.1 | 20.94 | 88.8 | 21.18 |
| | | 693.0 | 63.0 | 12.54 | 68.1 | 15.15 | 74.1 | 17.58 | 80.7 | 19.68 | 83.1 | 20.22 | 86.1 | 20.70 | 88.8 | 20.91 |
| 50 | 10 | 184.8 | 52.5 | 2.79 | 56.7 | 3.30 | 61.8 | 3.96 | 67.2 | 4.35 | 69.3 | 4.41 | 72.0 | 4.56 | 73.8 | 4.68 |
| | | 231.0 | 52.5 | 2.76 | 56.7 | 3.24 | 61.8 | 3.87 | 67.2 | 4.29 | 69.3 | 4.35 | 72.0 | 4.47 | 73.8 | 4.59 |
| | | 462.0 | 52.5 | 2.64 | 56.7 | 3.06 | 61.8 | 3.48 | 67.2 | 3.99 | 69.3 | 4.11 | 72.0 | 4.17 | 73.8 | 4.29 |
| | | 577.5 | 52.5 | 2.52 | 56.7 | 2.94 | 61.8 | 3.48 | 67.2 | 3.84 | 69.3 | 3.99 | 72.0 | 4.02 | 73.8 | 4.11 |
| | | 693.0 | 52.5 | 2.46 | 56.7 | 2.88 | 61.8 | 3.48 | 67.2 | 3.78 | 69.3 | 3.90 | 72.0 | 3.96 | 73.8 | 3.99 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Cooling Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water Flow Rate (L/min) | Indoor Air temperature (°CWB) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 14 | | 16 | | 18 | | 19 | | 20 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 15 | 184.8 | 52.5 | 3.81 | 56.7 | 4.44 | 61.8 | 5.25 | 67.2 | 5.88 | 69.3 | 6.00 | 72.0 | 6.15 | 73.8 | 6.27 |
| | | 231.0 | 52.5 | 3.75 | 56.7 | 4.38 | 61.8 | 5.16 | 67.2 | 5.79 | 69.3 | 5.91 | 72.0 | 6.03 | 73.8 | 6.18 |
| | | 462.0 | 52.5 | 3.51 | 56.7 | 4.14 | 61.8 | 4.77 | 67.2 | 5.40 | 69.3 | 5.52 | 72.0 | 5.67 | 73.8 | 5.79 |
| | | 577.5 | 52.5 | 3.36 | 56.7 | 4.02 | 61.8 | 4.71 | 67.2 | 5.28 | 69.3 | 5.40 | 72.0 | 5.52 | 73.8 | 5.61 |
| | | 693.0 | 52.5 | 3.30 | 56.7 | 3.93 | 61.8 | 4.68 | 67.2 | 5.22 | 69.3 | 5.34 | 72.0 | 5.46 | 73.8 | 5.49 |
| | 20 | 184.8 | 52.5 | 4.74 | 56.7 | 5.49 | 61.8 | 6.39 | 67.2 | 7.23 | 69.3 | 7.44 | 72.0 | 7.56 | 73.8 | 7.68 |
| | | 231.0 | 52.5 | 4.65 | 56.7 | 5.40 | 61.8 | 6.30 | 67.2 | 7.11 | 69.3 | 7.32 | 72.0 | 7.44 | 73.8 | 7.56 |
| | | 462.0 | 52.5 | 4.26 | 56.7 | 5.10 | 61.8 | 5.91 | 67.2 | 6.69 | 69.3 | 6.81 | 72.0 | 6.99 | 73.8 | 7.11 |
| | | 577.5 | 52.5 | 4.14 | 56.7 | 4.95 | 61.8 | 5.79 | 67.2 | 6.54 | 69.3 | 6.69 | 72.0 | 6.87 | 73.8 | 6.93 |
| | | 693.0 | 52.5 | 4.08 | 56.7 | 4.89 | 61.8 | 5.73 | 67.2 | 6.48 | 69.3 | 6.63 | 72.0 | 6.81 | 73.8 | 6.84 |
| | 25 | 184.8 | 52.5 | 5.76 | 56.7 | 6.72 | 61.8 | 7.83 | 67.2 | 8.79 | 69.3 | 9.06 | 72.0 | 9.24 | 73.8 | 9.45 |
| | | 231.0 | 52.5 | 5.67 | 56.7 | 6.63 | 61.8 | 7.71 | 67.2 | 8.64 | 69.3 | 8.91 | 72.0 | 9.09 | 73.8 | 9.30 |
| | | 462.0 | 52.5 | 5.22 | 56.7 | 6.18 | 61.8 | 7.20 | 67.2 | 8.13 | 69.3 | 8.34 | 72.0 | 8.52 | 73.8 | 8.64 |
| | | 577.5 | 52.5 | 5.10 | 56.7 | 6.03 | 61.8 | 7.05 | 67.2 | 7.95 | 69.3 | 8.13 | 72.0 | 8.34 | 73.8 | 8.46 |
| | | 693.0 | 52.5 | 5.04 | 56.7 | 5.97 | 61.8 | 6.99 | 67.2 | 7.86 | 69.3 | 8.04 | 72.0 | 8.25 | 73.8 | 8.37 |
| | 30 | 184.8 | 52.5 | 7.14 | 56.7 | 8.28 | 61.8 | 9.63 | 67.2 | 10.86 | 69.3 | 11.13 | 72.0 | 11.37 | 73.8 | 11.55 |
| | | 231.0 | 52.5 | 6.99 | 56.7 | 8.13 | 61.8 | 9.48 | 67.2 | 10.68 | 69.3 | 10.95 | 72.0 | 11.19 | 73.8 | 11.40 |
| | | 462.0 | 52.5 | 6.42 | 56.7 | 7.62 | 61.8 | 8.85 | 67.2 | 9.99 | 69.3 | 10.23 | 72.0 | 10.50 | 73.8 | 10.68 |
| | | 577.5 | 52.5 | 6.24 | 56.7 | 7.44 | 61.8 | 8.64 | 67.2 | 9.81 | 69.3 | 10.05 | 72.0 | 10.32 | 73.8 | 10.38 |
| | | 693.0 | 52.5 | 6.15 | 56.7 | 7.35 | 61.8 | 8.55 | 67.2 | 9.69 | 69.3 | 9.96 | 72.0 | 10.20 | 73.8 | 10.20 |
| | 35 | 184.8 | 52.5 | 7.92 | 56.7 | 9.18 | 61.8 | 10.74 | 67.2 | 12.03 | 69.3 | 12.36 | 72.0 | 12.69 | 73.8 | 12.87 |
| | | 231.0 | 52.5 | 7.77 | 56.7 | 9.03 | 61.8 | 10.56 | 67.2 | 11.82 | 69.3 | 12.15 | 72.0 | 12.48 | 73.8 | 12.66 |
| | | 462.0 | 52.5 | 7.11 | 56.7 | 8.46 | 61.8 | 9.87 | 67.2 | 11.07 | 69.3 | 11.31 | 72.0 | 11.64 | 73.8 | 11.82 |
| | | 577.5 | 52.5 | 6.93 | 56.7 | 8.28 | 61.8 | 9.66 | 67.2 | 10.89 | 69.3 | 11.13 | 72.0 | 11.46 | 73.8 | 11.52 |
| | | 693.0 | 52.5 | 6.84 | 56.7 | 8.16 | 61.8 | 9.57 | 67.2 | 10.77 | 69.3 | 11.04 | 72.0 | 11.37 | 73.8 | 11.37 |
| | 40 | 184.8 | 52.5 | 9.33 | 56.7 | 10.86 | 61.8 | 12.69 | 67.2 | 14.31 | 69.3 | 14.61 | 72.0 | 15.00 | 73.8 | 15.24 |
| | | 231.0 | 52.5 | 9.15 | 56.7 | 10.68 | 61.8 | 12.48 | 67.2 | 14.07 | 69.3 | 14.37 | 72.0 | 14.76 | 73.8 | 15.00 |
| | | 462.0 | 52.5 | 8.46 | 56.7 | 9.99 | 61.8 | 11.64 | 67.2 | 13.11 | 69.3 | 13.41 | 72.0 | 13.80 | 73.8 | 14.07 |
| | | 577.5 | 52.5 | 8.22 | 56.7 | 9.81 | 61.8 | 11.46 | 67.2 | 12.84 | 69.3 | 13.17 | 72.0 | 13.56 | 73.8 | 13.68 |
| | | 693.0 | 52.5 | 8.07 | 56.7 | 9.69 | 61.8 | 11.37 | 67.2 | 12.72 | 69.3 | 13.05 | 72.0 | 13.41 | 73.8 | 13.50 |
| | 45 | 184.8 | 52.5 | 10.74 | 56.7 | 12.54 | 61.8 | 14.61 | 67.2 | 16.56 | 69.3 | 16.89 | 72.0 | 17.31 | 73.8 | 17.64 |
| | | 231.0 | 52.5 | 10.56 | 56.7 | 12.33 | 61.8 | 14.37 | 67.2 | 16.29 | 69.3 | 16.59 | 72.0 | 17.04 | 73.8 | 17.37 |
| | | 462.0 | 52.5 | 9.81 | 56.7 | 11.52 | 61.8 | 13.41 | 67.2 | 15.15 | 69.3 | 15.51 | 72.0 | 15.96 | 73.8 | 16.29 |
| | | 577.5 | 52.5 | 9.48 | 56.7 | 11.31 | 61.8 | 13.23 | 67.2 | 14.82 | 69.3 | 15.21 | 72.0 | 15.66 | 73.8 | 15.84 |
| | | 693.0 | 52.5 | 9.33 | 56.7 | 11.22 | 61.8 | 13.14 | 67.2 | 14.67 | 69.3 | 15.06 | 72.0 | 15.48 | 73.8 | 15.63 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## 7.1.2 Heating Capacity

### ARWN080BAS4

**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 30.8 | 11.9 | 4.54 | 11.8 | 4.28 | 11.8 | 3.98 | 11.6 | 3.87 | 11.7 | 3.76 | 11.4 | 3.38 |
| | | 38.5 | 12.3 | 4.62 | 12.2 | 4.36 | 12.2 | 4.07 | 12.0 | 3.95 | 12.1 | 3.85 | 11.8 | 3.45 |
| | | 77.0 | 13.9 | 4.94 | 13.8 | 4.69 | 13.8 | 4.41 | 13.6 | 4.29 | 13.7 | 4.17 | 13.4 | 3.74 |
| | | 96.3 | 15.4 | 5.25 | 15.3 | 5.01 | 15.2 | 4.76 | 15.0 | 4.63 | 15.2 | 4.50 | 14.8 | 4.03 |
| | | 115.5 | 16.2 | 5.41 | 16.0 | 5.18 | 15.9 | 4.93 | 15.7 | 4.81 | 15.9 | 4.66 | 15.5 | 4.18 |
| | 0 | 30.8 | 21.3 | 6.22 | 20.8 | 6.03 | 20.4 | 5.83 | 19.9 | 5.67 | 20.0 | 5.51 | 19.1 | 4.94 |
| | | 38.5 | 21.4 | 6.23 | 20.9 | 6.05 | 20.5 | 5.85 | 20.0 | 5.69 | 20.1 | 5.53 | 19.2 | 4.95 |
| | | 77.0 | 21.9 | 6.30 | 21.4 | 6.11 | 21.0 | 5.92 | 20.5 | 5.75 | 20.6 | 5.59 | 19.7 | 5.01 |
| | | 96.3 | 22.3 | 6.30 | 21.7 | 6.11 | 21.3 | 5.92 | 20.8 | 5.75 | 20.9 | 5.59 | 19.9 | 5.01 |
| | | 115.5 | 22.4 | 6.30 | 21.9 | 6.11 | 21.5 | 5.92 | 21.0 | 5.75 | 21.0 | 5.59 | 20.1 | 5.01 |
| | 5 | 30.8 | 30.7 | 6.68 | 30.2 | 6.52 | 29.6 | 6.35 | 28.8 | 6.17 | 28.1 | 6.00 | 26.5 | 5.37 |
| | | 38.5 | 30.8 | 6.71 | 30.3 | 6.55 | 29.6 | 6.38 | 28.8 | 6.20 | 28.1 | 6.03 | 26.5 | 5.40 |
| | | 77.0 | 31.2 | 6.83 | 30.5 | 6.67 | 29.6 | 6.51 | 28.8 | 6.33 | 28.1 | 6.15 | 26.5 | 5.51 |
| | | 96.3 | 31.4 | 6.88 | 30.6 | 6.71 | 29.6 | 6.55 | 28.8 | 6.38 | 28.1 | 6.20 | 26.5 | 5.55 |
| | | 115.5 | 31.5 | 6.90 | 30.6 | 6.73 | 29.6 | 6.58 | 28.8 | 6.40 | 28.1 | 6.22 | 26.5 | 5.57 |
| | 10 | 30.8 | 30.7 | 6.08 | 30.2 | 5.88 | 29.5 | 5.77 | 28.7 | 5.64 | 28.0 | 5.44 | 26.4 | 4.91 |
| | | 38.5 | 30.9 | 6.07 | 30.4 | 5.88 | 29.6 | 5.78 | 28.8 | 5.63 | 28.1 | 5.44 | 26.5 | 4.91 |
| | | 77.0 | 31.6 | 6.02 | 30.9 | 5.90 | 30.1 | 5.82 | 29.3 | 5.63 | 28.5 | 5.43 | 26.9 | 4.89 |
| | | 96.3 | 31.8 | 6.11 | 31.1 | 5.99 | 30.3 | 5.84 | 29.4 | 5.65 | 28.7 | 5.51 | 27.1 | 5.13 |
| | | 115.5 | 31.9 | 6.15 | 31.2 | 6.03 | 30.4 | 5.86 | 29.5 | 5.66 | 28.8 | 5.56 | 27.2 | 5.24 |
| | 15 | 30.8 | 30.8 | 5.48 | 30.2 | 5.25 | 29.4 | 5.19 | 28.6 | 5.10 | 27.8 | 4.89 | 26.3 | 4.45 |
| | | 38.5 | 31.0 | 5.43 | 30.5 | 5.22 | 29.6 | 5.18 | 28.8 | 5.07 | 28.1 | 4.85 | 26.5 | 4.41 |
| | | 77.0 | 32.0 | 5.21 | 31.4 | 5.13 | 30.5 | 5.13 | 29.8 | 4.92 | 28.9 | 4.70 | 27.4 | 4.27 |
| | | 96.3 | 32.2 | 5.34 | 31.7 | 5.25 | 30.9 | 5.13 | 30.1 | 4.92 | 29.3 | 4.83 | 27.7 | 4.70 |
| | | 115.5 | 32.3 | 5.40 | 31.8 | 5.31 | 31.1 | 5.13 | 30.2 | 4.92 | 29.5 | 4.90 | 27.9 | 4.92 |
| | 20 | 30.8 | 31.9 | 5.03 | 31.3 | 4.79 | 30.5 | 4.69 | 29.7 | 4.54 | 28.8 | 4.44 | 27.1 | 4.30 |
| | | 38.5 | 32.2 | 4.99 | 31.6 | 4.79 | 30.8 | 4.68 | 29.9 | 4.56 | 29.1 | 4.47 | 27.4 | 4.27 |
| | | 77.0 | 33.2 | 4.85 | 32.6 | 4.77 | 31.7 | 4.67 | 30.8 | 4.63 | 30.1 | 4.59 | 28.4 | 4.12 |
| | | 96.3 | 33.3 | 4.85 | 32.8 | 4.77 | 32.1 | 4.70 | 31.2 | 4.63 | 30.3 | 4.59 | 28.6 | 4.38 |
| | | 115.5 | 33.4 | 4.85 | 33.0 | 4.77 | 32.3 | 4.71 | 31.3 | 4.63 | 30.4 | 4.59 | 28.7 | 4.52 |
| | 25 | 30.8 | 33.7 | 4.79 | 32.8 | 4.65 | 32.1 | 4.58 | 31.5 | 4.50 | 30.8 | 4.43 | 29.0 | 4.14 |
| | | 38.5 | 33.7 | 4.77 | 32.8 | 4.65 | 32.1 | 4.56 | 31.5 | 4.48 | 30.8 | 4.41 | 29.0 | 4.12 |
| | | 77.0 | 33.7 | 4.70 | 32.8 | 4.62 | 32.1 | 4.48 | 31.5 | 4.41 | 30.8 | 4.34 | 29.0 | 4.05 |
| | | 96.3 | 33.7 | 4.63 | 32.8 | 4.50 | 32.1 | 4.41 | 31.5 | 4.34 | 30.8 | 4.27 | 29.0 | 3.98 |
| | | 115.5 | 33.7 | 4.60 | 32.8 | 4.44 | 32.1 | 4.38 | 31.5 | 4.30 | 30.8 | 4.23 | 29.0 | 3.95 |
| | 30 | 30.8 | 33.7 | 4.67 | 32.8 | 4.44 | 32.1 | 4.40 | 31.5 | 4.28 | 30.8 | 4.24 | 29.0 | 3.94 |
| | | 38.5 | 33.7 | 4.63 | 32.8 | 4.43 | 32.1 | 4.37 | 31.5 | 4.27 | 30.8 | 4.20 | 29.0 | 3.91 |
| | | 77.0 | 33.7 | 4.48 | 32.8 | 4.40 | 32.1 | 4.27 | 31.5 | 4.20 | 30.8 | 4.05 | 29.0 | 3.76 |
| | | 96.3 | 33.7 | 4.41 | 32.8 | 4.28 | 32.1 | 4.20 | 31.5 | 4.12 | 30.8 | 4.05 | 29.0 | 3.76 |
| | | 115.5 | 33.7 | 4.38 | 32.8 | 4.22 | 32.1 | 4.16 | 31.5 | 4.09 | 30.8 | 4.05 | 29.0 | 3.76 |
| | 35 | 30.8 | 33.7 | 4.45 | 32.8 | 4.30 | 32.1 | 4.22 | 31.5 | 4.07 | 30.8 | 3.92 | 29.0 | 3.65 |
| | | 38.5 | 33.7 | 4.41 | 32.8 | 4.28 | 32.1 | 4.20 | 31.5 | 4.05 | 30.8 | 3.91 | 29.0 | 3.61 |
| | | 77.0 | 33.7 | 4.27 | 32.8 | 4.18 | 32.1 | 4.12 | 31.5 | 3.98 | 30.8 | 3.83 | 29.0 | 3.47 |
| | | 96.3 | 33.7 | 4.27 | 32.8 | 4.14 | 32.1 | 4.05 | 31.5 | 3.91 | 30.8 | 3.76 | 29.0 | 3.47 |
| | | 115.5 | 33.7 | 4.27 | 32.8 | 4.12 | 32.1 | 4.01 | 31.5 | 3.87 | 30.8 | 3.73 | 29.0 | 3.47 |
| | 40 | 30.8 | 33.7 | 4.30 | 32.8 | 4.16 | 32.1 | 4.08 | 31.5 | 3.94 | 30.8 | 3.80 | 29.0 | 3.43 |
| | | 38.5 | 33.7 | 4.27 | 32.8 | 4.14 | 32.1 | 4.05 | 31.5 | 3.91 | 30.8 | 3.76 | 29.0 | 3.40 |
| | | 77.0 | 33.7 | 4.12 | 32.8 | 4.03 | 32.1 | 3.91 | 31.5 | 3.76 | 30.8 | 3.61 | 29.0 | 3.26 |
| | | 96.3 | 33.7 | 4.05 | 32.8 | 3.97 | 32.1 | 3.91 | 31.5 | 3.76 | 30.8 | 3.61 | 29.0 | 3.26 |
| | | 115.5 | 33.7 | 4.01 | 32.8 | 3.93 | 32.1 | 3.91 | 31.5 | 3.76 | 30.8 | 3.61 | 29.0 | 3.26 |
| | 45 | 30.8 | 33.7 | 4.16 | 32.8 | 4.02 | 32.1 | 3.96 | 31.5 | 3.82 | 30.8 | 3.67 | 29.0 | 3.22 |
| | | 38.5 | 33.7 | 4.12 | 32.8 | 4.00 | 32.1 | 3.91 | 31.5 | 3.76 | 30.8 | 3.61 | 29.0 | 3.18 |
| | | 77.0 | 33.7 | 3.98 | 32.8 | 3.89 | 32.1 | 3.69 | 31.5 | 3.55 | 30.8 | 3.40 | 29.0 | 3.04 |
| | | 96.3 | 33.7 | 3.83 | 32.8 | 3.79 | 32.1 | 3.76 | 31.5 | 3.61 | 30.8 | 3.47 | 29.0 | 3.04 |
| | | 115.5 | 33.7 | 3.76 | 32.8 | 3.74 | 32.1 | 3.80 | 31.5 | 3.65 | 30.8 | 3.51 | 29.0 | 3.04 |
| 120 | -5 | 30.8 | 11.3 | 4.54 | 11.2 | 4.28 | 11.2 | 3.98 | 11.0 | 3.82 | 11.1 | 3.71 | 10.8 | 3.32 |
| | | 38.5 | 11.7 | 4.62 | 11.6 | 4.36 | 11.6 | 4.07 | 11.4 | 3.90 | 11.5 | 3.79 | 11.2 | 3.39 |
| | | 77.0 | 13.3 | 4.94 | 13.2 | 4.69 | 13.1 | 4.41 | 12.9 | 4.23 | 13.0 | 4.11 | 12.7 | 3.68 |
| | | 96.3 | 14.7 | 5.25 | 14.5 | 5.01 | 14.4 | 4.76 | 14.3 | 4.56 | 14.4 | 4.43 | 14.0 | 3.97 |
| | | 115.5 | 15.3 | 5.41 | 15.2 | 5.18 | 15.1 | 4.93 | 15.0 | 4.73 | 15.1 | 4.59 | 14.7 | 4.11 |
| | 0 | 30.8 | 20.3 | 6.22 | 19.8 | 6.03 | 19.3 | 5.83 | 18.9 | 5.59 | 18.9 | 5.43 | 18.1 | 4.86 |
| | | 38.5 | 20.4 | 6.23 | 19.9 | 6.05 | 19.5 | 5.85 | 19.1 | 5.60 | 19.1 | 5.45 | 18.2 | 4.87 |
| | | 77.0 | 20.8 | 6.30 | 20.3 | 6.11 | 19.9 | 5.92 | 19.5 | 5.67 | 19.5 | 5.51 | 18.6 | 4.93 |
| | | 96.3 | 21.2 | 6.30 | 20.7 | 6.11 | 20.2 | 5.92 | 19.8 | 5.67 | 19.8 | 5.51 | 18.9 | 4.93 |
| | | 115.5 | 21.3 | 6.30 | 20.8 | 6.11 | 20.4 | 5.92 | 20.0 | 5.67 | 19.9 | 5.51 | 19.1 | 4.93 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 30.8 | 29.2 | 6.68 | 28.8 | 6.52 | 28.1 | 6.35 | 27.5 | 6.08 | 26.6 | 5.91 | 25.1 | 5.29 |
| | | 38.5 | 29.3 | 6.71 | 28.8 | 6.55 | 28.1 | 6.38 | 27.5 | 6.11 | 26.6 | 5.94 | 25.1 | 5.32 |
| | | 77.0 | 29.7 | 6.83 | 29.0 | 6.67 | 28.1 | 6.51 | 27.5 | 6.24 | 26.6 | 6.06 | 25.1 | 5.43 |
| | | 96.3 | 29.9 | 6.88 | 28.9 | 6.71 | 28.1 | 6.55 | 27.5 | 6.29 | 26.6 | 6.11 | 25.1 | 5.46 |
| | | 115.5 | 30.0 | 6.90 | 28.8 | 6.73 | 28.1 | 6.58 | 27.5 | 6.31 | 26.6 | 6.13 | 25.1 | 5.48 |
| | 10 | 30.8 | 29.3 | 6.00 | 28.8 | 5.84 | 28.1 | 5.72 | 27.4 | 5.54 | 26.5 | 5.36 | 25.1 | 4.82 |
| | | 38.5 | 29.4 | 6.02 | 28.9 | 5.86 | 28.1 | 5.74 | 27.5 | 5.55 | 26.6 | 5.36 | 25.1 | 4.83 |
| | | 77.0 | 30.0 | 6.11 | 29.3 | 5.95 | 28.4 | 5.82 | 27.8 | 5.58 | 26.9 | 5.34 | 25.4 | 4.85 |
| | | 96.3 | 30.1 | 6.08 | 29.3 | 5.95 | 28.6 | 5.84 | 27.9 | 5.60 | 27.0 | 5.37 | 25.5 | 5.01 |
| | | 115.5 | 30.2 | 6.07 | 29.2 | 5.95 | 28.6 | 5.86 | 27.9 | 5.62 | 27.0 | 5.38 | 25.6 | 5.10 |
| | 15 | 30.8 | 29.4 | 5.32 | 28.8 | 5.17 | 28.0 | 5.09 | 27.3 | 5.01 | 26.4 | 4.81 | 25.0 | 4.36 |
| | | 38.5 | 29.6 | 5.34 | 29.0 | 5.18 | 28.1 | 5.10 | 27.5 | 4.99 | 26.6 | 4.77 | 25.1 | 4.34 |
| | | 77.0 | 30.2 | 5.38 | 29.7 | 5.22 | 28.8 | 5.13 | 28.1 | 4.92 | 27.1 | 4.63 | 25.7 | 4.27 |
| | | 96.3 | 30.4 | 5.30 | 29.7 | 5.18 | 29.0 | 5.13 | 28.3 | 4.92 | 27.4 | 4.63 | 25.9 | 4.56 |
| | | 115.5 | 30.5 | 5.26 | 29.6 | 5.16 | 29.1 | 5.13 | 28.4 | 4.92 | 27.5 | 4.63 | 26.0 | 4.70 |
| | 20 | 30.8 | 30.2 | 4.79 | 29.6 | 4.58 | 28.7 | 4.46 | 28.0 | 4.40 | 27.0 | 4.34 | 25.6 | 4.12 |
| | | 38.5 | 30.4 | 4.79 | 29.8 | 4.60 | 28.9 | 4.48 | 28.1 | 4.41 | 27.2 | 4.34 | 25.7 | 4.11 |
| | | 77.0 | 31.2 | 4.79 | 30.5 | 4.67 | 29.5 | 4.56 | 28.8 | 4.48 | 27.9 | 4.33 | 26.3 | 4.05 |
| | | 96.3 | 31.3 | 4.74 | 30.5 | 4.63 | 29.8 | 4.56 | 29.0 | 4.48 | 28.1 | 4.34 | 26.5 | 4.20 |
| | | 115.5 | 31.4 | 4.72 | 30.5 | 4.61 | 29.9 | 4.56 | 29.1 | 4.48 | 28.1 | 4.35 | 26.6 | 4.27 |
| | 25 | 30.8 | 31.7 | 4.53 | 30.8 | 4.32 | 29.8 | 4.24 | 29.1 | 4.14 | 28.4 | 4.07 | 26.8 | 3.78 |
| | | 38.5 | 31.7 | 4.51 | 30.8 | 4.31 | 29.8 | 4.23 | 29.1 | 4.12 | 28.4 | 4.05 | 26.8 | 3.76 |
| | | 77.0 | 31.8 | 4.44 | 30.8 | 4.28 | 29.8 | 4.20 | 29.1 | 4.05 | 28.4 | 3.98 | 26.8 | 3.69 |
| | | 96.3 | 31.9 | 4.28 | 30.8 | 4.17 | 29.8 | 4.12 | 29.1 | 4.05 | 28.4 | 3.91 | 26.8 | 3.69 |
| | | 115.5 | 31.9 | 4.20 | 30.8 | 4.11 | 29.8 | 4.09 | 29.1 | 4.05 | 28.4 | 3.87 | 26.8 | 3.69 |
| | 30 | 30.8 | 31.9 | 4.33 | 30.8 | 4.12 | 29.8 | 4.00 | 29.1 | 3.85 | 28.4 | 3.80 | 26.8 | 3.49 |
| | | 38.5 | 31.9 | 4.30 | 30.8 | 4.09 | 29.8 | 3.98 | 29.1 | 3.83 | 28.4 | 3.76 | 26.8 | 3.47 |
| | | 77.0 | 31.9 | 4.15 | 30.8 | 4.00 | 29.8 | 3.91 | 29.1 | 3.76 | 28.4 | 3.61 | 26.8 | 3.40 |
| | | 96.3 | 31.9 | 4.02 | 30.8 | 3.91 | 29.8 | 3.83 | 29.1 | 3.76 | 28.4 | 3.61 | 26.8 | 3.33 |
| | | 115.5 | 31.9 | 3.95 | 30.8 | 3.86 | 29.8 | 3.79 | 29.1 | 3.76 | 28.4 | 3.61 | 26.8 | 3.30 |
| | 35 | 30.8 | 31.9 | 4.14 | 30.8 | 3.91 | 29.8 | 3.80 | 29.1 | 3.65 | 28.4 | 3.51 | 26.8 | 3.20 |
| | | 38.5 | 31.9 | 4.08 | 30.8 | 3.88 | 29.8 | 3.76 | 29.1 | 3.61 | 28.4 | 3.47 | 26.8 | 3.18 |
| | | 77.0 | 31.9 | 3.85 | 30.8 | 3.73 | 29.8 | 3.61 | 29.1 | 3.47 | 28.4 | 3.33 | 26.8 | 3.11 |
| | | 96.3 | 31.9 | 3.80 | 30.8 | 3.70 | 29.8 | 3.61 | 29.1 | 3.47 | 28.4 | 3.33 | 26.8 | 3.04 |
| | | 115.5 | 31.9 | 3.78 | 30.8 | 3.69 | 29.8 | 3.61 | 29.1 | 3.47 | 28.4 | 3.33 | 26.8 | 3.00 |
| | 40 | 30.8 | 31.9 | 4.01 | 30.8 | 3.73 | 29.8 | 3.58 | 29.1 | 3.43 | 28.4 | 3.29 | 26.8 | 2.98 |
| | | 38.5 | 31.9 | 3.94 | 30.8 | 3.69 | 29.8 | 3.55 | 29.1 | 3.40 | 28.4 | 3.26 | 26.8 | 2.96 |
| | | 77.0 | 31.9 | 3.63 | 30.8 | 3.52 | 29.8 | 3.40 | 29.1 | 3.26 | 28.4 | 3.11 | 26.8 | 2.90 |
| | | 96.3 | 31.9 | 3.58 | 30.8 | 3.47 | 29.8 | 3.40 | 29.1 | 3.26 | 28.4 | 3.11 | 26.8 | 2.82 |
| | | 115.5 | 31.9 | 3.56 | 30.8 | 3.45 | 29.8 | 3.40 | 29.1 | 3.26 | 28.4 | 3.11 | 26.8 | 2.78 |
| | 45 | 30.8 | 31.9 | 3.89 | 30.8 | 3.55 | 29.8 | 3.37 | 29.1 | 3.22 | 28.4 | 3.07 | 26.8 | 2.76 |
| | | 38.5 | 31.9 | 3.79 | 30.8 | 3.50 | 29.8 | 3.33 | 29.1 | 3.18 | 28.4 | 3.04 | 26.8 | 2.75 |
| | | 77.0 | 31.9 | 3.41 | 30.8 | 3.30 | 29.8 | 3.18 | 29.1 | 3.04 | 28.4 | 2.90 | 26.8 | 2.68 |
| | | 96.3 | 31.9 | 3.37 | 30.8 | 3.24 | 29.8 | 3.18 | 29.1 | 3.04 | 28.4 | 2.90 | 26.8 | 2.60 |
| | | 115.5 | 31.9 | 3.34 | 30.8 | 3.21 | 29.8 | 3.18 | 29.1 | 3.04 | 28.4 | 2.90 | 26.8 | 2.57 |
| 110 | -5 | 30.8 | 10.7 | 4.60 | 10.7 | 4.28 | 10.6 | 3.98 | 10.5 | 3.82 | 10.5 | 3.71 | 10.3 | 3.32 |
| | | 38.5 | 11.1 | 4.68 | 11.0 | 4.36 | 10.9 | 4.07 | 10.8 | 3.90 | 10.9 | 3.79 | 10.6 | 3.39 |
| | | 77.0 | 12.5 | 5.00 | 12.5 | 4.69 | 12.4 | 4.41 | 12.3 | 4.23 | 12.3 | 4.11 | 12.0 | 3.68 |
| | | 96.3 | 13.9 | 5.32 | 13.8 | 5.01 | 13.7 | 4.76 | 13.5 | 4.56 | 13.5 | 4.43 | 13.3 | 3.97 |
| | | 115.5 | 14.5 | 5.48 | 14.4 | 5.18 | 14.3 | 4.93 | 14.2 | 4.73 | 14.2 | 4.59 | 13.9 | 4.11 |
| | 0 | 30.8 | 19.2 | 6.30 | 18.7 | 6.03 | 18.3 | 5.83 | 18.0 | 5.59 | 17.8 | 5.43 | 17.2 | 4.86 |
| | | 38.5 | 19.3 | 6.32 | 18.8 | 6.05 | 18.4 | 5.85 | 18.1 | 5.60 | 17.9 | 5.45 | 17.3 | 4.87 |
| | | 77.0 | 19.7 | 6.38 | 19.3 | 6.11 | 18.9 | 5.92 | 18.5 | 5.67 | 18.4 | 5.51 | 17.7 | 4.93 |
| | | 96.3 | 20.0 | 6.38 | 19.6 | 6.11 | 19.2 | 5.92 | 18.8 | 5.67 | 18.6 | 5.51 | 17.9 | 4.93 |
| | | 115.5 | 20.2 | 6.38 | 19.8 | 6.11 | 19.3 | 5.92 | 18.9 | 5.67 | 18.8 | 5.51 | 18.0 | 4.93 |
| | 5 | 30.8 | 27.9 | 6.77 | 27.3 | 6.52 | 26.6 | 6.35 | 26.0 | 6.08 | 25.0 | 5.91 | 23.8 | 5.29 |
| | | 38.5 | 28.0 | 6.80 | 27.3 | 6.55 | 26.7 | 6.38 | 26.0 | 6.11 | 25.0 | 5.94 | 23.8 | 5.32 |
| | | 77.0 | 28.4 | 6.92 | 27.5 | 6.67 | 26.7 | 6.51 | 26.0 | 6.24 | 25.0 | 6.06 | 23.8 | 5.43 |
| | | 96.3 | 28.6 | 6.97 | 27.6 | 6.71 | 26.7 | 6.55 | 26.0 | 6.29 | 25.0 | 6.11 | 23.8 | 5.46 |
| | | 115.5 | 28.7 | 6.99 | 27.6 | 6.73 | 26.7 | 6.58 | 26.0 | 6.31 | 25.0 | 6.13 | 23.8 | 5.48 |
| | 10 | 30.8 | 28.0 | 6.07 | 27.4 | 5.86 | 26.6 | 5.74 | 26.0 | 5.54 | 25.0 | 5.36 | 23.8 | 4.82 |
| | | 38.5 | 28.2 | 6.08 | 27.4 | 5.88 | 26.7 | 5.75 | 26.0 | 5.55 | 25.0 | 5.36 | 23.8 | 4.83 |
| | | 77.0 | 28.6 | 6.13 | 27.7 | 5.95 | 26.8 | 5.82 | 26.2 | 5.58 | 25.2 | 5.34 | 23.9 | 4.85 |
| | | 96.3 | 28.7 | 6.13 | 27.8 | 5.95 | 26.9 | 5.81 | 26.3 | 5.57 | 25.2 | 5.37 | 24.0 | 4.90 |
| | | 115.5 | 28.8 | 6.13 | 27.9 | 5.95 | 27.0 | 5.80 | 26.3 | 5.56 | 25.3 | 5.38 | 24.0 | 4.93 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 30.8 | 28.1 | 5.37 | 27.4 | 5.22 | 26.6 | 5.13 | 26.0 | 5.01 | 25.0 | 4.81 | 23.8 | 4.36 |
| | | 38.5 | 28.2 | 5.37 | 27.5 | 5.22 | 26.7 | 5.13 | 26.0 | 4.99 | 25.0 | 4.77 | 23.8 | 4.34 |
| | | 77.0 | 28.7 | 5.34 | 27.9 | 5.22 | 27.0 | 5.13 | 26.3 | 4.92 | 25.4 | 4.63 | 24.1 | 4.27 |
| | | 96.3 | 28.9 | 5.30 | 28.0 | 5.18 | 27.1 | 5.07 | 26.4 | 4.85 | 25.4 | 4.63 | 24.2 | 4.34 |
| | | 115.5 | 29.0 | 5.28 | 28.1 | 5.16 | 27.2 | 5.03 | 26.5 | 4.81 | 25.5 | 4.63 | 24.3 | 4.38 |
| | 20 | 30.8 | 28.7 | 4.64 | 27.9 | 4.53 | 27.0 | 4.41 | 26.2 | 4.34 | 25.3 | 4.22 | 24.0 | 3.94 |
| | | 38.5 | 28.8 | 4.65 | 28.0 | 4.53 | 27.1 | 4.41 | 26.3 | 4.34 | 25.4 | 4.20 | 24.1 | 3.94 |
| | | 77.0 | 29.4 | 4.68 | 28.3 | 4.53 | 27.4 | 4.41 | 26.7 | 4.34 | 25.7 | 4.12 | 24.4 | 3.91 |
| | | 96.3 | 29.6 | 4.68 | 28.6 | 4.53 | 27.5 | 4.41 | 26.8 | 4.27 | 25.8 | 4.12 | 24.5 | 3.91 |
| | | 115.5 | 29.7 | 4.68 | 28.7 | 4.53 | 27.6 | 4.41 | 26.9 | 4.23 | 25.9 | 4.12 | 24.5 | 3.91 |
| | 25 | 30.8 | 29.5 | 4.22 | 28.7 | 4.07 | 27.5 | 4.00 | 26.9 | 3.85 | 26.0 | 3.71 | 24.6 | 3.40 |
| | | 38.5 | 29.6 | 4.21 | 28.7 | 4.05 | 27.5 | 3.98 | 26.9 | 3.83 | 26.0 | 3.69 | 24.6 | 3.40 |
| | | 77.0 | 29.8 | 4.18 | 28.7 | 3.98 | 27.5 | 3.91 | 26.9 | 3.76 | 26.0 | 3.61 | 24.6 | 3.40 |
| | | 96.3 | 30.0 | 4.18 | 28.7 | 4.00 | 27.5 | 3.83 | 26.9 | 3.76 | 26.0 | 3.55 | 24.6 | 3.33 |
| | | 115.5 | 30.1 | 4.18 | 28.7 | 4.00 | 27.5 | 3.79 | 26.9 | 3.76 | 26.0 | 3.51 | 24.6 | 3.30 |
| | 30 | 30.8 | 30.0 | 3.85 | 28.7 | 3.71 | 27.5 | 3.57 | 26.9 | 3.49 | 26.0 | 3.27 | 24.6 | 3.06 |
| | | 38.5 | 30.0 | 3.83 | 28.7 | 3.69 | 27.5 | 3.55 | 26.9 | 3.47 | 26.0 | 3.26 | 24.6 | 3.04 |
| | | 77.0 | 30.0 | 3.76 | 28.7 | 3.61 | 27.5 | 3.47 | 26.9 | 3.40 | 26.0 | 3.18 | 24.6 | 2.96 |
| | | 96.3 | 30.0 | 3.73 | 28.7 | 3.55 | 27.5 | 3.40 | 26.9 | 3.33 | 26.0 | 3.18 | 24.6 | 2.96 |
| | | 115.5 | 30.0 | 3.72 | 28.7 | 3.51 | 27.5 | 3.36 | 26.9 | 3.30 | 26.0 | 3.18 | 24.6 | 2.96 |
| | 35 | 30.8 | 30.0 | 3.65 | 28.7 | 3.41 | 27.5 | 3.27 | 26.9 | 3.13 | 26.0 | 2.98 | 24.6 | 2.76 |
| | | 38.5 | 30.0 | 3.61 | 28.7 | 3.40 | 27.5 | 3.26 | 26.9 | 3.11 | 26.0 | 2.96 | 24.6 | 2.75 |
| | | 77.0 | 30.0 | 3.47 | 28.7 | 3.33 | 27.5 | 3.18 | 26.9 | 3.04 | 26.0 | 2.90 | 24.6 | 2.68 |
| | | 96.3 | 30.0 | 3.38 | 28.7 | 3.26 | 27.5 | 3.11 | 26.9 | 3.04 | 26.0 | 2.90 | 24.6 | 2.68 |
| | | 115.5 | 30.0 | 3.34 | 28.7 | 3.22 | 27.5 | 3.08 | 26.9 | 3.04 | 26.0 | 2.90 | 24.6 | 2.68 |
| | 40 | 30.8 | 30.0 | 3.43 | 28.7 | 3.29 | 27.5 | 3.07 | 26.9 | 2.91 | 26.0 | 2.76 | 24.6 | 2.55 |
| | | 38.5 | 30.0 | 3.40 | 28.7 | 3.26 | 27.5 | 3.04 | 26.9 | 2.90 | 26.0 | 2.75 | 24.6 | 2.53 |
| | | 77.0 | 30.0 | 3.26 | 28.7 | 3.11 | 27.5 | 2.90 | 26.9 | 2.82 | 26.0 | 2.68 | 24.6 | 2.46 |
| | | 96.3 | 30.0 | 3.21 | 28.7 | 3.04 | 27.5 | 2.90 | 26.9 | 2.75 | 26.0 | 2.60 | 24.6 | 2.39 |
| | | 115.5 | 30.0 | 3.19 | 28.7 | 3.00 | 27.5 | 2.90 | 26.9 | 2.71 | 26.0 | 2.57 | 24.6 | 2.35 |
| | 45 | 30.8 | 30.0 | 3.22 | 28.7 | 3.17 | 27.5 | 2.88 | 26.9 | 2.70 | 26.0 | 2.55 | 24.6 | 2.33 |
| | | 38.5 | 30.0 | 3.18 | 28.7 | 3.11 | 27.5 | 2.82 | 26.9 | 2.68 | 26.0 | 2.53 | 24.6 | 2.31 |
| | | 77.0 | 30.0 | 3.04 | 28.7 | 2.90 | 27.5 | 2.60 | 26.9 | 2.60 | 26.0 | 2.46 | 24.6 | 2.24 |
| | | 96.3 | 30.0 | 3.04 | 28.7 | 2.82 | 27.5 | 2.68 | 26.9 | 2.46 | 26.0 | 2.31 | 24.6 | 2.10 |
| | | 115.5 | 30.0 | 3.04 | 28.7 | 2.78 | 27.5 | 2.72 | 26.9 | 2.39 | 26.0 | 2.24 | 24.6 | 2.02 |
| 100 | -5 | 30.8 | 10.1 | 4.60 | 10.1 | 4.34 | 10.0 | 3.98 | 9.9 | 3.82 | 9.8 | 3.65 | 9.6 | 3.32 |
| | | 38.5 | 10.5 | 4.68 | 10.4 | 4.42 | 10.4 | 4.07 | 10.3 | 3.90 | 10.2 | 3.73 | 10.0 | 3.39 |
| | | 77.0 | 11.9 | 5.00 | 11.8 | 4.75 | 11.7 | 4.41 | 11.6 | 4.23 | 11.5 | 4.05 | 11.3 | 3.68 |
| | | 96.3 | 13.1 | 5.32 | 13.0 | 5.08 | 12.9 | 4.76 | 12.8 | 4.56 | 12.7 | 4.36 | 12.5 | 3.97 |
| | | 115.5 | 13.7 | 5.48 | 13.6 | 5.25 | 13.6 | 4.93 | 13.4 | 4.73 | 13.3 | 4.52 | 13.1 | 4.11 |
| | 0 | 30.8 | 18.1 | 6.30 | 17.7 | 6.11 | 17.3 | 5.83 | 17.0 | 5.59 | 16.7 | 5.35 | 16.2 | 4.86 |
| | | 38.5 | 18.2 | 6.32 | 17.8 | 6.13 | 17.4 | 5.85 | 17.1 | 5.60 | 16.8 | 5.37 | 16.2 | 4.87 |
| | | 77.0 | 18.6 | 6.38 | 18.2 | 6.19 | 17.8 | 5.92 | 17.5 | 5.67 | 17.2 | 5.43 | 16.6 | 4.93 |
| | | 96.3 | 18.9 | 6.38 | 18.5 | 6.19 | 18.1 | 5.92 | 17.8 | 5.67 | 17.5 | 5.43 | 16.9 | 4.93 |
| | | 115.5 | 19.1 | 6.38 | 18.7 | 6.19 | 18.3 | 5.92 | 17.9 | 5.67 | 17.6 | 5.43 | 17.0 | 4.93 |
| | 5 | 30.8 | 26.7 | 6.77 | 25.8 | 6.61 | 25.2 | 6.35 | 24.7 | 6.08 | 23.5 | 5.82 | 22.4 | 5.29 |
| | | 38.5 | 26.8 | 6.80 | 25.9 | 6.64 | 25.2 | 6.38 | 24.7 | 6.11 | 23.5 | 5.85 | 22.4 | 5.32 |
| | | 77.0 | 27.2 | 6.92 | 26.1 | 6.76 | 25.2 | 6.51 | 24.7 | 6.24 | 23.5 | 5.97 | 22.4 | 5.43 |
| | | 96.3 | 27.4 | 6.97 | 26.1 | 6.80 | 25.2 | 6.55 | 24.7 | 6.29 | 23.5 | 6.01 | 22.4 | 5.46 |
| | | 115.5 | 27.4 | 6.99 | 26.2 | 6.82 | 25.2 | 6.58 | 24.7 | 6.31 | 23.5 | 6.03 | 22.4 | 5.48 |
| | 10 | 30.8 | 26.9 | 6.06 | 25.9 | 5.92 | 25.2 | 5.74 | 24.7 | 5.54 | 23.5 | 5.27 | 22.4 | 4.82 |
| | | 38.5 | 26.9 | 6.08 | 26.0 | 5.94 | 25.2 | 5.75 | 24.7 | 5.55 | 23.5 | 5.28 | 22.4 | 4.83 |
| | | 77.0 | 27.2 | 6.20 | 26.1 | 6.02 | 25.2 | 5.82 | 24.7 | 5.58 | 23.5 | 5.30 | 22.4 | 4.85 |
| | | 96.3 | 27.4 | 6.17 | 26.2 | 6.02 | 25.2 | 5.81 | 24.7 | 5.57 | 23.5 | 5.28 | 22.4 | 4.83 |
| | | 115.5 | 27.5 | 6.16 | 26.3 | 6.02 | 25.2 | 5.80 | 24.7 | 5.56 | 23.5 | 5.28 | 22.4 | 4.82 |
| | 15 | 30.8 | 27.0 | 5.34 | 26.0 | 5.25 | 25.2 | 5.13 | 24.7 | 5.01 | 23.5 | 4.72 | 22.4 | 4.36 |
| | | 38.5 | 27.1 | 5.37 | 26.0 | 5.25 | 25.2 | 5.13 | 24.7 | 4.99 | 23.5 | 4.70 | 22.4 | 4.34 |
| | | 77.0 | 27.2 | 5.47 | 26.1 | 5.27 | 25.2 | 5.13 | 24.7 | 4.92 | 23.5 | 4.63 | 22.4 | 4.27 |
| | | 96.3 | 27.4 | 5.38 | 26.3 | 5.22 | 25.2 | 5.07 | 24.7 | 4.85 | 23.5 | 4.56 | 22.4 | 4.20 |
| | | 115.5 | 27.5 | 5.33 | 26.3 | 5.20 | 25.2 | 5.03 | 24.7 | 4.81 | 23.5 | 4.52 | 22.4 | 4.16 |
| | 20 | 30.8 | 27.2 | 4.57 | 26.2 | 4.45 | 25.2 | 4.34 | 24.7 | 4.28 | 23.5 | 4.00 | 22.4 | 3.80 |
| | | 38.5 | 27.3 | 4.59 | 26.2 | 4.45 | 25.2 | 4.34 | 24.7 | 4.27 | 23.5 | 3.98 | 22.4 | 3.76 |
| | | 77.0 | 27.7 | 4.67 | 26.3 | 4.47 | 25.2 | 4.34 | 24.7 | 4.20 | 23.5 | 3.91 | 22.4 | 3.61 |
| | | 96.3 | 27.8 | 4.59 | 26.5 | 4.43 | 25.2 | 4.27 | 24.7 | 4.12 | 23.5 | 3.83 | 22.4 | 3.55 |
| | | 115.5 | 27.9 | 4.55 | 26.6 | 4.41 | 25.2 | 4.23 | 24.7 | 4.09 | 23.5 | 3.79 | 22.4 | 3.51 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 30.8 | 27.5 | 3.99 | 26.6 | 3.87 | 25.2 | 3.71 | 24.7 | 3.57 | 23.5 | 3.35 | 22.4 | 3.04 |
| | | 38.5 | 27.6 | 4.00 | 26.6 | 3.85 | 25.2 | 3.69 | 24.7 | 3.55 | 23.5 | 3.33 | 22.4 | 3.04 |
| | | 77.0 | 28.0 | 4.01 | 26.6 | 3.76 | 25.2 | 3.61 | 24.7 | 3.47 | 23.5 | 3.26 | 22.4 | 3.04 |
| | | 96.3 | 28.1 | 3.92 | 26.6 | 3.73 | 25.2 | 3.55 | 24.7 | 3.40 | 23.5 | 3.26 | 22.4 | 2.96 |
| | | 115.5 | 28.2 | 3.88 | 26.6 | 3.72 | 25.2 | 3.51 | 24.7 | 3.36 | 23.5 | 3.26 | 22.4 | 2.93 |
| | 30 | 30.8 | 28.1 | 3.63 | 26.6 | 3.35 | 25.2 | 3.12 | 24.7 | 3.06 | 23.5 | 2.82 | 22.4 | 2.70 |
| | | 38.5 | 28.1 | 3.61 | 26.6 | 3.33 | 25.2 | 3.11 | 24.7 | 3.04 | 23.5 | 2.82 | 22.4 | 2.68 |
| | | 77.0 | 28.1 | 3.55 | 26.6 | 3.26 | 25.2 | 3.08 | 24.7 | 2.96 | 23.5 | 2.82 | 22.4 | 2.60 |
| | | 96.3 | 28.1 | 3.47 | 26.6 | 3.26 | 25.2 | 3.04 | 24.7 | 2.96 | 23.5 | 2.75 | 22.4 | 2.60 |
| | | 115.5 | 28.1 | 3.43 | 26.6 | 3.26 | 25.2 | 3.02 | 24.7 | 2.96 | 23.5 | 2.71 | 22.4 | 2.60 |
| | 35 | 30.8 | 28.1 | 3.37 | 26.6 | 3.07 | 25.2 | 2.75 | 24.7 | 2.70 | 23.5 | 2.55 | 22.4 | 2.33 |
| | | 38.5 | 28.1 | 3.33 | 26.6 | 3.04 | 25.2 | 2.75 | 24.7 | 2.68 | 23.5 | 2.53 | 22.4 | 2.31 |
| | | 77.0 | 28.1 | 3.18 | 26.6 | 2.90 | 25.2 | 2.72 | 24.7 | 2.60 | 23.5 | 2.46 | 22.4 | 2.24 |
| | | 96.3 | 28.1 | 3.18 | 26.6 | 2.90 | 25.2 | 2.68 | 24.7 | 2.60 | 23.5 | 2.46 | 22.4 | 2.24 |
| | | 115.5 | 28.1 | 3.18 | 26.6 | 2.90 | 25.2 | 2.66 | 24.7 | 2.60 | 23.5 | 2.46 | 22.4 | 2.24 |
| | 40 | 30.8 | 28.1 | 3.15 | 26.6 | 2.86 | 25.2 | 2.47 | 24.7 | 2.41 | 23.5 | 2.26 | 22.4 | 2.11 |
| | | 38.5 | 28.1 | 3.11 | 26.6 | 2.82 | 25.2 | 2.46 | 24.7 | 2.39 | 23.5 | 2.24 | 22.4 | 2.10 |
| | | 77.0 | 28.1 | 2.96 | 26.6 | 2.68 | 25.2 | 2.43 | 24.7 | 2.31 | 23.5 | 2.17 | 22.4 | 2.03 |
| | | 96.3 | 28.1 | 2.90 | 26.6 | 2.68 | 25.2 | 2.39 | 24.7 | 2.31 | 23.5 | 2.17 | 22.4 | 2.03 |
| | | 115.5 | 28.1 | 2.86 | 26.6 | 2.68 | 25.2 | 2.36 | 24.7 | 2.31 | 23.5 | 2.17 | 22.4 | 2.03 |
| | 45 | 30.8 | 28.1 | 2.93 | 26.6 | 2.64 | 25.2 | 2.18 | 24.7 | 2.11 | 23.5 | 1.97 | 22.4 | 1.90 |
| | | 38.5 | 28.1 | 2.90 | 26.6 | 2.60 | 25.2 | 2.17 | 24.7 | 2.10 | 23.5 | 1.95 | 22.4 | 1.88 |
| | | 77.0 | 28.1 | 2.75 | 26.6 | 2.46 | 25.2 | 2.14 | 24.7 | 2.03 | 23.5 | 1.88 | 22.4 | 1.81 |
| | | 96.3 | 28.1 | 2.60 | 26.6 | 2.46 | 25.2 | 2.10 | 24.7 | 2.03 | 23.5 | 1.88 | 22.4 | 1.81 |
| | | 115.5 | 28.1 | 2.53 | 26.6 | 2.46 | 25.2 | 2.07 | 24.7 | 2.03 | 23.5 | 1.88 | 22.4 | 1.81 |
| 90 | -5 | 30.8 | 9.6 | 4.27 | 9.3 | 3.89 | 9.0 | 3.42 | 8.9 | 3.26 | 8.9 | 3.14 | 8.7 | 2.82 |
| | | 38.5 | 9.9 | 4.35 | 9.6 | 3.97 | 9.3 | 3.49 | 9.2 | 3.33 | 9.2 | 3.21 | 9.0 | 2.88 |
| | | 77.0 | 11.2 | 4.64 | 10.9 | 4.26 | 10.5 | 3.79 | 10.5 | 3.61 | 10.4 | 3.49 | 10.2 | 3.13 |
| | | 96.3 | 12.4 | 4.93 | 12.0 | 4.56 | 11.6 | 4.09 | 11.5 | 3.90 | 11.5 | 3.76 | 11.3 | 3.37 |
| | | 115.5 | 13.0 | 5.08 | 12.5 | 4.71 | 12.2 | 4.24 | 12.1 | 4.04 | 12.0 | 3.89 | 11.8 | 3.50 |
| | 0 | 30.8 | 17.1 | 5.82 | 16.3 | 5.46 | 15.6 | 5.02 | 15.3 | 4.78 | 15.1 | 4.60 | 14.5 | 4.13 |
| | | 38.5 | 17.2 | 5.84 | 16.4 | 5.48 | 15.7 | 5.03 | 15.4 | 4.80 | 15.2 | 4.62 | 14.6 | 4.15 |
| | | 77.0 | 17.6 | 5.90 | 16.8 | 5.54 | 16.0 | 5.08 | 15.8 | 4.85 | 15.5 | 4.67 | 15.0 | 4.19 |
| | | 96.3 | 17.9 | 5.90 | 17.0 | 5.54 | 16.3 | 5.08 | 16.0 | 4.85 | 15.8 | 4.67 | 15.2 | 4.19 |
| | | 115.5 | 18.0 | 5.90 | 17.2 | 5.54 | 16.4 | 5.08 | 16.1 | 4.85 | 15.9 | 4.67 | 15.3 | 4.19 |
| | 5 | 30.8 | 24.2 | 6.25 | 23.4 | 5.90 | 22.6 | 5.46 | 22.2 | 5.20 | 21.2 | 5.01 | 20.2 | 4.50 |
| | | 38.5 | 24.2 | 6.28 | 23.4 | 5.93 | 22.6 | 5.48 | 22.2 | 5.23 | 21.2 | 5.04 | 20.2 | 4.52 |
| | | 77.0 | 24.3 | 6.39 | 23.3 | 6.04 | 22.6 | 5.59 | 22.2 | 5.34 | 21.2 | 5.14 | 20.2 | 4.61 |
| | | 96.3 | 24.4 | 6.43 | 23.4 | 6.08 | 22.6 | 5.63 | 22.2 | 5.37 | 21.2 | 5.18 | 20.2 | 4.65 |
| | | 115.5 | 24.5 | 6.45 | 23.4 | 6.09 | 22.6 | 5.66 | 22.2 | 5.39 | 21.2 | 5.20 | 20.2 | 4.67 |
| | 10 | 30.8 | 24.3 | 5.52 | 23.5 | 5.25 | 22.6 | 4.94 | 22.2 | 4.74 | 21.2 | 4.55 | 20.2 | 4.10 |
| | | 38.5 | 24.3 | 5.52 | 23.4 | 5.25 | 22.6 | 4.95 | 22.2 | 4.74 | 21.2 | 4.54 | 20.2 | 4.10 |
| | | 77.0 | 24.2 | 5.54 | 23.3 | 5.28 | 22.6 | 4.97 | 22.2 | 4.77 | 21.2 | 4.53 | 20.2 | 4.12 |
| | | 96.3 | 24.4 | 5.52 | 23.4 | 5.26 | 22.6 | 4.95 | 22.2 | 4.75 | 21.2 | 4.54 | 20.2 | 4.13 |
| | | 115.5 | 24.5 | 5.51 | 23.4 | 5.25 | 22.6 | 4.95 | 22.2 | 4.74 | 21.2 | 4.55 | 20.2 | 4.14 |
| | 15 | 30.8 | 24.4 | 4.78 | 23.6 | 4.61 | 22.6 | 4.43 | 22.2 | 4.28 | 21.2 | 4.08 | 20.2 | 3.71 |
| | | 38.5 | 24.4 | 4.76 | 23.5 | 4.59 | 22.6 | 4.41 | 22.2 | 4.27 | 21.2 | 4.05 | 20.2 | 3.69 |
| | | 77.0 | 24.2 | 4.68 | 23.3 | 4.51 | 22.6 | 4.34 | 22.2 | 4.20 | 21.2 | 3.91 | 20.2 | 3.61 |
| | | 96.3 | 24.4 | 4.62 | 23.4 | 4.44 | 22.6 | 4.27 | 22.2 | 4.12 | 21.2 | 3.91 | 20.2 | 3.61 |
| | | 115.5 | 24.5 | 4.58 | 23.5 | 4.41 | 22.6 | 4.23 | 22.2 | 4.09 | 21.2 | 3.91 | 20.2 | 3.61 |
| | 20 | 30.8 | 24.6 | 4.03 | 23.7 | 3.92 | 22.6 | 3.78 | 22.2 | 3.63 | 21.2 | 3.51 | 20.2 | 3.29 |
| | | 38.5 | 24.5 | 4.03 | 23.6 | 3.91 | 22.6 | 3.76 | 22.2 | 3.61 | 21.2 | 3.47 | 20.2 | 3.26 |
| | | 77.0 | 24.4 | 4.03 | 23.4 | 3.86 | 22.6 | 3.69 | 22.2 | 3.55 | 21.2 | 3.33 | 20.2 | 3.11 |
| | | 96.3 | 24.5 | 3.97 | 23.5 | 3.83 | 22.6 | 3.69 | 22.2 | 3.55 | 21.2 | 3.33 | 20.2 | 3.11 |
| | | 115.5 | 24.6 | 3.93 | 23.5 | 3.82 | 22.6 | 3.69 | 22.2 | 3.55 | 21.2 | 3.33 | 20.2 | 3.11 |
| | 25 | 30.8 | 25.0 | 3.52 | 24.0 | 3.34 | 22.6 | 3.20 | 22.2 | 3.04 | 21.2 | 2.91 | 20.2 | 2.70 |
| | | 38.5 | 25.0 | 3.52 | 24.0 | 3.33 | 22.6 | 3.18 | 22.2 | 3.04 | 21.2 | 2.90 | 20.2 | 2.68 |
| | | 77.0 | 25.3 | 3.49 | 24.0 | 3.30 | 22.6 | 3.11 | 22.2 | 3.04 | 21.2 | 2.82 | 20.2 | 2.60 |
| | | 96.3 | 25.4 | 3.40 | 24.0 | 3.23 | 22.6 | 3.11 | 22.2 | 2.96 | 21.2 | 2.82 | 20.2 | 2.60 |
| | | 115.5 | 25.4 | 3.35 | 24.0 | 3.19 | 22.6 | 3.11 | 22.2 | 2.93 | 21.2 | 2.82 | 20.2 | 2.60 |
| | 30 | 30.8 | 25.4 | 3.20 | 24.0 | 2.98 | 22.6 | 2.76 | 22.2 | 2.70 | 21.2 | 2.55 | 20.2 | 2.31 |
| | | 38.5 | 25.4 | 3.18 | 24.0 | 2.96 | 22.6 | 2.75 | 22.2 | 2.68 | 21.2 | 2.53 | 20.2 | 2.31 |
| | | 77.0 | 25.4 | 3.11 | 24.0 | 2.90 | 22.6 | 2.68 | 22.2 | 2.60 | 21.2 | 2.46 | 20.2 | 2.31 |
| | | 96.3 | 25.4 | 3.04 | 24.0 | 2.82 | 22.6 | 2.68 | 22.2 | 2.60 | 21.2 | 2.46 | 20.2 | 2.24 |
| | | 115.5 | 25.4 | 3.00 | 24.0 | 2.78 | 22.6 | 2.68 | 22.2 | 2.60 | 21.2 | 2.46 | 20.2 | 2.21 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 30.8 | 25.4 | 2.91 | 24.0 | 2.70 | 22.6 | 2.48 | 22.2 | 2.41 | 21.2 | 2.26 | 20.2 | 2.11 |
| | | 38.5 | 25.4 | 2.90 | 24.0 | 2.68 | 22.6 | 2.46 | 22.2 | 2.39 | 21.2 | 2.24 | 20.2 | 2.10 |
| | | 77.0 | 25.4 | 2.82 | 24.0 | 2.60 | 22.6 | 2.39 | 22.2 | 2.31 | 21.2 | 2.17 | 20.2 | 2.03 |
| | | 96.3 | 25.4 | 2.75 | 24.0 | 2.53 | 22.6 | 2.31 | 22.2 | 2.24 | 21.2 | 2.17 | 20.2 | 2.03 |
| | | 115.5 | 25.4 | 2.71 | 24.0 | 2.49 | 22.6 | 2.27 | 22.2 | 2.21 | 21.2 | 2.17 | 20.2 | 2.03 |
| | 40 | 30.8 | 25.4 | 2.72 | 24.0 | 2.48 | 22.6 | 2.19 | 22.2 | 2.11 | 21.2 | 2.05 | 20.2 | 1.90 |
| | | 38.5 | 25.4 | 2.68 | 24.0 | 2.46 | 22.6 | 2.17 | 22.2 | 2.10 | 21.2 | 2.03 | 20.2 | 1.88 |
| | | 77.0 | 25.4 | 2.53 | 24.0 | 2.39 | 22.6 | 2.10 | 22.2 | 2.03 | 21.2 | 1.95 | 20.2 | 1.81 |
| | | 96.3 | 25.4 | 2.53 | 24.0 | 2.39 | 22.6 | 2.10 | 22.2 | 2.03 | 21.2 | 1.95 | 20.2 | 1.81 |
| | | 115.5 | 25.4 | 2.53 | 24.0 | 2.39 | 22.6 | 2.10 | 22.2 | 2.03 | 21.2 | 1.95 | 20.2 | 1.81 |
| | 45 | 30.8 | 25.4 | 2.52 | 24.0 | 2.26 | 22.6 | 1.90 | 22.2 | 1.83 | 21.2 | 1.83 | 20.2 | 1.68 |
| | | 38.5 | 25.4 | 2.46 | 24.0 | 2.24 | 22.6 | 1.88 | 22.2 | 1.81 | 21.2 | 1.81 | 20.2 | 1.66 |
| | | 77.0 | 25.4 | 2.24 | 24.0 | 2.17 | 22.6 | 1.81 | 22.2 | 1.74 | 21.2 | 1.74 | 20.2 | 1.59 |
| | | 96.3 | 25.4 | 2.31 | 24.0 | 2.24 | 22.6 | 1.88 | 22.2 | 1.81 | 21.2 | 1.74 | 20.2 | 1.59 |
| | | 115.5 | 25.4 | 2.35 | 24.0 | 2.28 | 22.6 | 1.91 | 22.2 | 1.85 | 21.2 | 1.74 | 20.2 | 1.59 |
| 80 | -5 | 30.8 | 9.0 | 3.04 | 8.5 | 2.93 | 8.0 | 2.81 | 7.9 | 2.71 | 7.9 | 2.58 | 7.7 | 2.38 |
| | | 38.5 | 9.4 | 3.11 | 8.8 | 2.99 | 8.3 | 2.87 | 8.2 | 2.77 | 8.2 | 2.64 | 8.0 | 2.43 |
| | | 77.0 | 10.6 | 3.38 | 9.9 | 3.25 | 9.4 | 3.11 | 9.3 | 3.00 | 9.2 | 2.87 | 9.0 | 2.63 |
| | | 96.3 | 11.7 | 3.64 | 10.9 | 3.50 | 10.4 | 3.35 | 10.2 | 3.24 | 10.2 | 3.09 | 10.0 | 2.84 |
| | | 115.5 | 12.3 | 3.78 | 11.5 | 3.63 | 10.9 | 3.48 | 10.7 | 3.36 | 10.7 | 3.20 | 10.5 | 2.95 |
| | 0 | 30.8 | 16.1 | 4.47 | 14.9 | 4.29 | 13.9 | 4.11 | 13.6 | 3.97 | 13.4 | 3.78 | 12.9 | 3.48 |
| | | 38.5 | 16.2 | 4.48 | 15.0 | 4.30 | 13.9 | 4.12 | 13.7 | 3.98 | 13.5 | 3.79 | 13.0 | 3.49 |
| | | 77.0 | 16.6 | 4.53 | 15.3 | 4.35 | 14.3 | 4.17 | 14.0 | 4.03 | 13.8 | 3.84 | 13.3 | 3.53 |
| | | 96.3 | 16.9 | 4.53 | 15.6 | 4.35 | 14.5 | 4.17 | 14.2 | 4.03 | 14.0 | 3.84 | 13.5 | 3.53 |
| | | 115.5 | 17.0 | 4.53 | 15.7 | 4.35 | 14.6 | 4.17 | 14.3 | 4.03 | 14.1 | 3.84 | 13.6 | 3.53 |
| | 5 | 30.8 | 22.3 | 4.86 | 21.1 | 4.68 | 20.2 | 4.47 | 19.7 | 4.32 | 18.9 | 4.12 | 17.9 | 3.79 |
| | | 38.5 | 22.4 | 4.89 | 21.1 | 4.70 | 20.2 | 4.49 | 19.7 | 4.34 | 18.9 | 4.14 | 17.9 | 3.81 |
| | | 77.0 | 22.6 | 4.99 | 21.3 | 4.79 | 20.2 | 4.59 | 19.7 | 4.43 | 18.9 | 4.22 | 17.9 | 3.89 |
| | | 96.3 | 22.6 | 5.02 | 21.3 | 4.83 | 20.2 | 4.62 | 19.7 | 4.46 | 18.9 | 4.25 | 17.9 | 3.91 |
| | | 115.5 | 22.6 | 5.04 | 21.2 | 4.85 | 20.2 | 4.63 | 19.7 | 4.47 | 18.9 | 4.27 | 17.9 | 3.92 |
| | 10 | 30.8 | 22.5 | 4.47 | 21.2 | 4.27 | 20.2 | 4.05 | 19.7 | 3.94 | 18.9 | 3.73 | 17.9 | 3.46 |
| | | 38.5 | 22.5 | 4.47 | 21.2 | 4.27 | 20.2 | 4.06 | 19.7 | 3.94 | 18.9 | 3.73 | 17.9 | 3.46 |
| | | 77.0 | 22.6 | 4.44 | 21.3 | 4.24 | 20.2 | 4.06 | 19.7 | 3.95 | 18.9 | 3.74 | 17.9 | 3.46 |
| | | 96.3 | 22.6 | 4.43 | 21.3 | 4.26 | 20.2 | 4.08 | 19.7 | 3.93 | 18.9 | 3.72 | 17.9 | 3.44 |
| | | 115.5 | 22.6 | 4.42 | 21.2 | 4.27 | 20.2 | 4.09 | 19.7 | 3.92 | 18.9 | 3.71 | 17.9 | 3.43 |
| | 15 | 30.8 | 22.6 | 4.08 | 21.3 | 3.87 | 20.2 | 3.63 | 19.7 | 3.57 | 18.9 | 3.35 | 17.9 | 3.13 |
| | | 38.5 | 22.6 | 4.05 | 21.3 | 3.83 | 20.2 | 3.61 | 19.7 | 3.55 | 18.9 | 3.33 | 17.9 | 3.11 |
| | | 77.0 | 22.6 | 3.91 | 21.3 | 3.69 | 20.2 | 3.55 | 19.7 | 3.47 | 18.9 | 3.26 | 17.9 | 3.04 |
| | | 96.3 | 22.6 | 3.83 | 21.3 | 3.69 | 20.2 | 3.55 | 19.7 | 3.40 | 18.9 | 3.18 | 17.9 | 2.96 |
| | | 115.5 | 22.6 | 3.79 | 21.3 | 3.69 | 20.2 | 3.55 | 19.7 | 3.36 | 18.9 | 3.14 | 17.9 | 2.93 |
| | 20 | 30.8 | 22.6 | 3.41 | 21.3 | 3.27 | 20.2 | 3.11 | 19.7 | 3.06 | 18.9 | 2.91 | 17.9 | 2.70 |
| | | 38.5 | 22.6 | 3.40 | 21.3 | 3.26 | 20.2 | 3.11 | 19.7 | 3.04 | 18.9 | 2.90 | 17.9 | 2.68 |
| | | 77.0 | 22.6 | 3.33 | 21.3 | 3.18 | 20.2 | 3.11 | 19.7 | 2.96 | 18.9 | 2.82 | 17.9 | 2.60 |
| | | 96.3 | 22.6 | 3.26 | 21.3 | 3.11 | 20.2 | 3.04 | 19.7 | 2.96 | 18.9 | 2.75 | 17.9 | 2.60 |
| | | 115.5 | 22.6 | 3.22 | 21.3 | 3.08 | 20.2 | 3.00 | 19.7 | 2.96 | 18.9 | 2.71 | 17.9 | 2.60 |
| | 25 | 30.8 | 22.6 | 3.06 | 21.3 | 2.84 | 20.2 | 2.68 | 19.7 | 2.62 | 18.9 | 2.48 | 17.9 | 2.33 |
| | | 38.5 | 22.6 | 3.04 | 21.3 | 2.82 | 20.2 | 2.68 | 19.7 | 2.60 | 18.9 | 2.46 | 17.9 | 2.31 |
| | | 77.0 | 22.6 | 2.96 | 21.3 | 2.75 | 20.2 | 2.68 | 19.7 | 2.53 | 18.9 | 2.39 | 17.9 | 2.24 |
| | | 96.3 | 22.6 | 2.90 | 21.3 | 2.75 | 20.2 | 2.60 | 19.7 | 2.53 | 18.9 | 2.39 | 17.9 | 2.24 |
| | | 115.5 | 22.6 | 2.86 | 21.3 | 2.75 | 20.2 | 2.57 | 19.7 | 2.53 | 18.9 | 2.39 | 17.9 | 2.24 |
| | 30 | 30.8 | 22.6 | 2.70 | 21.3 | 2.55 | 20.2 | 2.41 | 19.7 | 2.33 | 18.9 | 2.19 | 17.9 | 2.05 |
| | | 38.5 | 22.6 | 2.68 | 21.3 | 2.53 | 20.2 | 2.39 | 19.7 | 2.31 | 18.9 | 2.17 | 17.9 | 2.03 |
| | | 77.0 | 22.6 | 2.60 | 21.3 | 2.46 | 20.2 | 2.31 | 19.7 | 2.24 | 18.9 | 2.10 | 17.9 | 1.95 |
| | | 96.3 | 22.6 | 2.60 | 21.3 | 2.46 | 20.2 | 2.31 | 19.7 | 2.24 | 18.9 | 2.10 | 17.9 | 1.95 |
| | | 115.5 | 22.6 | 2.60 | 21.3 | 2.46 | 20.2 | 2.31 | 19.7 | 2.24 | 18.9 | 2.10 | 17.9 | 1.95 |
| | 35 | 30.8 | 22.6 | 2.48 | 21.3 | 2.33 | 20.2 | 2.11 | 19.7 | 2.03 | 18.9 | 1.97 | 17.9 | 1.81 |
| | | 38.5 | 22.6 | 2.46 | 21.3 | 2.31 | 20.2 | 2.10 | 19.7 | 2.03 | 18.9 | 1.95 | 17.9 | 1.81 |
| | | 77.0 | 22.6 | 2.39 | 21.3 | 2.24 | 20.2 | 2.03 | 19.7 | 2.03 | 18.9 | 1.88 | 17.9 | 1.81 |
| | | 96.3 | 22.6 | 2.39 | 21.3 | 2.17 | 20.2 | 2.03 | 19.7 | 1.95 | 18.9 | 1.88 | 17.9 | 1.74 |
| | | 115.5 | 22.6 | 2.39 | 21.3 | 2.13 | 20.2 | 2.03 | 19.7 | 1.92 | 18.9 | 1.88 | 17.9 | 1.70 |
| | 40 | 30.8 | 22.6 | 2.35 | 21.3 | 2.11 | 20.2 | 1.88 | 19.7 | 1.90 | 18.9 | 1.74 | 17.9 | 1.68 |
| | | 38.5 | 22.6 | 2.31 | 21.3 | 2.10 | 20.2 | 1.88 | 19.7 | 1.88 | 18.9 | 1.74 | 17.9 | 1.66 |
| | | 77.0 | 22.6 | 2.17 | 21.3 | 2.03 | 20.2 | 1.88 | 19.7 | 1.81 | 18.9 | 1.74 | 17.9 | 1.59 |
| | | 96.3 | 22.6 | 2.17 | 21.3 | 2.03 | 20.2 | 1.81 | 19.7 | 1.81 | 18.9 | 1.74 | 17.9 | 1.59 |
| | | 115.5 | 22.6 | 2.17 | 21.3 | 2.03 | 20.2 | 1.78 | 19.7 | 1.81 | 18.9 | 1.74 | 17.9 | 1.59 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 30.8 | 22.6 | 2.22 | 21.3 | 1.90 | 20.2 | 1.64 | 19.7 | 1.77 | 18.9 | 1.50 | 17.9 | 1.55 |
| | | 38.5 | 22.6 | 2.17 | 21.3 | 1.88 | 20.2 | 1.66 | 19.7 | 1.74 | 18.9 | 1.52 | 17.9 | 1.52 |
| | | 77.0 | 22.6 | 1.95 | 21.3 | 1.81 | 20.2 | 1.74 | 19.7 | 1.59 | 18.9 | 1.59 | 17.9 | 1.38 |
| | | 96.3 | 22.6 | 1.95 | 21.3 | 1.88 | 20.2 | 1.59 | 19.7 | 1.66 | 18.9 | 1.59 | 17.9 | 1.44 |
| | | 115.5 | 22.6 | 1.95 | 21.3 | 1.91 | 20.2 | 1.52 | 19.7 | 1.70 | 18.9 | 1.59 | 17.9 | 1.48 |
| 70 | -5 | 30.8 | 7.9 | 2.61 | 7.4 | 2.49 | 7.0 | 2.41 | 6.9 | 2.27 | 6.9 | 2.19 | 6.8 | 1.99 |
| | | 38.5 | 8.2 | 2.67 | 7.7 | 2.54 | 7.2 | 2.46 | 7.2 | 2.32 | 7.1 | 2.24 | 7.0 | 2.04 |
| | | 77.0 | 9.2 | 2.90 | 8.7 | 2.76 | 8.2 | 2.67 | 8.1 | 2.51 | 8.1 | 2.42 | 7.9 | 2.21 |
| | | 96.3 | 10.2 | 3.13 | 9.6 | 2.98 | 9.0 | 2.88 | 9.0 | 2.71 | 8.9 | 2.62 | 8.7 | 2.38 |
| | | 115.5 | 10.7 | 3.24 | 10.0 | 3.09 | 9.5 | 2.99 | 9.4 | 2.81 | 9.3 | 2.72 | 9.2 | 2.47 |
| | 0 | 30.8 | 14.1 | 3.83 | 13.1 | 3.65 | 12.1 | 3.53 | 11.9 | 3.32 | 11.7 | 3.21 | 11.3 | 2.92 |
| | | 38.5 | 14.2 | 3.84 | 13.1 | 3.66 | 12.2 | 3.54 | 12.0 | 3.33 | 11.8 | 3.22 | 11.4 | 2.93 |
| | | 77.0 | 14.5 | 3.88 | 13.4 | 3.70 | 12.5 | 3.58 | 12.3 | 3.37 | 12.1 | 3.26 | 11.6 | 2.96 |
| | | 96.3 | 14.7 | 3.88 | 13.6 | 3.70 | 12.7 | 3.58 | 12.4 | 3.37 | 12.3 | 3.26 | 11.8 | 2.96 |
| | | 115.5 | 14.9 | 3.88 | 13.7 | 3.70 | 12.8 | 3.58 | 12.5 | 3.37 | 12.4 | 3.26 | 11.9 | 2.96 |
| | 5 | 30.8 | 19.5 | 4.17 | 18.5 | 3.97 | 17.6 | 3.84 | 17.2 | 3.62 | 16.5 | 3.49 | 15.7 | 3.17 |
| | | 38.5 | 19.6 | 4.19 | 18.5 | 3.99 | 17.6 | 3.86 | 17.2 | 3.64 | 16.5 | 3.51 | 15.7 | 3.19 |
| | | 77.0 | 19.7 | 4.27 | 18.7 | 4.07 | 17.6 | 3.94 | 17.2 | 3.70 | 16.5 | 3.58 | 15.7 | 3.26 |
| | | 96.3 | 19.7 | 4.30 | 18.6 | 4.10 | 17.6 | 3.97 | 17.2 | 3.73 | 16.5 | 3.61 | 15.7 | 3.28 |
| | | 115.5 | 19.7 | 4.32 | 18.6 | 4.12 | 17.6 | 3.99 | 17.2 | 3.75 | 16.5 | 3.62 | 15.7 | 3.29 |
| | 10 | 30.8 | 19.6 | 3.84 | 18.5 | 3.63 | 17.6 | 3.49 | 17.2 | 3.30 | 16.5 | 3.17 | 15.7 | 2.90 |
| | | 38.5 | 19.6 | 3.83 | 18.6 | 3.62 | 17.6 | 3.49 | 17.2 | 3.30 | 16.5 | 3.17 | 15.7 | 2.90 |
| | | 77.0 | 19.7 | 3.80 | 18.6 | 3.59 | 17.6 | 3.46 | 17.2 | 3.30 | 16.5 | 3.17 | 15.7 | 2.90 |
| | | 96.3 | 19.7 | 3.82 | 18.6 | 3.61 | 17.6 | 3.47 | 17.2 | 3.31 | 16.5 | 3.14 | 15.7 | 2.90 |
| | | 115.5 | 19.7 | 3.82 | 18.6 | 3.61 | 17.6 | 3.48 | 17.2 | 3.32 | 16.5 | 3.13 | 15.7 | 2.91 |
| | 15 | 30.8 | 19.7 | 3.51 | 18.6 | 3.29 | 17.6 | 3.15 | 17.2 | 2.98 | 16.5 | 2.84 | 15.7 | 2.62 |
| | | 38.5 | 19.7 | 3.47 | 18.6 | 3.26 | 17.6 | 3.11 | 17.2 | 2.96 | 16.5 | 2.82 | 15.7 | 2.60 |
| | | 77.0 | 19.7 | 3.33 | 18.6 | 3.11 | 17.6 | 2.96 | 17.2 | 2.90 | 16.5 | 2.75 | 15.7 | 2.53 |
| | | 96.3 | 19.7 | 3.33 | 18.6 | 3.11 | 17.6 | 2.96 | 17.2 | 2.90 | 16.5 | 2.68 | 15.7 | 2.53 |
| | | 115.5 | 19.7 | 3.33 | 18.6 | 3.11 | 17.6 | 2.96 | 17.2 | 2.90 | 16.5 | 2.64 | 15.7 | 2.53 |
| | 20 | 30.8 | 19.7 | 2.91 | 18.6 | 2.76 | 17.6 | 2.70 | 17.2 | 2.62 | 16.5 | 2.48 | 15.7 | 2.33 |
| | | 38.5 | 19.7 | 2.90 | 18.6 | 2.75 | 17.6 | 2.68 | 17.2 | 2.60 | 16.5 | 2.46 | 15.7 | 2.31 |
| | | 77.0 | 19.7 | 2.82 | 18.6 | 2.68 | 17.6 | 2.60 | 17.2 | 2.53 | 16.5 | 2.39 | 15.7 | 2.24 |
| | | 96.3 | 19.7 | 2.82 | 18.6 | 2.68 | 17.6 | 2.60 | 17.2 | 2.46 | 16.5 | 2.39 | 15.7 | 2.17 |
| | | 115.5 | 19.7 | 2.82 | 18.6 | 2.68 | 17.6 | 2.60 | 17.2 | 2.43 | 16.5 | 2.39 | 15.7 | 2.13 |
| | 25 | 30.8 | 19.7 | 2.62 | 18.6 | 2.48 | 17.6 | 2.33 | 17.2 | 2.26 | 16.5 | 2.10 | 15.7 | 1.95 |
| | | 38.5 | 19.7 | 2.60 | 18.6 | 2.46 | 17.6 | 2.31 | 17.2 | 2.24 | 16.5 | 2.10 | 15.7 | 1.95 |
| | | 77.0 | 19.7 | 2.53 | 18.6 | 2.39 | 17.6 | 2.24 | 17.2 | 2.17 | 16.5 | 2.10 | 15.7 | 1.95 |
| | | 96.3 | 19.7 | 2.46 | 18.6 | 2.31 | 17.6 | 2.24 | 17.2 | 2.17 | 16.5 | 2.03 | 15.7 | 1.95 |
| | | 115.5 | 19.7 | 2.43 | 18.6 | 2.27 | 17.6 | 2.24 | 17.2 | 2.17 | 16.5 | 1.99 | 15.7 | 1.95 |
| | 30 | 30.8 | 19.7 | 2.33 | 18.6 | 2.19 | 17.6 | 2.05 | 17.2 | 1.95 | 16.5 | 1.90 | 15.7 | 1.74 |
| | | 38.5 | 19.7 | 2.31 | 18.6 | 2.17 | 17.6 | 2.03 | 17.2 | 1.95 | 16.5 | 1.88 | 15.7 | 1.74 |
| | | 77.0 | 19.7 | 2.24 | 18.6 | 2.10 | 17.6 | 1.95 | 17.2 | 1.95 | 16.5 | 1.81 | 15.7 | 1.74 |
| | | 96.3 | 19.7 | 2.24 | 18.6 | 2.10 | 17.6 | 1.95 | 17.2 | 1.88 | 16.5 | 1.81 | 15.7 | 1.74 |
| | | 115.5 | 19.7 | 2.24 | 18.6 | 2.10 | 17.6 | 1.95 | 17.2 | 1.84 | 16.5 | 1.81 | 15.7 | 1.74 |
| | 35 | 30.8 | 19.7 | 2.11 | 18.6 | 1.97 | 17.6 | 1.81 | 17.2 | 1.83 | 16.5 | 1.66 | 15.7 | 1.61 |
| | | 38.5 | 19.7 | 2.10 | 18.6 | 1.95 | 17.6 | 1.81 | 17.2 | 1.81 | 16.5 | 1.66 | 15.7 | 1.59 |
| | | 77.0 | 19.7 | 2.03 | 18.6 | 1.88 | 17.6 | 1.81 | 17.2 | 1.74 | 16.5 | 1.66 | 15.7 | 1.52 |
| | | 96.3 | 19.7 | 2.03 | 18.6 | 1.88 | 17.6 | 1.74 | 17.2 | 1.74 | 16.5 | 1.66 | 15.7 | 1.52 |
| | | 115.5 | 19.7 | 2.03 | 18.6 | 1.88 | 17.6 | 1.70 | 17.2 | 1.74 | 16.5 | 1.66 | 15.7 | 1.52 |
| | 40 | 30.8 | 19.7 | 1.97 | 18.6 | 1.83 | 17.6 | 1.68 | 17.2 | 1.59 | 16.5 | 1.52 | 15.7 | 1.46 |
| | | 38.5 | 19.7 | 1.95 | 18.6 | 1.81 | 17.6 | 1.66 | 17.2 | 1.59 | 16.5 | 1.52 | 15.7 | 1.44 |
| | | 77.0 | 19.7 | 1.88 | 18.6 | 1.74 | 17.6 | 1.59 | 17.2 | 1.59 | 16.5 | 1.52 | 15.7 | 1.38 |
| | | 96.3 | 19.7 | 1.88 | 18.6 | 1.74 | 17.6 | 1.59 | 17.2 | 1.52 | 16.5 | 1.44 | 15.7 | 1.38 |
| | | 115.5 | 19.7 | 1.88 | 18.6 | 1.74 | 17.6 | 1.59 | 17.2 | 1.48 | 16.5 | 1.41 | 15.7 | 1.38 |
| | 45 | 30.8 | 19.7 | 1.83 | 18.6 | 1.68 | 17.6 | 1.55 | 17.2 | 1.36 | 16.5 | 1.38 | 15.7 | 1.32 |
| | | 38.5 | 19.7 | 1.81 | 18.6 | 1.66 | 17.6 | 1.52 | 17.2 | 1.38 | 16.5 | 1.38 | 15.7 | 1.30 |
| | | 77.0 | 19.7 | 1.74 | 18.6 | 1.59 | 17.6 | 1.38 | 17.2 | 1.44 | 16.5 | 1.38 | 15.7 | 1.23 |
| | | 96.3 | 19.7 | 1.74 | 18.6 | 1.59 | 17.6 | 1.44 | 17.2 | 1.30 | 16.5 | 1.23 | 15.7 | 1.23 |
| | | 115.5 | 19.7 | 1.74 | 18.6 | 1.59 | 17.6 | 1.48 | 17.2 | 1.23 | 16.5 | 1.15 | 15.7 | 1.23 |
| 60 | -5 | 30.8 | 6.8 | 2.12 | 6.3 | 2.04 | 6.0 | 1.96 | 5.9 | 1.82 | 5.9 | 1.79 | 5.8 | 1.60 |
| | | 38.5 | 7.0 | 2.17 | 6.6 | 2.09 | 6.2 | 2.01 | 6.1 | 1.86 | 6.1 | 1.83 | 6.0 | 1.64 |
| | | 77.0 | 7.9 | 2.36 | 7.4 | 2.27 | 7.0 | 2.18 | 7.0 | 2.02 | 6.9 | 1.99 | 6.8 | 1.78 |
| | | 96.3 | 8.8 | 2.54 | 8.2 | 2.45 | 7.8 | 2.35 | 7.7 | 2.18 | 7.7 | 2.15 | 7.5 | 1.92 |
| | | 115.5 | 9.2 | 2.63 | 8.6 | 2.54 | 8.2 | 2.44 | 8.1 | 2.27 | 8.0 | 2.23 | 7.9 | 1.98 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 30.8 | 12.1 | 3.11 | 11.2 | 3.00 | 10.4 | 2.87 | 10.2 | 2.67 | 10.1 | 2.63 | 9.7 | 2.35 |
| | | 38.5 | 12.2 | 3.12 | 11.2 | 3.01 | 10.5 | 2.88 | 10.3 | 2.68 | 10.1 | 2.64 | 9.8 | 2.36 |
| | | 77.0 | 12.5 | 3.16 | 11.5 | 3.04 | 10.7 | 2.92 | 10.5 | 2.71 | 10.4 | 2.67 | 10.0 | 2.38 |
| | | 96.3 | 12.7 | 3.16 | 11.7 | 3.04 | 10.9 | 2.92 | 10.7 | 2.71 | 10.5 | 2.67 | 10.1 | 2.38 |
| | | 115.5 | 12.8 | 3.16 | 11.8 | 3.04 | 11.0 | 2.92 | 10.7 | 2.71 | 10.6 | 2.67 | 10.2 | 2.38 |
| | 5 | 30.8 | 16.7 | 3.39 | 15.8 | 3.26 | 15.1 | 3.13 | 14.8 | 2.91 | 14.1 | 2.87 | 13.5 | 2.55 |
| | | 38.5 | 16.8 | 3.40 | 15.8 | 3.28 | 15.1 | 3.14 | 14.8 | 2.93 | 14.1 | 2.88 | 13.5 | 2.57 |
| | | 77.0 | 16.9 | 3.47 | 15.9 | 3.34 | 15.1 | 3.21 | 14.8 | 2.99 | 14.1 | 2.94 | 13.5 | 2.62 |
| | | 96.3 | 16.9 | 3.50 | 15.9 | 3.37 | 15.1 | 3.23 | 14.8 | 3.01 | 14.1 | 2.96 | 13.5 | 2.64 |
| | | 115.5 | 16.9 | 3.52 | 15.9 | 3.38 | 15.1 | 3.24 | 14.8 | 3.02 | 14.1 | 2.96 | 13.5 | 2.65 |
| | 10 | 30.8 | 16.8 | 3.11 | 15.9 | 2.98 | 15.1 | 2.84 | 14.8 | 2.65 | 14.1 | 2.60 | 13.5 | 2.33 |
| | | 38.5 | 16.9 | 3.11 | 15.9 | 2.98 | 15.1 | 2.84 | 14.8 | 2.66 | 14.1 | 2.60 | 13.5 | 2.33 |
| | | 77.0 | 16.9 | 3.11 | 15.9 | 2.98 | 15.1 | 2.84 | 14.8 | 2.69 | 14.1 | 2.59 | 13.5 | 2.36 |
| | | 96.3 | 16.9 | 3.12 | 15.9 | 2.95 | 15.1 | 2.81 | 14.8 | 2.66 | 14.1 | 2.57 | 13.5 | 2.33 |
| | | 115.5 | 16.9 | 3.12 | 15.9 | 2.93 | 15.1 | 2.79 | 14.8 | 2.64 | 14.1 | 2.56 | 13.5 | 2.32 |
| | 15 | 30.8 | 16.9 | 2.84 | 15.9 | 2.70 | 15.1 | 2.55 | 14.8 | 2.39 | 14.1 | 2.33 | 13.5 | 2.10 |
| | | 38.5 | 16.9 | 2.82 | 15.9 | 2.68 | 15.1 | 2.53 | 14.8 | 2.39 | 14.1 | 2.31 | 13.5 | 2.10 |
| | | 77.0 | 16.9 | 2.75 | 15.9 | 2.60 | 15.1 | 2.46 | 14.8 | 2.39 | 14.1 | 2.24 | 13.5 | 2.10 |
| | | 96.3 | 16.9 | 2.75 | 15.9 | 2.53 | 15.1 | 2.39 | 14.8 | 2.31 | 14.1 | 2.17 | 13.5 | 2.03 |
| | | 115.5 | 16.9 | 2.75 | 15.9 | 2.49 | 15.1 | 2.35 | 14.8 | 2.27 | 14.1 | 2.13 | 13.5 | 1.99 |
| | 20 | 30.8 | 16.9 | 2.48 | 15.9 | 2.33 | 15.1 | 2.19 | 14.8 | 2.11 | 14.1 | 2.05 | 13.5 | 1.90 |
| | | 38.5 | 16.9 | 2.46 | 15.9 | 2.31 | 15.1 | 2.17 | 14.8 | 2.10 | 14.1 | 2.03 | 13.5 | 1.88 |
| | | 77.0 | 16.9 | 2.39 | 15.9 | 2.24 | 15.1 | 2.10 | 14.8 | 2.03 | 14.1 | 1.95 | 13.5 | 1.81 |
| | | 96.3 | 16.9 | 2.39 | 15.9 | 2.24 | 15.1 | 2.10 | 14.8 | 2.03 | 14.1 | 1.95 | 13.5 | 1.81 |
| | | 115.5 | 16.9 | 2.39 | 15.9 | 2.24 | 15.1 | 2.10 | 14.8 | 2.03 | 14.1 | 1.95 | 13.5 | 1.81 |
| | 25 | 30.8 | 16.9 | 2.19 | 15.9 | 2.05 | 15.1 | 1.88 | 14.8 | 1.90 | 14.1 | 1.74 | 13.5 | 1.68 |
| | | 38.5 | 16.9 | 2.17 | 15.9 | 2.03 | 15.1 | 1.88 | 14.8 | 1.88 | 14.1 | 1.74 | 13.5 | 1.66 |
| | | 77.0 | 16.9 | 2.10 | 15.9 | 1.95 | 15.1 | 1.88 | 14.8 | 1.81 | 14.1 | 1.74 | 13.5 | 1.59 |
| | | 96.3 | 16.9 | 2.10 | 15.9 | 1.95 | 15.1 | 1.81 | 14.8 | 1.81 | 14.1 | 1.74 | 13.5 | 1.59 |
| | | 115.5 | 16.9 | 2.10 | 15.9 | 1.95 | 15.1 | 1.78 | 14.8 | 1.81 | 14.1 | 1.74 | 13.5 | 1.59 |
| | 30 | 30.8 | 16.9 | 1.97 | 15.9 | 1.83 | 15.1 | 1.75 | 14.8 | 1.68 | 14.1 | 1.61 | 13.5 | 1.54 |
| | | 38.5 | 16.9 | 1.95 | 15.9 | 1.81 | 15.1 | 1.74 | 14.8 | 1.66 | 14.1 | 1.59 | 13.5 | 1.52 |
| | | 77.0 | 16.9 | 1.88 | 15.9 | 1.74 | 15.1 | 1.66 | 14.8 | 1.59 | 14.1 | 1.52 | 13.5 | 1.44 |
| | | 96.3 | 16.9 | 1.88 | 15.9 | 1.74 | 15.1 | 1.66 | 14.8 | 1.59 | 14.1 | 1.52 | 13.5 | 1.44 |
| | | 115.5 | 16.9 | 1.88 | 15.9 | 1.74 | 15.1 | 1.66 | 14.8 | 1.59 | 14.1 | 1.52 | 13.5 | 1.44 |
| | 35 | 30.8 | 16.9 | 1.74 | 15.9 | 1.68 | 15.1 | 1.52 | 14.8 | 1.54 | 14.1 | 1.46 | 13.5 | 1.40 |
| | | 38.5 | 16.9 | 1.74 | 15.9 | 1.66 | 15.1 | 1.52 | 14.8 | 1.52 | 14.1 | 1.44 | 13.5 | 1.38 |
| | | 77.0 | 16.9 | 1.74 | 15.9 | 1.59 | 15.1 | 1.52 | 14.8 | 1.44 | 14.1 | 1.38 | 13.5 | 1.30 |
| | | 96.3 | 16.9 | 1.74 | 15.9 | 1.59 | 15.1 | 1.44 | 14.8 | 1.44 | 14.1 | 1.38 | 13.5 | 1.30 |
| | | 115.5 | 16.9 | 1.74 | 15.9 | 1.59 | 15.1 | 1.41 | 14.8 | 1.44 | 14.1 | 1.38 | 13.5 | 1.30 |
| | 40 | 30.8 | 16.9 | 1.59 | 15.9 | 1.54 | 15.1 | 1.38 | 14.8 | 1.40 | 14.1 | 1.32 | 13.5 | 1.23 |
| | | 38.5 | 16.9 | 1.59 | 15.9 | 1.52 | 15.1 | 1.38 | 14.8 | 1.38 | 14.1 | 1.30 | 13.5 | 1.23 |
| | | 77.0 | 16.9 | 1.59 | 15.9 | 1.44 | 15.1 | 1.38 | 14.8 | 1.30 | 14.1 | 1.23 | 13.5 | 1.23 |
| | | 96.3 | 16.9 | 1.59 | 15.9 | 1.44 | 15.1 | 1.38 | 14.8 | 1.30 | 14.1 | 1.23 | 13.5 | 1.23 |
| | | 115.5 | 16.9 | 1.59 | 15.9 | 1.44 | 15.1 | 1.38 | 14.8 | 1.30 | 14.1 | 1.23 | 13.5 | 1.23 |
| | 45 | 30.8 | 16.9 | 1.44 | 15.9 | 1.40 | 15.1 | 1.23 | 14.8 | 1.24 | 14.1 | 1.18 | 13.5 | 1.07 |
| | | 38.5 | 16.9 | 1.44 | 15.9 | 1.38 | 15.1 | 1.23 | 14.8 | 1.23 | 14.1 | 1.16 | 13.5 | 1.09 |
| | | 77.0 | 16.9 | 1.44 | 15.9 | 1.30 | 15.1 | 1.23 | 14.8 | 1.16 | 14.1 | 1.09 | 13.5 | 1.16 |
| | | 96.3 | 16.9 | 1.44 | 15.9 | 1.30 | 15.1 | 1.30 | 14.8 | 1.16 | 14.1 | 1.09 | 13.5 | 1.16 |
| | | 115.5 | 16.9 | 1.44 | 15.9 | 1.30 | 15.1 | 1.34 | 14.8 | 1.16 | 14.1 | 1.09 | 13.5 | 1.16 |
| 50 | -5 | 30.8 | 5.6 | 1.69 | 5.3 | 1.60 | 5.0 | 1.52 | 4.9 | 1.43 | 4.9 | 1.35 | 4.8 | 1.28 |
| | | 38.5 | 5.8 | 1.73 | 5.5 | 1.64 | 5.2 | 1.55 | 5.1 | 1.47 | 5.1 | 1.38 | 5.0 | 1.30 |
| | | 77.0 | 6.6 | 1.87 | 6.2 | 1.78 | 5.9 | 1.68 | 5.8 | 1.59 | 5.8 | 1.50 | 5.6 | 1.41 |
| | | 96.3 | 7.3 | 2.02 | 6.8 | 1.92 | 6.5 | 1.81 | 6.4 | 1.72 | 6.4 | 1.61 | 6.3 | 1.52 |
| | | 115.5 | 7.6 | 2.10 | 7.2 | 1.98 | 6.8 | 1.88 | 6.7 | 1.79 | 6.6 | 1.67 | 6.6 | 1.58 |
| | 0 | 30.8 | 10.1 | 2.48 | 9.3 | 2.35 | 8.7 | 2.21 | 8.5 | 2.10 | 8.4 | 1.98 | 8.1 | 1.87 |
| | | 38.5 | 10.1 | 2.48 | 9.4 | 2.36 | 8.7 | 2.22 | 8.5 | 2.11 | 8.4 | 1.98 | 8.1 | 1.87 |
| | | 77.0 | 10.4 | 2.51 | 9.6 | 2.38 | 8.9 | 2.25 | 8.7 | 2.14 | 8.6 | 2.01 | 8.3 | 1.89 |
| | | 96.3 | 10.5 | 2.51 | 9.7 | 2.38 | 9.0 | 2.25 | 8.9 | 2.14 | 8.7 | 2.01 | 8.4 | 1.89 |
| | | 115.5 | 10.6 | 2.51 | 9.8 | 2.38 | 9.1 | 2.25 | 9.0 | 2.14 | 8.8 | 2.01 | 8.5 | 1.89 |
| | 5 | 30.8 | 13.9 | 2.70 | 13.2 | 2.55 | 12.6 | 2.41 | 12.3 | 2.29 | 11.7 | 2.15 | 11.2 | 2.02 |
| | | 38.5 | 13.9 | 2.71 | 13.2 | 2.57 | 12.6 | 2.42 | 12.3 | 2.30 | 11.7 | 2.16 | 11.2 | 2.04 |
| | | 77.0 | 14.1 | 2.76 | 13.3 | 2.62 | 12.6 | 2.48 | 12.3 | 2.35 | 11.7 | 2.20 | 11.2 | 2.08 |
| | | 96.3 | 14.1 | 2.78 | 13.3 | 2.64 | 12.6 | 2.49 | 12.3 | 2.36 | 11.7 | 2.22 | 11.2 | 2.10 |
| | | 115.5 | 14.1 | 2.79 | 13.3 | 2.65 | 12.6 | 2.50 | 12.3 | 2.37 | 11.7 | 2.23 | 11.2 | 2.10 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(8HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 30.8 | 14.0 | 2.48 | 13.2 | 2.34 | 12.6 | 2.20 | 12.3 | 2.10 | 11.7 | 1.94 | 11.2 | 1.85 |
| | | 38.5 | 14.0 | 2.48 | 13.2 | 2.33 | 12.6 | 2.19 | 12.3 | 2.10 | 11.7 | 1.95 | 11.2 | 1.85 |
| | | 77.0 | 14.1 | 2.46 | 13.3 | 2.33 | 12.6 | 2.18 | 12.3 | 2.08 | 11.7 | 1.97 | 11.2 | 1.83 |
| | | 96.3 | 14.1 | 2.48 | 13.3 | 2.33 | 12.6 | 2.18 | 12.3 | 2.09 | 11.7 | 1.94 | 11.2 | 1.84 |
| | | 115.5 | 14.1 | 2.48 | 13.3 | 2.34 | 12.6 | 2.19 | 12.3 | 2.09 | 11.7 | 1.92 | 11.2 | 1.84 |
| | 15 | 30.8 | 14.1 | 2.26 | 13.3 | 2.11 | 12.6 | 1.97 | 12.3 | 1.90 | 11.7 | 1.74 | 11.2 | 1.68 |
| | | 38.5 | 14.1 | 2.24 | 13.3 | 2.10 | 12.6 | 1.95 | 12.3 | 1.88 | 11.7 | 1.74 | 11.2 | 1.66 |
| | | 77.0 | 14.1 | 2.17 | 13.3 | 2.03 | 12.6 | 1.88 | 12.3 | 1.81 | 11.7 | 1.74 | 11.2 | 1.59 |
| | | 96.3 | 14.1 | 2.17 | 13.3 | 2.03 | 12.6 | 1.88 | 12.3 | 1.81 | 11.7 | 1.66 | 11.2 | 1.59 |
| | | 115.5 | 14.1 | 2.17 | 13.3 | 2.03 | 12.6 | 1.88 | 12.3 | 1.81 | 11.7 | 1.62 | 11.2 | 1.59 |
| | 20 | 30.8 | 14.1 | 1.97 | 13.3 | 1.83 | 12.6 | 1.75 | 12.3 | 1.68 | 11.7 | 1.61 | 11.2 | 1.44 |
| | | 38.5 | 14.1 | 1.95 | 13.3 | 1.81 | 12.6 | 1.74 | 12.3 | 1.66 | 11.7 | 1.59 | 11.2 | 1.44 |
| | | 77.0 | 14.1 | 1.88 | 13.3 | 1.74 | 12.6 | 1.66 | 12.3 | 1.59 | 11.7 | 1.52 | 11.2 | 1.44 |
| | | 96.3 | 14.1 | 1.88 | 13.3 | 1.74 | 12.6 | 1.66 | 12.3 | 1.59 | 11.7 | 1.52 | 11.2 | 1.44 |
| | | 115.5 | 14.1 | 1.88 | 13.3 | 1.74 | 12.6 | 1.66 | 12.3 | 1.59 | 11.7 | 1.52 | 11.2 | 1.44 |
| | 25 | 30.8 | 14.1 | 1.75 | 13.3 | 1.59 | 12.6 | 1.54 | 12.3 | 1.44 | 11.7 | 1.38 | 11.2 | 1.30 |
| | | 38.5 | 14.1 | 1.74 | 13.3 | 1.59 | 12.6 | 1.52 | 12.3 | 1.44 | 11.7 | 1.38 | 11.2 | 1.30 |
| | | 77.0 | 14.1 | 1.66 | 13.3 | 1.59 | 12.6 | 1.44 | 12.3 | 1.44 | 11.7 | 1.38 | 11.2 | 1.30 |
| | | 96.3 | 14.1 | 1.66 | 13.3 | 1.59 | 12.6 | 1.44 | 12.3 | 1.44 | 11.7 | 1.38 | 11.2 | 1.30 |
| | | 115.5 | 14.1 | 1.66 | 13.3 | 1.59 | 12.6 | 1.44 | 12.3 | 1.44 | 11.7 | 1.38 | 11.2 | 1.30 |
| | 30 | 30.8 | 14.1 | 1.61 | 13.3 | 1.46 | 12.6 | 1.40 | 12.3 | 1.30 | 11.7 | 1.32 | 11.2 | 1.24 |
| | | 38.5 | 14.1 | 1.59 | 13.3 | 1.44 | 12.6 | 1.38 | 12.3 | 1.30 | 11.7 | 1.30 | 11.2 | 1.23 |
| | | 77.0 | 14.1 | 1.52 | 13.3 | 1.38 | 12.6 | 1.30 | 12.3 | 1.30 | 11.7 | 1.23 | 11.2 | 1.16 |
| | | 96.3 | 14.1 | 1.52 | 13.3 | 1.38 | 12.6 | 1.30 | 12.3 | 1.30 | 11.7 | 1.23 | 11.2 | 1.16 |
| | | 115.5 | 14.1 | 1.52 | 13.3 | 1.38 | 12.6 | 1.30 | 12.3 | 1.30 | 11.7 | 1.23 | 11.2 | 1.16 |
| | 35 | 30.8 | 14.1 | 1.46 | 13.3 | 1.30 | 12.6 | 1.23 | 12.3 | 1.24 | 11.7 | 1.16 | 11.2 | 1.09 |
| | | 38.5 | 14.1 | 1.44 | 13.3 | 1.30 | 12.6 | 1.23 | 12.3 | 1.23 | 11.7 | 1.16 | 11.2 | 1.09 |
| | | 77.0 | 14.1 | 1.38 | 13.3 | 1.30 | 12.6 | 1.23 | 12.3 | 1.16 | 11.7 | 1.16 | 11.2 | 1.09 |
| | | 96.3 | 14.1 | 1.38 | 13.3 | 1.30 | 12.6 | 1.23 | 12.3 | 1.16 | 11.7 | 1.16 | 11.2 | 1.09 |
| | | 115.5 | 14.1 | 1.38 | 13.3 | 1.30 | 12.6 | 1.23 | 12.3 | 1.16 | 11.7 | 1.16 | 11.2 | 1.09 |
| | 40 | 30.8 | 14.1 | 1.32 | 13.3 | 1.24 | 12.6 | 1.18 | 12.3 | 1.09 | 11.7 | 1.10 | 11.2 | 1.01 |
| | | 38.5 | 14.1 | 1.30 | 13.3 | 1.23 | 12.6 | 1.16 | 12.3 | 1.09 | 11.7 | 1.09 | 11.2 | 1.01 |
| | | 77.0 | 14.1 | 1.23 | 13.3 | 1.16 | 12.6 | 1.09 | 12.3 | 1.09 | 11.7 | 1.01 | 11.2 | 1.01 |
| | | 96.3 | 14.1 | 1.23 | 13.3 | 1.16 | 12.6 | 1.09 | 12.3 | 1.09 | 11.7 | 1.01 | 11.2 | 1.01 |
| | | 115.5 | 14.1 | 1.23 | 13.3 | 1.16 | 12.6 | 1.09 | 12.3 | 1.09 | 11.7 | 1.01 | 11.2 | 1.01 |
| | 45 | 30.8 | 14.1 | 1.18 | 13.3 | 1.20 | 12.6 | 1.12 | 12.3 | 0.93 | 11.7 | 1.05 | 11.2 | 0.94 |
| | | 38.5 | 14.1 | 1.16 | 13.3 | 1.16 | 12.6 | 1.09 | 12.3 | 0.94 | 11.7 | 1.01 | 11.2 | 0.94 |
| | | 77.0 | 14.1 | 1.09 | 13.3 | 1.01 | 12.6 | 0.94 | 12.3 | 1.01 | 11.7 | 0.87 | 11.2 | 0.94 |
| | | 96.3 | 14.1 | 1.09 | 13.3 | 1.01 | 12.6 | 0.94 | 12.3 | 1.01 | 11.7 | 0.87 | 11.2 | 0.94 |
| | | 115.5 | 14.1 | 1.09 | 13.3 | 1.01 | 12.6 | 0.94 | 12.3 | 1.01 | 11.7 | 0.87 | 11.2 | 0.94 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN100BAS4

**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 38.4 | 14.9 | 5.90 | 14.8 | 5.55 | 14.7 | 5.17 | 14.5 | 5.01 | 14.7 | 4.88 | 14.3 | 4.38 |
| | | 48.0 | 15.4 | 6.00 | 15.3 | 5.66 | 15.2 | 5.28 | 15.0 | 5.13 | 15.2 | 4.99 | 14.8 | 4.47 |
| | | 96.0 | 17.4 | 6.41 | 17.3 | 6.09 | 17.2 | 5.73 | 17.0 | 5.56 | 17.2 | 5.41 | 16.7 | 4.85 |
| | | 120.0 | 19.3 | 6.81 | 19.1 | 6.50 | 19.0 | 6.17 | 18.8 | 6.01 | 19.0 | 5.83 | 18.5 | 5.23 |
| | | 144.0 | 20.2 | 7.02 | 20.0 | 6.71 | 19.9 | 6.40 | 19.7 | 6.23 | 19.9 | 6.05 | 19.4 | 5.42 |
| | 0 | 38.4 | 26.6 | 8.06 | 26.0 | 7.82 | 25.5 | 7.57 | 24.9 | 7.36 | 25.0 | 7.15 | 23.9 | 6.41 |
| | | 48.0 | 26.8 | 8.09 | 26.2 | 7.84 | 25.6 | 7.59 | 25.1 | 7.38 | 25.1 | 7.17 | 24.0 | 6.43 |
| | | 96.0 | 27.4 | 8.17 | 26.8 | 7.92 | 26.2 | 7.68 | 25.6 | 7.46 | 25.7 | 7.25 | 24.6 | 6.50 |
| | | 120.0 | 27.8 | 8.17 | 27.2 | 7.92 | 26.6 | 7.68 | 26.0 | 7.46 | 26.1 | 7.25 | 24.9 | 6.50 |
| | | 144.0 | 28.0 | 8.17 | 27.4 | 7.92 | 26.8 | 7.68 | 26.2 | 7.46 | 26.3 | 7.25 | 25.1 | 6.50 |
| | 5 | 38.4 | 38.3 | 8.67 | 37.8 | 8.45 | 37.0 | 8.24 | 36.0 | 8.01 | 35.1 | 7.78 | 33.1 | 6.97 |
| | | 48.0 | 38.5 | 8.71 | 37.8 | 8.49 | 37.0 | 8.28 | 36.0 | 8.05 | 35.1 | 7.82 | 33.1 | 7.01 |
| | | 96.0 | 39.0 | 8.86 | 38.1 | 8.65 | 37.0 | 8.45 | 36.0 | 8.21 | 35.1 | 7.98 | 33.1 | 7.15 |
| | | 120.0 | 39.2 | 8.92 | 38.2 | 8.71 | 37.0 | 8.50 | 36.0 | 8.27 | 35.1 | 8.04 | 33.1 | 7.20 |
| | | 144.0 | 39.4 | 8.95 | 38.3 | 8.74 | 37.0 | 8.53 | 36.0 | 8.30 | 35.1 | 8.07 | 33.1 | 7.23 |
| | 10 | 38.4 | 38.4 | 7.89 | 37.8 | 7.62 | 36.9 | 7.48 | 35.9 | 7.31 | 34.9 | 7.06 | 33.0 | 6.37 |
| | | 48.0 | 38.6 | 7.87 | 37.9 | 7.63 | 37.0 | 7.49 | 36.0 | 7.31 | 35.1 | 7.06 | 33.1 | 6.37 |
| | | 96.0 | 39.5 | 7.81 | 38.6 | 7.66 | 37.6 | 7.55 | 36.6 | 7.30 | 35.6 | 7.04 | 33.7 | 6.35 |
| | | 120.0 | 39.7 | 7.92 | 38.9 | 7.77 | 37.8 | 7.58 | 36.8 | 7.33 | 35.8 | 7.15 | 33.9 | 6.65 |
| | | 144.0 | 39.8 | 7.97 | 39.0 | 7.82 | 37.9 | 7.60 | 36.9 | 7.34 | 36.0 | 7.21 | 34.0 | 6.80 |
| | 15 | 38.4 | 38.4 | 7.11 | 37.8 | 6.80 | 36.7 | 6.73 | 35.7 | 6.62 | 34.8 | 6.34 | 32.9 | 5.78 |
| | | 48.0 | 38.8 | 7.04 | 38.1 | 6.78 | 37.0 | 6.72 | 36.0 | 6.57 | 35.1 | 6.29 | 33.1 | 5.73 |
| | | 96.0 | 40.0 | 6.76 | 39.2 | 6.66 | 38.2 | 6.66 | 37.2 | 6.38 | 36.1 | 6.10 | 34.2 | 5.53 |
| | | 120.0 | 40.2 | 6.92 | 39.6 | 6.81 | 38.6 | 6.66 | 37.6 | 6.38 | 36.6 | 6.27 | 34.6 | 6.10 |
| | | 144.0 | 40.3 | 7.00 | 39.8 | 6.89 | 38.9 | 6.66 | 37.8 | 6.38 | 36.9 | 6.36 | 34.8 | 6.38 |
| | 20 | 38.4 | 39.9 | 6.52 | 39.2 | 6.22 | 38.1 | 6.08 | 37.1 | 5.89 | 36.0 | 5.76 | 33.9 | 5.58 |
| | | 48.0 | 40.2 | 6.47 | 39.5 | 6.21 | 38.4 | 6.08 | 37.4 | 5.91 | 36.3 | 5.80 | 34.2 | 5.53 |
| | | 96.0 | 41.5 | 6.29 | 40.8 | 6.19 | 39.6 | 6.06 | 38.6 | 6.01 | 37.6 | 5.95 | 35.5 | 5.35 |
| | | 120.0 | 41.7 | 6.29 | 41.1 | 6.19 | 40.1 | 6.10 | 38.9 | 6.01 | 37.9 | 5.95 | 35.7 | 5.69 |
| | | 144.0 | 41.8 | 6.29 | 41.2 | 6.19 | 40.3 | 6.12 | 39.1 | 6.01 | 38.0 | 5.95 | 35.9 | 5.86 |
| | 25 | 38.4 | 42.1 | 6.22 | 41.1 | 6.04 | 40.1 | 5.94 | 39.3 | 5.84 | 38.4 | 5.75 | 36.2 | 5.37 |
| | | 48.0 | 42.1 | 6.19 | 41.1 | 6.03 | 40.1 | 5.91 | 39.3 | 5.81 | 38.4 | 5.73 | 36.2 | 5.35 |
| | | 96.0 | 42.1 | 6.10 | 41.1 | 5.99 | 40.1 | 5.81 | 39.3 | 5.73 | 38.4 | 5.63 | 36.2 | 5.25 |
| | | 120.0 | 42.1 | 6.01 | 41.1 | 5.83 | 40.1 | 5.73 | 39.3 | 5.63 | 38.4 | 5.53 | 36.2 | 5.16 |
| | | 144.0 | 42.1 | 5.96 | 41.1 | 5.76 | 40.1 | 5.68 | 39.3 | 5.58 | 38.4 | 5.48 | 36.2 | 5.12 |
| | 30 | 38.4 | 42.1 | 6.06 | 41.1 | 5.76 | 40.1 | 5.70 | 39.3 | 5.55 | 38.4 | 5.49 | 36.2 | 5.11 |
| | | 48.0 | 42.1 | 6.01 | 41.1 | 5.75 | 40.1 | 5.67 | 39.3 | 5.53 | 38.4 | 5.45 | 36.2 | 5.07 |
| | | 96.0 | 42.1 | 5.81 | 41.1 | 5.71 | 40.1 | 5.53 | 39.3 | 5.45 | 38.4 | 5.25 | 36.2 | 4.88 |
| | | 120.0 | 42.1 | 5.73 | 41.1 | 5.55 | 40.1 | 5.45 | 39.3 | 5.35 | 38.4 | 5.25 | 36.2 | 4.88 |
| | | 144.0 | 42.1 | 5.68 | 41.1 | 5.47 | 40.1 | 5.40 | 39.3 | 5.30 | 38.4 | 5.25 | 36.2 | 4.88 |
| | 35 | 38.4 | 42.1 | 5.78 | 41.1 | 5.58 | 40.1 | 5.47 | 39.3 | 5.27 | 38.4 | 5.09 | 36.2 | 4.74 |
| | | 48.0 | 42.1 | 5.73 | 41.1 | 5.55 | 40.1 | 5.45 | 39.3 | 5.25 | 38.4 | 5.07 | 36.2 | 4.69 |
| | | 96.0 | 42.1 | 5.53 | 41.1 | 5.43 | 40.1 | 5.35 | 39.3 | 5.16 | 38.4 | 4.97 | 36.2 | 4.50 |
| | | 120.0 | 42.1 | 5.53 | 41.1 | 5.37 | 40.1 | 5.25 | 39.3 | 5.07 | 38.4 | 4.88 | 36.2 | 4.50 |
| | | 144.0 | 42.1 | 5.53 | 41.1 | 5.34 | 40.1 | 5.20 | 39.3 | 5.02 | 38.4 | 4.84 | 36.2 | 4.50 |
| | 40 | 38.4 | 42.1 | 5.58 | 41.1 | 5.40 | 40.1 | 5.30 | 39.3 | 5.11 | 38.4 | 4.93 | 36.2 | 4.45 |
| | | 48.0 | 42.1 | 5.53 | 41.1 | 5.37 | 40.1 | 5.25 | 39.3 | 5.07 | 38.4 | 4.88 | 36.2 | 4.41 |
| | | 96.0 | 42.1 | 5.35 | 41.1 | 5.23 | 40.1 | 5.07 | 39.3 | 4.88 | 38.4 | 4.69 | 36.2 | 4.22 |
| | | 120.0 | 42.1 | 5.25 | 41.1 | 5.14 | 40.1 | 5.07 | 39.3 | 4.88 | 38.4 | 4.69 | 36.2 | 4.22 |
| | | 144.0 | 42.1 | 5.20 | 41.1 | 5.10 | 40.1 | 5.07 | 39.3 | 4.88 | 38.4 | 4.69 | 36.2 | 4.22 |
| | 45 | 38.4 | 42.1 | 5.40 | 41.1 | 5.22 | 40.1 | 5.14 | 39.3 | 4.95 | 38.4 | 4.76 | 36.2 | 4.17 |
| | | 48.0 | 42.1 | 5.35 | 41.1 | 5.18 | 40.1 | 5.07 | 39.3 | 4.88 | 38.4 | 4.69 | 36.2 | 4.13 |
| | | 96.0 | 42.1 | 5.16 | 41.1 | 5.05 | 40.1 | 4.79 | 39.3 | 4.60 | 38.4 | 4.41 | 36.2 | 3.94 |
| | | 120.0 | 42.1 | 4.97 | 41.1 | 4.92 | 40.1 | 4.88 | 39.3 | 4.69 | 38.4 | 4.50 | 36.2 | 3.94 |
| | | 144.0 | 42.1 | 4.87 | 41.1 | 4.86 | 40.1 | 4.93 | 39.3 | 4.73 | 38.4 | 4.55 | 36.2 | 3.94 |
| 120 | -5 | 38.4 | 14.2 | 5.90 | 14.1 | 5.55 | 14.0 | 5.17 | 13.8 | 4.95 | 13.9 | 4.81 | 13.5 | 4.30 |
| | | 48.0 | 14.7 | 6.00 | 14.5 | 5.66 | 14.4 | 5.28 | 14.3 | 5.06 | 14.4 | 4.91 | 14.0 | 4.40 |
| | | 96.0 | 16.6 | 6.41 | 16.4 | 6.09 | 16.4 | 5.73 | 16.1 | 5.48 | 16.3 | 5.33 | 15.9 | 4.78 |
| | | 120.0 | 18.3 | 6.81 | 18.2 | 6.50 | 18.1 | 6.17 | 17.8 | 5.92 | 18.0 | 5.75 | 17.5 | 5.14 |
| | | 144.0 | 19.2 | 7.02 | 19.0 | 6.71 | 18.9 | 6.40 | 18.7 | 6.14 | 18.8 | 5.96 | 18.3 | 5.33 |
| | 0 | 38.4 | 25.3 | 8.06 | 24.7 | 7.82 | 24.2 | 7.57 | 23.7 | 7.25 | 23.7 | 7.05 | 22.6 | 6.30 |
| | | 48.0 | 25.5 | 8.09 | 24.8 | 7.84 | 24.3 | 7.59 | 23.8 | 7.27 | 23.8 | 7.07 | 22.7 | 6.32 |
| | | 96.0 | 26.0 | 8.17 | 25.4 | 7.92 | 24.9 | 7.68 | 24.4 | 7.36 | 24.4 | 7.14 | 23.3 | 6.40 |
| | | 120.0 | 26.5 | 8.17 | 25.8 | 7.92 | 25.3 | 7.68 | 24.8 | 7.36 | 24.7 | 7.14 | 23.6 | 6.40 |
| | | 144.0 | 26.7 | 8.17 | 26.1 | 7.92 | 25.5 | 7.68 | 25.0 | 7.36 | 24.9 | 7.14 | 23.8 | 6.40 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 38.4 | 36.5 | 8.67 | 35.9 | 8.45 | 35.2 | 8.24 | 34.3 | 7.89 | 33.2 | 7.67 | 31.4 | 6.87 |
| | | 48.0 | 36.6 | 8.71 | 36.0 | 8.49 | 35.2 | 8.28 | 34.3 | 7.93 | 33.2 | 7.71 | 31.4 | 6.90 |
| | | 96.0 | 37.2 | 8.86 | 36.3 | 8.65 | 35.2 | 8.45 | 34.3 | 8.10 | 33.2 | 7.86 | 31.4 | 7.04 |
| | | 120.0 | 37.4 | 8.92 | 36.1 | 8.71 | 35.2 | 8.50 | 34.3 | 8.15 | 33.2 | 7.92 | 31.4 | 7.09 |
| | | 144.0 | 37.5 | 8.95 | 36.0 | 8.74 | 35.2 | 8.53 | 34.3 | 8.18 | 33.2 | 7.95 | 31.4 | 7.11 |
| | 10 | 38.4 | 36.6 | 7.79 | 36.0 | 7.57 | 35.1 | 7.42 | 34.2 | 7.19 | 33.1 | 6.96 | 31.3 | 6.25 |
| | | 48.0 | 36.8 | 7.81 | 36.1 | 7.60 | 35.2 | 7.45 | 34.3 | 7.20 | 33.2 | 6.95 | 31.4 | 6.26 |
| | | 96.0 | 37.5 | 7.92 | 36.7 | 7.72 | 35.5 | 7.55 | 34.7 | 7.24 | 33.6 | 6.93 | 31.7 | 6.29 |
| | | 120.0 | 37.7 | 7.89 | 36.6 | 7.72 | 35.7 | 7.58 | 34.8 | 7.27 | 33.7 | 6.96 | 31.9 | 6.50 |
| | | 144.0 | 37.8 | 7.88 | 36.5 | 7.72 | 35.8 | 7.60 | 34.9 | 7.29 | 33.8 | 6.97 | 32.0 | 6.61 |
| | 15 | 38.4 | 36.7 | 6.91 | 36.0 | 6.70 | 35.0 | 6.60 | 34.1 | 6.50 | 33.1 | 6.24 | 31.2 | 5.65 |
| | | 48.0 | 37.0 | 6.92 | 36.2 | 6.72 | 35.2 | 6.61 | 34.3 | 6.47 | 33.2 | 6.19 | 31.4 | 5.63 |
| | | 96.0 | 37.8 | 6.98 | 37.1 | 6.78 | 36.0 | 6.66 | 35.1 | 6.38 | 33.9 | 6.01 | 32.1 | 5.53 |
| | | 120.0 | 38.0 | 6.87 | 37.1 | 6.72 | 36.2 | 6.66 | 35.4 | 6.38 | 34.2 | 6.01 | 32.4 | 5.91 |
| | | 144.0 | 38.1 | 6.82 | 37.1 | 6.69 | 36.4 | 6.66 | 35.5 | 6.38 | 34.3 | 6.01 | 32.5 | 6.10 |
| | 20 | 38.4 | 37.8 | 6.21 | 37.1 | 5.95 | 35.9 | 5.79 | 34.9 | 5.71 | 33.8 | 5.63 | 32.0 | 5.35 |
| | | 48.0 | 38.0 | 6.21 | 37.3 | 5.97 | 36.1 | 5.81 | 35.2 | 5.73 | 34.0 | 5.63 | 32.2 | 5.33 |
| | | 96.0 | 39.0 | 6.21 | 38.2 | 6.06 | 36.9 | 5.91 | 36.0 | 5.81 | 34.9 | 5.61 | 32.9 | 5.25 |
| | | 120.0 | 39.1 | 6.15 | 38.1 | 6.01 | 37.2 | 5.91 | 36.2 | 5.81 | 35.1 | 5.63 | 33.1 | 5.45 |
| | | 144.0 | 39.2 | 6.12 | 38.1 | 5.98 | 37.4 | 5.91 | 36.4 | 5.81 | 35.2 | 5.64 | 33.2 | 5.54 |
| | 25 | 38.4 | 39.6 | 5.88 | 38.4 | 5.60 | 37.2 | 5.49 | 36.4 | 5.37 | 35.5 | 5.27 | 33.5 | 4.91 |
| | | 48.0 | 39.6 | 5.85 | 38.4 | 5.59 | 37.2 | 5.48 | 36.4 | 5.35 | 35.5 | 5.25 | 33.5 | 4.88 |
| | | 96.0 | 39.7 | 5.77 | 38.4 | 5.55 | 37.2 | 5.45 | 36.4 | 5.25 | 35.5 | 5.16 | 33.5 | 4.79 |
| | | 120.0 | 39.8 | 5.55 | 38.4 | 5.41 | 37.2 | 5.35 | 36.4 | 5.25 | 35.5 | 5.07 | 33.5 | 4.79 |
| | | 144.0 | 39.9 | 5.44 | 38.4 | 5.33 | 37.2 | 5.30 | 36.4 | 5.25 | 35.5 | 5.02 | 33.5 | 4.79 |
| | 30 | 38.4 | 39.8 | 5.62 | 38.4 | 5.34 | 37.2 | 5.19 | 36.4 | 4.99 | 35.5 | 4.93 | 33.5 | 4.53 |
| | | 48.0 | 39.8 | 5.57 | 38.4 | 5.31 | 37.2 | 5.16 | 36.4 | 4.97 | 35.5 | 4.88 | 33.5 | 4.50 |
| | | 96.0 | 39.8 | 5.39 | 38.4 | 5.18 | 37.2 | 5.07 | 36.4 | 4.88 | 35.5 | 4.69 | 33.5 | 4.41 |
| | | 120.0 | 39.8 | 5.21 | 38.4 | 5.07 | 37.2 | 4.97 | 36.4 | 4.88 | 35.5 | 4.69 | 33.5 | 4.32 |
| | | 144.0 | 39.8 | 5.12 | 38.4 | 5.01 | 37.2 | 4.92 | 36.4 | 4.88 | 35.5 | 4.69 | 33.5 | 4.28 |
| | 35 | 38.4 | 39.8 | 5.37 | 38.4 | 5.07 | 37.2 | 4.93 | 36.4 | 4.74 | 35.5 | 4.55 | 33.5 | 4.15 |
| | | 48.0 | 39.8 | 5.29 | 38.4 | 5.03 | 37.2 | 4.88 | 36.4 | 4.69 | 35.5 | 4.50 | 33.5 | 4.13 |
| | | 96.0 | 39.8 | 4.99 | 38.4 | 4.84 | 37.2 | 4.69 | 36.4 | 4.50 | 35.5 | 4.32 | 33.5 | 4.04 |
| | | 120.0 | 39.8 | 4.93 | 38.4 | 4.80 | 37.2 | 4.69 | 36.4 | 4.50 | 35.5 | 4.32 | 33.5 | 3.94 |
| | | 144.0 | 39.8 | 4.90 | 38.4 | 4.79 | 37.2 | 4.69 | 36.4 | 4.50 | 35.5 | 4.32 | 33.5 | 3.89 |
| | 40 | 38.4 | 39.8 | 5.21 | 38.4 | 4.84 | 37.2 | 4.65 | 36.4 | 4.45 | 35.5 | 4.27 | 33.5 | 3.87 |
| | | 48.0 | 39.8 | 5.11 | 38.4 | 4.79 | 37.2 | 4.60 | 36.4 | 4.41 | 35.5 | 4.22 | 33.5 | 3.84 |
| | | 96.0 | 39.8 | 4.71 | 38.4 | 4.56 | 37.2 | 4.41 | 36.4 | 4.22 | 35.5 | 4.04 | 33.5 | 3.76 |
| | | 120.0 | 39.8 | 4.65 | 38.4 | 4.50 | 37.2 | 4.41 | 36.4 | 4.22 | 35.5 | 4.04 | 33.5 | 3.66 |
| | | 144.0 | 39.8 | 4.62 | 38.4 | 4.47 | 37.2 | 4.41 | 36.4 | 4.22 | 35.5 | 4.04 | 33.5 | 3.61 |
| | 45 | 38.4 | 39.8 | 5.05 | 38.4 | 4.61 | 37.2 | 4.37 | 36.4 | 4.17 | 35.5 | 3.99 | 33.5 | 3.58 |
| | | 48.0 | 39.8 | 4.92 | 38.4 | 4.54 | 37.2 | 4.32 | 36.4 | 4.13 | 35.5 | 3.94 | 33.5 | 3.56 |
| | | 96.0 | 39.8 | 4.43 | 38.4 | 4.28 | 37.2 | 4.13 | 36.4 | 3.94 | 35.5 | 3.76 | 33.5 | 3.48 |
| | | 120.0 | 39.8 | 4.37 | 38.4 | 4.20 | 37.2 | 4.13 | 36.4 | 3.94 | 35.5 | 3.76 | 33.5 | 3.38 |
| | | 144.0 | 39.8 | 4.34 | 38.4 | 4.16 | 37.2 | 4.13 | 36.4 | 3.94 | 35.5 | 3.76 | 33.5 | 3.33 |
| 110 | -5 | 38.4 | 13.4 | 5.97 | 13.3 | 5.55 | 13.2 | 5.17 | 13.1 | 4.95 | 13.1 | 4.81 | 12.8 | 4.30 |
| | | 48.0 | 13.9 | 6.08 | 13.8 | 5.66 | 13.7 | 5.28 | 13.5 | 5.06 | 13.6 | 4.91 | 13.3 | 4.40 |
| | | 96.0 | 15.7 | 6.48 | 15.6 | 6.09 | 15.5 | 5.73 | 15.3 | 5.48 | 15.3 | 5.33 | 15.0 | 4.78 |
| | | 120.0 | 17.3 | 6.90 | 17.2 | 6.50 | 17.1 | 6.17 | 16.9 | 5.92 | 16.9 | 5.75 | 16.6 | 5.14 |
| | | 144.0 | 18.1 | 7.11 | 18.0 | 6.71 | 17.9 | 6.40 | 17.7 | 6.14 | 17.7 | 5.96 | 17.4 | 5.33 |
| | 0 | 38.4 | 23.9 | 8.17 | 23.4 | 7.82 | 22.9 | 7.57 | 22.5 | 7.25 | 22.3 | 7.05 | 21.4 | 6.30 |
| | | 48.0 | 24.1 | 8.19 | 23.6 | 7.84 | 23.1 | 7.59 | 22.6 | 7.27 | 22.4 | 7.07 | 21.6 | 6.32 |
| | | 96.0 | 24.6 | 8.27 | 24.1 | 7.92 | 23.6 | 7.68 | 23.1 | 7.36 | 22.9 | 7.14 | 22.1 | 6.40 |
| | | 120.0 | 25.0 | 8.27 | 24.5 | 7.92 | 24.0 | 7.68 | 23.5 | 7.36 | 23.3 | 7.14 | 22.4 | 6.40 |
| | | 144.0 | 25.2 | 8.27 | 24.7 | 7.92 | 24.2 | 7.68 | 23.7 | 7.36 | 23.5 | 7.14 | 22.5 | 6.40 |
| | 5 | 38.4 | 34.9 | 8.78 | 34.1 | 8.45 | 33.3 | 8.24 | 32.6 | 7.89 | 31.3 | 7.67 | 29.8 | 6.87 |
| | | 48.0 | 35.0 | 8.82 | 34.2 | 8.49 | 33.3 | 8.28 | 32.6 | 7.93 | 31.3 | 7.71 | 29.8 | 6.90 |
| | | 96.0 | 35.5 | 8.98 | 34.4 | 8.65 | 33.3 | 8.45 | 32.6 | 8.10 | 31.3 | 7.86 | 29.8 | 7.04 |
| | | 120.0 | 35.7 | 9.04 | 34.5 | 8.71 | 33.3 | 8.50 | 32.6 | 8.15 | 31.3 | 7.92 | 29.8 | 7.09 |
| | | 144.0 | 35.8 | 9.07 | 34.6 | 8.74 | 33.3 | 8.53 | 32.6 | 8.18 | 31.3 | 7.95 | 29.8 | 7.11 |
| | 10 | 38.4 | 35.1 | 7.88 | 34.2 | 7.61 | 33.3 | 7.44 | 32.5 | 7.19 | 31.2 | 6.96 | 29.7 | 6.25 |
| | | 48.0 | 35.2 | 7.89 | 34.3 | 7.63 | 33.3 | 7.46 | 32.6 | 7.20 | 31.3 | 6.95 | 29.8 | 6.26 |
| | | 96.0 | 35.7 | 7.95 | 34.6 | 7.72 | 33.5 | 7.55 | 32.8 | 7.24 | 31.5 | 6.93 | 29.9 | 6.29 |
| | | 120.0 | 35.9 | 7.95 | 34.8 | 7.72 | 33.6 | 7.53 | 32.8 | 7.22 | 31.6 | 6.96 | 30.0 | 6.36 |
| | | 144.0 | 36.0 | 7.95 | 34.9 | 7.72 | 33.7 | 7.52 | 32.8 | 7.21 | 31.6 | 6.97 | 30.0 | 6.39 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 38.4 | 35.2 | 6.97 | 34.2 | 6.78 | 33.2 | 6.66 | 32.5 | 6.50 | 31.2 | 6.24 | 29.7 | 5.65 |
| | | 48.0 | 35.3 | 6.96 | 34.4 | 6.78 | 33.3 | 6.66 | 32.6 | 6.47 | 31.3 | 6.19 | 29.8 | 5.63 |
| | | 96.0 | 35.9 | 6.92 | 34.9 | 6.78 | 33.7 | 6.66 | 32.9 | 6.38 | 31.7 | 6.01 | 30.1 | 5.53 |
| | | 120.0 | 36.1 | 6.87 | 35.0 | 6.72 | 33.9 | 6.57 | 33.1 | 6.29 | 31.8 | 6.01 | 30.2 | 5.63 |
| | | 144.0 | 36.2 | 6.85 | 35.1 | 6.69 | 34.0 | 6.53 | 33.1 | 6.25 | 31.8 | 6.01 | 30.3 | 5.68 |
| | 20 | 38.4 | 35.8 | 6.02 | 34.8 | 5.87 | 33.7 | 5.73 | 32.8 | 5.63 | 31.6 | 5.47 | 29.9 | 5.12 |
| | | 48.0 | 36.0 | 6.03 | 35.0 | 5.87 | 33.8 | 5.73 | 32.9 | 5.63 | 31.7 | 5.45 | 30.1 | 5.11 |
| | | 96.0 | 36.8 | 6.08 | 35.4 | 5.87 | 34.2 | 5.73 | 33.4 | 5.63 | 32.1 | 5.35 | 30.5 | 5.07 |
| | | 120.0 | 37.0 | 6.08 | 35.7 | 5.87 | 34.4 | 5.73 | 33.5 | 5.53 | 32.3 | 5.35 | 30.6 | 5.07 |
| | | 144.0 | 37.1 | 6.08 | 35.9 | 5.87 | 34.5 | 5.73 | 33.6 | 5.48 | 32.4 | 5.35 | 30.7 | 5.07 |
| | 25 | 38.4 | 36.9 | 5.47 | 35.8 | 5.27 | 34.4 | 5.19 | 33.6 | 4.99 | 32.5 | 4.81 | 30.7 | 4.41 |
| | | 48.0 | 37.0 | 5.46 | 35.8 | 5.25 | 34.4 | 5.16 | 33.6 | 4.97 | 32.5 | 4.79 | 30.7 | 4.41 |
| | | 96.0 | 37.3 | 5.43 | 35.8 | 5.16 | 34.4 | 5.07 | 33.6 | 4.88 | 32.5 | 4.69 | 30.7 | 4.41 |
| | | 120.0 | 37.5 | 5.43 | 35.8 | 5.18 | 34.4 | 4.97 | 33.6 | 4.88 | 32.5 | 4.60 | 30.7 | 4.32 |
| | | 144.0 | 37.6 | 5.43 | 35.8 | 5.19 | 34.4 | 4.92 | 33.6 | 4.88 | 32.5 | 4.56 | 30.7 | 4.28 |
| | 30 | 38.4 | 37.5 | 4.99 | 35.8 | 4.81 | 34.4 | 4.63 | 33.6 | 4.53 | 32.5 | 4.25 | 30.7 | 3.97 |
| | | 48.0 | 37.5 | 4.97 | 35.8 | 4.79 | 34.4 | 4.60 | 33.6 | 4.50 | 32.5 | 4.22 | 30.7 | 3.94 |
| | | 96.0 | 37.5 | 4.88 | 35.8 | 4.69 | 34.4 | 4.50 | 33.6 | 4.41 | 32.5 | 4.13 | 30.7 | 3.84 |
| | | 120.0 | 37.5 | 4.84 | 35.8 | 4.60 | 34.4 | 4.41 | 33.6 | 4.32 | 32.5 | 4.13 | 30.7 | 3.84 |
| | | 144.0 | 37.5 | 4.82 | 35.8 | 4.56 | 34.4 | 4.36 | 33.6 | 4.28 | 32.5 | 4.13 | 30.7 | 3.84 |
| | 35 | 38.4 | 37.5 | 4.74 | 35.8 | 4.43 | 34.4 | 4.25 | 33.6 | 4.06 | 32.5 | 3.87 | 30.7 | 3.58 |
| | | 48.0 | 37.5 | 4.69 | 35.8 | 4.41 | 34.4 | 4.22 | 33.6 | 4.04 | 32.5 | 3.84 | 30.7 | 3.56 |
| | | 96.0 | 37.5 | 4.50 | 35.8 | 4.32 | 34.4 | 4.13 | 33.6 | 3.94 | 32.5 | 3.76 | 30.7 | 3.48 |
| | | 120.0 | 37.5 | 4.39 | 35.8 | 4.22 | 34.4 | 4.04 | 33.6 | 3.94 | 32.5 | 3.76 | 30.7 | 3.48 |
| | | 144.0 | 37.5 | 4.33 | 35.8 | 4.17 | 34.4 | 3.99 | 33.6 | 3.94 | 32.5 | 3.76 | 30.7 | 3.48 |
| | 40 | 38.4 | 37.5 | 4.45 | 35.8 | 4.27 | 34.4 | 3.99 | 33.6 | 3.78 | 32.5 | 3.58 | 30.7 | 3.30 |
| | | 48.0 | 37.5 | 4.41 | 35.8 | 4.22 | 34.4 | 3.94 | 33.6 | 3.76 | 32.5 | 3.56 | 30.7 | 3.28 |
| | | 96.0 | 37.5 | 4.22 | 35.8 | 4.04 | 34.4 | 3.76 | 33.6 | 3.66 | 32.5 | 3.48 | 30.7 | 3.19 |
| | | 120.0 | 37.5 | 4.16 | 35.8 | 3.94 | 34.4 | 3.76 | 33.6 | 3.56 | 32.5 | 3.38 | 30.7 | 3.10 |
| | | 144.0 | 37.5 | 4.13 | 35.8 | 3.89 | 34.4 | 3.76 | 33.6 | 3.51 | 32.5 | 3.33 | 30.7 | 3.05 |
| | 45 | 38.4 | 37.5 | 4.17 | 35.8 | 4.11 | 34.4 | 3.73 | 33.6 | 3.50 | 32.5 | 3.30 | 30.7 | 3.02 |
| | | 48.0 | 37.5 | 4.13 | 35.8 | 4.04 | 34.4 | 3.66 | 33.6 | 3.48 | 32.5 | 3.28 | 30.7 | 3.00 |
| | | 96.0 | 37.5 | 3.94 | 35.8 | 3.76 | 34.4 | 3.38 | 33.6 | 3.38 | 32.5 | 3.19 | 30.7 | 2.91 |
| | | 120.0 | 37.5 | 3.94 | 35.8 | 3.66 | 34.4 | 3.48 | 33.6 | 3.19 | 32.5 | 3.00 | 30.7 | 2.72 |
| | | 144.0 | 37.5 | 3.94 | 35.8 | 3.61 | 34.4 | 3.52 | 33.6 | 3.10 | 32.5 | 2.90 | 30.7 | 2.62 |
| 100 | -5 | 38.4 | 12.7 | 5.97 | 12.6 | 5.63 | 12.5 | 5.17 | 12.4 | 4.95 | 12.3 | 4.73 | 12.1 | 4.30 |
| | | 48.0 | 13.1 | 6.08 | 13.0 | 5.74 | 13.0 | 5.28 | 12.8 | 5.06 | 12.7 | 4.83 | 12.5 | 4.40 |
| | | 96.0 | 14.8 | 6.48 | 14.7 | 6.16 | 14.7 | 5.73 | 14.5 | 5.48 | 14.4 | 5.25 | 14.2 | 4.78 |
| | | 120.0 | 16.4 | 6.90 | 16.3 | 6.59 | 16.2 | 6.17 | 16.0 | 5.92 | 15.9 | 5.66 | 15.6 | 5.14 |
| | | 144.0 | 17.2 | 7.11 | 17.0 | 6.81 | 16.9 | 6.40 | 16.8 | 6.14 | 16.7 | 5.86 | 16.4 | 5.33 |
| | 0 | 38.4 | 22.6 | 8.17 | 22.1 | 7.93 | 21.7 | 7.57 | 21.3 | 7.25 | 20.9 | 6.94 | 20.2 | 6.30 |
| | | 48.0 | 22.8 | 8.19 | 22.3 | 7.95 | 21.8 | 7.59 | 21.4 | 7.27 | 21.0 | 6.96 | 20.3 | 6.32 |
| | | 96.0 | 23.3 | 8.27 | 22.8 | 8.03 | 22.3 | 7.68 | 21.9 | 7.36 | 21.5 | 7.04 | 20.8 | 6.40 |
| | | 120.0 | 23.6 | 8.27 | 23.1 | 8.03 | 22.7 | 7.68 | 22.2 | 7.36 | 21.9 | 7.04 | 21.1 | 6.40 |
| | | 144.0 | 23.8 | 8.27 | 23.3 | 8.03 | 22.8 | 7.68 | 22.4 | 7.36 | 22.0 | 7.04 | 21.3 | 6.40 |
| | 5 | 38.4 | 33.4 | 8.78 | 32.3 | 8.57 | 31.5 | 8.24 | 30.8 | 7.89 | 29.4 | 7.55 | 28.0 | 6.87 |
| | | 48.0 | 33.5 | 8.82 | 32.3 | 8.61 | 31.5 | 8.28 | 30.8 | 7.93 | 29.4 | 7.59 | 28.0 | 6.90 |
| | | 96.0 | 34.0 | 8.98 | 32.6 | 8.77 | 31.5 | 8.45 | 30.8 | 8.10 | 29.4 | 7.75 | 28.0 | 7.04 |
| | | 120.0 | 34.2 | 9.04 | 32.7 | 8.82 | 31.5 | 8.50 | 30.8 | 8.15 | 29.4 | 7.79 | 28.0 | 7.09 |
| | | 144.0 | 34.3 | 9.07 | 32.7 | 8.85 | 31.5 | 8.53 | 30.8 | 8.18 | 29.4 | 7.82 | 28.0 | 7.11 |
| | 10 | 38.4 | 33.6 | 7.85 | 32.4 | 7.68 | 31.5 | 7.44 | 30.8 | 7.19 | 29.4 | 6.84 | 28.0 | 6.25 |
| | | 48.0 | 33.7 | 7.89 | 32.4 | 7.71 | 31.5 | 7.46 | 30.8 | 7.20 | 29.4 | 6.84 | 28.0 | 6.26 |
| | | 96.0 | 34.0 | 8.04 | 32.6 | 7.80 | 31.5 | 7.55 | 30.8 | 7.24 | 29.4 | 6.87 | 28.0 | 6.29 |
| | | 120.0 | 34.2 | 8.01 | 32.8 | 7.80 | 31.5 | 7.53 | 30.8 | 7.22 | 29.4 | 6.85 | 28.0 | 6.26 |
| | | 144.0 | 34.3 | 7.99 | 32.8 | 7.80 | 31.5 | 7.52 | 30.8 | 7.21 | 29.4 | 6.84 | 28.0 | 6.25 |
| | 15 | 38.4 | 33.8 | 6.93 | 32.5 | 6.81 | 31.5 | 6.66 | 30.8 | 6.50 | 29.4 | 6.12 | 28.0 | 5.65 |
| | | 48.0 | 33.8 | 6.96 | 32.6 | 6.81 | 31.5 | 6.66 | 30.8 | 6.47 | 29.4 | 6.10 | 28.0 | 5.63 |
| | | 96.0 | 34.0 | 7.10 | 32.6 | 6.83 | 31.5 | 6.66 | 30.8 | 6.38 | 29.4 | 6.01 | 28.0 | 5.53 |
| | | 120.0 | 34.3 | 6.98 | 32.8 | 6.78 | 31.5 | 6.57 | 30.8 | 6.29 | 29.4 | 5.91 | 28.0 | 5.45 |
| | | 144.0 | 34.4 | 6.92 | 32.9 | 6.75 | 31.5 | 6.53 | 30.8 | 6.25 | 29.4 | 5.86 | 28.0 | 5.40 |
| | 20 | 38.4 | 34.0 | 5.92 | 32.7 | 5.77 | 31.5 | 5.63 | 30.8 | 5.55 | 29.4 | 5.19 | 28.0 | 4.93 |
| | | 48.0 | 34.1 | 5.95 | 32.7 | 5.78 | 31.5 | 5.63 | 30.8 | 5.53 | 29.4 | 5.16 | 28.0 | 4.88 |
| | | 96.0 | 34.6 | 6.06 | 32.8 | 5.80 | 31.5 | 5.63 | 30.8 | 5.45 | 29.4 | 5.07 | 28.0 | 4.69 |
| | | 120.0 | 34.8 | 5.95 | 33.1 | 5.75 | 31.5 | 5.53 | 30.8 | 5.35 | 29.4 | 4.97 | 28.0 | 4.60 |
| | | 144.0 | 34.9 | 5.90 | 33.3 | 5.72 | 31.5 | 5.48 | 30.8 | 5.30 | 29.4 | 4.92 | 28.0 | 4.56 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 38.4 | 34.4 | 5.18 | 33.2 | 5.02 | 31.5 | 4.81 | 30.8 | 4.63 | 29.4 | 4.34 | 28.0 | 3.94 |
| | | 48.0 | 34.5 | 5.18 | 33.2 | 4.99 | 31.5 | 4.79 | 30.8 | 4.60 | 29.4 | 4.32 | 28.0 | 3.94 |
| | | 96.0 | 35.0 | 5.20 | 33.2 | 4.88 | 31.5 | 4.69 | 30.8 | 4.50 | 29.4 | 4.22 | 28.0 | 3.94 |
| | | 120.0 | 35.2 | 5.09 | 33.2 | 4.84 | 31.5 | 4.60 | 30.8 | 4.41 | 29.4 | 4.22 | 28.0 | 3.84 |
| | | 144.0 | 35.3 | 5.03 | 33.2 | 4.82 | 31.5 | 4.56 | 30.8 | 4.36 | 29.4 | 4.22 | 28.0 | 3.80 |
| | 30 | 38.4 | 35.2 | 4.71 | 33.2 | 4.34 | 31.5 | 4.05 | 30.8 | 3.97 | 29.4 | 3.66 | 28.0 | 3.50 |
| | | 48.0 | 35.2 | 4.69 | 33.2 | 4.32 | 31.5 | 4.04 | 30.8 | 3.94 | 29.4 | 3.66 | 28.0 | 3.48 |
| | | 96.0 | 35.2 | 4.60 | 33.2 | 4.22 | 31.5 | 4.00 | 30.8 | 3.84 | 29.4 | 3.66 | 28.0 | 3.38 |
| | | 120.0 | 35.2 | 4.50 | 33.2 | 4.22 | 31.5 | 3.94 | 30.8 | 3.84 | 29.4 | 3.56 | 28.0 | 3.38 |
| | | 144.0 | 35.2 | 4.46 | 33.2 | 4.22 | 31.5 | 3.91 | 30.8 | 3.84 | 29.4 | 3.51 | 28.0 | 3.38 |
| | 35 | 38.4 | 35.2 | 4.37 | 33.2 | 3.99 | 31.5 | 3.57 | 30.8 | 3.50 | 29.4 | 3.30 | 28.0 | 3.02 |
| | | 48.0 | 35.2 | 4.32 | 33.2 | 3.94 | 31.5 | 3.56 | 30.8 | 3.48 | 29.4 | 3.28 | 28.0 | 3.00 |
| | | 96.0 | 35.2 | 4.13 | 33.2 | 3.76 | 31.5 | 3.52 | 30.8 | 3.38 | 29.4 | 3.19 | 28.0 | 2.91 |
| | | 120.0 | 35.2 | 4.13 | 33.2 | 3.76 | 31.5 | 3.48 | 30.8 | 3.38 | 29.4 | 3.19 | 28.0 | 2.91 |
| | | 144.0 | 35.2 | 4.13 | 33.2 | 3.76 | 31.5 | 3.45 | 30.8 | 3.38 | 29.4 | 3.19 | 28.0 | 2.91 |
| | 40 | 38.4 | 35.2 | 4.09 | 33.2 | 3.71 | 31.5 | 3.20 | 30.8 | 3.12 | 29.4 | 2.94 | 28.0 | 2.74 |
| | | 48.0 | 35.2 | 4.04 | 33.2 | 3.66 | 31.5 | 3.19 | 30.8 | 3.10 | 29.4 | 2.91 | 28.0 | 2.72 |
| | | 96.0 | 35.2 | 3.84 | 33.2 | 3.48 | 31.5 | 3.15 | 30.8 | 3.00 | 29.4 | 2.82 | 28.0 | 2.63 |
| | | 120.0 | 35.2 | 3.76 | 33.2 | 3.48 | 31.5 | 3.10 | 30.8 | 3.00 | 29.4 | 2.82 | 28.0 | 2.63 |
| | | 144.0 | 35.2 | 3.71 | 33.2 | 3.48 | 31.5 | 3.07 | 30.8 | 3.00 | 29.4 | 2.82 | 28.0 | 2.63 |
| | 45 | 38.4 | 35.2 | 3.81 | 33.2 | 3.42 | 31.5 | 2.82 | 30.8 | 2.74 | 29.4 | 2.56 | 28.0 | 2.46 |
| | | 48.0 | 35.2 | 3.76 | 33.2 | 3.38 | 31.5 | 2.82 | 30.8 | 2.72 | 29.4 | 2.53 | 28.0 | 2.44 |
| | | 96.0 | 35.2 | 3.56 | 33.2 | 3.19 | 31.5 | 2.78 | 30.8 | 2.63 | 29.4 | 2.44 | 28.0 | 2.35 |
| | | 120.0 | 35.2 | 3.38 | 33.2 | 3.19 | 31.5 | 2.72 | 30.8 | 2.63 | 29.4 | 2.44 | 28.0 | 2.35 |
| | | 144.0 | 35.2 | 3.29 | 33.2 | 3.19 | 31.5 | 2.69 | 30.8 | 2.63 | 29.4 | 2.44 | 28.0 | 2.35 |
| 90 | -5 | 38.4 | 12.0 | 5.54 | 11.6 | 5.05 | 11.2 | 4.44 | 11.2 | 4.23 | 11.1 | 4.07 | 10.9 | 3.66 |
| | | 48.0 | 12.4 | 5.64 | 12.0 | 5.14 | 11.6 | 4.53 | 11.5 | 4.32 | 11.5 | 4.16 | 11.3 | 3.74 |
| | | 96.0 | 14.0 | 6.02 | 13.6 | 5.52 | 13.2 | 4.92 | 13.1 | 4.69 | 13.0 | 4.52 | 12.7 | 4.06 |
| | | 120.0 | 15.5 | 6.40 | 15.0 | 5.91 | 14.5 | 5.31 | 14.4 | 5.06 | 14.3 | 4.87 | 14.1 | 4.38 |
| | | 144.0 | 16.2 | 6.59 | 15.7 | 6.11 | 15.2 | 5.51 | 15.1 | 5.24 | 15.0 | 5.05 | 14.7 | 4.54 |
| | 0 | 38.4 | 21.4 | 7.55 | 20.4 | 7.09 | 19.5 | 6.51 | 19.2 | 6.20 | 18.8 | 5.97 | 18.1 | 5.36 |
| | | 48.0 | 21.5 | 7.57 | 20.5 | 7.11 | 19.6 | 6.52 | 19.3 | 6.22 | 19.0 | 5.99 | 18.3 | 5.38 |
| | | 96.0 | 22.0 | 7.65 | 21.0 | 7.18 | 20.0 | 6.59 | 19.7 | 6.29 | 19.4 | 6.06 | 18.7 | 5.44 |
| | | 120.0 | 22.3 | 7.65 | 21.3 | 7.18 | 20.4 | 6.59 | 20.0 | 6.29 | 19.7 | 6.06 | 19.0 | 5.44 |
| | | 144.0 | 22.5 | 7.65 | 21.5 | 7.18 | 20.5 | 6.59 | 20.2 | 6.29 | 19.9 | 6.06 | 19.1 | 5.44 |
| | 5 | 38.4 | 30.2 | 8.11 | 29.2 | 7.65 | 28.3 | 7.08 | 27.7 | 6.75 | 26.5 | 6.50 | 25.2 | 5.83 |
| | | 48.0 | 30.2 | 8.14 | 29.2 | 7.69 | 28.3 | 7.12 | 27.7 | 6.79 | 26.5 | 6.53 | 25.2 | 5.86 |
| | | 96.0 | 30.4 | 8.29 | 29.1 | 7.83 | 28.3 | 7.25 | 27.7 | 6.92 | 26.5 | 6.67 | 25.2 | 5.98 |
| | | 120.0 | 30.5 | 8.34 | 29.2 | 7.88 | 28.3 | 7.31 | 27.7 | 6.97 | 26.5 | 6.72 | 25.2 | 6.03 |
| | | 144.0 | 30.6 | 8.36 | 29.3 | 7.91 | 28.3 | 7.34 | 27.7 | 6.99 | 26.5 | 6.74 | 25.2 | 6.05 |
| | 10 | 38.4 | 30.4 | 7.16 | 29.3 | 6.81 | 28.3 | 6.41 | 27.7 | 6.15 | 26.5 | 5.90 | 25.2 | 5.31 |
| | | 48.0 | 30.4 | 7.16 | 29.3 | 6.81 | 28.3 | 6.42 | 27.7 | 6.15 | 26.5 | 5.89 | 25.2 | 5.32 |
| | | 96.0 | 30.3 | 7.18 | 29.2 | 6.84 | 28.3 | 6.45 | 27.7 | 6.18 | 26.5 | 5.87 | 25.2 | 5.34 |
| | | 120.0 | 30.5 | 7.16 | 29.2 | 6.82 | 28.3 | 6.43 | 27.7 | 6.16 | 26.5 | 5.89 | 25.2 | 5.36 |
| | | 144.0 | 30.6 | 7.15 | 29.3 | 6.81 | 28.3 | 6.42 | 27.7 | 6.15 | 26.5 | 5.90 | 25.2 | 5.37 |
| | 15 | 38.4 | 30.5 | 6.20 | 29.4 | 5.97 | 28.3 | 5.75 | 27.7 | 5.55 | 26.5 | 5.30 | 25.2 | 4.81 |
| | | 48.0 | 30.5 | 6.17 | 29.4 | 5.95 | 28.3 | 5.73 | 27.7 | 5.53 | 26.5 | 5.25 | 25.2 | 4.79 |
| | | 96.0 | 30.3 | 6.08 | 29.2 | 5.85 | 28.3 | 5.63 | 27.7 | 5.45 | 26.5 | 5.07 | 25.2 | 4.69 |
| | | 120.0 | 30.5 | 5.99 | 29.3 | 5.77 | 28.3 | 5.53 | 27.7 | 5.35 | 26.5 | 5.07 | 25.2 | 4.69 |
| | | 144.0 | 30.6 | 5.95 | 29.3 | 5.72 | 28.3 | 5.48 | 27.7 | 5.30 | 26.5 | 5.07 | 25.2 | 4.69 |
| | 20 | 38.4 | 30.7 | 5.23 | 29.6 | 5.08 | 28.3 | 4.91 | 27.7 | 4.71 | 26.5 | 4.55 | 25.2 | 4.27 |
| | | 48.0 | 30.7 | 5.23 | 29.5 | 5.07 | 28.3 | 4.88 | 27.7 | 4.69 | 26.5 | 4.50 | 25.2 | 4.22 |
| | | 96.0 | 30.6 | 5.23 | 29.3 | 5.01 | 28.3 | 4.79 | 27.7 | 4.60 | 26.5 | 4.32 | 25.2 | 4.04 |
| | | 120.0 | 30.7 | 5.14 | 29.4 | 4.97 | 28.3 | 4.79 | 27.7 | 4.60 | 26.5 | 4.32 | 25.2 | 4.04 |
| | | 144.0 | 30.7 | 5.10 | 29.4 | 4.95 | 28.3 | 4.79 | 27.7 | 4.60 | 26.5 | 4.32 | 25.2 | 4.04 |
| | 25 | 38.4 | 31.2 | 4.57 | 29.9 | 4.33 | 28.3 | 4.15 | 27.7 | 3.94 | 26.5 | 3.78 | 25.2 | 3.50 |
| | | 48.0 | 31.3 | 4.56 | 29.9 | 4.32 | 28.3 | 4.13 | 27.7 | 3.94 | 26.5 | 3.76 | 25.2 | 3.48 |
| | | 96.0 | 31.6 | 4.52 | 29.9 | 4.28 | 28.3 | 4.04 | 27.7 | 3.94 | 26.5 | 3.66 | 25.2 | 3.38 |
| | | 120.0 | 31.7 | 4.41 | 29.9 | 4.18 | 28.3 | 4.04 | 27.7 | 3.84 | 26.5 | 3.66 | 25.2 | 3.38 |
| | | 144.0 | 31.8 | 4.35 | 29.9 | 4.13 | 28.3 | 4.04 | 27.7 | 3.80 | 26.5 | 3.66 | 25.2 | 3.38 |
| | 30 | 38.4 | 31.7 | 4.15 | 29.9 | 3.87 | 28.3 | 3.58 | 27.7 | 3.50 | 26.5 | 3.30 | 25.2 | 3.00 |
| | | 48.0 | 31.7 | 4.13 | 29.9 | 3.84 | 28.3 | 3.56 | 27.7 | 3.48 | 26.5 | 3.28 | 25.2 | 3.00 |
| | | 96.0 | 31.7 | 4.04 | 29.9 | 3.76 | 28.3 | 3.48 | 27.7 | 3.38 | 26.5 | 3.19 | 25.2 | 3.00 |
| | | 120.0 | 31.7 | 3.94 | 29.9 | 3.66 | 28.3 | 3.48 | 27.7 | 3.38 | 26.5 | 3.19 | 25.2 | 2.91 |
| | | 144.0 | 31.7 | 3.89 | 29.9 | 3.61 | 28.3 | 3.48 | 27.7 | 3.38 | 26.5 | 3.19 | 25.2 | 2.87 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 38.4 | 31.7 | 3.78 | 29.9 | 3.50 | 28.3 | 3.22 | 27.7 | 3.12 | 26.5 | 2.94 | 25.2 | 2.74 |
| | | 48.0 | 31.7 | 3.76 | 29.9 | 3.48 | 28.3 | 3.19 | 27.7 | 3.10 | 26.5 | 2.91 | 25.2 | 2.72 |
| | | 96.0 | 31.7 | 3.66 | 29.9 | 3.38 | 28.3 | 3.10 | 27.7 | 3.00 | 26.5 | 2.82 | 25.2 | 2.63 |
| | | 120.0 | 31.7 | 3.56 | 29.9 | 3.28 | 28.3 | 3.00 | 27.7 | 2.91 | 26.5 | 2.82 | 25.2 | 2.63 |
| | | 144.0 | 31.7 | 3.51 | 29.9 | 3.23 | 28.3 | 2.95 | 27.7 | 2.87 | 26.5 | 2.82 | 25.2 | 2.63 |
| | 40 | 38.4 | 31.7 | 3.52 | 29.9 | 3.22 | 28.3 | 2.84 | 27.7 | 2.74 | 26.5 | 2.66 | 25.2 | 2.46 |
| | | 48.0 | 31.7 | 3.48 | 29.9 | 3.19 | 28.3 | 2.82 | 27.7 | 2.72 | 26.5 | 2.63 | 25.2 | 2.44 |
| | | 96.0 | 31.7 | 3.28 | 29.9 | 3.10 | 28.3 | 2.72 | 27.7 | 2.63 | 26.5 | 2.53 | 25.2 | 2.35 |
| | | 120.0 | 31.7 | 3.28 | 29.9 | 3.10 | 28.3 | 2.72 | 27.7 | 2.63 | 26.5 | 2.53 | 25.2 | 2.35 |
| | | 144.0 | 31.7 | 3.28 | 29.9 | 3.10 | 28.3 | 2.72 | 27.7 | 2.63 | 26.5 | 2.53 | 25.2 | 2.35 |
| | 45 | 38.4 | 31.7 | 3.26 | 29.9 | 2.94 | 28.3 | 2.46 | 27.7 | 2.37 | 26.5 | 2.37 | 25.2 | 2.18 |
| | | 48.0 | 31.7 | 3.19 | 29.9 | 2.91 | 28.3 | 2.44 | 27.7 | 2.35 | 26.5 | 2.35 | 25.2 | 2.15 |
| | | 96.0 | 31.7 | 2.91 | 29.9 | 2.82 | 28.3 | 2.35 | 27.7 | 2.25 | 26.5 | 2.25 | 25.2 | 2.07 |
| | | 120.0 | 31.7 | 3.00 | 29.9 | 2.91 | 28.3 | 2.44 | 27.7 | 2.35 | 26.5 | 2.25 | 25.2 | 2.07 |
| | | 144.0 | 31.7 | 3.04 | 29.9 | 2.96 | 28.3 | 2.48 | 27.7 | 2.40 | 26.5 | 2.25 | 25.2 | 2.07 |
| 80 | -5 | 38.4 | 11.3 | 3.95 | 10.6 | 3.80 | 10.0 | 3.64 | 9.9 | 3.52 | 9.9 | 3.35 | 9.7 | 3.09 |
| | | 48.0 | 11.7 | 4.04 | 11.0 | 3.88 | 10.4 | 3.72 | 10.3 | 3.59 | 10.2 | 3.43 | 10.0 | 3.15 |
| | | 96.0 | 13.2 | 4.39 | 12.4 | 4.21 | 11.7 | 4.03 | 11.6 | 3.89 | 11.5 | 3.72 | 11.3 | 3.42 |
| | | 120.0 | 14.6 | 4.73 | 13.7 | 4.54 | 13.0 | 4.35 | 12.8 | 4.20 | 12.7 | 4.01 | 12.5 | 3.69 |
| | | 144.0 | 15.3 | 4.90 | 14.3 | 4.71 | 13.6 | 4.51 | 13.4 | 4.36 | 13.4 | 4.16 | 13.1 | 3.83 |
| | 0 | 38.4 | 20.2 | 5.80 | 18.6 | 5.56 | 17.3 | 5.33 | 17.0 | 5.15 | 16.8 | 4.91 | 16.1 | 4.52 |
| | | 48.0 | 20.3 | 5.81 | 18.7 | 5.58 | 17.4 | 5.35 | 17.1 | 5.16 | 16.9 | 4.92 | 16.2 | 4.53 |
| | | 96.0 | 20.8 | 5.88 | 19.2 | 5.65 | 17.8 | 5.41 | 17.5 | 5.22 | 17.3 | 4.98 | 16.6 | 4.58 |
| | | 120.0 | 21.1 | 5.88 | 19.5 | 5.65 | 18.1 | 5.41 | 17.8 | 5.22 | 17.6 | 4.98 | 16.9 | 4.58 |
| | | 144.0 | 21.2 | 5.88 | 19.6 | 5.65 | 18.3 | 5.41 | 17.9 | 5.22 | 17.7 | 4.98 | 17.0 | 4.58 |
| | 5 | 38.4 | 27.9 | 6.30 | 26.3 | 6.07 | 25.2 | 5.79 | 24.6 | 5.60 | 23.6 | 5.34 | 22.4 | 4.91 |
| | | 48.0 | 28.0 | 6.34 | 26.4 | 6.10 | 25.2 | 5.82 | 24.6 | 5.63 | 23.6 | 5.37 | 22.4 | 4.94 |
| | | 96.0 | 28.2 | 6.47 | 26.6 | 6.21 | 25.2 | 5.95 | 24.6 | 5.75 | 23.6 | 5.47 | 22.4 | 5.05 |
| | | 120.0 | 28.2 | 6.51 | 26.6 | 6.26 | 25.2 | 5.99 | 24.6 | 5.79 | 23.6 | 5.51 | 22.4 | 5.08 |
| | | 144.0 | 28.2 | 6.53 | 26.6 | 6.29 | 25.2 | 6.01 | 24.6 | 5.80 | 23.6 | 5.53 | 22.4 | 5.09 |
| | 10 | 38.4 | 28.1 | 5.80 | 26.5 | 5.54 | 25.2 | 5.26 | 24.6 | 5.11 | 23.6 | 4.84 | 22.4 | 4.48 |
| | | 48.0 | 28.1 | 5.80 | 26.5 | 5.53 | 25.2 | 5.26 | 24.6 | 5.12 | 23.6 | 4.84 | 22.4 | 4.48 |
| | | 96.0 | 28.2 | 5.77 | 26.6 | 5.50 | 25.2 | 5.27 | 24.6 | 5.13 | 23.6 | 4.85 | 22.4 | 4.49 |
| | | 120.0 | 28.2 | 5.75 | 26.6 | 5.52 | 25.2 | 5.29 | 24.6 | 5.10 | 23.6 | 4.82 | 22.4 | 4.47 |
| | | 144.0 | 28.2 | 5.74 | 26.6 | 5.53 | 25.2 | 5.30 | 24.6 | 5.08 | 23.6 | 4.81 | 22.4 | 4.45 |
| | 15 | 38.4 | 28.2 | 5.30 | 26.6 | 5.02 | 25.2 | 4.71 | 24.6 | 4.63 | 23.6 | 4.34 | 22.4 | 4.06 |
| | | 48.0 | 28.2 | 5.25 | 26.6 | 4.97 | 25.2 | 4.69 | 24.6 | 4.60 | 23.6 | 4.32 | 22.4 | 4.04 |
| | | 96.0 | 28.2 | 5.07 | 26.6 | 4.79 | 25.2 | 4.60 | 24.6 | 4.50 | 23.6 | 4.22 | 22.4 | 3.94 |
| | | 120.0 | 28.2 | 4.97 | 26.6 | 4.79 | 25.2 | 4.60 | 24.6 | 4.41 | 23.6 | 4.13 | 22.4 | 3.84 |
| | | 144.0 | 28.2 | 4.92 | 26.6 | 4.79 | 25.2 | 4.60 | 24.6 | 4.36 | 23.6 | 4.08 | 22.4 | 3.80 |
| | 20 | 38.4 | 28.2 | 4.43 | 26.6 | 4.25 | 25.2 | 4.04 | 24.6 | 3.97 | 23.6 | 3.78 | 22.4 | 3.50 |
| | | 48.0 | 28.2 | 4.41 | 26.6 | 4.22 | 25.2 | 4.04 | 24.6 | 3.94 | 23.6 | 3.76 | 22.4 | 3.48 |
| | | 96.0 | 28.2 | 4.32 | 26.6 | 4.13 | 25.2 | 4.04 | 24.6 | 3.84 | 23.6 | 3.66 | 22.4 | 3.38 |
| | | 120.0 | 28.2 | 4.22 | 26.6 | 4.04 | 25.2 | 3.94 | 24.6 | 3.84 | 23.6 | 3.56 | 22.4 | 3.38 |
| | | 144.0 | 28.2 | 4.17 | 26.6 | 3.99 | 25.2 | 3.89 | 24.6 | 3.84 | 23.6 | 3.51 | 22.4 | 3.38 |
| | 25 | 38.4 | 28.2 | 3.97 | 26.6 | 3.68 | 25.2 | 3.48 | 24.6 | 3.40 | 23.6 | 3.22 | 22.4 | 3.02 |
| | | 48.0 | 28.2 | 3.94 | 26.6 | 3.66 | 25.2 | 3.48 | 24.6 | 3.38 | 23.6 | 3.19 | 22.4 | 3.00 |
| | | 96.0 | 28.2 | 3.84 | 26.6 | 3.56 | 25.2 | 3.48 | 24.6 | 3.28 | 23.6 | 3.10 | 22.4 | 2.91 |
| | | 120.0 | 28.2 | 3.76 | 26.6 | 3.56 | 25.2 | 3.38 | 24.6 | 3.28 | 23.6 | 3.10 | 22.4 | 2.91 |
| | | 144.0 | 28.2 | 3.71 | 26.6 | 3.56 | 25.2 | 3.33 | 24.6 | 3.28 | 23.6 | 3.10 | 22.4 | 2.91 |
| | 30 | 38.4 | 28.2 | 3.50 | 26.6 | 3.30 | 25.2 | 3.12 | 24.6 | 3.02 | 23.6 | 2.84 | 22.4 | 2.66 |
| | | 48.0 | 28.2 | 3.48 | 26.6 | 3.28 | 25.2 | 3.10 | 24.6 | 3.00 | 23.6 | 2.82 | 22.4 | 2.63 |
| | | 96.0 | 28.2 | 3.38 | 26.6 | 3.19 | 25.2 | 3.00 | 24.6 | 2.91 | 23.6 | 2.72 | 22.4 | 2.53 |
| | | 120.0 | 28.2 | 3.38 | 26.6 | 3.19 | 25.2 | 3.00 | 24.6 | 2.91 | 23.6 | 2.72 | 22.4 | 2.53 |
| | | 144.0 | 28.2 | 3.38 | 26.6 | 3.19 | 25.2 | 3.00 | 24.6 | 2.91 | 23.6 | 2.72 | 22.4 | 2.53 |
| | 35 | 38.4 | 28.2 | 3.22 | 26.6 | 3.02 | 25.2 | 2.74 | 24.6 | 2.63 | 23.6 | 2.56 | 22.4 | 2.35 |
| | | 48.0 | 28.2 | 3.19 | 26.6 | 3.00 | 25.2 | 2.72 | 24.6 | 2.63 | 23.6 | 2.53 | 22.4 | 2.35 |
| | | 96.0 | 28.2 | 3.10 | 26.6 | 2.91 | 25.2 | 2.63 | 24.6 | 2.63 | 23.6 | 2.44 | 22.4 | 2.35 |
| | | 120.0 | 28.2 | 3.10 | 26.6 | 2.82 | 25.2 | 2.63 | 24.6 | 2.53 | 23.6 | 2.44 | 22.4 | 2.25 |
| | | 144.0 | 28.2 | 3.10 | 26.6 | 2.77 | 25.2 | 2.63 | 24.6 | 2.48 | 23.6 | 2.44 | 22.4 | 2.20 |
| | 40 | 38.4 | 28.2 | 3.05 | 26.6 | 2.74 | 25.2 | 2.44 | 24.6 | 2.46 | 23.6 | 2.25 | 22.4 | 2.18 |
| | | 48.0 | 28.2 | 3.00 | 26.6 | 2.72 | 25.2 | 2.44 | 24.6 | 2.44 | 23.6 | 2.25 | 22.4 | 2.15 |
| | | 96.0 | 28.2 | 2.82 | 26.6 | 2.63 | 25.2 | 2.44 | 24.6 | 2.35 | 23.6 | 2.25 | 22.4 | 2.07 |
| | | 120.0 | 28.2 | 2.82 | 26.6 | 2.63 | 25.2 | 2.35 | 24.6 | 2.35 | 23.6 | 2.25 | 22.4 | 2.07 |
| | | 144.0 | 28.2 | 2.82 | 26.6 | 2.63 | 25.2 | 2.31 | 24.6 | 2.35 | 23.6 | 2.25 | 22.4 | 2.07 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 38.4 | 28.2 | 2.89 | 26.6 | 2.46 | 25.2 | 2.13 | 24.6 | 2.30 | 23.6 | 1.95 | 22.4 | 2.02 |
| | | 48.0 | 28.2 | 2.82 | 26.6 | 2.44 | 25.2 | 2.15 | 24.6 | 2.25 | 23.6 | 1.97 | 22.4 | 1.97 |
| | | 96.0 | 28.2 | 2.53 | 26.6 | 2.35 | 25.2 | 2.25 | 24.6 | 2.07 | 23.6 | 2.07 | 22.4 | 1.79 |
| | | 120.0 | 28.2 | 2.53 | 26.6 | 2.44 | 25.2 | 2.07 | 24.6 | 2.15 | 23.6 | 2.07 | 22.4 | 1.87 |
| | | 144.0 | 28.2 | 2.53 | 26.6 | 2.48 | 25.2 | 1.97 | 24.6 | 2.20 | 23.6 | 2.07 | 22.4 | 1.92 |
| 70 | -5 | 38.4 | 9.9 | 3.39 | 9.3 | 3.23 | 8.8 | 3.12 | 8.7 | 2.95 | 8.6 | 2.84 | 8.5 | 2.58 |
| | | 48.0 | 10.2 | 3.47 | 9.6 | 3.30 | 9.1 | 3.19 | 9.0 | 3.01 | 8.9 | 2.90 | 8.8 | 2.64 |
| | | 96.0 | 11.5 | 3.76 | 10.8 | 3.58 | 10.2 | 3.47 | 10.1 | 3.26 | 10.1 | 3.15 | 9.9 | 2.86 |
| | | 120.0 | 12.8 | 4.06 | 12.0 | 3.86 | 11.3 | 3.74 | 11.2 | 3.51 | 11.1 | 3.40 | 10.9 | 3.09 |
| | | 144.0 | 13.4 | 4.21 | 12.6 | 4.01 | 11.9 | 3.87 | 11.8 | 3.64 | 11.7 | 3.52 | 11.4 | 3.20 |
| | 0 | 38.4 | 17.7 | 4.96 | 16.3 | 4.73 | 15.1 | 4.58 | 14.9 | 4.31 | 14.7 | 4.16 | 14.1 | 3.79 |
| | | 48.0 | 17.8 | 4.98 | 16.4 | 4.75 | 15.2 | 4.59 | 15.0 | 4.32 | 14.7 | 4.17 | 14.2 | 3.80 |
| | | 96.0 | 18.2 | 5.04 | 16.8 | 4.80 | 15.6 | 4.65 | 15.3 | 4.37 | 15.1 | 4.22 | 14.5 | 3.83 |
| | | 120.0 | 18.4 | 5.04 | 17.1 | 4.80 | 15.8 | 4.65 | 15.6 | 4.37 | 15.3 | 4.22 | 14.8 | 3.83 |
| | | 144.0 | 18.6 | 5.04 | 17.2 | 4.80 | 15.9 | 4.65 | 15.7 | 4.37 | 15.4 | 4.22 | 14.9 | 3.83 |
| | 5 | 38.4 | 24.4 | 5.41 | 23.1 | 5.15 | 22.0 | 4.98 | 21.5 | 4.70 | 20.6 | 4.53 | 19.6 | 4.11 |
| | | 48.0 | 24.4 | 5.44 | 23.1 | 5.17 | 22.0 | 5.01 | 21.5 | 4.72 | 20.6 | 4.55 | 19.6 | 4.14 |
| | | 96.0 | 24.6 | 5.54 | 23.3 | 5.28 | 22.0 | 5.12 | 21.5 | 4.80 | 20.6 | 4.65 | 19.6 | 4.22 |
| | | 120.0 | 24.6 | 5.58 | 23.3 | 5.32 | 22.0 | 5.15 | 21.5 | 4.84 | 20.6 | 4.68 | 19.6 | 4.25 |
| | | 144.0 | 24.6 | 5.60 | 23.3 | 5.34 | 22.0 | 5.17 | 21.5 | 4.86 | 20.6 | 4.69 | 19.6 | 4.27 |
| | 10 | 38.4 | 24.5 | 4.98 | 23.2 | 4.71 | 22.0 | 4.53 | 21.5 | 4.28 | 20.6 | 4.11 | 19.6 | 3.76 |
| | | 48.0 | 24.5 | 4.97 | 23.2 | 4.70 | 22.0 | 4.52 | 21.5 | 4.28 | 20.6 | 4.11 | 19.6 | 3.76 |
| | | 96.0 | 24.6 | 4.93 | 23.3 | 4.66 | 22.0 | 4.48 | 21.5 | 4.28 | 20.6 | 4.11 | 19.6 | 3.76 |
| | | 120.0 | 24.6 | 4.95 | 23.3 | 4.68 | 22.0 | 4.50 | 21.5 | 4.30 | 20.6 | 4.08 | 19.6 | 3.77 |
| | | 144.0 | 24.6 | 4.96 | 23.3 | 4.69 | 22.0 | 4.51 | 21.5 | 4.31 | 20.6 | 4.06 | 19.6 | 3.77 |
| | 15 | 38.4 | 24.6 | 4.55 | 23.3 | 4.27 | 22.0 | 4.09 | 21.5 | 3.87 | 20.6 | 3.68 | 19.6 | 3.40 |
| | | 48.0 | 24.6 | 4.50 | 23.3 | 4.22 | 22.0 | 4.04 | 21.5 | 3.84 | 20.6 | 3.66 | 19.6 | 3.38 |
| | | 96.0 | 24.6 | 4.32 | 23.3 | 4.04 | 22.0 | 3.84 | 21.5 | 3.76 | 20.6 | 3.56 | 19.6 | 3.28 |
| | | 120.0 | 24.6 | 4.32 | 23.3 | 4.04 | 22.0 | 3.84 | 21.5 | 3.76 | 20.6 | 3.48 | 19.6 | 3.28 |
| | | 144.0 | 24.6 | 4.32 | 23.3 | 4.04 | 22.0 | 3.84 | 21.5 | 3.76 | 20.6 | 3.43 | 19.6 | 3.28 |
| | 20 | 38.4 | 24.6 | 3.78 | 23.3 | 3.58 | 22.0 | 3.50 | 21.5 | 3.40 | 20.6 | 3.22 | 19.6 | 3.02 |
| | | 48.0 | 24.6 | 3.76 | 23.3 | 3.56 | 22.0 | 3.48 | 21.5 | 3.38 | 20.6 | 3.19 | 19.6 | 3.00 |
| | | 96.0 | 24.6 | 3.66 | 23.3 | 3.48 | 22.0 | 3.38 | 21.5 | 3.28 | 20.6 | 3.10 | 19.6 | 2.91 |
| | | 120.0 | 24.6 | 3.66 | 23.3 | 3.48 | 22.0 | 3.38 | 21.5 | 3.19 | 20.6 | 3.10 | 19.6 | 2.82 |
| | | 144.0 | 24.6 | 3.66 | 23.3 | 3.48 | 22.0 | 3.38 | 21.5 | 3.15 | 20.6 | 3.10 | 19.6 | 2.77 |
| | 25 | 38.4 | 24.6 | 3.40 | 23.3 | 3.22 | 22.0 | 3.02 | 21.5 | 2.94 | 20.6 | 2.72 | 19.6 | 2.53 |
| | | 48.0 | 24.6 | 3.38 | 23.3 | 3.19 | 22.0 | 3.00 | 21.5 | 2.91 | 20.6 | 2.72 | 19.6 | 2.53 |
| | | 96.0 | 24.6 | 3.28 | 23.3 | 3.10 | 22.0 | 2.91 | 21.5 | 2.82 | 20.6 | 2.72 | 19.6 | 2.53 |
| | | 120.0 | 24.6 | 3.19 | 23.3 | 3.00 | 22.0 | 2.91 | 21.5 | 2.82 | 20.6 | 2.63 | 19.6 | 2.53 |
| | | 144.0 | 24.6 | 3.15 | 23.3 | 2.95 | 22.0 | 2.91 | 21.5 | 2.82 | 20.6 | 2.59 | 19.6 | 2.53 |
| | 30 | 38.4 | 24.6 | 3.02 | 23.3 | 2.84 | 22.0 | 2.66 | 21.5 | 2.53 | 20.6 | 2.46 | 19.6 | 2.25 |
| | | 48.0 | 24.6 | 3.00 | 23.3 | 2.82 | 22.0 | 2.63 | 21.5 | 2.53 | 20.6 | 2.44 | 19.6 | 2.25 |
| | | 96.0 | 24.6 | 2.91 | 23.3 | 2.72 | 22.0 | 2.53 | 21.5 | 2.53 | 20.6 | 2.35 | 19.6 | 2.25 |
| | | 120.0 | 24.6 | 2.91 | 23.3 | 2.72 | 22.0 | 2.53 | 21.5 | 2.44 | 20.6 | 2.35 | 19.6 | 2.25 |
| | | 144.0 | 24.6 | 2.91 | 23.3 | 2.72 | 22.0 | 2.53 | 21.5 | 2.39 | 20.6 | 2.35 | 19.6 | 2.25 |
| | 35 | 38.4 | 24.6 | 2.74 | 23.3 | 2.56 | 22.0 | 2.35 | 21.5 | 2.37 | 20.6 | 2.15 | 19.6 | 2.09 |
| | | 48.0 | 24.6 | 2.72 | 23.3 | 2.53 | 22.0 | 2.35 | 21.5 | 2.35 | 20.6 | 2.15 | 19.6 | 2.07 |
| | | 96.0 | 24.6 | 2.63 | 23.3 | 2.44 | 22.0 | 2.35 | 21.5 | 2.25 | 20.6 | 2.15 | 19.6 | 1.97 |
| | | 120.0 | 24.6 | 2.63 | 23.3 | 2.44 | 22.0 | 2.25 | 21.5 | 2.25 | 20.6 | 2.15 | 19.6 | 1.97 |
| | | 144.0 | 24.6 | 2.63 | 23.3 | 2.44 | 22.0 | 2.20 | 21.5 | 2.25 | 20.6 | 2.15 | 19.6 | 1.97 |
| | 40 | 38.4 | 24.6 | 2.56 | 23.3 | 2.37 | 22.0 | 2.18 | 21.5 | 2.07 | 20.6 | 1.97 | 19.6 | 1.90 |
| | | 48.0 | 24.6 | 2.53 | 23.3 | 2.35 | 22.0 | 2.15 | 21.5 | 2.07 | 20.6 | 1.97 | 19.6 | 1.87 |
| | | 96.0 | 24.6 | 2.44 | 23.3 | 2.25 | 22.0 | 2.07 | 21.5 | 2.07 | 20.6 | 1.97 | 19.6 | 1.79 |
| | | 120.0 | 24.6 | 2.44 | 23.3 | 2.25 | 22.0 | 2.07 | 21.5 | 1.97 | 20.6 | 1.87 | 19.6 | 1.79 |
| | | 144.0 | 24.6 | 2.44 | 23.3 | 2.25 | 22.0 | 2.07 | 21.5 | 1.92 | 20.6 | 1.82 | 19.6 | 1.79 |
| | 45 | 38.4 | 24.6 | 2.37 | 23.3 | 2.18 | 22.0 | 2.02 | 21.5 | 1.76 | 20.6 | 1.79 | 19.6 | 1.71 |
| | | 48.0 | 24.6 | 2.35 | 23.3 | 2.15 | 22.0 | 1.97 | 21.5 | 1.79 | 20.6 | 1.79 | 19.6 | 1.69 |
| | | 96.0 | 24.6 | 2.25 | 23.3 | 2.07 | 22.0 | 1.79 | 21.5 | 1.87 | 20.6 | 1.79 | 19.6 | 1.59 |
| | | 120.0 | 24.6 | 2.25 | 23.3 | 2.07 | 22.0 | 1.87 | 21.5 | 1.69 | 20.6 | 1.59 | 19.6 | 1.59 |
| | | 144.0 | 24.6 | 2.25 | 23.3 | 2.07 | 22.0 | 1.92 | 21.5 | 1.60 | 20.6 | 1.49 | 19.6 | 1.59 |
| 60 | -5 | 38.4 | 8.5 | 2.75 | 7.9 | 2.65 | 7.5 | 2.55 | 7.4 | 2.37 | 7.4 | 2.33 | 7.2 | 2.08 |
| | | 48.0 | 8.8 | 2.82 | 8.2 | 2.71 | 7.8 | 2.60 | 7.7 | 2.42 | 7.6 | 2.38 | 7.5 | 2.13 |
| | | 96.0 | 9.9 | 3.06 | 9.3 | 2.94 | 8.8 | 2.82 | 8.7 | 2.62 | 8.7 | 2.58 | 8.5 | 2.31 |
| | | 120.0 | 11.0 | 3.29 | 10.3 | 3.17 | 9.7 | 3.05 | 9.6 | 2.83 | 9.6 | 2.79 | 9.4 | 2.48 |
| | | 144.0 | 11.5 | 3.41 | 10.7 | 3.29 | 10.2 | 3.16 | 10.1 | 2.94 | 10.0 | 2.89 | 9.8 | 2.57 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 38.4 | 15.1 | 4.04 | 14.0 | 3.89 | 13.0 | 3.72 | 12.8 | 3.47 | 12.6 | 3.42 | 12.1 | 3.05 |
| | | 48.0 | 15.2 | 4.05 | 14.0 | 3.90 | 13.1 | 3.74 | 12.8 | 3.48 | 12.7 | 3.43 | 12.2 | 3.06 |
| | | 96.0 | 15.6 | 4.10 | 14.4 | 3.94 | 13.4 | 3.79 | 13.1 | 3.51 | 13.0 | 3.47 | 12.5 | 3.09 |
| | | 120.0 | 15.8 | 4.10 | 14.6 | 3.94 | 13.6 | 3.79 | 13.3 | 3.51 | 13.2 | 3.47 | 12.7 | 3.09 |
| | | 144.0 | 15.9 | 4.10 | 14.7 | 3.94 | 13.7 | 3.79 | 13.4 | 3.51 | 13.3 | 3.47 | 12.8 | 3.09 |
| | 5 | 38.4 | 20.9 | 4.39 | 19.7 | 4.23 | 18.9 | 4.05 | 18.5 | 3.78 | 17.7 | 3.72 | 16.8 | 3.31 |
| | | 48.0 | 21.0 | 4.42 | 19.8 | 4.25 | 18.9 | 4.08 | 18.5 | 3.80 | 17.7 | 3.74 | 16.8 | 3.33 |
| | | 96.0 | 21.2 | 4.50 | 19.9 | 4.34 | 18.9 | 4.16 | 18.5 | 3.87 | 17.7 | 3.81 | 16.8 | 3.40 |
| | | 120.0 | 21.2 | 4.54 | 19.9 | 4.37 | 18.9 | 4.19 | 18.5 | 3.90 | 17.7 | 3.83 | 16.8 | 3.43 |
| | | 144.0 | 21.2 | 4.56 | 19.9 | 4.38 | 18.9 | 4.21 | 18.5 | 3.92 | 17.7 | 3.84 | 16.8 | 3.44 |
| | 10 | 38.4 | 21.0 | 4.04 | 19.8 | 3.86 | 18.9 | 3.68 | 18.5 | 3.44 | 17.7 | 3.37 | 16.8 | 3.02 |
| | | 48.0 | 21.1 | 4.04 | 19.8 | 3.86 | 18.9 | 3.68 | 18.5 | 3.45 | 17.7 | 3.37 | 16.8 | 3.03 |
| | | 96.0 | 21.2 | 4.04 | 19.9 | 3.86 | 18.9 | 3.68 | 18.5 | 3.48 | 17.7 | 3.36 | 16.8 | 3.06 |
| | | 120.0 | 21.2 | 4.05 | 19.9 | 3.82 | 18.9 | 3.64 | 18.5 | 3.45 | 17.7 | 3.33 | 16.8 | 3.03 |
| | | 144.0 | 21.2 | 4.05 | 19.9 | 3.80 | 18.9 | 3.62 | 18.5 | 3.43 | 17.7 | 3.31 | 16.8 | 3.01 |
| | 15 | 38.4 | 21.2 | 3.68 | 19.9 | 3.50 | 18.9 | 3.30 | 18.5 | 3.10 | 17.7 | 3.02 | 16.8 | 2.72 |
| | | 48.0 | 21.2 | 3.66 | 19.9 | 3.48 | 18.9 | 3.28 | 18.5 | 3.10 | 17.7 | 3.00 | 16.8 | 2.72 |
| | | 96.0 | 21.2 | 3.56 | 19.9 | 3.38 | 18.9 | 3.19 | 18.5 | 3.10 | 17.7 | 2.91 | 16.8 | 2.72 |
| | | 120.0 | 21.2 | 3.56 | 19.9 | 3.28 | 18.9 | 3.10 | 18.5 | 3.00 | 17.7 | 2.82 | 16.8 | 2.63 |
| | | 144.0 | 21.2 | 3.56 | 19.9 | 3.23 | 18.9 | 3.05 | 18.5 | 2.95 | 17.7 | 2.77 | 16.8 | 2.59 |
| | 20 | 38.4 | 21.2 | 3.22 | 19.9 | 3.02 | 18.9 | 2.84 | 18.5 | 2.74 | 17.7 | 2.66 | 16.8 | 2.46 |
| | | 48.0 | 21.2 | 3.19 | 19.9 | 3.00 | 18.9 | 2.82 | 18.5 | 2.72 | 17.7 | 2.63 | 16.8 | 2.44 |
| | | 96.0 | 21.2 | 3.10 | 19.9 | 2.91 | 18.9 | 2.72 | 18.5 | 2.63 | 17.7 | 2.53 | 16.8 | 2.35 |
| | | 120.0 | 21.2 | 3.10 | 19.9 | 2.91 | 18.9 | 2.72 | 18.5 | 2.63 | 17.7 | 2.53 | 16.8 | 2.35 |
| | | 144.0 | 21.2 | 3.10 | 19.9 | 2.91 | 18.9 | 2.72 | 18.5 | 2.63 | 17.7 | 2.53 | 16.8 | 2.35 |
| | 25 | 38.4 | 21.2 | 2.84 | 19.9 | 2.66 | 18.9 | 2.44 | 18.5 | 2.46 | 17.7 | 2.25 | 16.8 | 2.18 |
| | | 48.0 | 21.2 | 2.82 | 19.9 | 2.63 | 18.9 | 2.44 | 18.5 | 2.44 | 17.7 | 2.25 | 16.8 | 2.15 |
| | | 96.0 | 21.2 | 2.72 | 19.9 | 2.53 | 18.9 | 2.44 | 18.5 | 2.35 | 17.7 | 2.25 | 16.8 | 2.07 |
| | | 120.0 | 21.2 | 2.72 | 19.9 | 2.53 | 18.9 | 2.35 | 18.5 | 2.35 | 17.7 | 2.25 | 16.8 | 2.07 |
| | | 144.0 | 21.2 | 2.72 | 19.9 | 2.53 | 18.9 | 2.31 | 18.5 | 2.35 | 17.7 | 2.25 | 16.8 | 2.07 |
| | 30 | 38.4 | 21.2 | 2.56 | 19.9 | 2.37 | 18.9 | 2.28 | 18.5 | 2.18 | 17.7 | 2.09 | 16.8 | 2.00 |
| | | 48.0 | 21.2 | 2.53 | 19.9 | 2.35 | 18.9 | 2.25 | 18.5 | 2.15 | 17.7 | 2.07 | 16.8 | 1.97 |
| | | 96.0 | 21.2 | 2.44 | 19.9 | 2.25 | 18.9 | 2.15 | 18.5 | 2.07 | 17.7 | 1.97 | 16.8 | 1.87 |
| | | 120.0 | 21.2 | 2.44 | 19.9 | 2.25 | 18.9 | 2.15 | 18.5 | 2.07 | 17.7 | 1.97 | 16.8 | 1.87 |
| | | 144.0 | 21.2 | 2.44 | 19.9 | 2.25 | 18.9 | 2.15 | 18.5 | 2.07 | 17.7 | 1.97 | 16.8 | 1.87 |
| | 35 | 38.4 | 21.2 | 2.25 | 19.9 | 2.18 | 18.9 | 1.97 | 18.5 | 2.00 | 17.7 | 1.90 | 16.8 | 1.81 |
| | | 48.0 | 21.2 | 2.25 | 19.9 | 2.15 | 18.9 | 1.97 | 18.5 | 1.97 | 17.7 | 1.87 | 16.8 | 1.79 |
| | | 96.0 | 21.2 | 2.25 | 19.9 | 2.07 | 18.9 | 1.97 | 18.5 | 1.87 | 17.7 | 1.79 | 16.8 | 1.69 |
| | | 120.0 | 21.2 | 2.25 | 19.9 | 2.07 | 18.9 | 1.87 | 18.5 | 1.87 | 17.7 | 1.79 | 16.8 | 1.69 |
| | | 144.0 | 21.2 | 2.25 | 19.9 | 2.07 | 18.9 | 1.82 | 18.5 | 1.87 | 17.7 | 1.79 | 16.8 | 1.69 |
| | 40 | 38.4 | 21.2 | 2.07 | 19.9 | 2.00 | 18.9 | 1.79 | 18.5 | 1.81 | 17.7 | 1.71 | 16.8 | 1.59 |
| | | 48.0 | 21.2 | 2.07 | 19.9 | 1.97 | 18.9 | 1.79 | 18.5 | 1.79 | 17.7 | 1.69 | 16.8 | 1.59 |
| | | 96.0 | 21.2 | 2.07 | 19.9 | 1.87 | 18.9 | 1.79 | 18.5 | 1.69 | 17.7 | 1.59 | 16.8 | 1.59 |
| | | 120.0 | 21.2 | 2.07 | 19.9 | 1.87 | 18.9 | 1.79 | 18.5 | 1.69 | 17.7 | 1.59 | 16.8 | 1.59 |
| | | 144.0 | 21.2 | 2.07 | 19.9 | 1.87 | 18.9 | 1.79 | 18.5 | 1.69 | 17.7 | 1.59 | 16.8 | 1.59 |
| | 45 | 38.4 | 21.2 | 1.87 | 19.9 | 1.81 | 18.9 | 1.59 | 18.5 | 1.61 | 17.7 | 1.53 | 16.8 | 1.38 |
| | | 48.0 | 21.2 | 1.87 | 19.9 | 1.79 | 18.9 | 1.59 | 18.5 | 1.59 | 17.7 | 1.50 | 16.8 | 1.41 |
| | | 96.0 | 21.2 | 1.87 | 19.9 | 1.69 | 18.9 | 1.59 | 18.5 | 1.50 | 17.7 | 1.41 | 16.8 | 1.50 |
| | | 120.0 | 21.2 | 1.87 | 19.9 | 1.69 | 18.9 | 1.69 | 18.5 | 1.50 | 17.7 | 1.41 | 16.8 | 1.50 |
| | | 144.0 | 21.2 | 1.87 | 19.9 | 1.69 | 18.9 | 1.74 | 18.5 | 1.50 | 17.7 | 1.41 | 16.8 | 1.50 |
| 50 | -5 | 38.4 | 7.1 | 2.20 | 6.6 | 2.08 | 6.3 | 1.97 | 6.2 | 1.86 | 6.1 | 1.75 | 6.0 | 1.65 |
| | | 48.0 | 7.3 | 2.24 | 6.9 | 2.13 | 6.5 | 2.01 | 6.4 | 1.90 | 6.4 | 1.79 | 6.2 | 1.69 |
| | | 96.0 | 8.2 | 2.43 | 7.7 | 2.31 | 7.3 | 2.17 | 7.2 | 2.07 | 7.2 | 1.94 | 7.1 | 1.82 |
| | | 120.0 | 9.1 | 2.62 | 8.6 | 2.48 | 8.1 | 2.35 | 8.0 | 2.23 | 7.9 | 2.09 | 7.8 | 1.97 |
| | | 144.0 | 9.6 | 2.72 | 9.0 | 2.57 | 8.5 | 2.44 | 8.4 | 2.32 | 8.3 | 2.16 | 8.2 | 2.04 |
| | 0 | 38.4 | 12.6 | 3.22 | 11.7 | 3.05 | 10.8 | 2.87 | 10.6 | 2.73 | 10.5 | 2.56 | 10.1 | 2.42 |
| | | 48.0 | 12.7 | 3.22 | 11.7 | 3.06 | 10.9 | 2.88 | 10.7 | 2.74 | 10.5 | 2.57 | 10.1 | 2.43 |
| | | 96.0 | 13.0 | 3.25 | 12.0 | 3.09 | 11.2 | 2.92 | 10.9 | 2.78 | 10.8 | 2.60 | 10.4 | 2.46 |
| | | 120.0 | 13.2 | 3.25 | 12.2 | 3.09 | 11.3 | 2.92 | 11.1 | 2.78 | 10.9 | 2.60 | 10.5 | 2.46 |
| | | 144.0 | 13.3 | 3.25 | 12.2 | 3.09 | 11.4 | 2.92 | 11.2 | 2.78 | 11.0 | 2.60 | 10.6 | 2.46 |
| | 5 | 38.4 | 17.4 | 3.50 | 16.5 | 3.31 | 15.7 | 3.13 | 15.4 | 2.98 | 14.7 | 2.79 | 14.0 | 2.63 |
| | | 48.0 | 17.4 | 3.51 | 16.5 | 3.33 | 15.7 | 3.15 | 15.4 | 2.99 | 14.7 | 2.81 | 14.0 | 2.64 |
| | | 96.0 | 17.6 | 3.58 | 16.6 | 3.40 | 15.8 | 3.21 | 15.4 | 3.05 | 14.7 | 2.85 | 14.0 | 2.70 |
| | | 120.0 | 17.6 | 3.61 | 16.6 | 3.43 | 15.8 | 3.23 | 15.4 | 3.07 | 14.7 | 2.88 | 14.0 | 2.72 |
| | | 144.0 | 17.6 | 3.63 | 16.6 | 3.44 | 15.8 | 3.24 | 15.4 | 3.08 | 14.7 | 2.90 | 14.0 | 2.73 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(10HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 38.4 | 17.5 | 3.22 | 16.5 | 3.03 | 15.7 | 2.85 | 15.4 | 2.72 | 14.7 | 2.52 | 14.0 | 2.40 |
| | | 48.0 | 17.5 | 3.21 | 16.6 | 3.03 | 15.7 | 2.84 | 15.4 | 2.72 | 14.7 | 2.52 | 14.0 | 2.40 |
| | | 96.0 | 17.6 | 3.19 | 16.6 | 3.02 | 15.8 | 2.82 | 15.4 | 2.70 | 14.7 | 2.55 | 14.0 | 2.38 |
| | | 120.0 | 17.6 | 3.21 | 16.6 | 3.03 | 15.8 | 2.83 | 15.4 | 2.71 | 14.7 | 2.51 | 14.0 | 2.39 |
| | | 144.0 | 17.6 | 3.22 | 16.6 | 3.03 | 15.8 | 2.84 | 15.4 | 2.71 | 14.7 | 2.49 | 14.0 | 2.39 |
| | 15 | 38.4 | 17.6 | 2.94 | 16.6 | 2.74 | 15.8 | 2.56 | 15.4 | 2.46 | 14.7 | 2.25 | 14.0 | 2.18 |
| | | 48.0 | 17.6 | 2.91 | 16.6 | 2.72 | 15.8 | 2.53 | 15.4 | 2.44 | 14.7 | 2.25 | 14.0 | 2.15 |
| | | 96.0 | 17.6 | 2.82 | 16.6 | 2.63 | 15.8 | 2.44 | 15.4 | 2.35 | 14.7 | 2.25 | 14.0 | 2.07 |
| | | 120.0 | 17.6 | 2.82 | 16.6 | 2.63 | 15.8 | 2.44 | 15.4 | 2.35 | 14.7 | 2.15 | 14.0 | 2.07 |
| | | 144.0 | 17.6 | 2.82 | 16.6 | 2.63 | 15.8 | 2.44 | 15.4 | 2.35 | 14.7 | 2.11 | 14.0 | 2.07 |
| | 20 | 38.4 | 17.6 | 2.56 | 16.6 | 2.37 | 15.8 | 2.28 | 15.4 | 2.18 | 14.7 | 2.09 | 14.0 | 1.87 |
| | | 48.0 | 17.6 | 2.53 | 16.6 | 2.35 | 15.8 | 2.25 | 15.4 | 2.15 | 14.7 | 2.07 | 14.0 | 1.87 |
| | | 96.0 | 17.6 | 2.44 | 16.6 | 2.25 | 15.8 | 2.15 | 15.4 | 2.07 | 14.7 | 1.97 | 14.0 | 1.87 |
| | | 120.0 | 17.6 | 2.44 | 16.6 | 2.25 | 15.8 | 2.15 | 15.4 | 2.07 | 14.7 | 1.97 | 14.0 | 1.87 |
| | | 144.0 | 17.6 | 2.44 | 16.6 | 2.25 | 15.8 | 2.15 | 15.4 | 2.07 | 14.7 | 1.97 | 14.0 | 1.87 |
| | 25 | 38.4 | 17.6 | 2.28 | 16.6 | 2.07 | 15.8 | 2.00 | 15.4 | 1.87 | 14.7 | 1.79 | 14.0 | 1.69 |
| | | 48.0 | 17.6 | 2.25 | 16.6 | 2.07 | 15.8 | 1.97 | 15.4 | 1.87 | 14.7 | 1.79 | 14.0 | 1.69 |
| | | 96.0 | 17.6 | 2.15 | 16.6 | 2.07 | 15.8 | 1.87 | 15.4 | 1.87 | 14.7 | 1.79 | 14.0 | 1.69 |
| | | 120.0 | 17.6 | 2.15 | 16.6 | 2.07 | 15.8 | 1.87 | 15.4 | 1.87 | 14.7 | 1.79 | 14.0 | 1.69 |
| | | 144.0 | 17.6 | 2.15 | 16.6 | 2.07 | 15.8 | 1.87 | 15.4 | 1.87 | 14.7 | 1.79 | 14.0 | 1.69 |
| | 30 | 38.4 | 17.6 | 2.09 | 16.6 | 1.90 | 15.8 | 1.81 | 15.4 | 1.69 | 14.7 | 1.71 | 14.0 | 1.61 |
| | | 48.0 | 17.6 | 2.07 | 16.6 | 1.87 | 15.8 | 1.79 | 15.4 | 1.69 | 14.7 | 1.69 | 14.0 | 1.59 |
| | | 96.0 | 17.6 | 1.97 | 16.6 | 1.79 | 15.8 | 1.69 | 15.4 | 1.69 | 14.7 | 1.59 | 14.0 | 1.50 |
| | | 120.0 | 17.6 | 1.97 | 16.6 | 1.79 | 15.8 | 1.69 | 15.4 | 1.69 | 14.7 | 1.59 | 14.0 | 1.50 |
| | | 144.0 | 17.6 | 1.97 | 16.6 | 1.79 | 15.8 | 1.69 | 15.4 | 1.69 | 14.7 | 1.59 | 14.0 | 1.50 |
| | 35 | 38.4 | 17.6 | 1.90 | 16.6 | 1.69 | 15.8 | 1.59 | 15.4 | 1.61 | 14.7 | 1.50 | 14.0 | 1.41 |
| | | 48.0 | 17.6 | 1.87 | 16.6 | 1.69 | 15.8 | 1.59 | 15.4 | 1.59 | 14.7 | 1.50 | 14.0 | 1.41 |
| | | 96.0 | 17.6 | 1.79 | 16.6 | 1.69 | 15.8 | 1.59 | 15.4 | 1.50 | 14.7 | 1.50 | 14.0 | 1.41 |
| | | 120.0 | 17.6 | 1.79 | 16.6 | 1.69 | 15.8 | 1.59 | 15.4 | 1.50 | 14.7 | 1.50 | 14.0 | 1.41 |
| | | 144.0 | 17.6 | 1.79 | 16.6 | 1.69 | 15.8 | 1.59 | 15.4 | 1.50 | 14.7 | 1.50 | 14.0 | 1.41 |
| | 40 | 38.4 | 17.6 | 1.71 | 16.6 | 1.61 | 15.8 | 1.53 | 15.4 | 1.41 | 14.7 | 1.43 | 14.0 | 1.31 |
| | | 48.0 | 17.6 | 1.69 | 16.6 | 1.59 | 15.8 | 1.50 | 15.4 | 1.41 | 14.7 | 1.41 | 14.0 | 1.31 |
| | | 96.0 | 17.6 | 1.59 | 16.6 | 1.50 | 15.8 | 1.41 | 15.4 | 1.41 | 14.7 | 1.31 | 14.0 | 1.31 |
| | | 120.0 | 17.6 | 1.59 | 16.6 | 1.50 | 15.8 | 1.41 | 15.4 | 1.41 | 14.7 | 1.31 | 14.0 | 1.31 |
| | | 144.0 | 17.6 | 1.59 | 16.6 | 1.50 | 15.8 | 1.41 | 15.4 | 1.41 | 14.7 | 1.31 | 14.0 | 1.31 |
| | 45 | 38.4 | 17.6 | 1.53 | 16.6 | 1.55 | 15.8 | 1.45 | 15.4 | 1.20 | 14.7 | 1.36 | 14.0 | 1.22 |
| | | 48.0 | 17.6 | 1.50 | 16.6 | 1.50 | 15.8 | 1.41 | 15.4 | 1.22 | 14.7 | 1.31 | 14.0 | 1.22 |
| | | 96.0 | 17.6 | 1.41 | 16.6 | 1.31 | 15.8 | 1.22 | 15.4 | 1.31 | 14.7 | 1.13 | 14.0 | 1.22 |
| | | 120.0 | 17.6 | 1.41 | 16.6 | 1.31 | 15.8 | 1.22 | 15.4 | 1.31 | 14.7 | 1.13 | 14.0 | 1.22 |
| | | 144.0 | 17.6 | 1.41 | 16.6 | 1.31 | 15.8 | 1.22 | 15.4 | 1.31 | 14.7 | 1.13 | 14.0 | 1.22 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN140BAS4

**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 54.0 | 20.9 | 8.88 | 20.7 | 8.36 | 20.6 | 7.78 | 20.3 | 7.55 | 20.5 | 7.36 | 20.0 | 6.60 |
| | | 67.5 | 21.6 | 9.04 | 21.4 | 8.52 | 21.3 | 7.95 | 21.0 | 7.72 | 21.3 | 7.52 | 20.7 | 6.74 |
| | | 135.0 | 24.4 | 9.65 | 24.2 | 9.17 | 24.1 | 8.63 | 23.8 | 8.38 | 24.0 | 8.14 | 23.4 | 7.31 |
| | | 168.8 | 27.0 | 10.26 | 26.7 | 9.80 | 26.6 | 9.30 | 26.3 | 9.05 | 26.6 | 8.79 | 25.9 | 7.88 |
| | | 202.5 | 28.3 | 10.57 | 28.0 | 10.11 | 27.8 | 9.64 | 27.5 | 9.39 | 27.9 | 9.11 | 27.1 | 8.17 |
| | 0 | 54.0 | 37.3 | 12.15 | 36.4 | 11.78 | 35.6 | 11.40 | 34.9 | 11.08 | 35.0 | 10.78 | 33.4 | 9.65 |
| | | 67.5 | 37.5 | 12.18 | 36.6 | 11.81 | 35.9 | 11.43 | 35.1 | 11.11 | 35.2 | 10.80 | 33.6 | 9.68 |
| | | 135.0 | 38.4 | 12.31 | 37.5 | 11.93 | 36.7 | 11.56 | 35.9 | 11.24 | 36.0 | 10.92 | 34.4 | 9.80 |
| | | 168.8 | 39.0 | 12.31 | 38.0 | 11.93 | 37.2 | 11.56 | 36.4 | 11.24 | 36.6 | 10.92 | 34.9 | 9.80 |
| | | 202.5 | 39.3 | 12.31 | 38.3 | 11.93 | 37.5 | 11.56 | 36.7 | 11.24 | 36.8 | 10.92 | 35.2 | 9.80 |
| | 5 | 54.0 | 53.7 | 13.06 | 52.9 | 12.73 | 51.8 | 12.41 | 50.5 | 12.06 | 49.1 | 11.73 | 46.4 | 10.50 |
| | | 67.5 | 53.9 | 13.11 | 53.0 | 12.79 | 51.8 | 12.47 | 50.5 | 12.12 | 49.1 | 11.78 | 46.4 | 10.56 |
| | | 135.0 | 54.6 | 13.35 | 53.3 | 13.03 | 51.8 | 12.72 | 50.5 | 12.37 | 49.1 | 12.02 | 46.4 | 10.78 |
| | | 168.8 | 54.9 | 13.44 | 53.5 | 13.11 | 51.8 | 12.81 | 50.5 | 12.46 | 49.1 | 12.11 | 46.4 | 10.85 |
| | | 202.5 | 55.1 | 13.48 | 53.6 | 13.16 | 51.8 | 12.85 | 50.5 | 12.50 | 49.1 | 12.15 | 46.4 | 10.89 |
| | 10 | 54.0 | 53.7 | 11.88 | 52.9 | 11.48 | 51.6 | 11.27 | 50.3 | 11.01 | 48.9 | 10.64 | 46.2 | 9.60 |
| | | 67.5 | 54.1 | 11.86 | 53.1 | 11.49 | 51.8 | 11.29 | 50.5 | 11.01 | 49.1 | 10.63 | 46.4 | 9.59 |
| | | 135.0 | 55.3 | 11.77 | 54.1 | 11.54 | 52.6 | 11.37 | 51.3 | 10.99 | 49.8 | 10.60 | 47.1 | 9.56 |
| | | 168.8 | 55.6 | 11.93 | 54.5 | 11.70 | 53.0 | 11.42 | 51.5 | 11.04 | 50.2 | 10.78 | 47.4 | 10.02 |
| | | 202.5 | 55.8 | 12.01 | 54.7 | 11.78 | 53.1 | 11.44 | 51.6 | 11.06 | 50.3 | 10.86 | 47.6 | 10.24 |
| | 15 | 54.0 | 53.8 | 10.71 | 52.9 | 10.25 | 51.4 | 10.14 | 50.0 | 9.97 | 48.7 | 9.55 | 46.0 | 8.70 |
| | | 67.5 | 54.3 | 10.60 | 53.3 | 10.21 | 51.8 | 10.12 | 50.5 | 9.90 | 49.1 | 9.47 | 46.4 | 8.63 |
| | | 135.0 | 56.0 | 10.18 | 54.9 | 10.03 | 53.5 | 10.03 | 52.1 | 9.61 | 50.6 | 9.18 | 47.9 | 8.33 |
| | | 168.8 | 56.3 | 10.42 | 55.4 | 10.26 | 54.1 | 10.03 | 52.6 | 9.61 | 51.3 | 9.44 | 48.4 | 9.18 |
| | | 202.5 | 56.5 | 10.55 | 55.7 | 10.38 | 54.4 | 10.03 | 52.9 | 9.61 | 51.6 | 9.58 | 48.7 | 9.61 |
| | 20 | 54.0 | 55.9 | 9.82 | 54.9 | 9.36 | 53.4 | 9.16 | 51.9 | 8.87 | 50.4 | 8.67 | 47.4 | 8.40 |
| | | 67.5 | 56.3 | 9.75 | 55.3 | 9.36 | 53.8 | 9.15 | 52.3 | 8.90 | 50.9 | 8.73 | 47.9 | 8.33 |
| | | 135.0 | 58.1 | 9.47 | 57.1 | 9.33 | 55.5 | 9.12 | 54.0 | 9.05 | 52.6 | 8.96 | 49.6 | 8.06 |
| | | 168.8 | 58.3 | 9.47 | 57.5 | 9.33 | 56.1 | 9.18 | 54.5 | 9.05 | 53.0 | 8.96 | 50.0 | 8.57 |
| | | 202.5 | 58.5 | 9.47 | 57.7 | 9.33 | 56.5 | 9.21 | 54.8 | 9.05 | 53.2 | 8.96 | 50.3 | 8.83 |
| | 25 | 54.0 | 59.0 | 9.36 | 57.5 | 9.09 | 56.1 | 8.94 | 55.1 | 8.79 | 53.8 | 8.66 | 50.7 | 8.09 |
| | | 67.5 | 59.0 | 9.33 | 57.5 | 9.08 | 56.1 | 8.90 | 55.1 | 8.76 | 53.8 | 8.63 | 50.7 | 8.06 |
| | | 135.0 | 59.0 | 9.18 | 57.5 | 9.02 | 56.1 | 8.76 | 55.1 | 8.63 | 53.8 | 8.48 | 50.7 | 7.91 |
| | | 168.8 | 59.0 | 9.05 | 57.5 | 8.79 | 56.1 | 8.63 | 55.1 | 8.48 | 53.8 | 8.33 | 50.7 | 7.78 |
| | | 202.5 | 59.0 | 8.98 | 57.5 | 8.67 | 56.1 | 8.56 | 55.1 | 8.41 | 53.8 | 8.26 | 50.7 | 7.71 |
| | 30 | 54.0 | 59.0 | 9.12 | 57.5 | 8.67 | 56.1 | 8.59 | 55.1 | 8.37 | 53.8 | 8.28 | 50.7 | 7.70 |
| | | 67.5 | 59.0 | 9.05 | 57.5 | 8.66 | 56.1 | 8.54 | 55.1 | 8.33 | 53.8 | 8.20 | 50.7 | 7.63 |
| | | 135.0 | 59.0 | 8.76 | 57.5 | 8.60 | 56.1 | 8.33 | 55.1 | 8.20 | 53.8 | 7.91 | 50.7 | 7.35 |
| | | 168.8 | 59.0 | 8.63 | 57.5 | 8.36 | 56.1 | 8.20 | 55.1 | 8.06 | 53.8 | 7.91 | 50.7 | 7.35 |
| | | 202.5 | 59.0 | 8.56 | 57.5 | 8.25 | 56.1 | 8.14 | 55.1 | 7.98 | 53.8 | 7.91 | 50.7 | 7.35 |
| | 35 | 54.0 | 59.0 | 8.70 | 57.5 | 8.41 | 56.1 | 8.24 | 55.1 | 7.94 | 53.8 | 7.67 | 50.7 | 7.13 |
| | | 67.5 | 59.0 | 8.63 | 57.5 | 8.36 | 56.1 | 8.20 | 55.1 | 7.91 | 53.8 | 7.63 | 50.7 | 7.06 |
| | | 135.0 | 59.0 | 8.33 | 57.5 | 8.17 | 56.1 | 8.06 | 55.1 | 7.78 | 53.8 | 7.49 | 50.7 | 6.78 |
| | | 168.8 | 59.0 | 8.33 | 57.5 | 8.09 | 56.1 | 7.91 | 55.1 | 7.63 | 53.8 | 7.35 | 50.7 | 6.78 |
| | | 202.5 | 59.0 | 8.33 | 57.5 | 8.04 | 56.1 | 7.84 | 55.1 | 7.56 | 53.8 | 7.29 | 50.7 | 6.78 |
| | 40 | 54.0 | 59.0 | 8.40 | 57.5 | 8.14 | 56.1 | 7.98 | 55.1 | 7.70 | 53.8 | 7.43 | 50.7 | 6.71 |
| | | 67.5 | 59.0 | 8.33 | 57.5 | 8.09 | 56.1 | 7.91 | 55.1 | 7.63 | 53.8 | 7.35 | 50.7 | 6.64 |
| | | 135.0 | 59.0 | 8.06 | 57.5 | 7.88 | 56.1 | 7.63 | 55.1 | 7.35 | 53.8 | 7.06 | 50.7 | 6.36 |
| | | 168.8 | 59.0 | 7.91 | 57.5 | 7.75 | 56.1 | 7.63 | 55.1 | 7.35 | 53.8 | 7.06 | 50.7 | 6.36 |
| | | 202.5 | 59.0 | 7.84 | 57.5 | 7.68 | 56.1 | 7.63 | 55.1 | 7.35 | 53.8 | 7.06 | 50.7 | 6.36 |
| | 45 | 54.0 | 59.0 | 8.13 | 57.5 | 7.86 | 56.1 | 7.74 | 55.1 | 7.46 | 53.8 | 7.17 | 50.7 | 6.28 |
| | | 67.5 | 59.0 | 8.06 | 57.5 | 7.81 | 56.1 | 7.63 | 55.1 | 7.35 | 53.8 | 7.06 | 50.7 | 6.21 |
| | | 135.0 | 59.0 | 7.78 | 57.5 | 7.60 | 56.1 | 7.21 | 55.1 | 6.93 | 53.8 | 6.64 | 50.7 | 5.94 |
| | | 168.8 | 59.0 | 7.49 | 57.5 | 7.41 | 56.1 | 7.35 | 55.1 | 7.06 | 53.8 | 6.78 | 50.7 | 5.94 |
| | | 202.5 | 59.0 | 7.34 | 57.5 | 7.32 | 56.1 | 7.43 | 55.1 | 7.13 | 53.8 | 6.86 | 50.7 | 5.94 |
| 120 | -5 | 54.0 | 19.8 | 8.88 | 19.7 | 8.36 | 19.6 | 7.78 | 19.3 | 7.45 | 19.5 | 7.24 | 19.0 | 6.48 |
| | | 67.5 | 20.5 | 9.04 | 20.3 | 8.52 | 20.2 | 7.95 | 20.0 | 7.62 | 20.1 | 7.40 | 19.6 | 6.62 |
| | | 135.0 | 23.2 | 9.65 | 23.0 | 9.17 | 22.9 | 8.63 | 22.6 | 8.26 | 22.8 | 8.03 | 22.2 | 7.19 |
| | | 168.8 | 25.6 | 10.26 | 25.4 | 9.80 | 25.3 | 9.30 | 25.0 | 8.92 | 25.2 | 8.66 | 24.5 | 7.75 |
| | | 202.5 | 26.9 | 10.57 | 26.7 | 10.11 | 26.5 | 9.64 | 26.2 | 9.25 | 26.4 | 8.97 | 25.6 | 8.03 |
| | 0 | 54.0 | 35.4 | 12.15 | 34.6 | 11.78 | 33.8 | 11.40 | 33.2 | 10.92 | 33.2 | 10.61 | 31.6 | 9.49 |
| | | 67.5 | 35.6 | 12.18 | 34.8 | 11.81 | 34.0 | 11.43 | 33.4 | 10.95 | 33.4 | 10.64 | 31.8 | 9.52 |
| | | 135.0 | 36.5 | 12.31 | 35.6 | 11.93 | 34.9 | 11.56 | 34.1 | 11.08 | 34.1 | 10.76 | 32.6 | 9.64 |
| | | 168.8 | 37.0 | 12.31 | 36.2 | 11.93 | 35.4 | 11.56 | 34.7 | 11.08 | 34.6 | 10.76 | 33.1 | 9.64 |
| | | 202.5 | 37.3 | 12.31 | 36.5 | 11.93 | 35.7 | 11.56 | 34.9 | 11.08 | 34.9 | 10.76 | 33.4 | 9.64 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 54.0 | 51.1 | 13.06 | 50.3 | 12.73 | 49.2 | 12.41 | 48.0 | 11.88 | 46.5 | 11.55 | 44.0 | 10.34 |
| | | 67.5 | 51.3 | 13.11 | 50.4 | 12.79 | 49.2 | 12.47 | 48.0 | 11.95 | 46.5 | 11.61 | 44.0 | 10.40 |
| | | 135.0 | 52.0 | 13.35 | 50.8 | 13.03 | 49.2 | 12.72 | 48.0 | 12.19 | 46.5 | 11.84 | 44.0 | 10.60 |
| | | 168.8 | 52.3 | 13.44 | 50.5 | 13.11 | 49.2 | 12.81 | 48.0 | 12.28 | 46.5 | 11.93 | 44.0 | 10.67 |
| | | 202.5 | 52.4 | 13.48 | 50.4 | 13.16 | 49.2 | 12.85 | 48.0 | 12.33 | 46.5 | 11.97 | 44.0 | 10.71 |
| | 10 | 54.0 | 51.3 | 11.73 | 50.3 | 11.40 | 49.1 | 11.17 | 47.9 | 10.83 | 46.4 | 10.48 | 43.9 | 9.42 |
| | | 67.5 | 51.5 | 11.77 | 50.5 | 11.45 | 49.2 | 11.21 | 48.0 | 10.85 | 46.5 | 10.47 | 44.0 | 9.43 |
| | | 135.0 | 52.5 | 11.93 | 51.4 | 11.62 | 49.8 | 11.37 | 48.6 | 10.91 | 47.0 | 10.44 | 44.4 | 9.47 |
| | | 168.8 | 52.8 | 11.89 | 51.2 | 11.62 | 50.0 | 11.42 | 48.8 | 10.95 | 47.2 | 10.48 | 44.6 | 9.80 |
| | | 202.5 | 52.9 | 11.86 | 51.1 | 11.62 | 50.1 | 11.44 | 48.9 | 10.97 | 47.3 | 10.51 | 44.7 | 9.96 |
| | 15 | 54.0 | 51.4 | 10.40 | 50.4 | 10.10 | 48.9 | 9.94 | 47.8 | 9.79 | 46.3 | 9.40 | 43.7 | 8.52 |
| | | 67.5 | 51.7 | 10.42 | 50.7 | 10.12 | 49.2 | 9.96 | 48.0 | 9.75 | 46.5 | 9.33 | 44.0 | 8.48 |
| | | 135.0 | 52.9 | 10.51 | 51.9 | 10.21 | 50.3 | 10.03 | 49.1 | 9.61 | 47.5 | 9.05 | 44.9 | 8.33 |
| | | 168.8 | 53.2 | 10.35 | 51.9 | 10.12 | 50.7 | 10.03 | 49.5 | 9.61 | 47.9 | 9.05 | 45.3 | 8.90 |
| | | 202.5 | 53.4 | 10.27 | 51.9 | 10.07 | 51.0 | 10.03 | 49.7 | 9.61 | 48.1 | 9.05 | 45.5 | 9.19 |
| | 20 | 54.0 | 52.9 | 9.36 | 51.9 | 8.96 | 50.3 | 8.72 | 48.9 | 8.59 | 47.3 | 8.49 | 44.8 | 8.06 |
| | | 67.5 | 53.2 | 9.36 | 52.2 | 8.99 | 50.6 | 8.76 | 49.2 | 8.63 | 47.6 | 8.48 | 45.0 | 8.03 |
| | | 135.0 | 54.6 | 9.36 | 53.4 | 9.12 | 51.7 | 8.90 | 50.5 | 8.76 | 48.8 | 8.45 | 46.1 | 7.91 |
| | | 168.8 | 54.8 | 9.27 | 53.4 | 9.05 | 52.1 | 8.90 | 50.7 | 8.76 | 49.1 | 8.48 | 46.4 | 8.20 |
| | | 202.5 | 54.9 | 9.23 | 53.4 | 9.01 | 52.3 | 8.90 | 50.9 | 8.76 | 49.2 | 8.49 | 46.5 | 8.35 |
| | 25 | 54.0 | 55.4 | 8.85 | 53.8 | 8.44 | 52.1 | 8.28 | 51.0 | 8.09 | 49.6 | 7.94 | 46.9 | 7.39 |
| | | 67.5 | 55.5 | 8.82 | 53.8 | 8.42 | 52.1 | 8.26 | 51.0 | 8.06 | 49.6 | 7.91 | 46.9 | 7.35 |
| | | 135.0 | 55.6 | 8.68 | 53.8 | 8.36 | 52.1 | 8.20 | 51.0 | 7.91 | 49.6 | 7.78 | 46.9 | 7.21 |
| | | 168.8 | 55.8 | 8.36 | 53.8 | 8.14 | 52.1 | 8.06 | 51.0 | 7.91 | 49.6 | 7.63 | 46.9 | 7.21 |
| | | 202.5 | 55.8 | 8.20 | 53.8 | 8.03 | 52.1 | 7.98 | 51.0 | 7.91 | 49.6 | 7.56 | 46.9 | 7.21 |
| | 30 | 54.0 | 55.8 | 8.46 | 53.8 | 8.05 | 52.1 | 7.82 | 51.0 | 7.52 | 49.6 | 7.43 | 46.9 | 6.82 |
| | | 67.5 | 55.8 | 8.39 | 53.8 | 8.00 | 52.1 | 7.78 | 51.0 | 7.49 | 49.6 | 7.35 | 46.9 | 6.78 |
| | | 135.0 | 55.8 | 8.11 | 53.8 | 7.81 | 52.1 | 7.63 | 51.0 | 7.35 | 49.6 | 7.06 | 46.9 | 6.64 |
| | | 168.8 | 55.8 | 7.85 | 53.8 | 7.63 | 52.1 | 7.49 | 51.0 | 7.35 | 49.6 | 7.06 | 46.9 | 6.51 |
| | | 202.5 | 55.8 | 7.72 | 53.8 | 7.54 | 52.1 | 7.41 | 51.0 | 7.35 | 49.6 | 7.06 | 46.9 | 6.44 |
| | 35 | 54.0 | 55.8 | 8.08 | 53.8 | 7.64 | 52.1 | 7.43 | 51.0 | 7.13 | 49.6 | 6.85 | 46.9 | 6.25 |
| | | 67.5 | 55.8 | 7.97 | 53.8 | 7.57 | 52.1 | 7.35 | 51.0 | 7.06 | 49.6 | 6.78 | 46.9 | 6.21 |
| | | 135.0 | 55.8 | 7.52 | 53.8 | 7.30 | 52.1 | 7.06 | 51.0 | 6.78 | 49.6 | 6.51 | 46.9 | 6.08 |
| | | 168.8 | 55.8 | 7.43 | 53.8 | 7.24 | 52.1 | 7.06 | 51.0 | 6.78 | 49.6 | 6.51 | 46.9 | 5.94 |
| | | 202.5 | 55.8 | 7.38 | 53.8 | 7.21 | 52.1 | 7.06 | 51.0 | 6.78 | 49.6 | 6.51 | 46.9 | 5.86 |
| | 40 | 54.0 | 55.8 | 7.84 | 53.8 | 7.29 | 52.1 | 7.00 | 51.0 | 6.71 | 49.6 | 6.43 | 46.9 | 5.82 |
| | | 67.5 | 55.8 | 7.69 | 53.8 | 7.21 | 52.1 | 6.93 | 51.0 | 6.64 | 49.6 | 6.36 | 46.9 | 5.79 |
| | | 135.0 | 55.8 | 7.09 | 53.8 | 6.87 | 52.1 | 6.64 | 51.0 | 6.36 | 49.6 | 6.08 | 46.9 | 5.66 |
| | | 168.8 | 55.8 | 7.00 | 53.8 | 6.78 | 52.1 | 6.64 | 51.0 | 6.36 | 49.6 | 6.08 | 46.9 | 5.51 |
| | | 202.5 | 55.8 | 6.96 | 53.8 | 6.74 | 52.1 | 6.64 | 51.0 | 6.36 | 49.6 | 6.08 | 46.9 | 5.44 |
| | 45 | 54.0 | 55.8 | 7.60 | 53.8 | 6.94 | 52.1 | 6.58 | 51.0 | 6.28 | 49.6 | 6.01 | 46.9 | 5.40 |
| | | 67.5 | 55.8 | 7.41 | 53.8 | 6.84 | 52.1 | 6.51 | 51.0 | 6.21 | 49.6 | 5.94 | 46.9 | 5.37 |
| | | 135.0 | 55.8 | 6.67 | 53.8 | 6.45 | 52.1 | 6.21 | 51.0 | 5.94 | 49.6 | 5.66 | 46.9 | 5.23 |
| | | 168.8 | 55.8 | 6.58 | 53.8 | 6.33 | 52.1 | 6.21 | 51.0 | 5.94 | 49.6 | 5.66 | 46.9 | 5.09 |
| | | 202.5 | 55.8 | 6.54 | 53.8 | 6.27 | 52.1 | 6.21 | 51.0 | 5.94 | 49.6 | 5.66 | 46.9 | 5.01 |
| 110 | -5 | 54.0 | 18.8 | 9.00 | 18.6 | 8.36 | 18.5 | 7.78 | 18.3 | 7.45 | 18.4 | 7.24 | 18.0 | 6.48 |
| | | 67.5 | 19.4 | 9.15 | 19.3 | 8.52 | 19.2 | 7.95 | 19.0 | 7.62 | 19.0 | 7.40 | 18.6 | 6.62 |
| | | 135.0 | 21.9 | 9.77 | 21.8 | 9.17 | 21.7 | 8.63 | 21.5 | 8.26 | 21.5 | 8.03 | 21.0 | 7.19 |
| | | 168.8 | 24.2 | 10.40 | 24.1 | 9.80 | 24.0 | 9.30 | 23.7 | 8.92 | 23.7 | 8.66 | 23.2 | 7.75 |
| | | 202.5 | 25.4 | 10.71 | 25.2 | 10.11 | 25.1 | 9.64 | 24.8 | 9.25 | 24.8 | 8.97 | 24.3 | 8.03 |
| | 0 | 54.0 | 33.5 | 12.31 | 32.8 | 11.78 | 32.1 | 11.40 | 31.5 | 10.92 | 31.2 | 10.61 | 30.0 | 9.49 |
| | | 67.5 | 33.7 | 12.34 | 33.0 | 11.81 | 32.3 | 11.43 | 31.7 | 10.95 | 31.4 | 10.64 | 30.2 | 9.52 |
| | | 135.0 | 34.5 | 12.46 | 33.8 | 11.93 | 33.0 | 11.56 | 32.4 | 11.08 | 32.1 | 10.76 | 30.9 | 9.64 |
| | | 168.8 | 35.0 | 12.46 | 34.3 | 11.93 | 33.6 | 11.56 | 32.9 | 11.08 | 32.6 | 10.76 | 31.3 | 9.64 |
| | | 202.5 | 35.3 | 12.46 | 34.6 | 11.93 | 33.8 | 11.56 | 33.1 | 11.08 | 32.9 | 10.76 | 31.6 | 9.64 |
| | 5 | 54.0 | 48.9 | 13.23 | 47.7 | 12.73 | 46.6 | 12.41 | 45.6 | 11.88 | 43.8 | 11.55 | 41.7 | 10.34 |
| | | 67.5 | 49.1 | 13.29 | 47.8 | 12.79 | 46.6 | 12.47 | 45.6 | 11.95 | 43.8 | 11.61 | 41.7 | 10.40 |
| | | 135.0 | 49.7 | 13.52 | 48.2 | 13.03 | 46.7 | 12.72 | 45.6 | 12.19 | 43.8 | 11.84 | 41.7 | 10.60 |
| | | 168.8 | 50.0 | 13.61 | 48.3 | 13.11 | 46.7 | 12.81 | 45.6 | 12.28 | 43.8 | 11.93 | 41.7 | 10.67 |
| | | 202.5 | 50.2 | 13.66 | 48.4 | 13.16 | 46.7 | 12.85 | 45.6 | 12.33 | 43.8 | 11.97 | 41.7 | 10.71 |
| | 10 | 54.0 | 49.1 | 11.86 | 47.9 | 11.46 | 46.6 | 11.21 | 45.5 | 10.83 | 43.7 | 10.48 | 41.6 | 9.42 |
| | | 67.5 | 49.3 | 11.89 | 48.0 | 11.49 | 46.6 | 11.24 | 45.6 | 10.85 | 43.8 | 10.47 | 41.7 | 9.43 |
| | | 135.0 | 50.0 | 11.97 | 48.5 | 11.62 | 46.9 | 11.37 | 45.9 | 10.91 | 44.1 | 10.44 | 41.9 | 9.47 |
| | | 168.8 | 50.3 | 11.97 | 48.7 | 11.62 | 47.1 | 11.35 | 45.9 | 10.88 | 44.2 | 10.48 | 42.0 | 9.58 |
| | | 202.5 | 50.4 | 11.97 | 48.8 | 11.62 | 47.2 | 11.33 | 46.0 | 10.86 | 44.2 | 10.51 | 42.1 | 9.63 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 54.0 | 49.2 | 10.50 | 47.9 | 10.21 | 46.5 | 10.03 | 45.4 | 9.79 | 43.7 | 9.40 | 41.6 | 8.52 |
| | | 67.5 | 49.4 | 10.48 | 48.1 | 10.21 | 46.7 | 10.03 | 45.6 | 9.75 | 43.8 | 9.33 | 41.7 | 8.48 |
| | | 135.0 | 50.3 | 10.42 | 48.8 | 10.21 | 47.2 | 10.03 | 46.1 | 9.61 | 44.4 | 9.05 | 42.1 | 8.33 |
| | | 168.8 | 50.5 | 10.35 | 49.1 | 10.12 | 47.5 | 9.90 | 46.3 | 9.47 | 44.5 | 9.05 | 42.3 | 8.48 |
| | | 202.5 | 50.7 | 10.31 | 49.2 | 10.07 | 47.6 | 9.83 | 46.4 | 9.41 | 44.6 | 9.05 | 42.5 | 8.55 |
| | 20 | 54.0 | 50.1 | 9.06 | 48.8 | 8.85 | 47.2 | 8.63 | 45.9 | 8.48 | 44.3 | 8.24 | 41.9 | 7.71 |
| | | 67.5 | 50.4 | 9.08 | 48.9 | 8.85 | 47.3 | 8.63 | 46.1 | 8.48 | 44.4 | 8.20 | 42.1 | 7.69 |
| | | 135.0 | 51.5 | 9.15 | 49.6 | 8.85 | 47.9 | 8.63 | 46.8 | 8.48 | 44.9 | 8.06 | 42.7 | 7.63 |
| | | 168.8 | 51.8 | 9.15 | 50.0 | 8.85 | 48.2 | 8.63 | 46.9 | 8.33 | 45.2 | 8.06 | 42.9 | 7.63 |
| | | 202.5 | 51.9 | 9.15 | 50.2 | 8.85 | 48.3 | 8.63 | 47.0 | 8.26 | 45.3 | 8.06 | 42.9 | 7.63 |
| | 25 | 54.0 | 51.7 | 8.25 | 50.2 | 7.94 | 48.2 | 7.82 | 47.1 | 7.52 | 45.5 | 7.24 | 43.0 | 6.64 |
| | | 67.5 | 51.8 | 8.23 | 50.2 | 7.91 | 48.2 | 7.78 | 47.1 | 7.49 | 45.5 | 7.21 | 43.0 | 6.64 |
| | | 135.0 | 52.2 | 8.17 | 50.2 | 7.78 | 48.2 | 7.63 | 47.1 | 7.35 | 45.5 | 7.06 | 43.0 | 6.64 |
| | | 168.8 | 52.5 | 8.17 | 50.2 | 7.81 | 48.2 | 7.49 | 47.1 | 7.35 | 45.5 | 6.93 | 43.0 | 6.51 |
| | | 202.5 | 52.6 | 8.17 | 50.2 | 7.82 | 48.2 | 7.41 | 47.1 | 7.35 | 45.5 | 6.86 | 43.0 | 6.44 |
| | 30 | 54.0 | 52.5 | 7.52 | 50.2 | 7.24 | 48.2 | 6.97 | 47.1 | 6.82 | 45.5 | 6.40 | 43.0 | 5.97 |
| | | 67.5 | 52.5 | 7.49 | 50.2 | 7.21 | 48.2 | 6.93 | 47.1 | 6.78 | 45.5 | 6.36 | 43.0 | 5.94 |
| | | 135.0 | 52.5 | 7.35 | 50.2 | 7.06 | 48.2 | 6.78 | 47.1 | 6.64 | 45.5 | 6.21 | 43.0 | 5.79 |
| | | 168.8 | 52.5 | 7.30 | 50.2 | 6.93 | 48.2 | 6.64 | 47.1 | 6.51 | 45.5 | 6.21 | 43.0 | 5.79 |
| | | 202.5 | 52.5 | 7.27 | 50.2 | 6.86 | 48.2 | 6.56 | 47.1 | 6.44 | 45.5 | 6.21 | 43.0 | 5.79 |
| | 35 | 54.0 | 52.5 | 7.13 | 50.2 | 6.67 | 48.2 | 6.40 | 47.1 | 6.12 | 45.5 | 5.82 | 43.0 | 5.40 |
| | | 67.5 | 52.5 | 7.06 | 50.2 | 6.64 | 48.2 | 6.36 | 47.1 | 6.08 | 45.5 | 5.79 | 43.0 | 5.37 |
| | | 135.0 | 52.5 | 6.78 | 50.2 | 6.51 | 48.2 | 6.21 | 47.1 | 5.94 | 45.5 | 5.66 | 43.0 | 5.23 |
| | | 168.8 | 52.5 | 6.61 | 50.2 | 6.36 | 48.2 | 6.08 | 47.1 | 5.94 | 45.5 | 5.66 | 43.0 | 5.23 |
| | | 202.5 | 52.5 | 6.52 | 50.2 | 6.29 | 48.2 | 6.02 | 47.1 | 5.94 | 45.5 | 5.66 | 43.0 | 5.23 |
| | 40 | 54.0 | 52.5 | 6.71 | 50.2 | 6.43 | 48.2 | 6.01 | 47.1 | 5.70 | 45.5 | 5.40 | 43.0 | 4.98 |
| | | 67.5 | 52.5 | 6.64 | 50.2 | 6.36 | 48.2 | 5.94 | 47.1 | 5.66 | 45.5 | 5.37 | 43.0 | 4.94 |
| | | 135.0 | 52.5 | 6.36 | 50.2 | 6.08 | 48.2 | 5.66 | 47.1 | 5.51 | 45.5 | 5.23 | 43.0 | 4.81 |
| | | 168.8 | 52.5 | 6.27 | 50.2 | 5.94 | 48.2 | 5.66 | 47.1 | 5.37 | 45.5 | 5.09 | 43.0 | 4.66 |
| | | 202.5 | 52.5 | 6.23 | 50.2 | 5.86 | 48.2 | 5.66 | 47.1 | 5.29 | 45.5 | 5.01 | 43.0 | 4.59 |
| | 45 | 54.0 | 52.5 | 6.28 | 50.2 | 6.19 | 48.2 | 5.62 | 47.1 | 5.27 | 45.5 | 4.98 | 43.0 | 4.55 |
| | | 67.5 | 52.5 | 6.21 | 50.2 | 6.08 | 48.2 | 5.51 | 47.1 | 5.23 | 45.5 | 4.94 | 43.0 | 4.52 |
| | | 135.0 | 52.5 | 5.94 | 50.2 | 5.66 | 48.2 | 5.09 | 47.1 | 5.09 | 45.5 | 4.81 | 43.0 | 4.39 |
| | | 168.8 | 52.5 | 5.94 | 50.2 | 5.51 | 48.2 | 5.23 | 47.1 | 4.81 | 45.5 | 4.52 | 43.0 | 4.09 |
| | | 202.5 | 52.5 | 5.94 | 50.2 | 5.44 | 48.2 | 5.31 | 47.1 | 4.67 | 45.5 | 4.37 | 43.0 | 3.95 |
| 100 | -5 | 54.0 | 17.7 | 9.00 | 17.6 | 8.48 | 17.5 | 7.78 | 17.4 | 7.45 | 17.2 | 7.12 | 16.9 | 6.48 |
| | | 67.5 | 18.3 | 9.15 | 18.2 | 8.64 | 18.1 | 7.95 | 18.0 | 7.62 | 17.8 | 7.28 | 17.5 | 6.62 |
| | | 135.0 | 20.8 | 9.77 | 20.6 | 9.28 | 20.5 | 8.63 | 20.3 | 8.26 | 20.1 | 7.91 | 19.8 | 7.19 |
| | | 168.8 | 22.9 | 10.40 | 22.8 | 9.93 | 22.6 | 9.30 | 22.4 | 8.92 | 22.3 | 8.52 | 21.9 | 7.75 |
| | | 202.5 | 24.0 | 10.71 | 23.8 | 10.25 | 23.7 | 9.64 | 23.5 | 9.25 | 23.4 | 8.83 | 22.9 | 8.03 |
| | 0 | 54.0 | 31.7 | 12.31 | 31.0 | 11.94 | 30.3 | 11.40 | 29.8 | 10.92 | 29.3 | 10.45 | 28.3 | 9.49 |
| | | 67.5 | 31.9 | 12.34 | 31.2 | 11.97 | 30.5 | 11.43 | 30.0 | 10.95 | 29.5 | 10.48 | 28.4 | 9.52 |
| | | 135.0 | 32.6 | 12.46 | 31.9 | 12.09 | 31.2 | 11.56 | 30.7 | 11.08 | 30.2 | 10.60 | 29.1 | 9.64 |
| | | 168.8 | 33.1 | 12.46 | 32.4 | 12.09 | 31.7 | 11.56 | 31.1 | 11.08 | 30.6 | 10.60 | 29.5 | 9.64 |
| | | 202.5 | 33.4 | 12.46 | 32.7 | 12.09 | 32.0 | 11.56 | 31.4 | 11.08 | 30.8 | 10.60 | 29.8 | 9.64 |
| | 5 | 54.0 | 46.8 | 13.23 | 45.2 | 12.91 | 44.0 | 12.41 | 43.2 | 11.88 | 41.1 | 11.37 | 39.2 | 10.34 |
| | | 67.5 | 46.9 | 13.29 | 45.3 | 12.97 | 44.1 | 12.47 | 43.2 | 11.95 | 41.1 | 11.43 | 39.2 | 10.40 |
| | | 135.0 | 47.6 | 13.52 | 45.6 | 13.20 | 44.1 | 12.72 | 43.2 | 12.19 | 41.1 | 11.67 | 39.2 | 10.60 |
| | | 168.8 | 47.9 | 13.61 | 45.7 | 13.29 | 44.1 | 12.81 | 43.2 | 12.28 | 41.1 | 11.74 | 39.2 | 10.67 |
| | | 202.5 | 48.0 | 13.66 | 45.8 | 13.33 | 44.1 | 12.85 | 43.2 | 12.33 | 41.1 | 11.78 | 39.2 | 10.71 |
| | 10 | 54.0 | 47.0 | 11.83 | 45.4 | 11.57 | 44.1 | 11.21 | 43.2 | 10.83 | 41.1 | 10.30 | 39.2 | 9.42 |
| | | 67.5 | 47.1 | 11.89 | 45.4 | 11.61 | 44.1 | 11.24 | 43.2 | 10.85 | 41.1 | 10.31 | 39.2 | 9.43 |
| | | 135.0 | 47.6 | 12.11 | 45.7 | 11.76 | 44.1 | 11.37 | 43.2 | 10.91 | 41.1 | 10.35 | 39.2 | 9.47 |
| | | 168.8 | 47.9 | 12.06 | 45.9 | 11.76 | 44.1 | 11.35 | 43.2 | 10.88 | 41.1 | 10.32 | 39.2 | 9.43 |
| | | 202.5 | 48.1 | 12.04 | 46.0 | 11.76 | 44.1 | 11.33 | 43.2 | 10.86 | 41.1 | 10.31 | 39.2 | 9.41 |
| | 15 | 54.0 | 47.3 | 10.43 | 45.5 | 10.26 | 44.1 | 10.03 | 43.2 | 9.79 | 41.1 | 9.22 | 39.2 | 8.52 |
| | | 67.5 | 47.3 | 10.48 | 45.6 | 10.26 | 44.1 | 10.03 | 43.2 | 9.75 | 41.1 | 9.18 | 39.2 | 8.48 |
| | | 135.0 | 47.6 | 10.69 | 45.7 | 10.29 | 44.1 | 10.03 | 43.2 | 9.61 | 41.1 | 9.05 | 39.2 | 8.33 |
| | | 168.8 | 48.0 | 10.51 | 45.9 | 10.21 | 44.1 | 9.90 | 43.2 | 9.47 | 41.1 | 8.90 | 39.2 | 8.20 |
| | | 202.5 | 48.2 | 10.42 | 46.1 | 10.16 | 44.1 | 9.83 | 43.2 | 9.41 | 41.1 | 8.83 | 39.2 | 8.14 |
| | 20 | 54.0 | 47.5 | 8.92 | 45.8 | 8.69 | 44.1 | 8.48 | 43.2 | 8.37 | 41.1 | 7.82 | 39.2 | 7.43 |
| | | 67.5 | 47.7 | 8.96 | 45.8 | 8.70 | 44.1 | 8.48 | 43.2 | 8.33 | 41.1 | 7.78 | 39.2 | 7.35 |
| | | 135.0 | 48.4 | 9.12 | 45.9 | 8.73 | 44.1 | 8.48 | 43.2 | 8.20 | 41.1 | 7.63 | 39.2 | 7.06 |
| | | 168.8 | 48.7 | 8.96 | 46.4 | 8.66 | 44.1 | 8.33 | 43.2 | 8.06 | 41.1 | 7.49 | 39.2 | 6.93 |
| | | 202.5 | 48.8 | 8.88 | 46.6 | 8.62 | 44.1 | 8.26 | 43.2 | 7.98 | 41.1 | 7.41 | 39.2 | 6.86 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 54.0 | 48.1 | 7.80 | 46.5 | 7.56 | 44.1 | 7.24 | 43.2 | 6.97 | 41.1 | 6.54 | 39.2 | 5.94 |
| | | 67.5 | 48.3 | 7.81 | 46.5 | 7.52 | 44.1 | 7.21 | 43.2 | 6.93 | 41.1 | 6.51 | 39.2 | 5.94 |
| | | 135.0 | 49.0 | 7.84 | 46.5 | 7.35 | 44.1 | 7.06 | 43.2 | 6.78 | 41.1 | 6.36 | 39.2 | 5.94 |
| | | 168.8 | 49.2 | 7.66 | 46.5 | 7.30 | 44.1 | 6.93 | 43.2 | 6.64 | 41.1 | 6.36 | 39.2 | 5.79 |
| | | 202.5 | 49.4 | 7.57 | 46.5 | 7.27 | 44.1 | 6.86 | 43.2 | 6.56 | 41.1 | 6.36 | 39.2 | 5.72 |
| | 30 | 54.0 | 49.2 | 7.10 | 46.5 | 6.54 | 44.1 | 6.10 | 43.2 | 5.97 | 41.1 | 5.51 | 39.2 | 5.27 |
| | | 67.5 | 49.2 | 7.06 | 46.5 | 6.51 | 44.1 | 6.08 | 43.2 | 5.94 | 41.1 | 5.51 | 39.2 | 5.23 |
| | | 135.0 | 49.2 | 6.93 | 46.5 | 6.36 | 44.1 | 6.02 | 43.2 | 5.79 | 41.1 | 5.51 | 39.2 | 5.09 |
| | | 168.8 | 49.2 | 6.78 | 46.5 | 6.36 | 44.1 | 5.94 | 43.2 | 5.79 | 41.1 | 5.37 | 39.2 | 5.09 |
| | | 202.5 | 49.2 | 6.71 | 46.5 | 6.36 | 44.1 | 5.89 | 43.2 | 5.79 | 41.1 | 5.29 | 39.2 | 5.09 |
| | 35 | 54.0 | 49.2 | 6.58 | 46.5 | 6.01 | 44.1 | 5.38 | 43.2 | 5.27 | 41.1 | 4.98 | 39.2 | 4.55 |
| | | 67.5 | 49.2 | 6.51 | 46.5 | 5.94 | 44.1 | 5.37 | 43.2 | 5.23 | 41.1 | 4.94 | 39.2 | 4.52 |
| | | 135.0 | 49.2 | 6.21 | 46.5 | 5.66 | 44.1 | 5.31 | 43.2 | 5.09 | 41.1 | 4.81 | 39.2 | 4.39 |
| | | 168.8 | 49.2 | 6.21 | 46.5 | 5.66 | 44.1 | 5.23 | 43.2 | 5.09 | 41.1 | 4.81 | 39.2 | 4.39 |
| | | 202.5 | 49.2 | 6.21 | 46.5 | 5.66 | 44.1 | 5.20 | 43.2 | 5.09 | 41.1 | 4.81 | 39.2 | 4.39 |
| | 40 | 54.0 | 49.2 | 6.16 | 46.5 | 5.58 | 44.1 | 4.82 | 43.2 | 4.70 | 41.1 | 4.42 | 39.2 | 4.13 |
| | | 67.5 | 49.2 | 6.08 | 46.5 | 5.51 | 44.1 | 4.81 | 43.2 | 4.66 | 41.1 | 4.39 | 39.2 | 4.09 |
| | | 135.0 | 49.2 | 5.79 | 46.5 | 5.23 | 44.1 | 4.75 | 43.2 | 4.52 | 41.1 | 4.24 | 39.2 | 3.96 |
| | | 168.8 | 49.2 | 5.66 | 46.5 | 5.23 | 44.1 | 4.66 | 43.2 | 4.52 | 41.1 | 4.24 | 39.2 | 3.96 |
| | | 202.5 | 49.2 | 5.59 | 46.5 | 5.23 | 44.1 | 4.62 | 43.2 | 4.52 | 41.1 | 4.24 | 39.2 | 3.96 |
| | 45 | 54.0 | 49.2 | 5.73 | 46.5 | 5.16 | 44.1 | 4.25 | 43.2 | 4.13 | 41.1 | 3.85 | 39.2 | 3.70 |
| | | 67.5 | 49.2 | 5.66 | 46.5 | 5.09 | 44.1 | 4.24 | 43.2 | 4.09 | 41.1 | 3.82 | 39.2 | 3.67 |
| | | 135.0 | 49.2 | 5.37 | 46.5 | 4.81 | 44.1 | 4.18 | 43.2 | 3.96 | 41.1 | 3.67 | 39.2 | 3.54 |
| | | 168.8 | 49.2 | 5.09 | 46.5 | 4.81 | 44.1 | 4.09 | 43.2 | 3.96 | 41.1 | 3.67 | 39.2 | 3.54 |
| | | 202.5 | 49.2 | 4.95 | 46.5 | 4.81 | 44.1 | 4.05 | 43.2 | 3.96 | 41.1 | 3.67 | 39.2 | 3.54 |
| 90 | -5 | 54.0 | 16.7 | 8.35 | 16.2 | 7.60 | 15.7 | 6.68 | 15.6 | 6.37 | 15.5 | 6.14 | 15.2 | 5.51 |
| | | 67.5 | 17.3 | 8.49 | 16.8 | 7.75 | 16.3 | 6.83 | 16.2 | 6.51 | 16.0 | 6.27 | 15.8 | 5.63 |
| | | 135.0 | 19.6 | 9.06 | 19.0 | 8.32 | 18.4 | 7.41 | 18.3 | 7.06 | 18.2 | 6.81 | 17.8 | 6.11 |
| | | 168.8 | 21.7 | 9.64 | 21.0 | 8.90 | 20.3 | 8.00 | 20.2 | 7.62 | 20.1 | 7.34 | 19.7 | 6.59 |
| | | 202.5 | 22.7 | 9.92 | 22.0 | 9.20 | 21.3 | 8.29 | 21.1 | 7.90 | 21.0 | 7.60 | 20.6 | 6.84 |
| | 0 | 54.0 | 29.9 | 11.37 | 28.6 | 10.67 | 27.2 | 9.80 | 26.8 | 9.35 | 26.4 | 9.00 | 25.4 | 8.08 |
| | | 67.5 | 30.1 | 11.40 | 28.7 | 10.70 | 27.4 | 9.83 | 27.0 | 9.37 | 26.5 | 9.02 | 25.6 | 8.10 |
| | | 135.0 | 30.8 | 11.52 | 29.4 | 10.82 | 28.1 | 9.93 | 27.6 | 9.47 | 27.2 | 9.12 | 26.2 | 8.19 |
| | | 168.8 | 31.3 | 11.52 | 29.8 | 10.82 | 28.5 | 9.93 | 28.0 | 9.47 | 27.6 | 9.12 | 26.6 | 8.19 |
| | | 202.5 | 31.5 | 11.52 | 30.1 | 10.82 | 28.7 | 9.93 | 28.2 | 9.47 | 27.8 | 9.12 | 26.8 | 8.19 |
| | 5 | 54.0 | 42.3 | 12.21 | 40.9 | 11.52 | 39.6 | 10.67 | 38.8 | 10.17 | 37.1 | 9.79 | 35.3 | 8.79 |
| | | 67.5 | 42.3 | 12.27 | 40.9 | 11.58 | 39.6 | 10.72 | 38.8 | 10.22 | 37.1 | 9.84 | 35.3 | 8.83 |
| | | 135.0 | 42.5 | 12.49 | 40.8 | 11.80 | 39.6 | 10.92 | 38.8 | 10.42 | 37.1 | 10.04 | 35.3 | 9.01 |
| | | 168.8 | 42.7 | 12.56 | 40.9 | 11.87 | 39.6 | 11.01 | 38.8 | 10.50 | 37.1 | 10.12 | 35.3 | 9.08 |
| | | 202.5 | 42.9 | 12.60 | 41.0 | 11.91 | 39.6 | 11.05 | 38.8 | 10.53 | 37.1 | 10.15 | 35.3 | 9.12 |
| | 10 | 54.0 | 42.5 | 10.78 | 41.1 | 10.25 | 39.6 | 9.65 | 38.8 | 9.26 | 37.1 | 8.88 | 35.3 | 8.00 |
| | | 67.5 | 42.5 | 10.79 | 41.0 | 10.26 | 39.6 | 9.66 | 38.8 | 9.27 | 37.1 | 8.87 | 35.3 | 8.01 |
| | | 135.0 | 42.4 | 10.82 | 40.8 | 10.31 | 39.6 | 9.71 | 38.8 | 9.31 | 37.1 | 8.85 | 35.3 | 8.04 |
| | | 168.8 | 42.7 | 10.79 | 40.9 | 10.28 | 39.6 | 9.68 | 38.8 | 9.28 | 37.1 | 8.87 | 35.3 | 8.07 |
| | | 202.5 | 42.8 | 10.78 | 41.0 | 10.26 | 39.6 | 9.66 | 38.8 | 9.27 | 37.1 | 8.89 | 35.3 | 8.09 |
| | 15 | 54.0 | 42.7 | 9.34 | 41.2 | 9.00 | 39.6 | 8.66 | 38.8 | 8.37 | 37.1 | 7.98 | 35.3 | 7.24 |
| | | 67.5 | 42.7 | 9.30 | 41.1 | 8.96 | 39.6 | 8.63 | 38.8 | 8.33 | 37.1 | 7.91 | 35.3 | 7.21 |
| | | 135.0 | 42.4 | 9.15 | 40.9 | 8.82 | 39.6 | 8.48 | 38.8 | 8.20 | 37.1 | 7.63 | 35.3 | 7.06 |
| | | 168.8 | 42.7 | 9.02 | 41.0 | 8.68 | 39.6 | 8.33 | 38.8 | 8.06 | 37.1 | 7.63 | 35.3 | 7.06 |
| | | 202.5 | 42.8 | 8.95 | 41.0 | 8.62 | 39.6 | 8.26 | 38.8 | 7.98 | 37.1 | 7.63 | 35.3 | 7.06 |
| | 20 | 54.0 | 43.0 | 7.88 | 41.4 | 7.65 | 39.6 | 7.39 | 38.8 | 7.10 | 37.1 | 6.85 | 35.3 | 6.43 |
| | | 67.5 | 43.0 | 7.88 | 41.3 | 7.63 | 39.6 | 7.35 | 38.8 | 7.06 | 37.1 | 6.78 | 35.3 | 6.36 |
| | | 135.0 | 42.8 | 7.88 | 41.0 | 7.54 | 39.6 | 7.21 | 38.8 | 6.93 | 37.1 | 6.51 | 35.3 | 6.08 |
| | | 168.8 | 42.9 | 7.75 | 41.1 | 7.49 | 39.6 | 7.21 | 38.8 | 6.93 | 37.1 | 6.51 | 35.3 | 6.08 |
| | | 202.5 | 43.0 | 7.68 | 41.2 | 7.46 | 39.6 | 7.21 | 38.8 | 6.93 | 37.1 | 6.51 | 35.3 | 6.08 |
| | 25 | 54.0 | 43.7 | 6.89 | 41.9 | 6.52 | 39.6 | 6.25 | 38.8 | 5.94 | 37.1 | 5.70 | 35.3 | 5.27 |
| | | 67.5 | 43.8 | 6.87 | 41.9 | 6.51 | 39.6 | 6.21 | 38.8 | 5.94 | 37.1 | 5.66 | 35.3 | 5.23 |
| | | 135.0 | 44.2 | 6.81 | 41.9 | 6.45 | 39.6 | 6.08 | 38.8 | 5.94 | 37.1 | 5.51 | 35.3 | 5.09 |
| | | 168.8 | 44.4 | 6.64 | 41.9 | 6.30 | 39.6 | 6.08 | 38.8 | 5.79 | 37.1 | 5.51 | 35.3 | 5.09 |
| | | 202.5 | 44.5 | 6.55 | 41.9 | 6.23 | 39.6 | 6.08 | 38.8 | 5.72 | 37.1 | 5.51 | 35.3 | 5.09 |
| | 30 | 54.0 | 44.4 | 6.25 | 41.9 | 5.82 | 39.6 | 5.40 | 38.8 | 5.27 | 37.1 | 4.98 | 35.3 | 4.52 |
| | | 67.5 | 44.4 | 6.21 | 41.9 | 5.79 | 39.6 | 5.37 | 38.8 | 5.23 | 37.1 | 4.94 | 35.3 | 4.52 |
| | | 135.0 | 44.4 | 6.08 | 41.9 | 5.66 | 39.6 | 5.23 | 38.8 | 5.09 | 37.1 | 4.81 | 35.3 | 4.52 |
| | | 168.8 | 44.4 | 5.94 | 41.9 | 5.51 | 39.6 | 5.23 | 38.8 | 5.09 | 37.1 | 4.81 | 35.3 | 4.39 |
| | | 202.5 | 44.4 | 5.86 | 41.9 | 5.44 | 39.6 | 5.23 | 38.8 | 5.09 | 37.1 | 4.81 | 35.3 | 4.32 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 54.0 | 44.4 | 5.70 | 41.9 | 5.27 | 39.6 | 4.85 | 38.8 | 4.70 | 37.1 | 4.42 | 35.3 | 4.13 |
| | | 67.5 | 44.4 | 5.66 | 41.9 | 5.23 | 39.6 | 4.81 | 38.8 | 4.66 | 37.1 | 4.39 | 35.3 | 4.09 |
| | | 135.0 | 44.4 | 5.51 | 41.9 | 5.09 | 39.6 | 4.66 | 38.8 | 4.52 | 37.1 | 4.24 | 35.3 | 3.96 |
| | | 168.8 | 44.4 | 5.37 | 41.9 | 4.94 | 39.6 | 4.52 | 38.8 | 4.39 | 37.1 | 4.24 | 35.3 | 3.96 |
| | | 202.5 | 44.4 | 5.29 | 41.9 | 4.87 | 39.6 | 4.44 | 38.8 | 4.32 | 37.1 | 4.24 | 35.3 | 3.96 |
| | 40 | 54.0 | 44.4 | 5.31 | 41.9 | 4.85 | 39.6 | 4.28 | 38.8 | 4.13 | 37.1 | 4.00 | 35.3 | 3.70 |
| | | 67.5 | 44.4 | 5.23 | 41.9 | 4.81 | 39.6 | 4.24 | 38.8 | 4.09 | 37.1 | 3.96 | 35.3 | 3.67 |
| | | 135.0 | 44.4 | 4.94 | 41.9 | 4.66 | 39.6 | 4.09 | 38.8 | 3.96 | 37.1 | 3.82 | 35.3 | 3.54 |
| | | 168.8 | 44.4 | 4.94 | 41.9 | 4.66 | 39.6 | 4.09 | 38.8 | 3.96 | 37.1 | 3.82 | 35.3 | 3.54 |
| | | 202.5 | 44.4 | 4.94 | 41.9 | 4.66 | 39.6 | 4.09 | 38.8 | 3.96 | 37.1 | 3.82 | 35.3 | 3.54 |
| | 45 | 54.0 | 44.4 | 4.92 | 41.9 | 4.42 | 39.6 | 3.70 | 38.8 | 3.58 | 37.1 | 3.58 | 35.3 | 3.28 |
| | | 67.5 | 44.4 | 4.81 | 41.9 | 4.39 | 39.6 | 3.67 | 38.8 | 3.54 | 37.1 | 3.54 | 35.3 | 3.25 |
| | | 135.0 | 44.4 | 4.39 | 41.9 | 4.24 | 39.6 | 3.54 | 38.8 | 3.39 | 37.1 | 3.39 | 35.3 | 3.11 |
| | | 168.8 | 44.4 | 4.52 | 41.9 | 4.39 | 39.6 | 3.67 | 38.8 | 3.54 | 37.1 | 3.39 | 35.3 | 3.11 |
| | | 202.5 | 44.4 | 4.58 | 41.9 | 4.46 | 39.6 | 3.74 | 38.8 | 3.61 | 37.1 | 3.39 | 35.3 | 3.11 |
| 80 | -5 | 54.0 | 15.8 | 5.95 | 14.8 | 5.72 | 14.0 | 5.48 | 13.9 | 5.30 | 13.8 | 5.05 | 13.5 | 4.65 |
| | | 67.5 | 16.4 | 6.08 | 15.3 | 5.85 | 14.5 | 5.60 | 14.4 | 5.41 | 14.3 | 5.16 | 14.0 | 4.75 |
| | | 135.0 | 18.5 | 6.61 | 17.4 | 6.35 | 16.4 | 6.07 | 16.2 | 5.86 | 16.2 | 5.60 | 15.8 | 5.15 |
| | | 168.8 | 20.5 | 7.12 | 19.2 | 6.84 | 18.1 | 6.55 | 17.9 | 6.33 | 17.8 | 6.04 | 17.5 | 5.56 |
| | | 202.5 | 21.5 | 7.38 | 20.1 | 7.09 | 19.0 | 6.79 | 18.8 | 6.57 | 18.7 | 6.26 | 18.3 | 5.76 |
| | 0 | 54.0 | 28.3 | 8.73 | 26.1 | 8.38 | 24.3 | 8.03 | 23.8 | 7.76 | 23.5 | 7.39 | 22.6 | 6.81 |
| | | 67.5 | 28.4 | 8.76 | 26.2 | 8.41 | 24.4 | 8.06 | 24.0 | 7.78 | 23.6 | 7.41 | 22.7 | 6.83 |
| | | 135.0 | 29.1 | 8.86 | 26.8 | 8.51 | 25.0 | 8.14 | 24.5 | 7.87 | 24.2 | 7.50 | 23.3 | 6.90 |
| | | 168.8 | 29.5 | 8.86 | 27.2 | 8.51 | 25.4 | 8.14 | 24.9 | 7.87 | 24.6 | 7.50 | 23.6 | 6.90 |
| | | 202.5 | 29.7 | 8.86 | 27.4 | 8.51 | 25.6 | 8.14 | 25.1 | 7.87 | 24.8 | 7.50 | 23.8 | 6.90 |
| | 5 | 54.0 | 39.1 | 9.50 | 36.9 | 9.14 | 35.3 | 8.72 | 34.5 | 8.44 | 33.0 | 8.04 | 31.4 | 7.40 |
| | | 67.5 | 39.2 | 9.55 | 37.0 | 9.18 | 35.3 | 8.77 | 34.5 | 8.48 | 33.0 | 8.09 | 31.4 | 7.44 |
| | | 135.0 | 39.5 | 9.75 | 37.2 | 9.36 | 35.3 | 8.96 | 34.5 | 8.66 | 33.0 | 8.25 | 31.4 | 7.60 |
| | | 168.8 | 39.5 | 9.81 | 37.2 | 9.43 | 35.3 | 9.02 | 34.5 | 8.71 | 33.0 | 8.30 | 31.4 | 7.65 |
| | | 202.5 | 39.5 | 9.84 | 37.2 | 9.47 | 35.3 | 9.05 | 34.5 | 8.74 | 33.0 | 8.33 | 31.4 | 7.67 |
| | 10 | 54.0 | 39.3 | 8.74 | 37.0 | 8.34 | 35.3 | 7.92 | 34.5 | 7.70 | 33.0 | 7.29 | 31.4 | 6.75 |
| | | 67.5 | 39.3 | 8.73 | 37.1 | 8.33 | 35.3 | 7.92 | 34.5 | 7.71 | 33.0 | 7.30 | 31.4 | 6.75 |
| | | 135.0 | 39.5 | 8.68 | 37.2 | 8.29 | 35.3 | 7.94 | 34.5 | 7.72 | 33.0 | 7.31 | 31.4 | 6.77 |
| | | 168.8 | 39.5 | 8.66 | 37.2 | 8.32 | 35.3 | 7.97 | 34.5 | 7.68 | 33.0 | 7.27 | 31.4 | 6.73 |
| | | 202.5 | 39.5 | 8.64 | 37.2 | 8.33 | 35.3 | 7.98 | 34.5 | 7.65 | 33.0 | 7.24 | 31.4 | 6.70 |
| | 15 | 54.0 | 39.5 | 7.98 | 37.2 | 7.56 | 35.3 | 7.10 | 34.5 | 6.97 | 33.0 | 6.54 | 31.4 | 6.12 |
| | | 67.5 | 39.5 | 7.91 | 37.2 | 7.49 | 35.3 | 7.06 | 34.5 | 6.93 | 33.0 | 6.51 | 31.4 | 6.08 |
| | | 135.0 | 39.5 | 7.63 | 37.2 | 7.21 | 35.3 | 6.93 | 34.5 | 6.78 | 33.0 | 6.36 | 31.4 | 5.94 |
| | | 168.8 | 39.5 | 7.49 | 37.2 | 7.21 | 35.3 | 6.93 | 34.5 | 6.64 | 33.0 | 6.21 | 31.4 | 5.79 |
| | | 202.5 | 39.5 | 7.41 | 37.2 | 7.21 | 35.3 | 6.93 | 34.5 | 6.56 | 33.0 | 6.14 | 31.4 | 5.72 |
| | 20 | 54.0 | 39.5 | 6.67 | 37.2 | 6.40 | 35.3 | 6.08 | 34.5 | 5.97 | 33.0 | 5.70 | 31.4 | 5.27 |
| | | 67.5 | 39.5 | 6.64 | 37.2 | 6.36 | 35.3 | 6.08 | 34.5 | 5.94 | 33.0 | 5.66 | 31.4 | 5.23 |
| | | 135.0 | 39.5 | 6.51 | 37.2 | 6.21 | 35.3 | 6.08 | 34.5 | 5.79 | 33.0 | 5.51 | 31.4 | 5.09 |
| | | 168.8 | 39.5 | 6.36 | 37.2 | 6.08 | 35.3 | 5.94 | 34.5 | 5.79 | 33.0 | 5.37 | 31.4 | 5.09 |
| | | 202.5 | 39.5 | 6.29 | 37.2 | 6.02 | 35.3 | 5.86 | 34.5 | 5.79 | 33.0 | 5.29 | 31.4 | 5.09 |
| | 25 | 54.0 | 39.5 | 5.97 | 37.2 | 5.55 | 35.3 | 5.23 | 34.5 | 5.12 | 33.0 | 4.85 | 31.4 | 4.55 |
| | | 67.5 | 39.5 | 5.94 | 37.2 | 5.51 | 35.3 | 5.23 | 34.5 | 5.09 | 33.0 | 4.81 | 31.4 | 4.52 |
| | | 135.0 | 39.5 | 5.79 | 37.2 | 5.37 | 35.3 | 5.23 | 34.5 | 4.94 | 33.0 | 4.66 | 31.4 | 4.39 |
| | | 168.8 | 39.5 | 5.66 | 37.2 | 5.37 | 35.3 | 5.09 | 34.5 | 4.94 | 33.0 | 4.66 | 31.4 | 4.39 |
| | | 202.5 | 39.5 | 5.59 | 37.2 | 5.37 | 35.3 | 5.01 | 34.5 | 4.94 | 33.0 | 4.66 | 31.4 | 4.39 |
| | 30 | 54.0 | 39.5 | 5.27 | 37.2 | 4.98 | 35.3 | 4.70 | 34.5 | 4.55 | 33.0 | 4.28 | 31.4 | 4.00 |
| | | 67.5 | 39.5 | 5.23 | 37.2 | 4.94 | 35.3 | 4.66 | 34.5 | 4.52 | 33.0 | 4.24 | 31.4 | 3.96 |
| | | 135.0 | 39.5 | 5.09 | 37.2 | 4.81 | 35.3 | 4.52 | 34.5 | 4.39 | 33.0 | 4.09 | 31.4 | 3.82 |
| | | 168.8 | 39.5 | 5.09 | 37.2 | 4.81 | 35.3 | 4.52 | 34.5 | 4.39 | 33.0 | 4.09 | 31.4 | 3.82 |
| | | 202.5 | 39.5 | 5.09 | 37.2 | 4.81 | 35.3 | 4.52 | 34.5 | 4.39 | 33.0 | 4.09 | 31.4 | 3.82 |
| | 35 | 54.0 | 39.5 | 4.85 | 37.2 | 4.55 | 35.3 | 4.13 | 34.5 | 3.96 | 33.0 | 3.85 | 31.4 | 3.54 |
| | | 67.5 | 39.5 | 4.81 | 37.2 | 4.52 | 35.3 | 4.09 | 34.5 | 3.96 | 33.0 | 3.82 | 31.4 | 3.54 |
| | | 135.0 | 39.5 | 4.66 | 37.2 | 4.39 | 35.3 | 3.96 | 34.5 | 3.96 | 33.0 | 3.67 | 31.4 | 3.54 |
| | | 168.8 | 39.5 | 4.66 | 37.2 | 4.24 | 35.3 | 3.96 | 34.5 | 3.82 | 33.0 | 3.67 | 31.4 | 3.39 |
| | | 202.5 | 39.5 | 4.66 | 37.2 | 4.17 | 35.3 | 3.96 | 34.5 | 3.74 | 33.0 | 3.67 | 31.4 | 3.32 |
| | 40 | 54.0 | 39.5 | 4.59 | 37.2 | 4.13 | 35.3 | 3.67 | 34.5 | 3.70 | 33.0 | 3.39 | 31.4 | 3.28 |
| | | 67.5 | 39.5 | 4.52 | 37.2 | 4.09 | 35.3 | 3.67 | 34.5 | 3.67 | 33.0 | 3.39 | 31.4 | 3.25 |
| | | 135.0 | 39.5 | 4.24 | 37.2 | 3.96 | 35.3 | 3.67 | 34.5 | 3.54 | 33.0 | 3.39 | 31.4 | 3.11 |
| | | 168.8 | 39.5 | 4.24 | 37.2 | 3.96 | 35.3 | 3.54 | 34.5 | 3.54 | 33.0 | 3.39 | 31.4 | 3.11 |
| | | 202.5 | 39.5 | 4.24 | 37.2 | 3.96 | 35.3 | 3.47 | 34.5 | 3.54 | 33.0 | 3.39 | 31.4 | 3.11 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 54.0 | 39.5 | 4.35 | 37.2 | 3.70 | 35.3 | 3.21 | 34.5 | 3.46 | 33.0 | 2.93 | 31.4 | 3.04 |
| | | 67.5 | 39.5 | 4.24 | 37.2 | 3.67 | 35.3 | 3.25 | 34.5 | 3.39 | 33.0 | 2.97 | 31.4 | 2.97 |
| | | 135.0 | 39.5 | 3.82 | 37.2 | 3.54 | 35.3 | 3.39 | 34.5 | 3.11 | 33.0 | 3.11 | 31.4 | 2.69 |
| | | 168.8 | 39.5 | 3.82 | 37.2 | 3.67 | 35.3 | 3.11 | 34.5 | 3.25 | 33.0 | 3.11 | 31.4 | 2.82 |
| | | 202.5 | 39.5 | 3.82 | 37.2 | 3.74 | 35.3 | 2.97 | 34.5 | 3.31 | 33.0 | 3.11 | 31.4 | 2.89 |
| 70 | -5 | 54.0 | 13.8 | 5.11 | 13.0 | 4.86 | 12.3 | 4.71 | 12.1 | 4.44 | 12.1 | 4.28 | 11.9 | 3.89 |
| | | 67.5 | 14.3 | 5.22 | 13.4 | 4.97 | 12.7 | 4.81 | 12.6 | 4.53 | 12.5 | 4.37 | 12.3 | 3.98 |
| | | 135.0 | 16.2 | 5.66 | 15.2 | 5.40 | 14.3 | 5.22 | 14.2 | 4.91 | 14.1 | 4.74 | 13.9 | 4.31 |
| | | 168.8 | 17.9 | 6.11 | 16.8 | 5.82 | 15.8 | 5.63 | 15.7 | 5.29 | 15.6 | 5.12 | 15.3 | 4.65 |
| | | 202.5 | 18.8 | 6.34 | 17.6 | 6.03 | 16.6 | 5.84 | 16.5 | 5.48 | 16.3 | 5.31 | 16.0 | 4.82 |
| | 0 | 54.0 | 24.7 | 7.48 | 22.8 | 7.13 | 21.2 | 6.89 | 20.8 | 6.49 | 20.5 | 6.27 | 19.8 | 5.70 |
| | | 67.5 | 24.9 | 7.50 | 23.0 | 7.15 | 21.3 | 6.92 | 21.0 | 6.51 | 20.6 | 6.29 | 19.9 | 5.72 |
| | | 135.0 | 25.4 | 7.59 | 23.5 | 7.22 | 21.8 | 7.00 | 21.5 | 6.58 | 21.1 | 6.36 | 20.3 | 5.78 |
| | | 168.8 | 25.8 | 7.59 | 23.9 | 7.22 | 22.2 | 7.00 | 21.8 | 6.58 | 21.5 | 6.36 | 20.7 | 5.78 |
| | | 202.5 | 26.0 | 7.59 | 24.1 | 7.22 | 22.3 | 7.00 | 21.9 | 6.58 | 21.6 | 6.36 | 20.8 | 5.78 |
| | 5 | 54.0 | 34.1 | 8.15 | 32.3 | 7.75 | 30.8 | 7.50 | 30.2 | 7.07 | 28.8 | 6.82 | 27.4 | 6.20 |
| | | 67.5 | 34.2 | 8.19 | 32.4 | 7.79 | 30.8 | 7.54 | 30.2 | 7.11 | 28.8 | 6.86 | 27.4 | 6.23 |
| | | 135.0 | 34.5 | 8.35 | 32.7 | 7.95 | 30.8 | 7.71 | 30.2 | 7.24 | 28.8 | 7.00 | 27.4 | 6.36 |
| | | 168.8 | 34.5 | 8.41 | 32.6 | 8.01 | 30.8 | 7.76 | 30.2 | 7.30 | 28.8 | 7.05 | 27.4 | 6.40 |
| | | 202.5 | 34.5 | 8.44 | 32.6 | 8.04 | 30.8 | 7.79 | 30.2 | 7.33 | 28.8 | 7.07 | 27.4 | 6.43 |
| | 10 | 54.0 | 34.3 | 7.50 | 32.5 | 7.09 | 30.8 | 6.83 | 30.2 | 6.45 | 28.8 | 6.18 | 27.4 | 5.66 |
| | | 67.5 | 34.3 | 7.49 | 32.5 | 7.08 | 30.8 | 6.81 | 30.2 | 6.45 | 28.8 | 6.18 | 27.4 | 5.66 |
| | | 135.0 | 34.5 | 7.43 | 32.6 | 7.02 | 30.8 | 6.75 | 30.2 | 6.45 | 28.8 | 6.18 | 27.4 | 5.66 |
| | | 168.8 | 34.5 | 7.46 | 32.6 | 7.05 | 30.8 | 6.78 | 30.2 | 6.48 | 28.8 | 6.14 | 27.4 | 5.67 |
| | | 202.5 | 34.5 | 7.47 | 32.6 | 7.06 | 30.8 | 6.80 | 30.2 | 6.49 | 28.8 | 6.12 | 27.4 | 5.68 |
| | 15 | 54.0 | 34.5 | 6.85 | 32.6 | 6.43 | 30.8 | 6.16 | 30.2 | 5.82 | 28.8 | 5.55 | 27.4 | 5.12 |
| | | 67.5 | 34.5 | 6.78 | 32.6 | 6.36 | 30.8 | 6.08 | 30.2 | 5.79 | 28.8 | 5.51 | 27.4 | 5.09 |
| | | 135.0 | 34.5 | 6.51 | 32.6 | 6.08 | 30.8 | 5.79 | 30.2 | 5.66 | 28.8 | 5.37 | 27.4 | 4.94 |
| | | 168.8 | 34.5 | 6.51 | 32.6 | 6.08 | 30.8 | 5.79 | 30.2 | 5.66 | 28.8 | 5.23 | 27.4 | 4.94 |
| | | 202.5 | 34.5 | 6.51 | 32.6 | 6.08 | 30.8 | 5.79 | 30.2 | 5.66 | 28.8 | 5.17 | 27.4 | 4.94 |
| | 20 | 54.0 | 34.5 | 5.70 | 32.6 | 5.40 | 30.8 | 5.27 | 30.2 | 5.12 | 28.8 | 4.85 | 27.4 | 4.55 |
| | | 67.5 | 34.5 | 5.66 | 32.6 | 5.37 | 30.8 | 5.23 | 30.2 | 5.09 | 28.8 | 4.81 | 27.4 | 4.52 |
| | | 135.0 | 34.5 | 5.51 | 32.6 | 5.23 | 30.8 | 5.09 | 30.2 | 4.94 | 28.8 | 4.66 | 27.4 | 4.39 |
| | | 168.8 | 34.5 | 5.51 | 32.6 | 5.23 | 30.8 | 5.09 | 30.2 | 4.81 | 28.8 | 4.66 | 27.4 | 4.24 |
| | | 202.5 | 34.5 | 5.51 | 32.6 | 5.23 | 30.8 | 5.09 | 30.2 | 4.74 | 28.8 | 4.66 | 27.4 | 4.17 |
| | 25 | 54.0 | 34.5 | 5.12 | 32.6 | 4.85 | 30.8 | 4.55 | 30.2 | 4.42 | 28.8 | 4.09 | 27.4 | 3.82 |
| | | 67.5 | 34.5 | 5.09 | 32.6 | 4.81 | 30.8 | 4.52 | 30.2 | 4.39 | 28.8 | 4.09 | 27.4 | 3.82 |
| | | 135.0 | 34.5 | 4.94 | 32.6 | 4.66 | 30.8 | 4.39 | 30.2 | 4.24 | 28.8 | 4.09 | 27.4 | 3.82 |
| | | 168.8 | 34.5 | 4.81 | 32.6 | 4.52 | 30.8 | 4.39 | 30.2 | 4.24 | 28.8 | 3.96 | 27.4 | 3.82 |
| | | 202.5 | 34.5 | 4.74 | 32.6 | 4.44 | 30.8 | 4.39 | 30.2 | 4.24 | 28.8 | 3.90 | 27.4 | 3.82 |
| | 30 | 54.0 | 34.5 | 4.55 | 32.6 | 4.28 | 30.8 | 4.00 | 30.2 | 3.82 | 28.8 | 3.70 | 27.4 | 3.39 |
| | | 67.5 | 34.5 | 4.52 | 32.6 | 4.24 | 30.8 | 3.96 | 30.2 | 3.82 | 28.8 | 3.67 | 27.4 | 3.39 |
| | | 135.0 | 34.5 | 4.39 | 32.6 | 4.09 | 30.8 | 3.82 | 30.2 | 3.82 | 28.8 | 3.54 | 27.4 | 3.39 |
| | | 168.8 | 34.5 | 4.39 | 32.6 | 4.09 | 30.8 | 3.82 | 30.2 | 3.67 | 28.8 | 3.54 | 27.4 | 3.39 |
| | | 202.5 | 34.5 | 4.39 | 32.6 | 4.09 | 30.8 | 3.82 | 30.2 | 3.60 | 28.8 | 3.54 | 27.4 | 3.39 |
| | 35 | 54.0 | 34.5 | 4.13 | 32.6 | 3.85 | 30.8 | 3.54 | 30.2 | 3.58 | 28.8 | 3.25 | 27.4 | 3.15 |
| | | 67.5 | 34.5 | 4.09 | 32.6 | 3.82 | 30.8 | 3.54 | 30.2 | 3.54 | 28.8 | 3.25 | 27.4 | 3.11 |
| | | 135.0 | 34.5 | 3.96 | 32.6 | 3.67 | 30.8 | 3.54 | 30.2 | 3.39 | 28.8 | 3.25 | 27.4 | 2.97 |
| | | 168.8 | 34.5 | 3.96 | 32.6 | 3.67 | 30.8 | 3.39 | 30.2 | 3.39 | 28.8 | 3.25 | 27.4 | 2.97 |
| | | 202.5 | 34.5 | 3.96 | 32.6 | 3.67 | 30.8 | 3.32 | 30.2 | 3.39 | 28.8 | 3.25 | 27.4 | 2.97 |
| | 40 | 54.0 | 34.5 | 3.85 | 32.6 | 3.58 | 30.8 | 3.28 | 30.2 | 3.11 | 28.8 | 2.97 | 27.4 | 2.86 |
| | | 67.5 | 34.5 | 3.82 | 32.6 | 3.54 | 30.8 | 3.25 | 30.2 | 3.11 | 28.8 | 2.97 | 27.4 | 2.82 |
| | | 135.0 | 34.5 | 3.67 | 32.6 | 3.39 | 30.8 | 3.11 | 30.2 | 3.11 | 28.8 | 2.97 | 27.4 | 2.69 |
| | | 168.8 | 34.5 | 3.67 | 32.6 | 3.39 | 30.8 | 3.11 | 30.2 | 2.97 | 28.8 | 2.82 | 27.4 | 2.69 |
| | | 202.5 | 34.5 | 3.67 | 32.6 | 3.39 | 30.8 | 3.11 | 30.2 | 2.89 | 28.8 | 2.75 | 27.4 | 2.69 |
| | 45 | 54.0 | 34.5 | 3.58 | 32.6 | 3.28 | 30.8 | 3.04 | 30.2 | 2.66 | 28.8 | 2.69 | 27.4 | 2.58 |
| | | 67.5 | 34.5 | 3.54 | 32.6 | 3.25 | 30.8 | 2.97 | 30.2 | 2.69 | 28.8 | 2.69 | 27.4 | 2.54 |
| | | 135.0 | 34.5 | 3.39 | 32.6 | 3.11 | 30.8 | 2.69 | 30.2 | 2.82 | 28.8 | 2.69 | 27.4 | 2.40 |
| | | 168.8 | 34.5 | 3.39 | 32.6 | 3.11 | 30.8 | 2.82 | 30.2 | 2.54 | 28.8 | 2.40 | 27.4 | 2.40 |
| | | 202.5 | 34.5 | 3.39 | 32.6 | 3.11 | 30.8 | 2.89 | 30.2 | 2.40 | 28.8 | 2.25 | 27.4 | 2.40 |
| 60 | -5 | 54.0 | 11.9 | 4.15 | 11.1 | 3.99 | 10.5 | 3.83 | 10.4 | 3.56 | 10.3 | 3.50 | 10.1 | 3.13 |
| | | 67.5 | 12.3 | 4.24 | 11.5 | 4.08 | 10.9 | 3.92 | 10.7 | 3.64 | 10.7 | 3.58 | 10.5 | 3.20 |
| | | 135.0 | 13.9 | 4.61 | 13.0 | 4.43 | 12.3 | 4.25 | 12.2 | 3.95 | 12.1 | 3.89 | 11.9 | 3.48 |
| | | 168.8 | 15.3 | 4.96 | 14.4 | 4.78 | 13.6 | 4.59 | 13.5 | 4.27 | 13.4 | 4.20 | 13.1 | 3.74 |
| | | 202.5 | 16.1 | 5.13 | 15.0 | 4.96 | 14.3 | 4.76 | 14.1 | 4.43 | 14.1 | 4.35 | 13.7 | 3.88 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 54.0 | 21.2 | 6.08 | 19.5 | 5.86 | 18.2 | 5.61 | 17.9 | 5.22 | 17.6 | 5.15 | 17.0 | 4.59 |
| | | 67.5 | 21.3 | 6.10 | 19.7 | 5.88 | 18.3 | 5.63 | 18.0 | 5.23 | 17.7 | 5.16 | 17.1 | 4.61 |
| | | 135.0 | 21.8 | 6.17 | 20.1 | 5.94 | 18.8 | 5.70 | 18.4 | 5.29 | 18.1 | 5.22 | 17.4 | 4.65 |
| | | 168.8 | 22.2 | 6.17 | 20.4 | 5.94 | 19.1 | 5.70 | 18.7 | 5.29 | 18.4 | 5.22 | 17.7 | 4.65 |
| | | 202.5 | 22.3 | 6.17 | 20.6 | 5.94 | 19.2 | 5.70 | 18.8 | 5.29 | 18.6 | 5.22 | 17.9 | 4.65 |
| | 5 | 54.0 | 29.3 | 6.62 | 27.6 | 6.37 | 26.5 | 6.11 | 25.8 | 5.69 | 24.7 | 5.60 | 23.5 | 4.99 |
| | | 67.5 | 29.4 | 6.65 | 27.7 | 6.40 | 26.5 | 6.14 | 25.8 | 5.72 | 24.7 | 5.63 | 23.5 | 5.01 |
| | | 135.0 | 29.6 | 6.78 | 27.9 | 6.54 | 26.5 | 6.27 | 25.8 | 5.83 | 24.7 | 5.75 | 23.5 | 5.12 |
| | | 168.8 | 29.6 | 6.84 | 27.9 | 6.58 | 26.5 | 6.32 | 25.8 | 5.88 | 24.7 | 5.78 | 23.5 | 5.16 |
| | | 202.5 | 29.6 | 6.87 | 27.8 | 6.60 | 26.5 | 6.34 | 25.8 | 5.90 | 24.7 | 5.79 | 23.5 | 5.18 |
| | 10 | 54.0 | 29.5 | 6.08 | 27.7 | 5.82 | 26.5 | 5.54 | 25.8 | 5.18 | 24.7 | 5.08 | 23.5 | 4.55 |
| | | 67.5 | 29.5 | 6.08 | 27.8 | 5.82 | 26.5 | 5.54 | 25.8 | 5.19 | 24.7 | 5.07 | 23.5 | 4.56 |
| | | 135.0 | 29.6 | 6.08 | 27.9 | 5.82 | 26.5 | 5.54 | 25.8 | 5.25 | 24.7 | 5.06 | 23.5 | 4.61 |
| | | 168.8 | 29.6 | 6.10 | 27.9 | 5.76 | 26.5 | 5.48 | 25.8 | 5.19 | 24.7 | 5.01 | 23.5 | 4.56 |
| | | 202.5 | 29.6 | 6.10 | 27.8 | 5.73 | 26.5 | 5.45 | 25.8 | 5.16 | 24.7 | 4.99 | 23.5 | 4.54 |
| | 15 | 54.0 | 29.6 | 5.55 | 27.9 | 5.27 | 26.5 | 4.98 | 25.8 | 4.66 | 24.7 | 4.55 | 23.5 | 4.09 |
| | | 67.5 | 29.6 | 5.51 | 27.9 | 5.23 | 26.5 | 4.94 | 25.8 | 4.66 | 24.7 | 4.52 | 23.5 | 4.09 |
| | | 135.0 | 29.6 | 5.37 | 27.9 | 5.09 | 26.5 | 4.81 | 25.8 | 4.66 | 24.7 | 4.39 | 23.5 | 4.09 |
| | | 168.8 | 29.6 | 5.37 | 27.9 | 4.94 | 26.5 | 4.66 | 25.8 | 4.52 | 24.7 | 4.24 | 23.5 | 3.96 |
| | | 202.5 | 29.6 | 5.37 | 27.9 | 4.87 | 26.5 | 4.59 | 25.8 | 4.44 | 24.7 | 4.17 | 23.5 | 3.90 |
| | 20 | 54.0 | 29.6 | 4.85 | 27.9 | 4.55 | 26.5 | 4.28 | 25.8 | 4.13 | 24.7 | 4.00 | 23.5 | 3.70 |
| | | 67.5 | 29.6 | 4.81 | 27.9 | 4.52 | 26.5 | 4.24 | 25.8 | 4.09 | 24.7 | 3.96 | 23.5 | 3.67 |
| | | 135.0 | 29.6 | 4.66 | 27.9 | 4.39 | 26.5 | 4.09 | 25.8 | 3.96 | 24.7 | 3.82 | 23.5 | 3.54 |
| | | 168.8 | 29.6 | 4.66 | 27.9 | 4.39 | 26.5 | 4.09 | 25.8 | 3.96 | 24.7 | 3.82 | 23.5 | 3.54 |
| | | 202.5 | 29.6 | 4.66 | 27.9 | 4.39 | 26.5 | 4.09 | 25.8 | 3.96 | 24.7 | 3.82 | 23.5 | 3.54 |
| | 25 | 54.0 | 29.6 | 4.28 | 27.9 | 4.00 | 26.5 | 3.67 | 25.8 | 3.70 | 24.7 | 3.39 | 23.5 | 3.28 |
| | | 67.5 | 29.6 | 4.24 | 27.9 | 3.96 | 26.5 | 3.67 | 25.8 | 3.67 | 24.7 | 3.39 | 23.5 | 3.25 |
| | | 135.0 | 29.6 | 4.09 | 27.9 | 3.82 | 26.5 | 3.67 | 25.8 | 3.54 | 24.7 | 3.39 | 23.5 | 3.11 |
| | | 168.8 | 29.6 | 4.09 | 27.9 | 3.82 | 26.5 | 3.54 | 25.8 | 3.54 | 24.7 | 3.39 | 23.5 | 3.11 |
| | | 202.5 | 29.6 | 4.09 | 27.9 | 3.82 | 26.5 | 3.47 | 25.8 | 3.54 | 24.7 | 3.39 | 23.5 | 3.11 |
| | 30 | 54.0 | 29.6 | 3.85 | 27.9 | 3.58 | 26.5 | 3.43 | 25.8 | 3.28 | 24.7 | 3.15 | 23.5 | 3.00 |
| | | 67.5 | 29.6 | 3.82 | 27.9 | 3.54 | 26.5 | 3.39 | 25.8 | 3.25 | 24.7 | 3.11 | 23.5 | 2.97 |
| | | 135.0 | 29.6 | 3.67 | 27.9 | 3.39 | 26.5 | 3.25 | 25.8 | 3.11 | 24.7 | 2.97 | 23.5 | 2.82 |
| | | 168.8 | 29.6 | 3.67 | 27.9 | 3.39 | 26.5 | 3.25 | 25.8 | 3.11 | 24.7 | 2.97 | 23.5 | 2.82 |
| | | 202.5 | 29.6 | 3.67 | 27.9 | 3.39 | 26.5 | 3.25 | 25.8 | 3.11 | 24.7 | 2.97 | 23.5 | 2.82 |
| | 35 | 54.0 | 29.6 | 3.39 | 27.9 | 3.28 | 26.5 | 2.97 | 25.8 | 3.00 | 24.7 | 2.86 | 23.5 | 2.73 |
| | | 67.5 | 29.6 | 3.39 | 27.9 | 3.25 | 26.5 | 2.97 | 25.8 | 2.97 | 24.7 | 2.82 | 23.5 | 2.69 |
| | | 135.0 | 29.6 | 3.39 | 27.9 | 3.11 | 26.5 | 2.97 | 25.8 | 2.82 | 24.7 | 2.69 | 23.5 | 2.54 |
| | | 168.8 | 29.6 | 3.39 | 27.9 | 3.11 | 26.5 | 2.82 | 25.8 | 2.82 | 24.7 | 2.69 | 23.5 | 2.54 |
| | | 202.5 | 29.6 | 3.39 | 27.9 | 3.11 | 26.5 | 2.75 | 25.8 | 2.82 | 24.7 | 2.69 | 23.5 | 2.54 |
| | 40 | 54.0 | 29.6 | 3.11 | 27.9 | 3.00 | 26.5 | 2.69 | 25.8 | 2.73 | 24.7 | 2.58 | 23.5 | 2.40 |
| | | 67.5 | 29.6 | 3.11 | 27.9 | 2.97 | 26.5 | 2.69 | 25.8 | 2.69 | 24.7 | 2.54 | 23.5 | 2.40 |
| | | 135.0 | 29.6 | 3.11 | 27.9 | 2.82 | 26.5 | 2.69 | 25.8 | 2.54 | 24.7 | 2.40 | 23.5 | 2.40 |
| | | 168.8 | 29.6 | 3.11 | 27.9 | 2.82 | 26.5 | 2.69 | 25.8 | 2.54 | 24.7 | 2.40 | 23.5 | 2.40 |
| | | 202.5 | 29.6 | 3.11 | 27.9 | 2.82 | 26.5 | 2.69 | 25.8 | 2.54 | 24.7 | 2.40 | 23.5 | 2.40 |
| | 45 | 54.0 | 29.6 | 2.82 | 27.9 | 2.73 | 26.5 | 2.40 | 25.8 | 2.43 | 24.7 | 2.30 | 23.5 | 2.08 |
| | | 67.5 | 29.6 | 2.82 | 27.9 | 2.69 | 26.5 | 2.40 | 25.8 | 2.40 | 24.7 | 2.27 | 23.5 | 2.12 |
| | | 135.0 | 29.6 | 2.82 | 27.9 | 2.54 | 26.5 | 2.40 | 25.8 | 2.27 | 24.7 | 2.12 | 23.5 | 2.27 |
| | | 168.8 | 29.6 | 2.82 | 27.9 | 2.54 | 26.5 | 2.54 | 25.8 | 2.27 | 24.7 | 2.12 | 23.5 | 2.27 |
| | | 202.5 | 29.6 | 2.82 | 27.9 | 2.54 | 26.5 | 2.62 | 25.8 | 2.27 | 24.7 | 2.12 | 23.5 | 2.27 |
| 50 | -5 | 54.0 | 9.9 | 3.31 | 9.3 | 3.13 | 8.8 | 2.96 | 8.6 | 2.80 | 8.6 | 2.63 | 8.4 | 2.49 |
| | | 67.5 | 10.2 | 3.38 | 9.6 | 3.20 | 9.1 | 3.03 | 8.9 | 2.87 | 8.9 | 2.69 | 8.7 | 2.54 |
| | | 135.0 | 11.5 | 3.66 | 10.8 | 3.48 | 10.3 | 3.28 | 10.1 | 3.11 | 10.1 | 2.92 | 9.9 | 2.75 |
| | | 168.8 | 12.8 | 3.95 | 12.0 | 3.74 | 11.3 | 3.54 | 11.2 | 3.36 | 11.1 | 3.14 | 11.0 | 2.97 |
| | | 202.5 | 13.4 | 4.09 | 12.6 | 3.88 | 11.9 | 3.67 | 11.7 | 3.49 | 11.6 | 3.25 | 11.5 | 3.08 |
| | 0 | 54.0 | 17.6 | 4.84 | 16.3 | 4.59 | 15.2 | 4.33 | 14.8 | 4.11 | 14.6 | 3.86 | 14.1 | 3.64 |
| | | 67.5 | 17.7 | 4.85 | 16.4 | 4.61 | 15.3 | 4.34 | 14.9 | 4.12 | 14.7 | 3.87 | 14.2 | 3.66 |
| | | 135.0 | 18.1 | 4.90 | 16.8 | 4.65 | 15.6 | 4.40 | 15.3 | 4.18 | 15.1 | 3.92 | 14.5 | 3.70 |
| | | 168.8 | 18.4 | 4.90 | 17.0 | 4.65 | 15.8 | 4.40 | 15.5 | 4.18 | 15.3 | 3.92 | 14.8 | 3.70 |
| | | 202.5 | 18.6 | 4.90 | 17.1 | 4.65 | 15.9 | 4.40 | 15.7 | 4.18 | 15.4 | 3.92 | 14.9 | 3.70 |
| | 5 | 54.0 | 24.4 | 5.27 | 23.1 | 4.99 | 22.0 | 4.71 | 21.5 | 4.48 | 20.6 | 4.21 | 19.6 | 3.95 |
| | | 67.5 | 24.4 | 5.29 | 23.1 | 5.01 | 22.0 | 4.74 | 21.5 | 4.50 | 20.6 | 4.23 | 19.6 | 3.98 |
| | | 135.0 | 24.6 | 5.40 | 23.3 | 5.12 | 22.1 | 4.84 | 21.5 | 4.59 | 20.6 | 4.30 | 19.6 | 4.06 |
| | | 168.8 | 24.6 | 5.44 | 23.3 | 5.16 | 22.1 | 4.87 | 21.5 | 4.62 | 20.6 | 4.34 | 19.6 | 4.09 |
| | | 202.5 | 24.6 | 5.46 | 23.2 | 5.18 | 22.1 | 4.88 | 21.5 | 4.63 | 20.6 | 4.36 | 19.6 | 4.11 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(14HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 54.0 | 24.5 | 4.85 | 23.1 | 4.57 | 22.0 | 4.29 | 21.5 | 4.10 | 20.6 | 3.79 | 19.6 | 3.62 |
| | | 67.5 | 24.5 | 4.84 | 23.2 | 4.56 | 22.0 | 4.28 | 21.5 | 4.09 | 20.6 | 3.80 | 19.6 | 3.61 |
| | | 135.0 | 24.6 | 4.81 | 23.3 | 4.55 | 22.1 | 4.25 | 21.5 | 4.06 | 20.6 | 3.85 | 19.6 | 3.58 |
| | | 168.8 | 24.6 | 4.84 | 23.3 | 4.56 | 22.1 | 4.27 | 21.5 | 4.08 | 20.6 | 3.79 | 19.6 | 3.60 |
| | | 202.5 | 24.6 | 4.85 | 23.2 | 4.57 | 22.1 | 4.28 | 21.5 | 4.09 | 20.6 | 3.76 | 19.6 | 3.60 |
| | 15 | 54.0 | 24.6 | 4.42 | 23.3 | 4.13 | 22.1 | 3.85 | 21.5 | 3.70 | 20.6 | 3.39 | 19.6 | 3.28 |
| | | 67.5 | 24.6 | 4.39 | 23.3 | 4.09 | 22.1 | 3.82 | 21.5 | 3.67 | 20.6 | 3.39 | 19.6 | 3.25 |
| | | 135.0 | 24.6 | 4.24 | 23.3 | 3.96 | 22.1 | 3.67 | 21.5 | 3.54 | 20.6 | 3.39 | 19.6 | 3.11 |
| | | 168.8 | 24.6 | 4.24 | 23.3 | 3.96 | 22.1 | 3.67 | 21.5 | 3.54 | 20.6 | 3.25 | 19.6 | 3.11 |
| | | 202.5 | 24.6 | 4.24 | 23.3 | 3.96 | 22.1 | 3.67 | 21.5 | 3.54 | 20.6 | 3.17 | 19.6 | 3.11 |
| | 20 | 54.0 | 24.6 | 3.85 | 23.3 | 3.58 | 22.1 | 3.43 | 21.5 | 3.28 | 20.6 | 3.15 | 19.6 | 2.82 |
| | | 67.5 | 24.6 | 3.82 | 23.3 | 3.54 | 22.1 | 3.39 | 21.5 | 3.25 | 20.6 | 3.11 | 19.6 | 2.82 |
| | | 135.0 | 24.6 | 3.67 | 23.3 | 3.39 | 22.1 | 3.25 | 21.5 | 3.11 | 20.6 | 2.97 | 19.6 | 2.82 |
| | | 168.8 | 24.6 | 3.67 | 23.3 | 3.39 | 22.1 | 3.25 | 21.5 | 3.11 | 20.6 | 2.97 | 19.6 | 2.82 |
| | | 202.5 | 24.6 | 3.67 | 23.3 | 3.39 | 22.1 | 3.25 | 21.5 | 3.11 | 20.6 | 2.97 | 19.6 | 2.82 |
| | 25 | 54.0 | 24.6 | 3.43 | 23.3 | 3.11 | 22.1 | 3.00 | 21.5 | 2.82 | 20.6 | 2.69 | 19.6 | 2.54 |
| | | 67.5 | 24.6 | 3.39 | 23.3 | 3.11 | 22.1 | 2.97 | 21.5 | 2.82 | 20.6 | 2.69 | 19.6 | 2.54 |
| | | 135.0 | 24.6 | 3.25 | 23.3 | 3.11 | 22.1 | 2.82 | 21.5 | 2.82 | 20.6 | 2.69 | 19.6 | 2.54 |
| | | 168.8 | 24.6 | 3.25 | 23.3 | 3.11 | 22.1 | 2.82 | 21.5 | 2.82 | 20.6 | 2.69 | 19.6 | 2.54 |
| | | 202.5 | 24.6 | 3.25 | 23.3 | 3.11 | 22.1 | 2.82 | 21.5 | 2.82 | 20.6 | 2.69 | 19.6 | 2.54 |
| | 30 | 54.0 | 24.6 | 3.15 | 23.3 | 2.86 | 22.1 | 2.73 | 21.5 | 2.54 | 20.6 | 2.58 | 19.6 | 2.43 |
| | | 67.5 | 24.6 | 3.11 | 23.3 | 2.82 | 22.1 | 2.69 | 21.5 | 2.54 | 20.6 | 2.54 | 19.6 | 2.40 |
| | | 135.0 | 24.6 | 2.97 | 23.3 | 2.69 | 22.1 | 2.54 | 21.5 | 2.54 | 20.6 | 2.40 | 19.6 | 2.27 |
| | | 168.8 | 24.6 | 2.97 | 23.3 | 2.69 | 22.1 | 2.54 | 21.5 | 2.54 | 20.6 | 2.40 | 19.6 | 2.27 |
| | | 202.5 | 24.6 | 2.97 | 23.3 | 2.69 | 22.1 | 2.54 | 21.5 | 2.54 | 20.6 | 2.40 | 19.6 | 2.27 |
| | 35 | 54.0 | 24.6 | 2.86 | 23.3 | 2.54 | 22.1 | 2.40 | 21.5 | 2.43 | 20.6 | 2.27 | 19.6 | 2.12 |
| | | 67.5 | 24.6 | 2.82 | 23.3 | 2.54 | 22.1 | 2.40 | 21.5 | 2.40 | 20.6 | 2.27 | 19.6 | 2.12 |
| | | 135.0 | 24.6 | 2.69 | 23.3 | 2.54 | 22.1 | 2.40 | 21.5 | 2.27 | 20.6 | 2.27 | 19.6 | 2.12 |
| | | 168.8 | 24.6 | 2.69 | 23.3 | 2.54 | 22.1 | 2.40 | 21.5 | 2.27 | 20.6 | 2.27 | 19.6 | 2.12 |
| | | 202.5 | 24.6 | 2.69 | 23.3 | 2.54 | 22.1 | 2.40 | 21.5 | 2.27 | 20.6 | 2.27 | 19.6 | 2.12 |
| | 40 | 54.0 | 24.6 | 2.58 | 23.3 | 2.43 | 22.1 | 2.30 | 21.5 | 2.12 | 20.6 | 2.16 | 19.6 | 1.97 |
| | | 67.5 | 24.6 | 2.54 | 23.3 | 2.40 | 22.1 | 2.27 | 21.5 | 2.12 | 20.6 | 2.12 | 19.6 | 1.97 |
| | | 135.0 | 24.6 | 2.40 | 23.3 | 2.27 | 22.1 | 2.12 | 21.5 | 2.12 | 20.6 | 1.97 | 19.6 | 1.97 |
| | | 168.8 | 24.6 | 2.40 | 23.3 | 2.27 | 22.1 | 2.12 | 21.5 | 2.12 | 20.6 | 1.97 | 19.6 | 1.97 |
| | | 202.5 | 24.6 | 2.40 | 23.3 | 2.27 | 22.1 | 2.12 | 21.5 | 2.12 | 20.6 | 1.97 | 19.6 | 1.97 |
| | 45 | 54.0 | 24.6 | 2.30 | 23.3 | 2.34 | 22.1 | 2.19 | 21.5 | 1.81 | 20.6 | 2.04 | 19.6 | 1.84 |
| | | 67.5 | 24.6 | 2.27 | 23.3 | 2.27 | 22.1 | 2.12 | 21.5 | 1.84 | 20.6 | 1.97 | 19.6 | 1.84 |
| | | 135.0 | 24.6 | 2.12 | 23.3 | 1.97 | 22.1 | 1.84 | 21.5 | 1.97 | 20.6 | 1.70 | 19.6 | 1.84 |
| | | 168.8 | 24.6 | 2.12 | 23.3 | 1.97 | 22.1 | 1.84 | 21.5 | 1.97 | 20.6 | 1.70 | 19.6 | 1.84 |
| | | 202.5 | 24.6 | 2.12 | 23.3 | 1.97 | 22.1 | 1.84 | 21.5 | 1.97 | 20.6 | 1.70 | 19.6 | 1.84 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN160BAS4

**Heating Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 61.6 | 23.8 | 10.15 | 23.7 | 9.55 | 23.5 | 8.89 | 23.2 | 8.63 | 23.5 | 8.41 | 22.8 | 7.54 |
| | | 77.0 | 24.7 | 10.32 | 24.5 | 9.74 | 24.3 | 9.09 | 24.0 | 8.82 | 24.3 | 8.59 | 23.6 | 7.70 |
| | | 154.0 | 27.9 | 11.03 | 27.7 | 10.48 | 27.5 | 9.86 | 27.1 | 9.57 | 27.5 | 9.31 | 26.8 | 8.35 |
| | | 192.5 | 30.8 | 11.73 | 30.6 | 11.19 | 30.4 | 10.63 | 30.0 | 10.34 | 30.4 | 10.04 | 29.6 | 9.01 |
| | | 231.0 | 32.3 | 12.08 | 32.0 | 11.56 | 31.8 | 11.01 | 31.4 | 10.73 | 31.8 | 10.41 | 31.0 | 9.33 |
| | 0 | 61.6 | 42.6 | 13.88 | 41.6 | 13.47 | 40.7 | 13.03 | 39.8 | 12.66 | 40.0 | 12.31 | 38.2 | 11.03 |
| | | 77.0 | 42.9 | 13.92 | 41.9 | 13.50 | 41.0 | 13.06 | 40.1 | 12.70 | 40.2 | 12.35 | 38.4 | 11.06 |
| | | 154.0 | 43.9 | 14.07 | 42.8 | 13.63 | 41.9 | 13.22 | 41.0 | 12.85 | 41.2 | 12.48 | 39.3 | 11.19 |
| | | 192.5 | 44.5 | 14.07 | 43.5 | 13.63 | 42.6 | 13.22 | 41.6 | 12.85 | 41.8 | 12.48 | 39.9 | 11.19 |
| | | 231.0 | 44.9 | 14.07 | 43.8 | 13.63 | 42.9 | 13.22 | 41.9 | 12.85 | 42.1 | 12.48 | 40.2 | 11.19 |
| | 5 | 61.6 | 61.3 | 14.92 | 60.4 | 14.55 | 59.2 | 14.18 | 57.7 | 13.78 | 56.1 | 13.40 | 53.0 | 12.00 |
| | | 77.0 | 61.6 | 14.99 | 60.5 | 14.62 | 59.2 | 14.25 | 57.7 | 13.85 | 56.1 | 13.47 | 53.0 | 12.06 |
| | | 154.0 | 62.4 | 15.25 | 60.9 | 14.89 | 59.2 | 14.54 | 57.7 | 14.13 | 56.1 | 13.73 | 53.0 | 12.31 |
| | | 192.5 | 62.8 | 15.35 | 61.1 | 14.99 | 59.2 | 14.64 | 57.7 | 14.23 | 56.1 | 13.83 | 53.0 | 12.40 |
| | | 231.0 | 63.0 | 15.40 | 61.2 | 15.04 | 59.2 | 14.69 | 57.7 | 14.28 | 56.1 | 13.88 | 53.0 | 12.44 |
| | 10 | 61.6 | 61.4 | 13.57 | 60.4 | 13.12 | 59.0 | 12.87 | 57.4 | 12.58 | 55.9 | 12.15 | 52.8 | 10.97 |
| | | 77.0 | 61.8 | 13.55 | 60.7 | 13.13 | 59.2 | 12.90 | 57.7 | 12.58 | 56.1 | 12.15 | 53.0 | 10.96 |
| | | 154.0 | 63.2 | 13.45 | 61.8 | 13.18 | 60.2 | 13.00 | 58.6 | 12.56 | 57.0 | 12.11 | 53.9 | 10.93 |
| | | 192.5 | 63.6 | 13.63 | 62.3 | 13.37 | 60.5 | 13.05 | 58.9 | 12.61 | 57.3 | 12.31 | 54.2 | 11.44 |
| | | 231.0 | 63.7 | 13.73 | 62.5 | 13.46 | 60.7 | 13.07 | 59.0 | 12.64 | 57.5 | 12.41 | 54.4 | 11.71 |
| | 15 | 61.6 | 61.5 | 12.23 | 60.4 | 11.71 | 58.7 | 11.59 | 57.2 | 11.39 | 55.7 | 10.91 | 52.6 | 9.94 |
| | | 77.0 | 62.0 | 12.11 | 60.9 | 11.66 | 59.2 | 11.56 | 57.7 | 11.31 | 56.1 | 10.83 | 53.0 | 9.86 |
| | | 154.0 | 64.0 | 11.63 | 62.7 | 11.46 | 61.1 | 11.46 | 59.5 | 10.98 | 57.8 | 10.49 | 54.7 | 9.52 |
| | | 192.5 | 64.4 | 11.91 | 63.3 | 11.73 | 61.8 | 11.46 | 60.2 | 10.98 | 58.6 | 10.79 | 55.4 | 10.49 |
| | | 231.0 | 64.5 | 12.06 | 63.6 | 11.86 | 62.2 | 11.46 | 60.5 | 10.98 | 59.0 | 10.94 | 55.7 | 10.98 |
| | 20 | 61.6 | 63.9 | 11.22 | 62.7 | 10.70 | 61.0 | 10.47 | 59.3 | 10.13 | 57.6 | 9.91 | 54.2 | 9.60 |
| | | 77.0 | 64.4 | 11.14 | 63.2 | 10.69 | 61.5 | 10.46 | 59.8 | 10.17 | 58.1 | 9.97 | 54.7 | 9.52 |
| | | 154.0 | 66.4 | 10.83 | 65.2 | 10.66 | 63.4 | 10.43 | 61.7 | 10.34 | 60.2 | 10.24 | 56.7 | 9.21 |
| | | 192.5 | 66.7 | 10.83 | 65.7 | 10.66 | 64.1 | 10.49 | 62.3 | 10.34 | 60.6 | 10.24 | 57.2 | 9.79 |
| | | 231.0 | 66.8 | 10.83 | 65.9 | 10.66 | 64.5 | 10.53 | 62.6 | 10.34 | 60.9 | 10.24 | 57.4 | 10.08 |
| | 25 | 61.6 | 67.4 | 10.70 | 65.7 | 10.39 | 64.1 | 10.22 | 62.9 | 10.05 | 61.5 | 9.90 | 58.0 | 9.25 |
| | | 77.0 | 67.4 | 10.66 | 65.7 | 10.37 | 64.1 | 10.17 | 62.9 | 10.01 | 61.5 | 9.86 | 58.0 | 9.21 |
| | | 154.0 | 67.4 | 10.49 | 65.7 | 10.31 | 64.1 | 10.01 | 62.9 | 9.86 | 61.5 | 9.69 | 58.0 | 9.04 |
| | | 192.5 | 67.4 | 10.34 | 65.7 | 10.04 | 64.1 | 9.86 | 62.9 | 9.69 | 61.5 | 9.52 | 58.0 | 8.89 |
| | | 231.0 | 67.4 | 10.27 | 65.7 | 9.91 | 64.1 | 9.78 | 62.9 | 9.61 | 61.5 | 9.44 | 58.0 | 8.81 |
| | 30 | 61.6 | 67.4 | 10.43 | 65.7 | 9.91 | 64.1 | 9.82 | 62.9 | 9.56 | 61.5 | 9.46 | 58.0 | 8.80 |
| | | 77.0 | 67.4 | 10.34 | 65.7 | 9.89 | 64.1 | 9.76 | 62.9 | 9.52 | 61.5 | 9.37 | 58.0 | 8.72 |
| | | 154.0 | 67.4 | 10.01 | 65.7 | 9.82 | 64.1 | 9.52 | 62.9 | 9.37 | 61.5 | 9.04 | 58.0 | 8.40 |
| | | 192.5 | 67.4 | 9.86 | 65.7 | 9.56 | 64.1 | 9.37 | 62.9 | 9.21 | 61.5 | 9.04 | 58.0 | 8.40 |
| | | 231.0 | 67.4 | 9.78 | 65.7 | 9.42 | 64.1 | 9.30 | 62.9 | 9.12 | 61.5 | 9.04 | 58.0 | 8.40 |
| | 35 | 61.6 | 67.4 | 9.94 | 65.7 | 9.61 | 64.1 | 9.41 | 62.9 | 9.08 | 61.5 | 8.76 | 58.0 | 8.15 |
| | | 77.0 | 67.4 | 9.86 | 65.7 | 9.56 | 64.1 | 9.37 | 62.9 | 9.04 | 61.5 | 8.72 | 58.0 | 8.07 |
| | | 154.0 | 67.4 | 9.52 | 65.7 | 9.34 | 64.1 | 9.21 | 62.9 | 8.89 | 61.5 | 8.55 | 58.0 | 7.75 |
| | | 192.5 | 67.4 | 9.52 | 65.7 | 9.24 | 64.1 | 9.04 | 62.9 | 8.72 | 61.5 | 8.40 | 58.0 | 7.75 |
| | | 231.0 | 67.4 | 9.52 | 65.7 | 9.19 | 64.1 | 8.95 | 62.9 | 8.64 | 61.5 | 8.33 | 58.0 | 7.75 |
| | 40 | 61.6 | 67.4 | 9.60 | 65.7 | 9.30 | 64.1 | 9.12 | 62.9 | 8.80 | 61.5 | 8.49 | 58.0 | 7.67 |
| | | 77.0 | 67.4 | 9.52 | 65.7 | 9.24 | 64.1 | 9.04 | 62.9 | 8.72 | 61.5 | 8.40 | 58.0 | 7.58 |
| | | 154.0 | 67.4 | 9.21 | 65.7 | 9.01 | 64.1 | 8.72 | 62.9 | 8.40 | 61.5 | 8.07 | 58.0 | 7.27 |
| | | 192.5 | 67.4 | 9.04 | 65.7 | 8.85 | 64.1 | 8.72 | 62.9 | 8.40 | 61.5 | 8.07 | 58.0 | 7.27 |
| | | 231.0 | 67.4 | 8.95 | 65.7 | 8.78 | 64.1 | 8.72 | 62.9 | 8.40 | 61.5 | 8.07 | 58.0 | 7.27 |
| | 45 | 61.6 | 67.4 | 9.29 | 65.7 | 8.98 | 64.1 | 8.84 | 62.9 | 8.53 | 61.5 | 8.19 | 58.0 | 7.18 |
| | | 77.0 | 67.4 | 9.21 | 65.7 | 8.92 | 64.1 | 8.72 | 62.9 | 8.40 | 61.5 | 8.07 | 58.0 | 7.10 |
| | | 154.0 | 67.4 | 8.89 | 65.7 | 8.69 | 64.1 | 8.24 | 62.9 | 7.92 | 61.5 | 7.58 | 58.0 | 6.78 |
| | | 192.5 | 67.4 | 8.55 | 65.7 | 8.47 | 64.1 | 8.40 | 62.9 | 8.07 | 61.5 | 7.75 | 58.0 | 6.78 |
| | | 231.0 | 67.4 | 8.39 | 65.7 | 8.36 | 64.1 | 8.49 | 62.9 | 8.15 | 61.5 | 7.84 | 58.0 | 6.78 |
| 120 | -5 | 61.6 | 22.7 | 10.15 | 22.5 | 9.55 | 22.3 | 8.89 | 22.1 | 8.52 | 22.3 | 8.27 | 21.7 | 7.40 |
| | | 77.0 | 23.4 | 10.32 | 23.3 | 9.74 | 23.1 | 9.09 | 22.8 | 8.70 | 23.0 | 8.45 | 22.4 | 7.57 |
| | | 154.0 | 26.5 | 11.03 | 26.3 | 10.48 | 26.2 | 9.86 | 25.8 | 9.44 | 26.1 | 9.17 | 25.4 | 8.22 |
| | | 192.5 | 29.3 | 11.73 | 29.1 | 11.19 | 28.9 | 10.63 | 28.6 | 10.19 | 28.8 | 9.89 | 28.0 | 8.85 |
| | | 231.0 | 30.7 | 12.08 | 30.5 | 11.56 | 30.3 | 11.01 | 29.9 | 10.57 | 30.2 | 10.25 | 29.3 | 9.17 |
| | 0 | 61.6 | 40.5 | 13.88 | 39.5 | 13.47 | 38.7 | 13.03 | 37.9 | 12.48 | 37.9 | 12.13 | 36.2 | 10.84 |
| | | 77.0 | 40.7 | 13.92 | 39.8 | 13.50 | 38.9 | 13.06 | 38.1 | 12.51 | 38.1 | 12.16 | 36.4 | 10.88 |
| | | 154.0 | 41.7 | 14.07 | 40.7 | 13.63 | 39.9 | 13.22 | 39.0 | 12.66 | 39.0 | 12.30 | 37.3 | 11.01 |
| | | 192.5 | 42.3 | 14.07 | 41.4 | 13.63 | 40.5 | 13.22 | 39.6 | 12.66 | 39.6 | 12.30 | 37.8 | 11.01 |
| | | 231.0 | 42.7 | 14.07 | 41.7 | 13.63 | 40.8 | 13.22 | 39.9 | 12.66 | 39.9 | 12.30 | 38.1 | 11.01 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 61.6 | 58.4 | 14.92 | 57.5 | 14.55 | 56.3 | 14.18 | 54.9 | 13.58 | 53.2 | 13.20 | 50.3 | 11.82 |
| | | 77.0 | 58.6 | 14.99 | 57.6 | 14.62 | 56.3 | 14.25 | 54.9 | 13.65 | 53.2 | 13.27 | 50.3 | 11.88 |
| | | 154.0 | 59.4 | 15.25 | 58.0 | 14.89 | 56.3 | 14.54 | 54.9 | 13.93 | 53.2 | 13.53 | 50.3 | 12.11 |
| | | 192.5 | 59.8 | 15.35 | 57.7 | 14.99 | 56.3 | 14.64 | 54.9 | 14.03 | 53.2 | 13.63 | 50.3 | 12.20 |
| | | 231.0 | 59.9 | 15.40 | 57.5 | 15.04 | 56.3 | 14.69 | 54.9 | 14.08 | 53.2 | 13.68 | 50.3 | 12.24 |
| | 10 | 61.6 | 58.6 | 13.40 | 57.5 | 13.03 | 56.1 | 12.77 | 54.7 | 12.38 | 53.0 | 11.97 | 50.1 | 10.76 |
| | | 77.0 | 58.9 | 13.45 | 57.8 | 13.08 | 56.3 | 12.81 | 54.9 | 12.40 | 53.2 | 11.96 | 50.3 | 10.78 |
| | | 154.0 | 60.0 | 13.63 | 58.7 | 13.28 | 56.9 | 13.00 | 55.5 | 12.46 | 53.7 | 11.93 | 50.8 | 10.83 |
| | | 192.5 | 60.3 | 13.58 | 58.5 | 13.28 | 57.1 | 13.05 | 55.7 | 12.51 | 54.0 | 11.98 | 51.0 | 11.19 |
| | | 231.0 | 60.5 | 13.56 | 58.4 | 13.28 | 57.2 | 13.07 | 55.9 | 12.54 | 54.1 | 12.00 | 51.1 | 11.38 |
| | 15 | 61.6 | 58.8 | 11.89 | 57.6 | 11.54 | 55.9 | 11.36 | 54.6 | 11.19 | 52.9 | 10.74 | 50.0 | 9.73 |
| | | 77.0 | 59.1 | 11.91 | 57.9 | 11.56 | 56.3 | 11.38 | 54.9 | 11.14 | 53.2 | 10.66 | 50.3 | 9.69 |
| | | 154.0 | 60.5 | 12.01 | 59.4 | 11.66 | 57.5 | 11.46 | 56.1 | 10.98 | 54.2 | 10.34 | 51.3 | 9.52 |
| | | 192.5 | 60.8 | 11.83 | 59.3 | 11.56 | 58.0 | 11.46 | 56.6 | 10.98 | 54.7 | 10.34 | 51.8 | 10.17 |
| | | 231.0 | 61.0 | 11.74 | 59.3 | 11.51 | 58.2 | 11.46 | 56.8 | 10.98 | 54.9 | 10.34 | 52.0 | 10.50 |
| | 20 | 61.6 | 60.4 | 10.69 | 59.3 | 10.24 | 57.5 | 9.97 | 55.9 | 9.82 | 54.1 | 9.70 | 51.2 | 9.21 |
| | | 77.0 | 60.8 | 10.69 | 59.6 | 10.27 | 57.8 | 10.01 | 56.3 | 9.86 | 54.4 | 9.69 | 51.5 | 9.17 |
| | | 154.0 | 62.4 | 10.69 | 61.0 | 10.43 | 59.1 | 10.17 | 57.7 | 10.01 | 55.8 | 9.66 | 52.7 | 9.04 |
| | | 192.5 | 62.6 | 10.59 | 61.0 | 10.34 | 59.5 | 10.17 | 58.0 | 10.01 | 56.1 | 9.69 | 53.0 | 9.37 |
| | | 231.0 | 62.8 | 10.54 | 61.0 | 10.30 | 59.8 | 10.17 | 58.2 | 10.01 | 56.3 | 9.71 | 53.2 | 9.54 |
| | 25 | 61.6 | 63.4 | 10.11 | 61.5 | 9.64 | 59.5 | 9.46 | 58.3 | 9.25 | 56.7 | 9.08 | 53.6 | 8.45 |
| | | 77.0 | 63.4 | 10.07 | 61.5 | 9.62 | 59.5 | 9.44 | 58.3 | 9.21 | 56.7 | 9.04 | 53.6 | 8.40 |
| | | 154.0 | 63.5 | 9.92 | 61.5 | 9.56 | 59.5 | 9.37 | 58.3 | 9.04 | 56.7 | 8.89 | 53.6 | 8.24 |
| | | 192.5 | 63.7 | 9.56 | 61.5 | 9.31 | 59.5 | 9.21 | 58.3 | 9.04 | 56.7 | 8.72 | 53.6 | 8.24 |
| | | 231.0 | 63.8 | 9.37 | 61.5 | 9.18 | 59.5 | 9.12 | 58.3 | 9.04 | 56.7 | 8.64 | 53.6 | 8.24 |
| | 30 | 61.6 | 63.7 | 9.67 | 61.5 | 9.19 | 59.5 | 8.93 | 58.3 | 8.59 | 56.7 | 8.49 | 53.6 | 7.79 |
| | | 77.0 | 63.7 | 9.59 | 61.5 | 9.14 | 59.5 | 8.89 | 58.3 | 8.55 | 56.7 | 8.40 | 53.6 | 7.75 |
| | | 154.0 | 63.7 | 9.27 | 61.5 | 8.92 | 59.5 | 8.72 | 58.3 | 8.40 | 56.7 | 8.07 | 53.6 | 7.58 |
| | | 192.5 | 63.7 | 8.97 | 61.5 | 8.72 | 59.5 | 8.55 | 58.3 | 8.40 | 56.7 | 8.07 | 53.6 | 7.43 |
| | | 231.0 | 63.7 | 8.82 | 61.5 | 8.62 | 59.5 | 8.47 | 58.3 | 8.40 | 56.7 | 8.07 | 53.6 | 7.36 |
| | 35 | 61.6 | 63.7 | 9.24 | 61.5 | 8.73 | 59.5 | 8.49 | 58.3 | 8.15 | 56.7 | 7.83 | 53.6 | 7.14 |
| | | 77.0 | 63.7 | 9.11 | 61.5 | 8.65 | 59.5 | 8.40 | 58.3 | 8.07 | 56.7 | 7.75 | 53.6 | 7.10 |
| | | 154.0 | 63.7 | 8.59 | 61.5 | 8.34 | 59.5 | 8.07 | 58.3 | 7.75 | 56.7 | 7.43 | 53.6 | 6.95 |
| | | 192.5 | 63.7 | 8.49 | 61.5 | 8.27 | 59.5 | 8.07 | 58.3 | 7.75 | 56.7 | 7.43 | 53.6 | 6.78 |
| | | 231.0 | 63.7 | 8.44 | 61.5 | 8.24 | 59.5 | 8.07 | 58.3 | 7.75 | 56.7 | 7.43 | 53.6 | 6.70 |
| | 40 | 61.6 | 63.7 | 8.96 | 61.5 | 8.33 | 59.5 | 8.00 | 58.3 | 7.67 | 56.7 | 7.35 | 53.6 | 6.65 |
| | | 77.0 | 63.7 | 8.79 | 61.5 | 8.24 | 59.5 | 7.92 | 58.3 | 7.58 | 56.7 | 7.27 | 53.6 | 6.62 |
| | | 154.0 | 63.7 | 8.10 | 61.5 | 7.85 | 59.5 | 7.58 | 58.3 | 7.27 | 56.7 | 6.95 | 53.6 | 6.47 |
| | | 192.5 | 63.7 | 8.00 | 61.5 | 7.75 | 59.5 | 7.58 | 58.3 | 7.27 | 56.7 | 6.95 | 53.6 | 6.30 |
| | | 231.0 | 63.7 | 7.95 | 61.5 | 7.70 | 59.5 | 7.58 | 58.3 | 7.27 | 56.7 | 6.95 | 53.6 | 6.21 |
| | 45 | 61.6 | 63.7 | 8.69 | 61.5 | 7.93 | 59.5 | 7.52 | 58.3 | 7.18 | 56.7 | 6.86 | 53.6 | 6.17 |
| | | 77.0 | 63.7 | 8.47 | 61.5 | 7.82 | 59.5 | 7.43 | 58.3 | 7.10 | 56.7 | 6.78 | 53.6 | 6.13 |
| | | 154.0 | 63.7 | 7.62 | 61.5 | 7.37 | 59.5 | 7.10 | 58.3 | 6.78 | 56.7 | 6.47 | 53.6 | 5.98 |
| | | 192.5 | 63.7 | 7.52 | 61.5 | 7.23 | 59.5 | 7.10 | 58.3 | 6.78 | 56.7 | 6.47 | 53.6 | 5.81 |
| | | 231.0 | 63.7 | 7.47 | 61.5 | 7.17 | 59.5 | 7.10 | 58.3 | 6.78 | 56.7 | 6.47 | 53.6 | 5.73 |
| 110 | -5 | 61.6 | 21.4 | 10.28 | 21.3 | 9.55 | 21.2 | 8.89 | 20.9 | 8.52 | 21.0 | 8.27 | 20.5 | 7.40 |
| | | 77.0 | 22.2 | 10.46 | 22.0 | 9.74 | 21.9 | 9.09 | 21.7 | 8.70 | 21.7 | 8.45 | 21.2 | 7.57 |
| | | 154.0 | 25.1 | 11.16 | 24.9 | 10.48 | 24.8 | 9.86 | 24.5 | 9.44 | 24.5 | 9.17 | 24.1 | 8.22 |
| | | 192.5 | 27.7 | 11.88 | 27.5 | 11.19 | 27.4 | 10.63 | 27.1 | 10.19 | 27.1 | 9.89 | 26.5 | 8.85 |
| | | 231.0 | 29.0 | 12.24 | 28.8 | 11.56 | 28.7 | 11.01 | 28.4 | 10.57 | 28.4 | 10.25 | 27.8 | 9.17 |
| | 0 | 61.6 | 38.3 | 14.07 | 37.5 | 13.47 | 36.7 | 13.03 | 36.0 | 12.48 | 35.7 | 12.13 | 34.3 | 10.84 |
| | | 77.0 | 38.5 | 14.10 | 37.7 | 13.50 | 36.9 | 13.06 | 36.2 | 12.51 | 35.9 | 12.16 | 34.5 | 10.88 |
| | | 154.0 | 39.4 | 14.23 | 38.6 | 13.63 | 37.7 | 13.22 | 37.0 | 12.66 | 36.7 | 12.30 | 35.3 | 11.01 |
| | | 192.5 | 40.0 | 14.23 | 39.2 | 13.63 | 38.4 | 13.22 | 37.6 | 12.66 | 37.3 | 12.30 | 35.8 | 11.01 |
| | | 231.0 | 40.3 | 14.23 | 39.5 | 13.63 | 38.7 | 13.22 | 37.9 | 12.66 | 37.6 | 12.30 | 36.1 | 11.01 |
| | 5 | 61.6 | 55.9 | 15.12 | 54.6 | 14.55 | 53.3 | 14.18 | 52.1 | 13.58 | 50.1 | 13.20 | 47.6 | 11.82 |
| | | 77.0 | 56.1 | 15.19 | 54.7 | 14.62 | 53.3 | 14.25 | 52.1 | 13.65 | 50.1 | 13.27 | 47.6 | 11.88 |
| | | 154.0 | 56.8 | 15.45 | 55.1 | 14.89 | 53.4 | 14.54 | 52.1 | 13.93 | 50.1 | 13.53 | 47.6 | 12.11 |
| | | 192.5 | 57.2 | 15.55 | 55.2 | 14.99 | 53.4 | 14.64 | 52.1 | 14.03 | 50.1 | 13.63 | 47.6 | 12.20 |
| | | 231.0 | 57.3 | 15.60 | 55.3 | 15.04 | 53.4 | 14.69 | 52.1 | 14.08 | 50.1 | 13.68 | 47.6 | 12.24 |
| | 10 | 61.6 | 56.1 | 13.56 | 54.7 | 13.09 | 53.2 | 12.81 | 52.0 | 12.38 | 50.0 | 11.97 | 47.6 | 10.76 |
| | | 77.0 | 56.3 | 13.58 | 54.9 | 13.13 | 53.3 | 12.85 | 52.1 | 12.40 | 50.1 | 11.96 | 47.6 | 10.78 |
| | | 154.0 | 57.2 | 13.68 | 55.4 | 13.28 | 53.6 | 13.00 | 52.4 | 12.46 | 50.4 | 11.93 | 47.9 | 10.83 |
| | | 192.5 | 57.5 | 13.68 | 55.7 | 13.28 | 53.8 | 12.96 | 52.5 | 12.43 | 50.5 | 11.98 | 48.0 | 10.94 |
| | | 231.0 | 57.6 | 13.68 | 55.8 | 13.28 | 53.9 | 12.95 | 52.6 | 12.41 | 50.5 | 12.00 | 48.1 | 11.00 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 61.6 | 56.3 | 12.00 | 54.8 | 11.66 | 53.2 | 11.46 | 51.9 | 11.19 | 49.9 | 10.74 | 47.5 | 9.73 |
| | | 77.0 | 56.5 | 11.98 | 55.0 | 11.66 | 53.4 | 11.46 | 52.1 | 11.14 | 50.1 | 10.66 | 47.6 | 9.69 |
| | | 154.0 | 57.4 | 11.91 | 55.8 | 11.66 | 54.0 | 11.46 | 52.7 | 10.98 | 50.7 | 10.34 | 48.1 | 9.52 |
| | | 192.5 | 57.8 | 11.83 | 56.1 | 11.56 | 54.2 | 11.31 | 52.9 | 10.83 | 50.9 | 10.34 | 48.4 | 9.69 |
| | | 231.0 | 57.9 | 11.79 | 56.2 | 11.51 | 54.4 | 11.23 | 53.0 | 10.75 | 50.9 | 10.34 | 48.5 | 9.77 |
| | 20 | 61.6 | 57.3 | 10.35 | 55.7 | 10.11 | 53.9 | 9.86 | 52.5 | 9.69 | 50.6 | 9.41 | 47.9 | 8.80 |
| | | 77.0 | 57.6 | 10.37 | 55.9 | 10.11 | 54.1 | 9.86 | 52.7 | 9.69 | 50.7 | 9.37 | 48.1 | 8.79 |
| | | 154.0 | 58.8 | 10.46 | 56.7 | 10.11 | 54.7 | 9.86 | 53.5 | 9.69 | 51.3 | 9.21 | 48.9 | 8.72 |
| | | 192.5 | 59.2 | 10.46 | 57.2 | 10.11 | 55.0 | 9.86 | 53.6 | 9.52 | 51.6 | 9.21 | 49.0 | 8.72 |
| | | 231.0 | 59.3 | 10.46 | 57.4 | 10.11 | 55.2 | 9.86 | 53.7 | 9.44 | 51.8 | 9.21 | 49.1 | 8.72 |
| | 25 | 61.6 | 59.1 | 9.42 | 57.3 | 9.08 | 55.0 | 8.93 | 53.8 | 8.59 | 51.9 | 8.28 | 49.2 | 7.58 |
| | | 77.0 | 59.2 | 9.41 | 57.3 | 9.04 | 55.0 | 8.89 | 53.8 | 8.55 | 51.9 | 8.24 | 49.2 | 7.58 |
| | | 154.0 | 59.7 | 9.34 | 57.3 | 8.89 | 55.0 | 8.72 | 53.8 | 8.40 | 51.9 | 8.07 | 49.2 | 7.58 |
| | | 192.5 | 60.0 | 9.34 | 57.3 | 8.92 | 55.0 | 8.55 | 53.8 | 8.40 | 51.9 | 7.92 | 49.2 | 7.43 |
| | | 231.0 | 60.1 | 9.34 | 57.3 | 8.94 | 55.0 | 8.47 | 53.8 | 8.40 | 51.9 | 7.84 | 49.2 | 7.36 |
| | 30 | 61.6 | 60.0 | 8.59 | 57.3 | 8.28 | 55.0 | 7.96 | 53.8 | 7.79 | 51.9 | 7.31 | 49.2 | 6.83 |
| | | 77.0 | 60.0 | 8.55 | 57.3 | 8.24 | 55.0 | 7.92 | 53.8 | 7.75 | 51.9 | 7.27 | 49.2 | 6.78 |
| | | 154.0 | 60.0 | 8.40 | 57.3 | 8.07 | 55.0 | 7.75 | 53.8 | 7.58 | 51.9 | 7.10 | 49.2 | 6.62 |
| | | 192.5 | 60.0 | 8.34 | 57.3 | 7.92 | 55.0 | 7.58 | 53.8 | 7.43 | 51.9 | 7.10 | 49.2 | 6.62 |
| | | 231.0 | 60.0 | 8.30 | 57.3 | 7.84 | 55.0 | 7.50 | 53.8 | 7.36 | 51.9 | 7.10 | 49.2 | 6.62 |
| | 35 | 61.6 | 60.0 | 8.15 | 57.3 | 7.62 | 55.0 | 7.31 | 53.8 | 6.99 | 51.9 | 6.65 | 49.2 | 6.17 |
| | | 77.0 | 60.0 | 8.07 | 57.3 | 7.58 | 55.0 | 7.27 | 53.8 | 6.95 | 51.9 | 6.62 | 49.2 | 6.13 |
| | | 154.0 | 60.0 | 7.75 | 57.3 | 7.43 | 55.0 | 7.10 | 53.8 | 6.78 | 51.9 | 6.47 | 49.2 | 5.98 |
| | | 192.5 | 60.0 | 7.55 | 57.3 | 7.27 | 55.0 | 6.95 | 53.8 | 6.78 | 51.9 | 6.47 | 49.2 | 5.98 |
| | | 231.0 | 60.0 | 7.45 | 57.3 | 7.18 | 55.0 | 6.87 | 53.8 | 6.78 | 51.9 | 6.47 | 49.2 | 5.98 |
| | 40 | 61.6 | 60.0 | 7.67 | 57.3 | 7.35 | 55.0 | 6.86 | 53.8 | 6.51 | 51.9 | 6.17 | 49.2 | 5.68 |
| | | 77.0 | 60.0 | 7.58 | 57.3 | 7.27 | 55.0 | 6.78 | 53.8 | 6.47 | 51.9 | 6.13 | 49.2 | 5.65 |
| | | 154.0 | 60.0 | 7.27 | 57.3 | 6.95 | 55.0 | 6.47 | 53.8 | 6.30 | 51.9 | 5.98 | 49.2 | 5.50 |
| | | 192.5 | 60.0 | 7.17 | 57.3 | 6.78 | 55.0 | 6.47 | 53.8 | 6.13 | 51.9 | 5.81 | 49.2 | 5.33 |
| | | 231.0 | 60.0 | 7.12 | 57.3 | 6.70 | 55.0 | 6.47 | 53.8 | 6.05 | 51.9 | 5.73 | 49.2 | 5.25 |
| | 45 | 61.6 | 60.0 | 7.18 | 57.3 | 7.07 | 55.0 | 6.42 | 53.8 | 6.02 | 51.9 | 5.68 | 49.2 | 5.20 |
| | | 77.0 | 60.0 | 7.10 | 57.3 | 6.95 | 55.0 | 6.30 | 53.8 | 5.98 | 51.9 | 5.65 | 49.2 | 5.16 |
| | | 154.0 | 60.0 | 6.78 | 57.3 | 6.47 | 55.0 | 5.81 | 53.8 | 5.81 | 51.9 | 5.50 | 49.2 | 5.01 |
| | | 192.5 | 60.0 | 6.78 | 57.3 | 6.30 | 55.0 | 5.98 | 53.8 | 5.50 | 51.9 | 5.16 | 49.2 | 4.68 |
| | | 231.0 | 60.0 | 6.78 | 57.3 | 6.21 | 55.0 | 6.07 | 53.8 | 5.34 | 51.9 | 4.99 | 49.2 | 4.51 |
| 100 | -5 | 61.6 | 20.3 | 10.28 | 20.1 | 9.69 | 20.0 | 8.89 | 19.9 | 8.52 | 19.7 | 8.14 | 19.3 | 7.40 |
| | | 77.0 | 21.0 | 10.46 | 20.8 | 9.87 | 20.7 | 9.09 | 20.5 | 8.70 | 20.3 | 8.32 | 20.0 | 7.57 |
| | | 154.0 | 23.7 | 11.16 | 23.6 | 10.61 | 23.4 | 9.86 | 23.2 | 9.44 | 23.0 | 9.04 | 22.6 | 8.22 |
| | | 192.5 | 26.2 | 11.88 | 26.0 | 11.34 | 25.9 | 10.63 | 25.6 | 10.19 | 25.5 | 9.74 | 25.0 | 8.85 |
| | | 231.0 | 27.5 | 12.24 | 27.2 | 11.71 | 27.1 | 11.01 | 26.9 | 10.57 | 26.7 | 10.09 | 26.2 | 9.17 |
| | 0 | 61.6 | 36.2 | 14.07 | 35.4 | 13.65 | 34.7 | 13.03 | 34.1 | 12.48 | 33.5 | 11.95 | 32.3 | 10.84 |
| | | 77.0 | 36.4 | 14.10 | 35.6 | 13.68 | 34.9 | 13.06 | 34.3 | 12.51 | 33.7 | 11.98 | 32.5 | 10.88 |
| | | 154.0 | 37.3 | 14.23 | 36.5 | 13.82 | 35.7 | 13.22 | 35.1 | 12.66 | 34.5 | 12.11 | 33.2 | 11.01 |
| | | 192.5 | 37.8 | 14.23 | 37.0 | 13.82 | 36.2 | 13.22 | 35.6 | 12.66 | 35.0 | 12.11 | 33.8 | 11.01 |
| | | 231.0 | 38.1 | 14.23 | 37.3 | 13.82 | 36.5 | 13.22 | 35.8 | 12.66 | 35.2 | 12.11 | 34.0 | 11.01 |
| | 5 | 61.6 | 53.4 | 15.12 | 51.7 | 14.75 | 50.3 | 14.18 | 49.3 | 13.58 | 47.0 | 13.00 | 44.8 | 11.82 |
| | | 77.0 | 53.6 | 15.19 | 51.8 | 14.82 | 50.4 | 14.25 | 49.3 | 13.65 | 47.0 | 13.06 | 44.8 | 11.88 |
| | | 154.0 | 54.4 | 15.45 | 52.1 | 15.09 | 50.4 | 14.54 | 49.3 | 13.93 | 47.0 | 13.33 | 44.8 | 12.11 |
| | | 192.5 | 54.7 | 15.55 | 52.3 | 15.19 | 50.4 | 14.64 | 49.3 | 14.03 | 47.0 | 13.42 | 44.8 | 12.20 |
| | | 231.0 | 54.9 | 15.60 | 52.3 | 15.24 | 50.4 | 14.69 | 49.3 | 14.08 | 47.0 | 13.46 | 44.8 | 12.24 |
| | 10 | 61.6 | 53.7 | 13.52 | 51.8 | 13.22 | 50.4 | 12.81 | 49.3 | 12.38 | 47.0 | 11.77 | 44.8 | 10.76 |
| | | 77.0 | 53.9 | 13.58 | 51.9 | 13.27 | 50.4 | 12.85 | 49.3 | 12.40 | 47.0 | 11.78 | 44.8 | 10.78 |
| | | 154.0 | 54.4 | 13.83 | 52.2 | 13.43 | 50.4 | 13.00 | 49.3 | 12.46 | 47.0 | 11.83 | 44.8 | 10.83 |
| | | 192.5 | 54.8 | 13.78 | 52.4 | 13.43 | 50.4 | 12.96 | 49.3 | 12.43 | 47.0 | 11.80 | 44.8 | 10.78 |
| | | 231.0 | 54.9 | 13.76 | 52.5 | 13.43 | 50.4 | 12.95 | 49.3 | 12.41 | 47.0 | 11.78 | 44.8 | 10.75 |
| | 15 | 61.6 | 54.0 | 11.92 | 52.1 | 11.72 | 50.4 | 11.46 | 49.3 | 11.19 | 47.0 | 10.53 | 44.8 | 9.73 |
| | | 77.0 | 54.1 | 11.98 | 52.1 | 11.73 | 50.4 | 11.46 | 49.3 | 11.14 | 47.0 | 10.49 | 44.8 | 9.69 |
| | | 154.0 | 54.4 | 12.21 | 52.2 | 11.76 | 50.4 | 11.46 | 49.3 | 10.98 | 47.0 | 10.34 | 44.8 | 9.52 |
| | | 192.5 | 54.9 | 12.01 | 52.5 | 11.66 | 50.4 | 11.31 | 49.3 | 10.83 | 47.0 | 10.17 | 44.8 | 9.37 |
| | | 231.0 | 55.1 | 11.91 | 52.7 | 11.61 | 50.4 | 11.23 | 49.3 | 10.75 | 47.0 | 10.09 | 44.8 | 9.30 |
| | 20 | 61.6 | 54.3 | 10.19 | 52.3 | 9.93 | 50.4 | 9.69 | 49.3 | 9.56 | 47.0 | 8.93 | 44.8 | 8.49 |
| | | 77.0 | 54.5 | 10.24 | 52.4 | 9.94 | 50.4 | 9.69 | 49.3 | 9.52 | 47.0 | 8.89 | 44.8 | 8.40 |
| | | 154.0 | 55.3 | 10.43 | 52.5 | 9.97 | 50.4 | 9.69 | 49.3 | 9.37 | 47.0 | 8.72 | 44.8 | 8.07 |
| | | 192.5 | 55.7 | 10.24 | 53.0 | 9.89 | 50.4 | 9.52 | 49.3 | 9.21 | 47.0 | 8.55 | 44.8 | 7.92 |
| | | 231.0 | 55.8 | 10.15 | 53.2 | 9.85 | 50.4 | 9.44 | 49.3 | 9.12 | 47.0 | 8.47 | 44.8 | 7.84 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 61.6 | 55.0 | 8.91 | 53.2 | 8.63 | 50.4 | 8.28 | 49.3 | 7.96 | 47.0 | 7.48 | 44.8 | 6.78 |
| | | 77.0 | 55.2 | 8.92 | 53.2 | 8.59 | 50.4 | 8.24 | 49.3 | 7.92 | 47.0 | 7.43 | 44.8 | 6.78 |
| | | 154.0 | 56.0 | 8.95 | 53.2 | 8.40 | 50.4 | 8.07 | 49.3 | 7.75 | 47.0 | 7.27 | 44.8 | 6.78 |
| | | 192.5 | 56.3 | 8.75 | 53.2 | 8.34 | 50.4 | 7.92 | 49.3 | 7.58 | 47.0 | 7.27 | 44.8 | 6.62 |
| | | 231.0 | 56.4 | 8.65 | 53.2 | 8.30 | 50.4 | 7.84 | 49.3 | 7.50 | 47.0 | 7.27 | 44.8 | 6.53 |
| | 30 | 61.6 | 56.3 | 8.11 | 53.2 | 7.48 | 50.4 | 6.97 | 49.3 | 6.83 | 47.0 | 6.30 | 44.8 | 6.02 |
| | | 77.0 | 56.3 | 8.07 | 53.2 | 7.43 | 50.4 | 6.95 | 49.3 | 6.78 | 47.0 | 6.30 | 44.8 | 5.98 |
| | | 154.0 | 56.3 | 7.92 | 53.2 | 7.27 | 50.4 | 6.88 | 49.3 | 6.62 | 47.0 | 6.30 | 44.8 | 5.81 |
| | | 192.5 | 56.3 | 7.75 | 53.2 | 7.27 | 50.4 | 6.78 | 49.3 | 6.62 | 47.0 | 6.13 | 44.8 | 5.81 |
| | | 231.0 | 56.3 | 7.67 | 53.2 | 7.27 | 50.4 | 6.73 | 49.3 | 6.62 | 47.0 | 6.05 | 44.8 | 5.81 |
| | 35 | 61.6 | 56.3 | 7.52 | 53.2 | 6.86 | 50.4 | 6.15 | 49.3 | 6.02 | 47.0 | 5.68 | 44.8 | 5.20 |
| | | 77.0 | 56.3 | 7.43 | 53.2 | 6.78 | 50.4 | 6.13 | 49.3 | 5.98 | 47.0 | 5.65 | 44.8 | 5.16 |
| | | 154.0 | 56.3 | 7.10 | 53.2 | 6.47 | 50.4 | 6.06 | 49.3 | 5.81 | 47.0 | 5.50 | 44.8 | 5.01 |
| | | 192.5 | 56.3 | 7.10 | 53.2 | 6.47 | 50.4 | 5.98 | 49.3 | 5.81 | 47.0 | 5.50 | 44.8 | 5.01 |
| | | 231.0 | 56.3 | 7.10 | 53.2 | 6.47 | 50.4 | 5.94 | 49.3 | 5.81 | 47.0 | 5.50 | 44.8 | 5.01 |
| | 40 | 61.6 | 56.3 | 7.03 | 53.2 | 6.38 | 50.4 | 5.51 | 49.3 | 5.37 | 47.0 | 5.05 | 44.8 | 4.72 |
| | | 77.0 | 56.3 | 6.95 | 53.2 | 6.30 | 50.4 | 5.50 | 49.3 | 5.33 | 47.0 | 5.01 | 44.8 | 4.68 |
| | | 154.0 | 56.3 | 6.62 | 53.2 | 5.98 | 50.4 | 5.43 | 49.3 | 5.16 | 47.0 | 4.85 | 44.8 | 4.53 |
| | | 192.5 | 56.3 | 6.47 | 53.2 | 5.98 | 50.4 | 5.33 | 49.3 | 5.16 | 47.0 | 4.85 | 44.8 | 4.53 |
| | | 231.0 | 56.3 | 6.39 | 53.2 | 5.98 | 50.4 | 5.28 | 49.3 | 5.16 | 47.0 | 4.85 | 44.8 | 4.53 |
| | 45 | 61.6 | 56.3 | 6.55 | 53.2 | 5.89 | 50.4 | 4.86 | 49.3 | 4.72 | 47.0 | 4.40 | 44.8 | 4.23 |
| | | 77.0 | 56.3 | 6.47 | 53.2 | 5.81 | 50.4 | 4.85 | 49.3 | 4.68 | 47.0 | 4.36 | 44.8 | 4.19 |
| | | 154.0 | 56.3 | 6.13 | 53.2 | 5.50 | 50.4 | 4.78 | 49.3 | 4.53 | 47.0 | 4.19 | 44.8 | 4.04 |
| | | 192.5 | 56.3 | 5.81 | 53.2 | 5.50 | 50.4 | 4.68 | 49.3 | 4.53 | 47.0 | 4.19 | 44.8 | 4.04 |
| | | 231.0 | 56.3 | 5.65 | 53.2 | 5.50 | 50.4 | 4.63 | 49.3 | 4.53 | 47.0 | 4.19 | 44.8 | 4.04 |
| 90 | -5 | 61.6 | 19.1 | 9.54 | 18.5 | 8.69 | 18.0 | 7.63 | 17.9 | 7.27 | 17.7 | 7.01 | 17.4 | 6.29 |
| | | 77.0 | 19.8 | 9.71 | 19.2 | 8.85 | 18.6 | 7.80 | 18.5 | 7.43 | 18.3 | 7.17 | 18.0 | 6.43 |
| | | 154.0 | 22.4 | 10.36 | 21.7 | 9.51 | 21.1 | 8.47 | 20.9 | 8.07 | 20.8 | 7.79 | 20.3 | 6.98 |
| | | 192.5 | 24.8 | 11.01 | 24.0 | 10.17 | 23.3 | 9.14 | 23.1 | 8.70 | 22.9 | 8.39 | 22.5 | 7.53 |
| | | 231.0 | 25.9 | 11.34 | 25.1 | 10.51 | 24.4 | 9.48 | 24.2 | 9.02 | 24.0 | 8.69 | 23.6 | 7.81 |
| | 0 | 61.6 | 34.2 | 13.00 | 32.6 | 12.20 | 31.1 | 11.20 | 30.7 | 10.68 | 30.2 | 10.28 | 29.0 | 9.23 |
| | | 77.0 | 34.4 | 13.03 | 32.8 | 12.23 | 31.3 | 11.23 | 30.8 | 10.71 | 30.3 | 10.31 | 29.2 | 9.26 |
| | | 154.0 | 35.2 | 13.17 | 33.6 | 12.36 | 32.1 | 11.34 | 31.6 | 10.83 | 31.0 | 10.43 | 29.9 | 9.36 |
| | | 192.5 | 35.7 | 13.17 | 34.1 | 12.36 | 32.6 | 11.34 | 32.0 | 10.83 | 31.6 | 10.43 | 30.4 | 9.36 |
| | | 231.0 | 36.0 | 13.17 | 34.3 | 12.36 | 32.8 | 11.34 | 32.3 | 10.83 | 31.8 | 10.43 | 30.6 | 9.36 |
| | 5 | 61.6 | 48.3 | 13.95 | 46.8 | 13.17 | 45.3 | 12.19 | 44.4 | 11.62 | 42.4 | 11.18 | 40.4 | 10.04 |
| | | 77.0 | 48.4 | 14.02 | 46.7 | 13.23 | 45.3 | 12.25 | 44.4 | 11.68 | 42.4 | 11.24 | 40.4 | 10.09 |
| | | 154.0 | 48.6 | 14.27 | 46.6 | 13.48 | 45.3 | 12.48 | 44.4 | 11.91 | 42.4 | 11.48 | 40.4 | 10.29 |
| | | 192.5 | 48.9 | 14.35 | 46.7 | 13.57 | 45.3 | 12.58 | 44.4 | 12.00 | 42.4 | 11.56 | 40.4 | 10.37 |
| | | 231.0 | 49.0 | 14.39 | 46.8 | 13.61 | 45.3 | 12.63 | 44.4 | 12.04 | 42.4 | 11.60 | 40.4 | 10.42 |
| | 10 | 61.6 | 48.6 | 12.32 | 46.9 | 11.72 | 45.3 | 11.03 | 44.4 | 10.58 | 42.4 | 10.15 | 40.4 | 9.15 |
| | | 77.0 | 48.6 | 12.33 | 46.9 | 11.73 | 45.3 | 11.04 | 44.4 | 10.59 | 42.4 | 10.14 | 40.4 | 9.16 |
| | | 154.0 | 48.5 | 12.36 | 46.6 | 11.78 | 45.3 | 11.09 | 44.4 | 10.64 | 42.4 | 10.11 | 40.4 | 9.19 |
| | | 192.5 | 48.8 | 12.33 | 46.8 | 11.74 | 45.3 | 11.06 | 44.4 | 10.61 | 42.4 | 10.14 | 40.4 | 9.22 |
| | | 231.0 | 49.0 | 12.31 | 46.9 | 11.73 | 45.3 | 11.04 | 44.4 | 10.59 | 42.4 | 10.16 | 40.4 | 9.24 |
| | 15 | 61.6 | 48.8 | 10.67 | 47.1 | 10.28 | 45.3 | 9.90 | 44.4 | 9.56 | 42.4 | 9.12 | 40.4 | 8.28 |
| | | 77.0 | 48.8 | 10.63 | 47.0 | 10.24 | 45.3 | 9.86 | 44.4 | 9.52 | 42.4 | 9.04 | 40.4 | 8.24 |
| | | 154.0 | 48.4 | 10.46 | 46.7 | 10.07 | 45.3 | 9.69 | 44.4 | 9.37 | 42.4 | 8.72 | 40.4 | 8.07 |
| | | 192.5 | 48.8 | 10.31 | 46.8 | 9.92 | 45.3 | 9.52 | 44.4 | 9.21 | 42.4 | 8.72 | 40.4 | 8.07 |
| | | 231.0 | 48.9 | 10.23 | 46.9 | 9.85 | 45.3 | 9.44 | 44.4 | 9.12 | 42.4 | 8.72 | 40.4 | 8.07 |
| | 20 | 61.6 | 49.1 | 9.01 | 47.3 | 8.75 | 45.3 | 8.45 | 44.4 | 8.11 | 42.4 | 7.83 | 40.4 | 7.35 |
| | | 77.0 | 49.1 | 9.01 | 47.2 | 8.72 | 45.3 | 8.40 | 44.4 | 8.07 | 42.4 | 7.75 | 40.4 | 7.27 |
| | | 154.0 | 48.9 | 9.01 | 46.8 | 8.62 | 45.3 | 8.24 | 44.4 | 7.92 | 42.4 | 7.43 | 40.4 | 6.95 |
| | | 192.5 | 49.0 | 8.85 | 47.0 | 8.55 | 45.3 | 8.24 | 44.4 | 7.92 | 42.4 | 7.43 | 40.4 | 6.95 |
| | | 231.0 | 49.1 | 8.78 | 47.0 | 8.52 | 45.3 | 8.24 | 44.4 | 7.92 | 42.4 | 7.43 | 40.4 | 6.95 |
| | 25 | 61.6 | 50.0 | 7.87 | 47.9 | 7.45 | 45.3 | 7.14 | 44.4 | 6.78 | 42.4 | 6.51 | 40.4 | 6.02 |
| | | 77.0 | 50.1 | 7.85 | 47.9 | 7.43 | 45.3 | 7.10 | 44.4 | 6.78 | 42.4 | 6.47 | 40.4 | 5.98 |
| | | 154.0 | 50.5 | 7.79 | 47.9 | 7.37 | 45.3 | 6.95 | 44.4 | 6.78 | 42.4 | 6.30 | 40.4 | 5.81 |
| | | 192.5 | 50.7 | 7.58 | 47.9 | 7.20 | 45.3 | 6.95 | 44.4 | 6.62 | 42.4 | 6.30 | 40.4 | 5.81 |
| | | 231.0 | 50.8 | 7.48 | 47.9 | 7.12 | 45.3 | 6.95 | 44.4 | 6.53 | 42.4 | 6.30 | 40.4 | 5.81 |
| | 30 | 61.6 | 50.7 | 7.14 | 47.9 | 6.65 | 45.3 | 6.17 | 44.4 | 6.02 | 42.4 | 5.68 | 40.4 | 5.16 |
| | | 77.0 | 50.7 | 7.10 | 47.9 | 6.62 | 45.3 | 6.13 | 44.4 | 5.98 | 42.4 | 5.65 | 40.4 | 5.16 |
| | | 154.0 | 50.7 | 6.95 | 47.9 | 6.47 | 45.3 | 5.98 | 44.4 | 5.81 | 42.4 | 5.50 | 40.4 | 5.16 |
| | | 192.5 | 50.7 | 6.78 | 47.9 | 6.30 | 45.3 | 5.98 | 44.4 | 5.81 | 42.4 | 5.50 | 40.4 | 5.01 |
| | | 231.0 | 50.7 | 6.70 | 47.9 | 6.21 | 45.3 | 5.98 | 44.4 | 5.81 | 42.4 | 5.50 | 40.4 | 4.94 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 61.6 | 50.7 | 6.51 | 47.9 | 6.02 | 45.3 | 5.54 | 44.4 | 5.37 | 42.4 | 5.05 | 40.4 | 4.72 |
| | | 77.0 | 50.7 | 6.47 | 47.9 | 5.98 | 45.3 | 5.50 | 44.4 | 5.33 | 42.4 | 5.01 | 40.4 | 4.68 |
| | | 154.0 | 50.7 | 6.30 | 47.9 | 5.81 | 45.3 | 5.33 | 44.4 | 5.16 | 42.4 | 4.85 | 40.4 | 4.53 |
| | | 192.5 | 50.7 | 6.13 | 47.9 | 5.65 | 45.3 | 5.16 | 44.4 | 5.01 | 42.4 | 4.85 | 40.4 | 4.53 |
| | | 231.0 | 50.7 | 6.05 | 47.9 | 5.56 | 45.3 | 5.08 | 44.4 | 4.94 | 42.4 | 4.85 | 40.4 | 4.53 |
| | 40 | 61.6 | 50.7 | 6.07 | 47.9 | 5.54 | 45.3 | 4.89 | 44.4 | 4.72 | 42.4 | 4.57 | 40.4 | 4.23 |
| | | 77.0 | 50.7 | 5.98 | 47.9 | 5.50 | 45.3 | 4.85 | 44.4 | 4.68 | 42.4 | 4.53 | 40.4 | 4.19 |
| | | 154.0 | 50.7 | 5.65 | 47.9 | 5.33 | 45.3 | 4.68 | 44.4 | 4.53 | 42.4 | 4.36 | 40.4 | 4.04 |
| | | 192.5 | 50.7 | 5.65 | 47.9 | 5.33 | 45.3 | 4.68 | 44.4 | 4.53 | 42.4 | 4.36 | 40.4 | 4.04 |
| | | 231.0 | 50.7 | 5.65 | 47.9 | 5.33 | 45.3 | 4.68 | 44.4 | 4.53 | 42.4 | 4.36 | 40.4 | 4.04 |
| | 45 | 61.6 | 50.7 | 5.62 | 47.9 | 5.05 | 45.3 | 4.23 | 44.4 | 4.09 | 42.4 | 4.09 | 40.4 | 3.75 |
| | | 77.0 | 50.7 | 5.50 | 47.9 | 5.01 | 45.3 | 4.19 | 44.4 | 4.04 | 42.4 | 4.04 | 40.4 | 3.71 |
| | | 154.0 | 50.7 | 5.01 | 47.9 | 4.85 | 45.3 | 4.04 | 44.4 | 3.88 | 42.4 | 3.88 | 40.4 | 3.56 |
| | | 192.5 | 50.7 | 5.16 | 47.9 | 5.01 | 45.3 | 4.19 | 44.4 | 4.04 | 42.4 | 3.88 | 40.4 | 3.56 |
| | | 231.0 | 50.7 | 5.24 | 47.9 | 5.10 | 45.3 | 4.27 | 44.4 | 4.13 | 42.4 | 3.88 | 40.4 | 3.56 |
| 80 | -5 | 61.6 | 18.1 | 6.80 | 17.0 | 6.54 | 16.1 | 6.26 | 15.9 | 6.05 | 15.8 | 5.77 | 15.5 | 5.32 |
| | | 77.0 | 18.7 | 6.95 | 17.5 | 6.68 | 16.6 | 6.40 | 16.4 | 6.18 | 16.3 | 5.90 | 16.0 | 5.43 |
| | | 154.0 | 21.1 | 7.55 | 19.8 | 7.25 | 18.8 | 6.93 | 18.6 | 6.70 | 18.5 | 6.40 | 18.1 | 5.88 |
| | | 192.5 | 23.4 | 8.14 | 21.9 | 7.82 | 20.7 | 7.48 | 20.5 | 7.23 | 20.4 | 6.90 | 20.0 | 6.35 |
| | | 231.0 | 24.5 | 8.43 | 22.9 | 8.11 | 21.7 | 7.76 | 21.5 | 7.50 | 21.4 | 7.15 | 20.9 | 6.58 |
| | 0 | 61.6 | 32.3 | 9.98 | 29.8 | 9.58 | 27.7 | 9.18 | 27.2 | 8.86 | 26.8 | 8.45 | 25.8 | 7.78 |
| | | 77.0 | 32.5 | 10.01 | 30.0 | 9.61 | 27.9 | 9.21 | 27.4 | 8.89 | 27.0 | 8.47 | 26.0 | 7.80 |
| | | 154.0 | 33.3 | 10.12 | 30.7 | 9.72 | 28.6 | 9.31 | 28.0 | 8.99 | 27.7 | 8.57 | 26.6 | 7.89 |
| | | 192.5 | 33.8 | 10.12 | 31.1 | 9.72 | 29.0 | 9.31 | 28.5 | 8.99 | 28.1 | 8.57 | 27.0 | 7.89 |
| | | 231.0 | 34.0 | 10.12 | 31.4 | 9.72 | 29.3 | 9.31 | 28.7 | 8.99 | 28.3 | 8.57 | 27.2 | 7.89 |
| | 5 | 61.6 | 44.7 | 10.85 | 42.2 | 10.44 | 40.3 | 9.97 | 39.4 | 9.64 | 37.7 | 9.19 | 35.9 | 8.46 |
| | | 77.0 | 44.8 | 10.91 | 42.2 | 10.49 | 40.3 | 10.02 | 39.4 | 9.69 | 37.7 | 9.24 | 35.9 | 8.50 |
| | | 154.0 | 45.1 | 11.14 | 42.6 | 10.69 | 40.4 | 10.24 | 39.4 | 9.89 | 37.7 | 9.42 | 35.9 | 8.69 |
| | | 192.5 | 45.1 | 11.21 | 42.5 | 10.78 | 40.4 | 10.31 | 39.4 | 9.96 | 37.7 | 9.49 | 35.9 | 8.74 |
| | | 231.0 | 45.1 | 11.24 | 42.5 | 10.82 | 40.4 | 10.34 | 39.4 | 9.99 | 37.7 | 9.52 | 35.9 | 8.76 |
| | 10 | 61.6 | 44.9 | 9.99 | 42.3 | 9.54 | 40.3 | 9.05 | 39.4 | 8.80 | 37.7 | 8.33 | 35.9 | 7.71 |
| | | 77.0 | 45.0 | 9.97 | 42.4 | 9.52 | 40.3 | 9.06 | 39.4 | 8.80 | 37.7 | 8.34 | 35.9 | 7.72 |
| | | 154.0 | 45.1 | 9.92 | 42.6 | 9.47 | 40.4 | 9.07 | 39.4 | 8.82 | 37.7 | 8.35 | 35.9 | 7.74 |
| | | 192.5 | 45.1 | 9.89 | 42.5 | 9.51 | 40.4 | 9.11 | 39.4 | 8.77 | 37.7 | 8.30 | 35.9 | 7.69 |
| | | 231.0 | 45.1 | 9.87 | 42.5 | 9.52 | 40.4 | 9.12 | 39.4 | 8.75 | 37.7 | 8.28 | 35.9 | 7.66 |
| | 15 | 61.6 | 45.1 | 9.12 | 42.5 | 8.63 | 40.4 | 8.11 | 39.4 | 7.96 | 37.7 | 7.48 | 35.9 | 6.99 |
| | | 77.0 | 45.1 | 9.04 | 42.5 | 8.55 | 40.4 | 8.07 | 39.4 | 7.92 | 37.7 | 7.43 | 35.9 | 6.95 |
| | | 154.0 | 45.1 | 8.72 | 42.5 | 8.24 | 40.4 | 7.92 | 39.4 | 7.75 | 37.7 | 7.27 | 35.9 | 6.78 |
| | | 192.5 | 45.1 | 8.55 | 42.5 | 8.24 | 40.4 | 7.92 | 39.4 | 7.58 | 37.7 | 7.10 | 35.9 | 6.62 |
| | | 231.0 | 45.1 | 8.47 | 42.5 | 8.24 | 40.4 | 7.92 | 39.4 | 7.50 | 37.7 | 7.02 | 35.9 | 6.53 |
| | 20 | 61.6 | 45.1 | 7.62 | 42.5 | 7.31 | 40.4 | 6.95 | 39.4 | 6.83 | 37.7 | 6.51 | 35.9 | 6.02 |
| | | 77.0 | 45.1 | 7.58 | 42.5 | 7.27 | 40.4 | 6.95 | 39.4 | 6.78 | 37.7 | 6.47 | 35.9 | 5.98 |
| | | 154.0 | 45.1 | 7.43 | 42.5 | 7.10 | 40.4 | 6.95 | 39.4 | 6.62 | 37.7 | 6.30 | 35.9 | 5.81 |
| | | 192.5 | 45.1 | 7.27 | 42.5 | 6.95 | 40.4 | 6.78 | 39.4 | 6.62 | 37.7 | 6.13 | 35.9 | 5.81 |
| | | 231.0 | 45.1 | 7.18 | 42.5 | 6.87 | 40.4 | 6.70 | 39.4 | 6.62 | 37.7 | 6.05 | 35.9 | 5.81 |
| | 25 | 61.6 | 45.1 | 6.83 | 42.5 | 6.34 | 40.4 | 5.98 | 39.4 | 5.86 | 37.7 | 5.54 | 35.9 | 5.20 |
| | | 77.0 | 45.1 | 6.78 | 42.5 | 6.30 | 40.4 | 5.98 | 39.4 | 5.81 | 37.7 | 5.50 | 35.9 | 5.16 |
| | | 154.0 | 45.1 | 6.62 | 42.5 | 6.13 | 40.4 | 5.98 | 39.4 | 5.65 | 37.7 | 5.33 | 35.9 | 5.01 |
| | | 192.5 | 45.1 | 6.47 | 42.5 | 6.13 | 40.4 | 5.81 | 39.4 | 5.65 | 37.7 | 5.33 | 35.9 | 5.01 |
| | | 231.0 | 45.1 | 6.39 | 42.5 | 6.13 | 40.4 | 5.73 | 39.4 | 5.65 | 37.7 | 5.33 | 35.9 | 5.01 |
| | 30 | 61.6 | 45.1 | 6.02 | 42.5 | 5.68 | 40.4 | 5.37 | 39.4 | 5.20 | 37.7 | 4.89 | 35.9 | 4.57 |
| | | 77.0 | 45.1 | 5.98 | 42.5 | 5.65 | 40.4 | 5.33 | 39.4 | 5.16 | 37.7 | 4.85 | 35.9 | 4.53 |
| | | 154.0 | 45.1 | 5.81 | 42.5 | 5.50 | 40.4 | 5.16 | 39.4 | 5.01 | 37.7 | 4.68 | 35.9 | 4.36 |
| | | 192.5 | 45.1 | 5.81 | 42.5 | 5.50 | 40.4 | 5.16 | 39.4 | 5.01 | 37.7 | 4.68 | 35.9 | 4.36 |
| | | 231.0 | 45.1 | 5.81 | 42.5 | 5.50 | 40.4 | 5.16 | 39.4 | 5.01 | 37.7 | 4.68 | 35.9 | 4.36 |
| | 35 | 61.6 | 45.1 | 5.54 | 42.5 | 5.20 | 40.4 | 4.72 | 39.4 | 4.53 | 37.7 | 4.40 | 35.9 | 4.04 |
| | | 77.0 | 45.1 | 5.50 | 42.5 | 5.16 | 40.4 | 4.68 | 39.4 | 4.53 | 37.7 | 4.36 | 35.9 | 4.04 |
| | | 154.0 | 45.1 | 5.33 | 42.5 | 5.01 | 40.4 | 4.53 | 39.4 | 4.53 | 37.7 | 4.19 | 35.9 | 4.04 |
| | | 192.5 | 45.1 | 5.33 | 42.5 | 4.85 | 40.4 | 4.53 | 39.4 | 4.36 | 37.7 | 4.19 | 35.9 | 3.88 |
| | | 231.0 | 45.1 | 5.33 | 42.5 | 4.76 | 40.4 | 4.53 | 39.4 | 4.28 | 37.7 | 4.19 | 35.9 | 3.79 |
| | 40 | 61.6 | 45.1 | 5.24 | 42.5 | 4.72 | 40.4 | 4.19 | 39.4 | 4.23 | 37.7 | 3.88 | 35.9 | 3.75 |
| | | 77.0 | 45.1 | 5.16 | 42.5 | 4.68 | 40.4 | 4.19 | 39.4 | 4.19 | 37.7 | 3.88 | 35.9 | 3.71 |
| | | 154.0 | 45.1 | 4.85 | 42.5 | 4.53 | 40.4 | 4.19 | 39.4 | 4.04 | 37.7 | 3.88 | 35.9 | 3.56 |
| | | 192.5 | 45.1 | 4.85 | 42.5 | 4.53 | 40.4 | 4.04 | 39.4 | 4.04 | 37.7 | 3.88 | 35.9 | 3.56 |
| | | 231.0 | 45.1 | 4.85 | 42.5 | 4.53 | 40.4 | 3.97 | 39.4 | 4.04 | 37.7 | 3.88 | 35.9 | 3.56 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Heating Capacity(16HP)

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 61.6 | 45.1 | 4.97 | 42.5 | 4.23 | 40.4 | 3.67 | 39.4 | 3.96 | 37.7 | 3.35 | 35.9 | 3.47 |
| | | 77.0 | 45.1 | 4.85 | 42.5 | 4.19 | 40.4 | 3.71 | 39.4 | 3.88 | 37.7 | 3.39 | 35.9 | 3.39 |
| | | 154.0 | 45.1 | 4.36 | 42.5 | 4.04 | 40.4 | 3.88 | 39.4 | 3.56 | 37.7 | 3.56 | 35.9 | 3.07 |
| | | 192.5 | 45.1 | 4.36 | 42.5 | 4.19 | 40.4 | 3.56 | 39.4 | 3.71 | 37.7 | 3.56 | 35.9 | 3.22 |
| | | 231.0 | 45.1 | 4.36 | 42.5 | 4.27 | 40.4 | 3.40 | 39.4 | 3.78 | 37.7 | 3.56 | 35.9 | 3.30 |
| 70 | -5 | 61.6 | 15.8 | 5.84 | 14.8 | 5.56 | 14.0 | 5.38 | 13.9 | 5.07 | 13.8 | 4.89 | 13.6 | 4.45 |
| | | 77.0 | 16.3 | 5.96 | 15.3 | 5.68 | 14.5 | 5.50 | 14.3 | 5.18 | 14.3 | 5.00 | 14.0 | 4.54 |
| | | 154.0 | 18.5 | 6.47 | 17.3 | 6.16 | 16.4 | 5.96 | 16.2 | 5.61 | 16.1 | 5.41 | 15.8 | 4.93 |
| | | 192.5 | 20.4 | 6.98 | 19.2 | 6.65 | 18.1 | 6.43 | 18.0 | 6.05 | 17.8 | 5.85 | 17.5 | 5.31 |
| | | 231.0 | 21.4 | 7.24 | 20.1 | 6.89 | 19.0 | 6.67 | 18.8 | 6.27 | 18.7 | 6.07 | 18.3 | 5.51 |
| | 0 | 61.6 | 28.2 | 8.55 | 26.1 | 8.15 | 24.2 | 7.88 | 23.8 | 7.41 | 23.4 | 7.16 | 22.6 | 6.52 |
| | | 77.0 | 28.4 | 8.57 | 26.3 | 8.17 | 24.4 | 7.90 | 24.0 | 7.43 | 23.6 | 7.18 | 22.7 | 6.53 |
| | | 154.0 | 29.1 | 8.67 | 26.9 | 8.25 | 24.9 | 8.00 | 24.5 | 7.52 | 24.1 | 7.27 | 23.3 | 6.60 |
| | | 192.5 | 29.5 | 8.67 | 27.3 | 8.25 | 25.3 | 8.00 | 24.9 | 7.52 | 24.5 | 7.27 | 23.6 | 6.60 |
| | | 231.0 | 29.7 | 8.67 | 27.5 | 8.25 | 25.5 | 8.00 | 25.1 | 7.52 | 24.7 | 7.27 | 23.8 | 6.60 |
| | 5 | 61.6 | 39.0 | 9.31 | 37.0 | 8.86 | 35.2 | 8.57 | 34.5 | 8.08 | 32.9 | 7.79 | 31.4 | 7.08 |
| | | 77.0 | 39.1 | 9.36 | 37.0 | 8.90 | 35.2 | 8.62 | 34.5 | 8.12 | 32.9 | 7.84 | 31.4 | 7.12 |
| | | 154.0 | 39.4 | 9.54 | 37.3 | 9.09 | 35.3 | 8.80 | 34.5 | 8.27 | 32.9 | 8.00 | 31.4 | 7.27 |
| | | 192.5 | 39.4 | 9.61 | 37.3 | 9.16 | 35.3 | 8.87 | 34.5 | 8.34 | 32.9 | 8.05 | 31.4 | 7.32 |
| | | 231.0 | 39.4 | 9.64 | 37.2 | 9.19 | 35.3 | 8.91 | 34.5 | 8.37 | 32.9 | 8.08 | 31.4 | 7.34 |
| | 10 | 61.6 | 39.2 | 8.57 | 37.1 | 8.10 | 35.3 | 7.80 | 34.5 | 7.37 | 32.9 | 7.07 | 31.4 | 6.47 |
| | | 77.0 | 39.2 | 8.55 | 37.1 | 8.09 | 35.3 | 7.79 | 34.5 | 7.37 | 32.9 | 7.07 | 31.4 | 6.47 |
| | | 154.0 | 39.4 | 8.49 | 37.3 | 8.02 | 35.3 | 7.72 | 34.5 | 7.37 | 32.9 | 7.07 | 31.4 | 6.47 |
| | | 192.5 | 39.4 | 8.52 | 37.3 | 8.05 | 35.3 | 7.75 | 34.5 | 7.40 | 32.9 | 7.02 | 31.4 | 6.48 |
| | | 231.0 | 39.4 | 8.54 | 37.3 | 8.07 | 35.3 | 7.77 | 34.5 | 7.42 | 32.9 | 6.99 | 31.4 | 6.49 |
| | 15 | 61.6 | 39.4 | 7.83 | 37.3 | 7.35 | 35.3 | 7.03 | 34.5 | 6.65 | 32.9 | 6.34 | 31.4 | 5.86 |
| | | 77.0 | 39.4 | 7.75 | 37.3 | 7.27 | 35.3 | 6.95 | 34.5 | 6.62 | 32.9 | 6.30 | 31.4 | 5.81 |
| | | 154.0 | 39.4 | 7.43 | 37.3 | 6.95 | 35.3 | 6.62 | 34.5 | 6.47 | 32.9 | 6.13 | 31.4 | 5.65 |
| | | 192.5 | 39.4 | 7.43 | 37.3 | 6.95 | 35.3 | 6.62 | 34.5 | 6.47 | 32.9 | 5.98 | 31.4 | 5.65 |
| | | 231.0 | 39.4 | 7.43 | 37.3 | 6.95 | 35.3 | 6.62 | 34.5 | 6.47 | 32.9 | 5.91 | 31.4 | 5.65 |
| | 20 | 61.6 | 39.4 | 6.51 | 37.3 | 6.17 | 35.3 | 6.02 | 34.5 | 5.86 | 32.9 | 5.54 | 31.4 | 5.20 |
| | | 77.0 | 39.4 | 6.47 | 37.3 | 6.13 | 35.3 | 5.98 | 34.5 | 5.81 | 32.9 | 5.50 | 31.4 | 5.16 |
| | | 154.0 | 39.4 | 6.30 | 37.3 | 5.98 | 35.3 | 5.81 | 34.5 | 5.65 | 32.9 | 5.33 | 31.4 | 5.01 |
| | | 192.5 | 39.4 | 6.30 | 37.3 | 5.98 | 35.3 | 5.81 | 34.5 | 5.50 | 32.9 | 5.33 | 31.4 | 4.85 |
| | | 231.0 | 39.4 | 6.30 | 37.3 | 5.98 | 35.3 | 5.81 | 34.5 | 5.42 | 32.9 | 5.33 | 31.4 | 4.76 |
| | 25 | 61.6 | 39.4 | 5.86 | 37.3 | 5.54 | 35.3 | 5.20 | 34.5 | 5.05 | 32.9 | 4.68 | 31.4 | 4.36 |
| | | 77.0 | 39.4 | 5.81 | 37.3 | 5.50 | 35.3 | 5.16 | 34.5 | 5.01 | 32.9 | 4.68 | 31.4 | 4.36 |
| | | 154.0 | 39.4 | 5.65 | 37.3 | 5.33 | 35.3 | 5.01 | 34.5 | 4.85 | 32.9 | 4.68 | 31.4 | 4.36 |
| | | 192.5 | 39.4 | 5.50 | 37.3 | 5.16 | 35.3 | 5.01 | 34.5 | 4.85 | 32.9 | 4.53 | 31.4 | 4.36 |
| | | 231.0 | 39.4 | 5.42 | 37.3 | 5.08 | 35.3 | 5.01 | 34.5 | 4.85 | 32.9 | 4.45 | 31.4 | 4.36 |
| | 30 | 61.6 | 39.4 | 5.20 | 37.3 | 4.89 | 35.3 | 4.57 | 34.5 | 4.36 | 32.9 | 4.23 | 31.4 | 3.88 |
| | | 77.0 | 39.4 | 5.16 | 37.3 | 4.85 | 35.3 | 4.53 | 34.5 | 4.36 | 32.9 | 4.19 | 31.4 | 3.88 |
| | | 154.0 | 39.4 | 5.01 | 37.3 | 4.68 | 35.3 | 4.36 | 34.5 | 4.36 | 32.9 | 4.04 | 31.4 | 3.88 |
| | | 192.5 | 39.4 | 5.01 | 37.3 | 4.68 | 35.3 | 4.36 | 34.5 | 4.19 | 32.9 | 4.04 | 31.4 | 3.88 |
| | | 231.0 | 39.4 | 5.01 | 37.3 | 4.68 | 35.3 | 4.36 | 34.5 | 4.11 | 32.9 | 4.04 | 31.4 | 3.88 |
| | 35 | 61.6 | 39.4 | 4.72 | 37.3 | 4.40 | 35.3 | 4.04 | 34.5 | 4.09 | 32.9 | 3.71 | 31.4 | 3.60 |
| | | 77.0 | 39.4 | 4.68 | 37.3 | 4.36 | 35.3 | 4.04 | 34.5 | 4.04 | 32.9 | 3.71 | 31.4 | 3.56 |
| | | 154.0 | 39.4 | 4.53 | 37.3 | 4.19 | 35.3 | 4.04 | 34.5 | 3.88 | 32.9 | 3.71 | 31.4 | 3.39 |
| | | 192.5 | 39.4 | 4.53 | 37.3 | 4.19 | 35.3 | 3.88 | 34.5 | 3.88 | 32.9 | 3.71 | 31.4 | 3.39 |
| | | 231.0 | 39.4 | 4.53 | 37.3 | 4.19 | 35.3 | 3.79 | 34.5 | 3.88 | 32.9 | 3.71 | 31.4 | 3.39 |
| | 40 | 61.6 | 39.4 | 4.40 | 37.3 | 4.09 | 35.3 | 3.75 | 34.5 | 3.56 | 32.9 | 3.39 | 31.4 | 3.26 |
| | | 77.0 | 39.4 | 4.36 | 37.3 | 4.04 | 35.3 | 3.71 | 34.5 | 3.56 | 32.9 | 3.39 | 31.4 | 3.22 |
| | | 154.0 | 39.4 | 4.19 | 37.3 | 3.88 | 35.3 | 3.56 | 34.5 | 3.56 | 32.9 | 3.39 | 31.4 | 3.07 |
| | | 192.5 | 39.4 | 4.19 | 37.3 | 3.88 | 35.3 | 3.56 | 34.5 | 3.39 | 32.9 | 3.22 | 31.4 | 3.07 |
| | | 231.0 | 39.4 | 4.19 | 37.3 | 3.88 | 35.3 | 3.56 | 34.5 | 3.31 | 32.9 | 3.14 | 31.4 | 3.07 |
| | 45 | 61.6 | 39.4 | 4.09 | 37.3 | 3.75 | 35.3 | 3.47 | 34.5 | 3.04 | 32.9 | 3.07 | 31.4 | 2.95 |
| | | 77.0 | 39.4 | 4.04 | 37.3 | 3.71 | 35.3 | 3.39 | 34.5 | 3.07 | 32.9 | 3.07 | 31.4 | 2.91 |
| | | 154.0 | 39.4 | 3.88 | 37.3 | 3.56 | 35.3 | 3.07 | 34.5 | 3.22 | 32.9 | 3.07 | 31.4 | 2.74 |
| | | 192.5 | 39.4 | 3.88 | 37.3 | 3.56 | 35.3 | 3.22 | 34.5 | 2.91 | 32.9 | 2.74 | 31.4 | 2.74 |
| | | 231.0 | 39.4 | 3.88 | 37.3 | 3.56 | 35.3 | 3.30 | 34.5 | 2.75 | 32.9 | 2.57 | 31.4 | 2.74 |
| 60 | -5 | 61.6 | 13.5 | 4.74 | 12.7 | 4.56 | 12.0 | 4.38 | 11.9 | 4.07 | 11.8 | 4.00 | 11.6 | 3.58 |
| | | 77.0 | 14.0 | 4.85 | 13.1 | 4.66 | 12.4 | 4.48 | 12.3 | 4.16 | 12.2 | 4.09 | 12.0 | 3.66 |
| | | 154.0 | 15.9 | 5.26 | 14.9 | 5.06 | 14.1 | 4.86 | 13.9 | 4.51 | 13.9 | 4.44 | 13.6 | 3.98 |
| | | 192.5 | 17.5 | 5.66 | 16.4 | 5.46 | 15.6 | 5.25 | 15.4 | 4.88 | 15.3 | 4.79 | 15.0 | 4.28 |
| | | 231.0 | 18.4 | 5.87 | 17.2 | 5.67 | 16.3 | 5.44 | 16.1 | 5.06 | 16.1 | 4.97 | 15.7 | 4.43 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Heating Capacity(16HP)

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 61.6 | 24.2 | 6.95 | 22.3 | 6.70 | 20.8 | 6.41 | 20.4 | 5.96 | 20.1 | 5.88 | 19.4 | 5.25 |
| | | 77.0 | 24.4 | 6.97 | 22.5 | 6.72 | 21.0 | 6.43 | 20.5 | 5.98 | 20.3 | 5.90 | 19.5 | 5.26 |
| | | 154.0 | 24.9 | 7.05 | 23.0 | 6.78 | 21.5 | 6.52 | 21.0 | 6.05 | 20.7 | 5.96 | 19.9 | 5.31 |
| | | 192.5 | 25.3 | 7.05 | 23.3 | 6.78 | 21.8 | 6.52 | 21.3 | 6.05 | 21.1 | 5.96 | 20.3 | 5.31 |
| | | 231.0 | 25.5 | 7.05 | 23.5 | 6.78 | 22.0 | 6.52 | 21.5 | 6.05 | 21.2 | 5.96 | 20.4 | 5.31 |
| | 5 | 61.6 | 33.5 | 7.56 | 31.6 | 7.28 | 30.3 | 6.98 | 29.5 | 6.50 | 28.3 | 6.40 | 26.9 | 5.70 |
| | | 77.0 | 33.6 | 7.60 | 31.6 | 7.32 | 30.3 | 7.02 | 29.5 | 6.53 | 28.3 | 6.43 | 26.9 | 5.73 |
| | | 154.0 | 33.9 | 7.75 | 31.9 | 7.47 | 30.3 | 7.17 | 29.5 | 6.67 | 28.3 | 6.57 | 26.9 | 5.85 |
| | | 192.5 | 33.9 | 7.82 | 31.8 | 7.52 | 30.3 | 7.22 | 29.5 | 6.72 | 28.3 | 6.60 | 26.9 | 5.90 |
| | | 231.0 | 33.9 | 7.85 | 31.8 | 7.54 | 30.3 | 7.24 | 29.5 | 6.74 | 28.3 | 6.62 | 26.9 | 5.92 |
| | 10 | 61.6 | 33.7 | 6.95 | 31.7 | 6.65 | 30.3 | 6.33 | 29.5 | 5.91 | 28.3 | 5.80 | 26.9 | 5.20 |
| | | 77.0 | 33.7 | 6.95 | 31.7 | 6.65 | 30.3 | 6.33 | 29.5 | 5.93 | 28.3 | 5.80 | 26.9 | 5.21 |
| | | 154.0 | 33.9 | 6.95 | 31.9 | 6.65 | 30.3 | 6.33 | 29.5 | 6.00 | 28.3 | 5.78 | 26.9 | 5.26 |
| | | 192.5 | 33.9 | 6.97 | 31.8 | 6.58 | 30.3 | 6.27 | 29.5 | 5.93 | 28.3 | 5.73 | 26.9 | 5.21 |
| | | 231.0 | 33.9 | 6.98 | 31.8 | 6.55 | 30.3 | 6.23 | 29.5 | 5.90 | 28.3 | 5.71 | 26.9 | 5.19 |
| | 15 | 61.6 | 33.9 | 6.34 | 31.8 | 6.02 | 30.3 | 5.68 | 29.5 | 5.33 | 28.3 | 5.20 | 26.9 | 4.68 |
| | | 77.0 | 33.9 | 6.30 | 31.8 | 5.98 | 30.3 | 5.65 | 29.5 | 5.33 | 28.3 | 5.16 | 26.9 | 4.68 |
| | | 154.0 | 33.9 | 6.13 | 31.8 | 5.81 | 30.3 | 5.50 | 29.5 | 5.33 | 28.3 | 5.01 | 26.9 | 4.68 |
| | | 192.5 | 33.9 | 6.13 | 31.8 | 5.65 | 30.3 | 5.33 | 29.5 | 5.16 | 28.3 | 4.85 | 26.9 | 4.53 |
| | | 231.0 | 33.9 | 6.13 | 31.8 | 5.56 | 30.3 | 5.25 | 29.5 | 5.08 | 28.3 | 4.76 | 26.9 | 4.45 |
| | 20 | 61.6 | 33.9 | 5.54 | 31.8 | 5.20 | 30.3 | 4.89 | 29.5 | 4.72 | 28.3 | 4.57 | 26.9 | 4.23 |
| | | 77.0 | 33.9 | 5.50 | 31.8 | 5.16 | 30.3 | 4.85 | 29.5 | 4.68 | 28.3 | 4.53 | 26.9 | 4.19 |
| | | 154.0 | 33.9 | 5.33 | 31.8 | 5.01 | 30.3 | 4.68 | 29.5 | 4.53 | 28.3 | 4.36 | 26.9 | 4.04 |
| | | 192.5 | 33.9 | 5.33 | 31.8 | 5.01 | 30.3 | 4.68 | 29.5 | 4.53 | 28.3 | 4.36 | 26.9 | 4.04 |
| | | 231.0 | 33.9 | 5.33 | 31.8 | 5.01 | 30.3 | 4.68 | 29.5 | 4.53 | 28.3 | 4.36 | 26.9 | 4.04 |
| | 25 | 61.6 | 33.9 | 4.89 | 31.8 | 4.57 | 30.3 | 4.19 | 29.5 | 4.23 | 28.3 | 3.88 | 26.9 | 3.75 |
| | | 77.0 | 33.9 | 4.85 | 31.8 | 4.53 | 30.3 | 4.19 | 29.5 | 4.19 | 28.3 | 3.88 | 26.9 | 3.71 |
| | | 154.0 | 33.9 | 4.68 | 31.8 | 4.36 | 30.3 | 4.19 | 29.5 | 4.04 | 28.3 | 3.88 | 26.9 | 3.56 |
| | | 192.5 | 33.9 | 4.68 | 31.8 | 4.36 | 30.3 | 4.04 | 29.5 | 4.04 | 28.3 | 3.88 | 26.9 | 3.56 |
| | | 231.0 | 33.9 | 4.68 | 31.8 | 4.36 | 30.3 | 3.97 | 29.5 | 4.04 | 28.3 | 3.88 | 26.9 | 3.56 |
| | 30 | 61.6 | 33.9 | 4.40 | 31.8 | 4.09 | 30.3 | 3.92 | 29.5 | 3.75 | 28.3 | 3.60 | 26.9 | 3.43 |
| | | 77.0 | 33.9 | 4.36 | 31.8 | 4.04 | 30.3 | 3.88 | 29.5 | 3.71 | 28.3 | 3.56 | 26.9 | 3.39 |
| | | 154.0 | 33.9 | 4.19 | 31.8 | 3.88 | 30.3 | 3.71 | 29.5 | 3.56 | 28.3 | 3.39 | 26.9 | 3.22 |
| | | 192.5 | 33.9 | 4.19 | 31.8 | 3.88 | 30.3 | 3.71 | 29.5 | 3.56 | 28.3 | 3.39 | 26.9 | 3.22 |
| | | 231.0 | 33.9 | 4.19 | 31.8 | 3.88 | 30.3 | 3.71 | 29.5 | 3.56 | 28.3 | 3.39 | 26.9 | 3.22 |
| | 35 | 61.6 | 33.9 | 3.88 | 31.8 | 3.75 | 30.3 | 3.39 | 29.5 | 3.43 | 28.3 | 3.26 | 26.9 | 3.12 |
| | | 77.0 | 33.9 | 3.88 | 31.8 | 3.71 | 30.3 | 3.39 | 29.5 | 3.39 | 28.3 | 3.22 | 26.9 | 3.07 |
| | | 154.0 | 33.9 | 3.88 | 31.8 | 3.56 | 30.3 | 3.39 | 29.5 | 3.22 | 28.3 | 3.07 | 26.9 | 2.91 |
| | | 192.5 | 33.9 | 3.88 | 31.8 | 3.56 | 30.3 | 3.22 | 29.5 | 3.22 | 28.3 | 3.07 | 26.9 | 2.91 |
| | | 231.0 | 33.9 | 3.88 | 31.8 | 3.56 | 30.3 | 3.14 | 29.5 | 3.22 | 28.3 | 3.07 | 26.9 | 2.91 |
| | 40 | 61.6 | 33.9 | 3.56 | 31.8 | 3.43 | 30.3 | 3.07 | 29.5 | 3.12 | 28.3 | 2.95 | 26.9 | 2.74 |
| | | 77.0 | 33.9 | 3.56 | 31.8 | 3.39 | 30.3 | 3.07 | 29.5 | 3.07 | 28.3 | 2.91 | 26.9 | 2.74 |
| | | 154.0 | 33.9 | 3.56 | 31.8 | 3.22 | 30.3 | 3.07 | 29.5 | 2.91 | 28.3 | 2.74 | 26.9 | 2.74 |
| | | 192.5 | 33.9 | 3.56 | 31.8 | 3.22 | 30.3 | 3.07 | 29.5 | 2.91 | 28.3 | 2.74 | 26.9 | 2.74 |
| | | 231.0 | 33.9 | 3.56 | 31.8 | 3.22 | 30.3 | 3.07 | 29.5 | 2.91 | 28.3 | 2.74 | 26.9 | 2.74 |
| | 45 | 61.6 | 33.9 | 3.22 | 31.8 | 3.12 | 30.3 | 2.74 | 29.5 | 2.78 | 28.3 | 2.63 | 26.9 | 2.38 |
| | | 77.0 | 33.9 | 3.22 | 31.8 | 3.07 | 30.3 | 2.74 | 29.5 | 2.74 | 28.3 | 2.59 | 26.9 | 2.42 |
| | | 154.0 | 33.9 | 3.22 | 31.8 | 2.91 | 30.3 | 2.74 | 29.5 | 2.59 | 28.3 | 2.42 | 26.9 | 2.59 |
| | | 192.5 | 33.9 | 3.22 | 31.8 | 2.91 | 30.3 | 2.91 | 29.5 | 2.59 | 28.3 | 2.42 | 26.9 | 2.59 |
| | | 231.0 | 33.9 | 3.22 | 31.8 | 2.91 | 30.3 | 2.99 | 29.5 | 2.59 | 28.3 | 2.42 | 26.9 | 2.59 |
| 50 | -5 | 61.6 | 11.3 | 3.78 | 10.6 | 3.58 | 10.0 | 3.39 | 9.9 | 3.20 | 9.8 | 3.01 | 9.7 | 2.85 |
| | | 77.0 | 11.7 | 3.86 | 11.0 | 3.66 | 10.4 | 3.46 | 10.2 | 3.27 | 10.2 | 3.07 | 10.0 | 2.91 |
| | | 154.0 | 13.2 | 4.18 | 12.4 | 3.98 | 11.7 | 3.74 | 11.6 | 3.56 | 11.5 | 3.34 | 11.3 | 3.14 |
| | | 192.5 | 14.6 | 4.51 | 13.7 | 4.28 | 12.9 | 4.04 | 12.8 | 3.84 | 12.7 | 3.59 | 12.5 | 3.39 |
| | | 231.0 | 15.3 | 4.68 | 14.4 | 4.43 | 13.6 | 4.19 | 13.4 | 3.99 | 13.3 | 3.72 | 13.1 | 3.52 |
| | 0 | 61.6 | 20.1 | 5.53 | 18.6 | 5.25 | 17.3 | 4.95 | 17.0 | 4.69 | 16.7 | 4.41 | 16.1 | 4.16 |
| | | 77.0 | 20.3 | 5.55 | 18.8 | 5.26 | 17.4 | 4.96 | 17.1 | 4.71 | 16.8 | 4.43 | 16.2 | 4.18 |
| | | 154.0 | 20.7 | 5.60 | 19.2 | 5.31 | 17.9 | 5.03 | 17.5 | 4.78 | 17.3 | 4.48 | 16.6 | 4.23 |
| | | 192.5 | 21.1 | 5.60 | 19.5 | 5.31 | 18.1 | 5.03 | 17.8 | 4.78 | 17.5 | 4.48 | 16.9 | 4.23 |
| | | 231.0 | 21.2 | 5.60 | 19.6 | 5.31 | 18.2 | 5.03 | 17.9 | 4.78 | 17.6 | 4.48 | 17.0 | 4.23 |
| | 5 | 61.6 | 27.8 | 6.02 | 26.4 | 5.70 | 25.2 | 5.38 | 24.6 | 5.12 | 23.5 | 4.81 | 22.4 | 4.52 |
| | | 77.0 | 27.9 | 6.05 | 26.4 | 5.73 | 25.2 | 5.41 | 24.6 | 5.15 | 23.5 | 4.83 | 22.4 | 4.54 |
| | | 154.0 | 28.1 | 6.16 | 26.6 | 5.85 | 25.2 | 5.53 | 24.6 | 5.25 | 23.5 | 4.91 | 22.4 | 4.64 |
| | | 192.5 | 28.1 | 6.21 | 26.6 | 5.90 | 25.2 | 5.56 | 24.6 | 5.28 | 23.5 | 4.96 | 22.4 | 4.68 |
| | | 231.0 | 28.1 | 6.24 | 26.6 | 5.92 | 25.2 | 5.58 | 24.6 | 5.30 | 23.5 | 4.99 | 22.4 | 4.69 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(16HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 61.6 | 28.0 | 5.54 | 26.5 | 5.22 | 25.2 | 4.90 | 24.6 | 4.69 | 23.5 | 4.33 | 22.4 | 4.14 |
| | | 77.0 | 28.0 | 5.53 | 26.5 | 5.21 | 25.2 | 4.90 | 24.6 | 4.68 | 23.5 | 4.34 | 22.4 | 4.13 |
| | | 154.0 | 28.1 | 5.50 | 26.6 | 5.20 | 25.2 | 4.86 | 24.6 | 4.64 | 23.5 | 4.39 | 22.4 | 4.09 |
| | | 192.5 | 28.1 | 5.53 | 26.6 | 5.21 | 25.2 | 4.88 | 24.6 | 4.66 | 23.5 | 4.33 | 22.4 | 4.11 |
| | | 231.0 | 28.1 | 5.55 | 26.6 | 5.22 | 25.2 | 4.89 | 24.6 | 4.67 | 23.5 | 4.29 | 22.4 | 4.12 |
| | 15 | 61.6 | 28.1 | 5.05 | 26.6 | 4.72 | 25.2 | 4.40 | 24.6 | 4.23 | 23.5 | 3.88 | 22.4 | 3.75 |
| | | 77.0 | 28.1 | 5.01 | 26.6 | 4.68 | 25.2 | 4.36 | 24.6 | 4.19 | 23.5 | 3.88 | 22.4 | 3.71 |
| | | 154.0 | 28.1 | 4.85 | 26.6 | 4.53 | 25.2 | 4.19 | 24.6 | 4.04 | 23.5 | 3.88 | 22.4 | 3.56 |
| | | 192.5 | 28.1 | 4.85 | 26.6 | 4.53 | 25.2 | 4.19 | 24.6 | 4.04 | 23.5 | 3.71 | 22.4 | 3.56 |
| | | 231.0 | 28.1 | 4.85 | 26.6 | 4.53 | 25.2 | 4.19 | 24.6 | 4.04 | 23.5 | 3.62 | 22.4 | 3.56 |
| | 20 | 61.6 | 28.1 | 4.40 | 26.6 | 4.09 | 25.2 | 3.92 | 24.6 | 3.75 | 23.5 | 3.60 | 22.4 | 3.22 |
| | | 77.0 | 28.1 | 4.36 | 26.6 | 4.04 | 25.2 | 3.88 | 24.6 | 3.71 | 23.5 | 3.56 | 22.4 | 3.22 |
| | | 154.0 | 28.1 | 4.19 | 26.6 | 3.88 | 25.2 | 3.71 | 24.6 | 3.56 | 23.5 | 3.39 | 22.4 | 3.22 |
| | | 192.5 | 28.1 | 4.19 | 26.6 | 3.88 | 25.2 | 3.71 | 24.6 | 3.56 | 23.5 | 3.39 | 22.4 | 3.22 |
| | | 231.0 | 28.1 | 4.19 | 26.6 | 3.88 | 25.2 | 3.71 | 24.6 | 3.56 | 23.5 | 3.39 | 22.4 | 3.22 |
| | 25 | 61.6 | 28.1 | 3.92 | 26.6 | 3.56 | 25.2 | 3.43 | 24.6 | 3.22 | 23.5 | 3.07 | 22.4 | 2.91 |
| | | 77.0 | 28.1 | 3.88 | 26.6 | 3.56 | 25.2 | 3.39 | 24.6 | 3.22 | 23.5 | 3.07 | 22.4 | 2.91 |
| | | 154.0 | 28.1 | 3.71 | 26.6 | 3.56 | 25.2 | 3.22 | 24.6 | 3.22 | 23.5 | 3.07 | 22.4 | 2.91 |
| | | 192.5 | 28.1 | 3.71 | 26.6 | 3.56 | 25.2 | 3.22 | 24.6 | 3.22 | 23.5 | 3.07 | 22.4 | 2.91 |
| | | 231.0 | 28.1 | 3.71 | 26.6 | 3.56 | 25.2 | 3.22 | 24.6 | 3.22 | 23.5 | 3.07 | 22.4 | 2.91 |
| | 30 | 61.6 | 28.1 | 3.60 | 26.6 | 3.26 | 25.2 | 3.12 | 24.6 | 2.91 | 23.5 | 2.95 | 22.4 | 2.78 |
| | | 77.0 | 28.1 | 3.56 | 26.6 | 3.22 | 25.2 | 3.07 | 24.6 | 2.91 | 23.5 | 2.91 | 22.4 | 2.74 |
| | | 154.0 | 28.1 | 3.39 | 26.6 | 3.07 | 25.2 | 2.91 | 24.6 | 2.91 | 23.5 | 2.74 | 22.4 | 2.59 |
| | | 192.5 | 28.1 | 3.39 | 26.6 | 3.07 | 25.2 | 2.91 | 24.6 | 2.91 | 23.5 | 2.74 | 22.4 | 2.59 |
| | | 231.0 | 28.1 | 3.39 | 26.6 | 3.07 | 25.2 | 2.91 | 24.6 | 2.91 | 23.5 | 2.74 | 22.4 | 2.59 |
| | 35 | 61.6 | 28.1 | 3.26 | 26.6 | 2.91 | 25.2 | 2.74 | 24.6 | 2.78 | 23.5 | 2.59 | 22.4 | 2.42 |
| | | 77.0 | 28.1 | 3.22 | 26.6 | 2.91 | 25.2 | 2.74 | 24.6 | 2.74 | 23.5 | 2.59 | 22.4 | 2.42 |
| | | 154.0 | 28.1 | 3.07 | 26.6 | 2.91 | 25.2 | 2.74 | 24.6 | 2.59 | 23.5 | 2.59 | 22.4 | 2.42 |
| | | 192.5 | 28.1 | 3.07 | 26.6 | 2.91 | 25.2 | 2.74 | 24.6 | 2.59 | 23.5 | 2.59 | 22.4 | 2.42 |
| | | 231.0 | 28.1 | 3.07 | 26.6 | 2.91 | 25.2 | 2.74 | 24.6 | 2.59 | 23.5 | 2.59 | 22.4 | 2.42 |
| | 40 | 61.6 | 28.1 | 2.95 | 26.6 | 2.78 | 25.2 | 2.63 | 24.6 | 2.42 | 23.5 | 2.46 | 22.4 | 2.26 |
| | | 77.0 | 28.1 | 2.91 | 26.6 | 2.74 | 25.2 | 2.59 | 24.6 | 2.42 | 23.5 | 2.42 | 22.4 | 2.26 |
| | | 154.0 | 28.1 | 2.74 | 26.6 | 2.59 | 25.2 | 2.42 | 24.6 | 2.42 | 23.5 | 2.26 | 22.4 | 2.26 |
| | | 192.5 | 28.1 | 2.74 | 26.6 | 2.59 | 25.2 | 2.42 | 24.6 | 2.42 | 23.5 | 2.26 | 22.4 | 2.26 |
| | | 231.0 | 28.1 | 2.74 | 26.6 | 2.59 | 25.2 | 2.42 | 24.6 | 2.42 | 23.5 | 2.26 | 22.4 | 2.26 |
| | 45 | 61.6 | 28.1 | 2.63 | 26.6 | 2.67 | 25.2 | 2.50 | 24.6 | 2.07 | 23.5 | 2.34 | 22.4 | 2.11 |
| | | 77.0 | 28.1 | 2.59 | 26.6 | 2.59 | 25.2 | 2.42 | 24.6 | 2.11 | 23.5 | 2.26 | 22.4 | 2.11 |
| | | 154.0 | 28.1 | 2.42 | 26.6 | 2.26 | 25.2 | 2.11 | 24.6 | 2.26 | 23.5 | 1.94 | 22.4 | 2.11 |
| | | 192.5 | 28.1 | 2.42 | 26.6 | 2.26 | 25.2 | 2.11 | 24.6 | 2.26 | 23.5 | 1.94 | 22.4 | 2.11 |
| | | 231.0 | 28.1 | 2.42 | 26.6 | 2.26 | 25.2 | 2.11 | 24.6 | 2.26 | 23.5 | 1.94 | 22.4 | 2.11 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN180BAS4

**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 69.2 | 26.8 | 10.44 | 26.6 | 9.83 | 26.5 | 9.15 | 26.1 | 8.88 | 26.4 | 8.64 | 25.7 | 7.76 |
| | | 86.5 | 27.7 | 10.62 | 27.5 | 10.02 | 27.4 | 9.35 | 27.0 | 9.08 | 27.3 | 8.84 | 26.6 | 7.92 |
| | | 173.0 | 31.3 | 11.35 | 31.1 | 10.78 | 31.0 | 10.14 | 30.6 | 9.85 | 30.9 | 9.58 | 30.1 | 8.59 |
| | | 216.3 | 34.7 | 12.06 | 34.4 | 11.51 | 34.2 | 10.93 | 33.8 | 10.64 | 34.2 | 10.33 | 33.3 | 9.26 |
| | | 259.5 | 36.4 | 12.43 | 36.0 | 11.89 | 35.8 | 11.33 | 35.4 | 11.04 | 35.8 | 10.71 | 34.9 | 9.60 |
| | 0 | 69.2 | 47.9 | 14.28 | 46.8 | 13.85 | 45.9 | 13.40 | 44.8 | 13.03 | 45.0 | 12.66 | 43.0 | 11.35 |
| | | 86.5 | 48.2 | 14.32 | 47.1 | 13.89 | 46.1 | 13.44 | 45.1 | 13.07 | 45.2 | 12.70 | 43.2 | 11.38 |
| | | 173.0 | 49.3 | 14.47 | 48.2 | 14.03 | 47.2 | 13.60 | 46.1 | 13.21 | 46.3 | 12.84 | 44.3 | 11.51 |
| | | 216.3 | 50.1 | 14.47 | 48.9 | 14.03 | 47.9 | 13.60 | 46.8 | 13.21 | 47.0 | 12.84 | 44.8 | 11.51 |
| | | 259.5 | 50.4 | 14.47 | 49.3 | 14.03 | 48.3 | 13.60 | 47.2 | 13.21 | 47.3 | 12.84 | 45.2 | 11.51 |
| | 5 | 69.2 | 69.0 | 15.35 | 68.0 | 14.97 | 66.6 | 14.59 | 64.8 | 14.18 | 63.2 | 13.78 | 59.6 | 12.34 |
| | | 86.5 | 69.3 | 15.42 | 68.1 | 15.04 | 66.6 | 14.66 | 64.8 | 14.25 | 63.2 | 13.85 | 59.6 | 12.41 |
| | | 173.0 | 70.2 | 15.69 | 68.6 | 15.32 | 66.6 | 14.96 | 64.8 | 14.54 | 63.2 | 14.13 | 59.6 | 12.66 |
| | | 216.3 | 70.6 | 15.80 | 68.8 | 15.42 | 66.6 | 15.05 | 64.8 | 14.65 | 63.2 | 14.24 | 59.6 | 12.75 |
| | | 259.5 | 70.9 | 15.85 | 68.9 | 15.47 | 66.6 | 15.11 | 64.8 | 14.70 | 63.2 | 14.29 | 59.6 | 12.80 |
| | 10 | 69.2 | 69.1 | 13.97 | 68.0 | 13.50 | 66.4 | 13.25 | 64.6 | 12.95 | 62.9 | 12.50 | 59.4 | 11.28 |
| | | 86.5 | 69.5 | 13.94 | 68.3 | 13.51 | 66.6 | 13.27 | 64.8 | 12.94 | 63.2 | 12.50 | 59.6 | 11.28 |
| | | 173.0 | 71.1 | 13.83 | 69.5 | 13.56 | 67.7 | 13.37 | 65.9 | 12.93 | 64.1 | 12.47 | 60.6 | 11.24 |
| | | 216.3 | 71.5 | 14.03 | 70.0 | 13.76 | 68.1 | 13.42 | 66.2 | 12.98 | 64.5 | 12.66 | 61.0 | 11.78 |
| | | 259.5 | 71.7 | 14.12 | 70.2 | 13.85 | 68.3 | 13.46 | 66.4 | 13.00 | 64.8 | 12.77 | 61.2 | 12.04 |
| | 15 | 69.2 | 69.2 | 12.59 | 68.0 | 12.05 | 66.1 | 11.92 | 64.3 | 11.72 | 62.6 | 11.23 | 59.2 | 10.23 |
| | | 86.5 | 69.8 | 12.47 | 68.6 | 12.00 | 66.6 | 11.90 | 64.8 | 11.64 | 63.2 | 11.14 | 59.6 | 10.14 |
| | | 173.0 | 72.0 | 11.97 | 70.6 | 11.79 | 68.7 | 11.79 | 67.0 | 11.30 | 65.0 | 10.80 | 61.6 | 9.80 |
| | | 216.3 | 72.4 | 12.26 | 71.3 | 12.06 | 69.5 | 11.79 | 67.7 | 11.30 | 65.9 | 11.10 | 62.3 | 10.80 |
| | | 259.5 | 72.6 | 12.40 | 71.6 | 12.20 | 70.0 | 11.79 | 68.0 | 11.30 | 66.4 | 11.26 | 62.7 | 11.30 |
| | 20 | 69.2 | 71.8 | 11.55 | 70.5 | 11.01 | 68.6 | 10.77 | 66.8 | 10.43 | 64.8 | 10.20 | 61.0 | 9.88 |
| | | 86.5 | 72.4 | 11.46 | 71.1 | 11.00 | 69.2 | 10.76 | 67.3 | 10.47 | 65.4 | 10.27 | 61.6 | 9.80 |
| | | 173.0 | 74.7 | 11.14 | 73.4 | 10.96 | 71.3 | 10.73 | 69.4 | 10.64 | 67.7 | 10.54 | 63.9 | 9.47 |
| | | 216.3 | 75.0 | 11.14 | 73.9 | 10.96 | 72.2 | 10.80 | 70.1 | 10.64 | 68.2 | 10.54 | 64.3 | 10.07 |
| | | 259.5 | 75.2 | 11.14 | 74.2 | 10.96 | 72.6 | 10.83 | 70.4 | 10.64 | 68.4 | 10.54 | 64.6 | 10.38 |
| | 25 | 69.2 | 75.8 | 11.01 | 73.9 | 10.69 | 72.2 | 10.52 | 70.8 | 10.34 | 69.2 | 10.18 | 65.2 | 9.51 |
| | | 86.5 | 75.8 | 10.96 | 73.9 | 10.68 | 72.2 | 10.47 | 70.8 | 10.29 | 69.2 | 10.14 | 65.2 | 9.47 |
| | | 173.0 | 75.8 | 10.80 | 73.9 | 10.61 | 72.2 | 10.29 | 70.8 | 10.14 | 69.2 | 9.97 | 65.2 | 9.30 |
| | | 216.3 | 75.8 | 10.64 | 73.9 | 10.33 | 72.2 | 10.14 | 70.8 | 9.97 | 69.2 | 9.80 | 65.2 | 9.14 |
| | | 259.5 | 75.8 | 10.56 | 73.9 | 10.20 | 72.2 | 10.06 | 70.8 | 9.88 | 69.2 | 9.71 | 65.2 | 9.07 |
| | 30 | 69.2 | 75.8 | 10.73 | 73.9 | 10.20 | 72.2 | 10.10 | 70.8 | 9.83 | 69.2 | 9.73 | 65.2 | 9.05 |
| | | 86.5 | 75.8 | 10.64 | 73.9 | 10.18 | 72.2 | 10.04 | 70.8 | 9.80 | 69.2 | 9.65 | 65.2 | 8.98 |
| | | 173.0 | 75.8 | 10.29 | 73.9 | 10.11 | 72.2 | 9.80 | 70.8 | 9.65 | 69.2 | 9.30 | 65.2 | 8.64 |
| | | 216.3 | 75.8 | 10.14 | 73.9 | 9.83 | 72.2 | 9.65 | 70.8 | 9.47 | 69.2 | 9.30 | 65.2 | 8.64 |
| | | 259.5 | 75.8 | 10.06 | 73.9 | 9.69 | 72.2 | 9.56 | 70.8 | 9.39 | 69.2 | 9.30 | 65.2 | 8.64 |
| | 35 | 69.2 | 75.8 | 10.23 | 73.9 | 9.88 | 72.2 | 9.69 | 70.8 | 9.34 | 69.2 | 9.01 | 65.2 | 8.39 |
| | | 86.5 | 75.8 | 10.14 | 73.9 | 9.83 | 72.2 | 9.65 | 70.8 | 9.30 | 69.2 | 8.98 | 65.2 | 8.30 |
| | | 173.0 | 75.8 | 9.80 | 73.9 | 9.61 | 72.2 | 9.47 | 70.8 | 9.14 | 69.2 | 8.80 | 65.2 | 7.97 |
| | | 216.3 | 75.8 | 9.80 | 73.9 | 9.51 | 72.2 | 9.30 | 70.8 | 8.98 | 69.2 | 8.64 | 65.2 | 7.97 |
| | | 259.5 | 75.8 | 9.80 | 73.9 | 9.46 | 72.2 | 9.21 | 70.8 | 8.89 | 69.2 | 8.57 | 65.2 | 7.97 |
| | 40 | 69.2 | 75.8 | 9.88 | 73.9 | 9.56 | 72.2 | 9.38 | 70.8 | 9.05 | 69.2 | 8.73 | 65.2 | 7.88 |
| | | 86.5 | 75.8 | 9.80 | 73.9 | 9.51 | 72.2 | 9.30 | 70.8 | 8.98 | 69.2 | 8.64 | 65.2 | 7.81 |
| | | 173.0 | 75.8 | 9.47 | 73.9 | 9.26 | 72.2 | 8.98 | 70.8 | 8.64 | 69.2 | 8.30 | 65.2 | 7.48 |
| | | 216.3 | 75.8 | 9.30 | 73.9 | 9.11 | 72.2 | 8.98 | 70.8 | 8.64 | 69.2 | 8.30 | 65.2 | 7.48 |
| | | 259.5 | 75.8 | 9.21 | 73.9 | 9.03 | 72.2 | 8.98 | 70.8 | 8.64 | 69.2 | 8.30 | 65.2 | 7.48 |
| | 45 | 69.2 | 75.8 | 9.56 | 73.9 | 9.24 | 72.2 | 9.10 | 70.8 | 8.77 | 69.2 | 8.43 | 65.2 | 7.39 |
| | | 86.5 | 75.8 | 9.47 | 73.9 | 9.18 | 72.2 | 8.98 | 70.8 | 8.64 | 69.2 | 8.30 | 65.2 | 7.31 |
| | | 173.0 | 75.8 | 9.14 | 73.9 | 8.94 | 72.2 | 8.48 | 70.8 | 8.15 | 69.2 | 7.81 | 65.2 | 6.98 |
| | | 216.3 | 75.8 | 8.80 | 73.9 | 8.71 | 72.2 | 8.64 | 70.8 | 8.30 | 69.2 | 7.97 | 65.2 | 6.98 |
| | | 259.5 | 75.8 | 8.63 | 73.9 | 8.60 | 72.2 | 8.73 | 70.8 | 8.38 | 69.2 | 8.06 | 65.2 | 6.98 |
| 120 | -5 | 69.2 | 25.5 | 10.44 | 25.3 | 9.83 | 25.2 | 9.15 | 24.8 | 8.77 | 25.0 | 8.52 | 24.3 | 7.62 |
| | | 86.5 | 26.4 | 10.62 | 26.1 | 10.02 | 26.0 | 9.35 | 25.7 | 8.96 | 25.9 | 8.70 | 25.2 | 7.79 |
| | | 173.0 | 29.9 | 11.35 | 29.6 | 10.78 | 29.5 | 10.14 | 29.0 | 9.71 | 29.3 | 9.44 | 28.6 | 8.46 |
| | | 216.3 | 33.0 | 12.06 | 32.7 | 11.51 | 32.5 | 10.93 | 32.1 | 10.48 | 32.4 | 10.18 | 31.5 | 9.11 |
| | | 259.5 | 34.5 | 12.43 | 34.2 | 11.89 | 34.0 | 11.33 | 33.7 | 10.87 | 33.9 | 10.55 | 33.0 | 9.44 |
| | 0 | 69.2 | 45.6 | 14.28 | 44.5 | 13.85 | 43.5 | 13.40 | 42.6 | 12.84 | 42.6 | 12.48 | 40.7 | 11.16 |
| | | 86.5 | 45.9 | 14.32 | 44.7 | 13.89 | 43.8 | 13.44 | 42.9 | 12.87 | 42.9 | 12.52 | 40.9 | 11.19 |
| | | 173.0 | 46.8 | 14.47 | 45.7 | 14.03 | 44.8 | 13.60 | 43.9 | 13.03 | 43.9 | 12.65 | 41.9 | 11.33 |
| | | 216.3 | 47.7 | 14.47 | 46.5 | 14.03 | 45.5 | 13.60 | 44.6 | 13.03 | 44.5 | 12.65 | 42.5 | 11.33 |
| | | 259.5 | 48.0 | 14.47 | 46.9 | 14.03 | 45.9 | 13.60 | 45.0 | 13.03 | 44.8 | 12.65 | 42.9 | 11.33 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 69.2 | 65.7 | 15.35 | 64.7 | 14.97 | 63.3 | 14.59 | 61.8 | 13.97 | 59.8 | 13.58 | 56.5 | 12.16 |
| | | 86.5 | 65.9 | 15.42 | 64.8 | 15.04 | 63.3 | 14.66 | 61.8 | 14.04 | 59.8 | 13.65 | 56.5 | 12.22 |
| | | 173.0 | 66.9 | 15.69 | 65.3 | 15.32 | 63.3 | 14.96 | 61.8 | 14.34 | 59.8 | 13.92 | 56.5 | 12.47 |
| | | 216.3 | 67.3 | 15.80 | 65.0 | 15.42 | 63.3 | 15.05 | 61.8 | 14.44 | 59.8 | 14.03 | 56.5 | 12.55 |
| | | 259.5 | 67.5 | 15.85 | 64.8 | 15.47 | 63.3 | 15.11 | 61.8 | 14.49 | 59.8 | 14.08 | 56.5 | 12.59 |
| | 10 | 69.2 | 65.9 | 13.79 | 64.8 | 13.41 | 63.2 | 13.14 | 61.6 | 12.73 | 59.6 | 12.32 | 56.4 | 11.07 |
| | | 86.5 | 66.2 | 13.83 | 65.0 | 13.46 | 63.3 | 13.19 | 61.8 | 12.75 | 59.8 | 12.31 | 56.5 | 11.09 |
| | | 173.0 | 67.5 | 14.03 | 66.0 | 13.67 | 63.9 | 13.37 | 62.5 | 12.82 | 60.5 | 12.27 | 57.1 | 11.14 |
| | | 216.3 | 67.8 | 13.97 | 65.9 | 13.67 | 64.3 | 13.42 | 62.7 | 12.87 | 60.7 | 12.33 | 57.4 | 11.51 |
| | | 259.5 | 68.0 | 13.95 | 65.7 | 13.67 | 64.4 | 13.46 | 62.8 | 12.91 | 60.8 | 12.35 | 57.6 | 11.71 |
| | 15 | 69.2 | 66.1 | 12.23 | 64.8 | 11.87 | 63.0 | 11.69 | 61.4 | 11.51 | 59.5 | 11.05 | 56.2 | 10.01 |
| | | 86.5 | 66.6 | 12.26 | 65.2 | 11.90 | 63.3 | 11.71 | 61.8 | 11.46 | 59.8 | 10.96 | 56.5 | 9.97 |
| | | 173.0 | 68.0 | 12.36 | 66.8 | 12.00 | 64.8 | 11.79 | 63.2 | 11.30 | 61.0 | 10.64 | 57.8 | 9.80 |
| | | 216.3 | 68.4 | 12.17 | 66.8 | 11.90 | 65.2 | 11.79 | 63.7 | 11.30 | 61.6 | 10.64 | 58.3 | 10.47 |
| | | 259.5 | 68.6 | 12.08 | 66.7 | 11.85 | 65.5 | 11.79 | 63.9 | 11.30 | 61.8 | 10.64 | 58.5 | 10.80 |
| | 20 | 69.2 | 68.0 | 11.00 | 66.7 | 10.53 | 64.6 | 10.25 | 62.9 | 10.11 | 60.8 | 9.97 | 57.6 | 9.47 |
| | | 86.5 | 68.4 | 11.00 | 67.1 | 10.57 | 65.0 | 10.29 | 63.3 | 10.14 | 61.2 | 9.97 | 57.9 | 9.44 |
| | | 173.0 | 70.2 | 11.00 | 68.7 | 10.73 | 66.4 | 10.47 | 64.8 | 10.29 | 62.8 | 9.94 | 59.2 | 9.30 |
| | | 216.3 | 70.4 | 10.89 | 68.6 | 10.64 | 67.0 | 10.47 | 65.2 | 10.29 | 63.2 | 9.97 | 59.6 | 9.65 |
| | | 259.5 | 70.6 | 10.84 | 68.6 | 10.59 | 67.3 | 10.47 | 65.5 | 10.29 | 63.3 | 9.99 | 59.8 | 9.81 |
| | 25 | 69.2 | 71.3 | 10.41 | 69.2 | 9.92 | 67.0 | 9.73 | 65.5 | 9.51 | 63.9 | 9.34 | 60.3 | 8.69 |
| | | 86.5 | 71.3 | 10.36 | 69.2 | 9.90 | 67.0 | 9.71 | 65.5 | 9.47 | 63.9 | 9.30 | 60.3 | 8.64 |
| | | 173.0 | 71.5 | 10.21 | 69.2 | 9.83 | 67.0 | 9.65 | 65.5 | 9.30 | 63.9 | 9.14 | 60.3 | 8.48 |
| | | 216.3 | 71.7 | 9.83 | 69.2 | 9.58 | 67.0 | 9.47 | 65.5 | 9.30 | 63.9 | 8.98 | 60.3 | 8.48 |
| | | 259.5 | 71.8 | 9.64 | 69.2 | 9.44 | 67.0 | 9.39 | 65.5 | 9.30 | 63.9 | 8.89 | 60.3 | 8.48 |
| | 30 | 69.2 | 71.7 | 9.95 | 69.2 | 9.46 | 67.0 | 9.19 | 65.5 | 8.84 | 63.9 | 8.73 | 60.3 | 8.02 |
| | | 86.5 | 71.7 | 9.87 | 69.2 | 9.40 | 67.0 | 9.14 | 65.5 | 8.80 | 63.9 | 8.64 | 60.3 | 7.97 |
| | | 173.0 | 71.7 | 9.54 | 69.2 | 9.18 | 67.0 | 8.98 | 65.5 | 8.64 | 63.9 | 8.30 | 60.3 | 7.81 |
| | | 216.3 | 71.7 | 9.23 | 69.2 | 8.98 | 67.0 | 8.80 | 65.5 | 8.64 | 63.9 | 8.30 | 60.3 | 7.65 |
| | | 259.5 | 71.7 | 9.07 | 69.2 | 8.87 | 67.0 | 8.71 | 65.5 | 8.64 | 63.9 | 8.30 | 60.3 | 7.58 |
| | 35 | 69.2 | 71.7 | 9.51 | 69.2 | 8.98 | 67.0 | 8.73 | 65.5 | 8.39 | 63.9 | 8.06 | 60.3 | 7.35 |
| | | 86.5 | 71.7 | 9.37 | 69.2 | 8.91 | 67.0 | 8.64 | 65.5 | 8.30 | 63.9 | 7.97 | 60.3 | 7.31 |
| | | 173.0 | 71.7 | 8.84 | 69.2 | 8.57 | 67.0 | 8.30 | 65.5 | 7.97 | 63.9 | 7.65 | 60.3 | 7.15 |
| | | 216.3 | 71.7 | 8.73 | 69.2 | 8.50 | 67.0 | 8.30 | 65.5 | 7.97 | 63.9 | 7.65 | 60.3 | 6.98 |
| | | 259.5 | 71.7 | 8.68 | 69.2 | 8.48 | 67.0 | 8.30 | 65.5 | 7.97 | 63.9 | 7.65 | 60.3 | 6.89 |
| | 40 | 69.2 | 71.7 | 9.22 | 69.2 | 8.57 | 67.0 | 8.23 | 65.5 | 7.88 | 63.9 | 7.56 | 60.3 | 6.85 |
| | | 86.5 | 71.7 | 9.05 | 69.2 | 8.48 | 67.0 | 8.15 | 65.5 | 7.81 | 63.9 | 7.48 | 60.3 | 6.80 |
| | | 173.0 | 71.7 | 8.34 | 69.2 | 8.08 | 67.0 | 7.81 | 65.5 | 7.48 | 63.9 | 7.15 | 60.3 | 6.66 |
| | | 216.3 | 71.7 | 8.23 | 69.2 | 7.97 | 67.0 | 7.81 | 65.5 | 7.48 | 63.9 | 7.15 | 60.3 | 6.48 |
| | | 259.5 | 71.7 | 8.18 | 69.2 | 7.92 | 67.0 | 7.81 | 65.5 | 7.48 | 63.9 | 7.15 | 60.3 | 6.39 |
| | 45 | 69.2 | 71.7 | 8.94 | 69.2 | 8.16 | 67.0 | 7.74 | 65.5 | 7.39 | 63.9 | 7.06 | 60.3 | 6.34 |
| | | 86.5 | 71.7 | 8.71 | 69.2 | 8.04 | 67.0 | 7.65 | 65.5 | 7.31 | 63.9 | 6.98 | 60.3 | 6.31 |
| | | 173.0 | 71.7 | 7.84 | 69.2 | 7.58 | 67.0 | 7.31 | 65.5 | 6.98 | 63.9 | 6.66 | 60.3 | 6.16 |
| | | 216.3 | 71.7 | 7.74 | 69.2 | 7.44 | 67.0 | 7.31 | 65.5 | 6.98 | 63.9 | 6.66 | 60.3 | 5.98 |
| | | 259.5 | 71.7 | 7.68 | 69.2 | 7.37 | 67.0 | 7.31 | 65.5 | 6.98 | 63.9 | 6.66 | 60.3 | 5.90 |
| 110 | -5 | 69.2 | 24.1 | 10.57 | 24.0 | 9.83 | 23.8 | 9.15 | 23.6 | 8.77 | 23.6 | 8.52 | 23.1 | 7.62 |
| | | 86.5 | 25.0 | 10.76 | 24.8 | 10.02 | 24.6 | 9.35 | 24.3 | 8.96 | 24.5 | 8.70 | 23.9 | 7.79 |
| | | 173.0 | 28.2 | 11.48 | 28.1 | 10.78 | 27.9 | 10.14 | 27.6 | 9.71 | 27.6 | 9.44 | 27.0 | 8.46 |
| | | 216.3 | 31.2 | 12.22 | 31.0 | 11.51 | 30.8 | 10.93 | 30.4 | 10.48 | 30.4 | 10.18 | 29.9 | 9.11 |
| | | 259.5 | 32.6 | 12.59 | 32.4 | 11.89 | 32.2 | 11.33 | 31.9 | 10.87 | 31.9 | 10.55 | 31.3 | 9.44 |
| | 0 | 69.2 | 43.1 | 14.47 | 42.1 | 13.85 | 41.2 | 13.40 | 40.5 | 12.84 | 40.1 | 12.48 | 38.6 | 11.16 |
| | | 86.5 | 43.4 | 14.51 | 42.4 | 13.89 | 41.5 | 13.44 | 40.7 | 12.87 | 40.3 | 12.52 | 38.9 | 11.19 |
| | | 173.0 | 44.3 | 14.65 | 43.4 | 14.03 | 42.5 | 13.60 | 41.6 | 13.03 | 41.3 | 12.65 | 39.8 | 11.33 |
| | | 216.3 | 45.0 | 14.65 | 44.1 | 14.03 | 43.2 | 13.60 | 42.3 | 13.03 | 41.9 | 12.65 | 40.3 | 11.33 |
| | | 259.5 | 45.4 | 14.65 | 44.5 | 14.03 | 43.5 | 13.60 | 42.6 | 13.03 | 42.3 | 12.65 | 40.5 | 11.33 |
| | 5 | 69.2 | 62.8 | 15.55 | 61.4 | 14.97 | 59.9 | 14.59 | 58.6 | 13.97 | 56.3 | 13.58 | 53.6 | 12.16 |
| | | 86.5 | 63.0 | 15.62 | 61.5 | 15.04 | 60.0 | 14.66 | 58.6 | 14.04 | 56.3 | 13.65 | 53.6 | 12.22 |
| | | 173.0 | 63.9 | 15.90 | 61.9 | 15.32 | 60.0 | 14.96 | 58.6 | 14.34 | 56.3 | 13.92 | 53.6 | 12.47 |
| | | 216.3 | 64.3 | 16.01 | 62.1 | 15.42 | 60.0 | 15.05 | 58.6 | 14.44 | 56.3 | 14.03 | 53.6 | 12.55 |
| | | 259.5 | 64.5 | 16.06 | 62.2 | 15.47 | 60.0 | 15.11 | 58.6 | 14.49 | 56.3 | 14.08 | 53.6 | 12.59 |
| | 10 | 69.2 | 63.1 | 13.95 | 61.6 | 13.47 | 59.9 | 13.18 | 58.5 | 12.73 | 56.2 | 12.32 | 53.5 | 11.07 |
| | | 86.5 | 63.4 | 13.97 | 61.7 | 13.51 | 60.0 | 13.21 | 58.6 | 12.75 | 56.3 | 12.31 | 53.6 | 11.09 |
| | | 173.0 | 64.3 | 14.08 | 62.3 | 13.67 | 60.3 | 13.37 | 59.0 | 12.82 | 56.7 | 12.27 | 53.8 | 11.14 |
| | | 216.3 | 64.6 | 14.08 | 62.6 | 13.67 | 60.5 | 13.34 | 59.1 | 12.79 | 56.8 | 12.33 | 54.0 | 11.26 |
| | | 259.5 | 64.8 | 14.08 | 62.8 | 13.67 | 60.7 | 13.32 | 59.1 | 12.77 | 56.9 | 12.35 | 54.0 | 11.32 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 69.2 | 63.3 | 12.34 | 61.6 | 12.00 | 59.8 | 11.79 | 58.5 | 11.51 | 56.2 | 11.05 | 53.5 | 10.01 |
| | | 86.5 | 63.5 | 12.33 | 61.9 | 12.00 | 60.0 | 11.79 | 58.6 | 11.46 | 56.3 | 10.96 | 53.6 | 9.97 |
| | | 173.0 | 64.6 | 12.26 | 62.8 | 12.00 | 60.7 | 11.79 | 59.2 | 11.30 | 57.1 | 10.64 | 54.2 | 9.80 |
| | | 216.3 | 65.0 | 12.17 | 63.0 | 11.90 | 61.0 | 11.64 | 59.5 | 11.14 | 57.2 | 10.64 | 54.4 | 9.97 |
| | | 259.5 | 65.2 | 12.13 | 63.2 | 11.85 | 61.2 | 11.56 | 59.6 | 11.06 | 57.3 | 10.64 | 54.6 | 10.06 |
| | 20 | 69.2 | 64.5 | 10.66 | 62.7 | 10.40 | 60.7 | 10.14 | 59.0 | 9.97 | 56.9 | 9.69 | 53.9 | 9.06 |
| | | 86.5 | 64.8 | 10.68 | 63.0 | 10.40 | 60.9 | 10.14 | 59.2 | 9.97 | 57.1 | 9.65 | 54.2 | 9.05 |
| | | 173.0 | 66.2 | 10.76 | 63.7 | 10.40 | 61.6 | 10.14 | 60.1 | 9.97 | 57.8 | 9.47 | 54.9 | 8.98 |
| | | 216.3 | 66.6 | 10.76 | 64.3 | 10.40 | 61.9 | 10.14 | 60.3 | 9.80 | 58.1 | 9.47 | 55.1 | 8.98 |
| | | 259.5 | 66.8 | 10.76 | 64.6 | 10.40 | 62.1 | 10.14 | 60.5 | 9.71 | 58.3 | 9.47 | 55.2 | 8.98 |
| | 25 | 69.2 | 66.4 | 9.69 | 64.5 | 9.34 | 61.9 | 9.19 | 60.5 | 8.84 | 58.5 | 8.52 | 55.3 | 7.81 |
| | | 86.5 | 66.6 | 9.67 | 64.5 | 9.30 | 61.9 | 9.14 | 60.5 | 8.80 | 58.5 | 8.48 | 55.3 | 7.81 |
| | | 173.0 | 67.1 | 9.61 | 64.5 | 9.14 | 61.9 | 8.98 | 60.5 | 8.64 | 58.5 | 8.30 | 55.3 | 7.81 |
| | | 216.3 | 67.5 | 9.61 | 64.5 | 9.18 | 61.9 | 8.80 | 60.5 | 8.64 | 58.5 | 8.15 | 55.3 | 7.65 |
| | | 259.5 | 67.7 | 9.61 | 64.5 | 9.19 | 61.9 | 8.71 | 60.5 | 8.64 | 58.5 | 8.07 | 55.3 | 7.58 |
| | 30 | 69.2 | 67.5 | 8.84 | 64.5 | 8.52 | 61.9 | 8.20 | 60.5 | 8.02 | 58.5 | 7.52 | 55.3 | 7.03 |
| | | 86.5 | 67.5 | 8.80 | 64.5 | 8.48 | 61.9 | 8.15 | 60.5 | 7.97 | 58.5 | 7.48 | 55.3 | 6.98 |
| | | 173.0 | 67.5 | 8.64 | 64.5 | 8.30 | 61.9 | 7.97 | 60.5 | 7.81 | 58.5 | 7.31 | 55.3 | 6.80 |
| | | 216.3 | 67.5 | 8.57 | 64.5 | 8.15 | 61.9 | 7.81 | 60.5 | 7.65 | 58.5 | 7.31 | 55.3 | 6.80 |
| | | 259.5 | 67.5 | 8.54 | 64.5 | 8.07 | 61.9 | 7.72 | 60.5 | 7.58 | 58.5 | 7.31 | 55.3 | 6.80 |
| | 35 | 69.2 | 67.5 | 8.39 | 64.5 | 7.84 | 61.9 | 7.52 | 60.5 | 7.19 | 58.5 | 6.85 | 55.3 | 6.34 |
| | | 86.5 | 67.5 | 8.30 | 64.5 | 7.81 | 61.9 | 7.48 | 60.5 | 7.15 | 58.5 | 6.80 | 55.3 | 6.31 |
| | | 173.0 | 67.5 | 7.97 | 64.5 | 7.65 | 61.9 | 7.31 | 60.5 | 6.98 | 58.5 | 6.66 | 55.3 | 6.16 |
| | | 216.3 | 67.5 | 7.77 | 64.5 | 7.48 | 61.9 | 7.15 | 60.5 | 6.98 | 58.5 | 6.66 | 55.3 | 6.16 |
| | | 259.5 | 67.5 | 7.67 | 64.5 | 7.39 | 61.9 | 7.07 | 60.5 | 6.98 | 58.5 | 6.66 | 55.3 | 6.16 |
| | 40 | 69.2 | 67.5 | 7.88 | 64.5 | 7.56 | 61.9 | 7.06 | 60.5 | 6.69 | 58.5 | 6.34 | 55.3 | 5.85 |
| | | 86.5 | 67.5 | 7.81 | 64.5 | 7.48 | 61.9 | 6.98 | 60.5 | 6.66 | 58.5 | 6.31 | 55.3 | 5.81 |
| | | 173.0 | 67.5 | 7.48 | 64.5 | 7.15 | 61.9 | 6.66 | 60.5 | 6.48 | 58.5 | 6.16 | 55.3 | 5.65 |
| | | 216.3 | 67.5 | 7.37 | 64.5 | 6.98 | 61.9 | 6.66 | 60.5 | 6.31 | 58.5 | 5.98 | 55.3 | 5.49 |
| | | 259.5 | 67.5 | 7.32 | 64.5 | 6.89 | 61.9 | 6.66 | 60.5 | 6.22 | 58.5 | 5.90 | 55.3 | 5.40 |
| | 45 | 69.2 | 67.5 | 7.39 | 64.5 | 7.28 | 61.9 | 6.61 | 60.5 | 6.20 | 58.5 | 5.85 | 55.3 | 5.35 |
| | | 86.5 | 67.5 | 7.31 | 64.5 | 7.15 | 61.9 | 6.48 | 60.5 | 6.16 | 58.5 | 5.81 | 55.3 | 5.31 |
| | | 173.0 | 67.5 | 6.98 | 64.5 | 6.66 | 61.9 | 5.98 | 60.5 | 5.98 | 58.5 | 5.65 | 55.3 | 5.15 |
| | | 216.3 | 67.5 | 6.98 | 64.5 | 6.48 | 61.9 | 6.16 | 60.5 | 5.65 | 58.5 | 5.31 | 55.3 | 4.82 |
| | | 259.5 | 67.5 | 6.98 | 64.5 | 6.39 | 61.9 | 6.24 | 60.5 | 5.49 | 58.5 | 5.14 | 55.3 | 4.64 |
| 100 | -5 | 69.2 | 22.8 | 10.57 | 22.7 | 9.97 | 22.5 | 9.15 | 22.3 | 8.77 | 22.1 | 8.38 | 21.7 | 7.62 |
| | | 86.5 | 23.6 | 10.76 | 23.4 | 10.16 | 23.4 | 9.35 | 23.1 | 8.96 | 22.9 | 8.56 | 22.5 | 7.79 |
| | | 173.0 | 26.7 | 11.48 | 26.5 | 10.91 | 26.4 | 10.14 | 26.1 | 9.71 | 25.9 | 9.30 | 25.5 | 8.46 |
| | | 216.3 | 29.5 | 12.22 | 29.3 | 11.67 | 29.1 | 10.93 | 28.8 | 10.48 | 28.6 | 10.02 | 28.1 | 9.11 |
| | | 259.5 | 30.9 | 12.59 | 30.6 | 12.06 | 30.5 | 11.33 | 30.2 | 10.87 | 30.0 | 10.38 | 29.5 | 9.44 |
| | 0 | 69.2 | 40.7 | 14.47 | 39.8 | 14.04 | 39.0 | 13.40 | 38.3 | 12.84 | 37.6 | 12.29 | 36.4 | 11.16 |
| | | 86.5 | 41.0 | 14.51 | 40.1 | 14.08 | 39.2 | 13.44 | 38.5 | 12.87 | 37.8 | 12.33 | 36.5 | 11.19 |
| | | 173.0 | 41.9 | 14.65 | 41.0 | 14.22 | 40.1 | 13.60 | 39.4 | 13.03 | 38.7 | 12.47 | 37.4 | 11.33 |
| | | 216.3 | 42.5 | 14.65 | 41.6 | 14.22 | 40.8 | 13.60 | 40.0 | 13.03 | 39.4 | 12.47 | 38.0 | 11.33 |
| | | 259.5 | 42.9 | 14.65 | 42.0 | 14.22 | 41.1 | 13.60 | 40.3 | 13.03 | 39.6 | 12.47 | 38.3 | 11.33 |
| | 5 | 69.2 | 60.1 | 15.55 | 58.1 | 15.18 | 56.7 | 14.59 | 55.5 | 13.97 | 52.9 | 13.37 | 50.4 | 12.16 |
| | | 86.5 | 60.3 | 15.62 | 58.2 | 15.25 | 56.7 | 14.66 | 55.5 | 14.04 | 52.9 | 13.44 | 50.4 | 12.22 |
| | | 173.0 | 61.2 | 15.90 | 58.7 | 15.53 | 56.7 | 14.96 | 55.5 | 14.34 | 52.9 | 13.72 | 50.4 | 12.47 |
| | | 216.3 | 61.6 | 16.01 | 58.8 | 15.62 | 56.7 | 15.05 | 55.5 | 14.44 | 52.9 | 13.80 | 50.4 | 12.55 |
| | | 259.5 | 61.7 | 16.06 | 58.9 | 15.67 | 56.7 | 15.11 | 55.5 | 14.49 | 52.9 | 13.85 | 50.4 | 12.59 |
| | 10 | 69.2 | 60.5 | 13.91 | 58.3 | 13.60 | 56.7 | 13.18 | 55.5 | 12.73 | 52.9 | 12.11 | 50.4 | 11.07 |
| | | 86.5 | 60.6 | 13.97 | 58.4 | 13.65 | 56.7 | 13.21 | 55.5 | 12.75 | 52.9 | 12.12 | 50.4 | 11.09 |
| | | 173.0 | 61.2 | 14.24 | 58.7 | 13.82 | 56.7 | 13.37 | 55.5 | 12.82 | 52.9 | 12.17 | 50.4 | 11.14 |
| | | 216.3 | 61.6 | 14.18 | 59.0 | 13.82 | 56.7 | 13.34 | 55.5 | 12.79 | 52.9 | 12.13 | 50.4 | 11.09 |
| | | 259.5 | 61.8 | 14.15 | 59.1 | 13.82 | 56.7 | 13.32 | 55.5 | 12.77 | 52.9 | 12.12 | 50.4 | 11.07 |
| | 15 | 69.2 | 60.8 | 12.27 | 58.5 | 12.06 | 56.7 | 11.79 | 55.5 | 11.51 | 52.9 | 10.84 | 50.4 | 10.01 |
| | | 86.5 | 60.9 | 12.33 | 58.6 | 12.06 | 56.7 | 11.79 | 55.5 | 11.46 | 52.9 | 10.80 | 50.4 | 9.97 |
| | | 173.0 | 61.2 | 12.57 | 58.7 | 12.10 | 56.7 | 11.79 | 55.5 | 11.30 | 52.9 | 10.64 | 50.4 | 9.80 |
| | | 216.3 | 61.7 | 12.36 | 59.1 | 12.00 | 56.7 | 11.64 | 55.5 | 11.14 | 52.9 | 10.47 | 50.4 | 9.65 |
| | | 259.5 | 61.9 | 12.25 | 59.2 | 11.95 | 56.7 | 11.56 | 55.5 | 11.06 | 52.9 | 10.38 | 50.4 | 9.56 |
| | 20 | 69.2 | 61.2 | 10.49 | 58.9 | 10.22 | 56.7 | 9.97 | 55.5 | 9.83 | 52.9 | 9.19 | 50.4 | 8.73 |
| | | 86.5 | 61.4 | 10.54 | 58.9 | 10.23 | 56.7 | 9.97 | 55.5 | 9.80 | 52.9 | 9.14 | 50.4 | 8.64 |
| | | 173.0 | 62.3 | 10.73 | 59.1 | 10.27 | 56.7 | 9.97 | 55.5 | 9.65 | 52.9 | 8.98 | 50.4 | 8.30 |
| | | 216.3 | 62.6 | 10.54 | 59.6 | 10.18 | 56.7 | 9.80 | 55.5 | 9.47 | 52.9 | 8.80 | 50.4 | 8.15 |
| | | 259.5 | 62.8 | 10.45 | 59.9 | 10.13 | 56.7 | 9.71 | 55.5 | 9.39 | 52.9 | 8.71 | 50.4 | 8.07 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 69.2 | 61.9 | 9.17 | 59.8 | 8.89 | 56.7 | 8.52 | 55.5 | 8.20 | 52.9 | 7.69 | 50.4 | 6.98 |
| | | 86.5 | 62.1 | 9.18 | 59.8 | 8.84 | 56.7 | 8.48 | 55.5 | 8.15 | 52.9 | 7.65 | 50.4 | 6.98 |
| | | 173.0 | 63.0 | 9.21 | 59.8 | 8.64 | 56.7 | 8.30 | 55.5 | 7.97 | 52.9 | 7.48 | 50.4 | 6.98 |
| | | 216.3 | 63.3 | 9.01 | 59.8 | 8.57 | 56.7 | 8.15 | 55.5 | 7.81 | 52.9 | 7.48 | 50.4 | 6.80 |
| | | 259.5 | 63.5 | 8.91 | 59.8 | 8.54 | 56.7 | 8.07 | 55.5 | 7.72 | 52.9 | 7.48 | 50.4 | 6.73 |
| | 30 | 69.2 | 63.3 | 8.34 | 59.8 | 7.69 | 56.7 | 7.17 | 55.5 | 7.03 | 52.9 | 6.48 | 50.4 | 6.20 |
| | | 86.5 | 63.3 | 8.30 | 59.8 | 7.65 | 56.7 | 7.15 | 55.5 | 6.98 | 52.9 | 6.48 | 50.4 | 6.16 |
| | | 173.0 | 63.3 | 8.15 | 59.8 | 7.48 | 56.7 | 7.08 | 55.5 | 6.80 | 52.9 | 6.48 | 50.4 | 5.98 |
| | | 216.3 | 63.3 | 7.97 | 59.8 | 7.48 | 56.7 | 6.98 | 55.5 | 6.80 | 52.9 | 6.31 | 50.4 | 5.98 |
| | | 259.5 | 63.3 | 7.89 | 59.8 | 7.48 | 56.7 | 6.93 | 55.5 | 6.80 | 52.9 | 6.22 | 50.4 | 5.98 |
| | 35 | 69.2 | 63.3 | 7.74 | 59.8 | 7.06 | 56.7 | 6.32 | 55.5 | 6.20 | 52.9 | 5.85 | 50.4 | 5.35 |
| | | 86.5 | 63.3 | 7.65 | 59.8 | 6.98 | 56.7 | 6.31 | 55.5 | 6.16 | 52.9 | 5.81 | 50.4 | 5.31 |
| | | 173.0 | 63.3 | 7.31 | 59.8 | 6.66 | 56.7 | 6.24 | 55.5 | 5.98 | 52.9 | 5.65 | 50.4 | 5.15 |
| | | 216.3 | 63.3 | 7.31 | 59.8 | 6.66 | 56.7 | 6.16 | 55.5 | 5.98 | 52.9 | 5.65 | 50.4 | 5.15 |
| | | 259.5 | 63.3 | 7.31 | 59.8 | 6.66 | 56.7 | 6.11 | 55.5 | 5.98 | 52.9 | 5.65 | 50.4 | 5.15 |
| | 40 | 69.2 | 63.3 | 7.24 | 59.8 | 6.57 | 56.7 | 5.67 | 55.5 | 5.53 | 52.9 | 5.20 | 50.4 | 4.85 |
| | | 86.5 | 63.3 | 7.15 | 59.8 | 6.48 | 56.7 | 5.65 | 55.5 | 5.49 | 52.9 | 5.15 | 50.4 | 4.82 |
| | | 173.0 | 63.3 | 6.80 | 59.8 | 6.16 | 56.7 | 5.58 | 55.5 | 5.31 | 52.9 | 4.99 | 50.4 | 4.66 |
| | | 216.3 | 63.3 | 6.66 | 59.8 | 6.16 | 56.7 | 5.49 | 55.5 | 5.31 | 52.9 | 4.99 | 50.4 | 4.66 |
| | | 259.5 | 63.3 | 6.57 | 59.8 | 6.16 | 56.7 | 5.43 | 55.5 | 5.31 | 52.9 | 4.99 | 50.4 | 4.66 |
| | 45 | 69.2 | 63.3 | 6.74 | 59.8 | 6.06 | 56.7 | 5.00 | 55.5 | 4.85 | 52.9 | 4.53 | 50.4 | 4.36 |
| | | 86.5 | 63.3 | 6.66 | 59.8 | 5.98 | 56.7 | 4.99 | 55.5 | 4.82 | 52.9 | 4.48 | 50.4 | 4.32 |
| | | 173.0 | 63.3 | 6.31 | 59.8 | 5.65 | 56.7 | 4.92 | 55.5 | 4.66 | 52.9 | 4.32 | 50.4 | 4.16 |
| | | 216.3 | 63.3 | 5.98 | 59.8 | 5.65 | 56.7 | 4.82 | 55.5 | 4.66 | 52.9 | 4.32 | 50.4 | 4.16 |
| | | 259.5 | 63.3 | 5.82 | 59.8 | 5.65 | 56.7 | 4.76 | 55.5 | 4.66 | 52.9 | 4.32 | 50.4 | 4.16 |
| 90 | -5 | 69.2 | 21.6 | 9.81 | 20.9 | 8.94 | 20.2 | 7.86 | 20.1 | 7.49 | 20.0 | 7.21 | 19.6 | 6.48 |
| | | 86.5 | 22.3 | 9.99 | 21.6 | 9.11 | 20.9 | 8.02 | 20.7 | 7.65 | 20.7 | 7.37 | 20.3 | 6.62 |
| | | 173.0 | 25.2 | 10.66 | 24.5 | 9.78 | 23.7 | 8.71 | 23.6 | 8.30 | 23.4 | 8.01 | 22.9 | 7.19 |
| | | 216.3 | 27.9 | 11.33 | 27.0 | 10.47 | 26.1 | 9.40 | 25.9 | 8.96 | 25.8 | 8.63 | 25.4 | 7.75 |
| | | 259.5 | 29.2 | 11.67 | 28.2 | 10.82 | 27.4 | 9.75 | 27.2 | 9.28 | 27.0 | 8.94 | 26.5 | 8.04 |
| | 0 | 69.2 | 38.5 | 13.37 | 36.7 | 12.55 | 35.1 | 11.53 | 34.5 | 10.98 | 33.9 | 10.57 | 32.6 | 9.49 |
| | | 86.5 | 38.7 | 13.41 | 36.9 | 12.59 | 35.3 | 11.55 | 34.7 | 11.02 | 34.2 | 10.61 | 32.9 | 9.53 |
| | | 173.0 | 39.6 | 13.55 | 37.8 | 12.72 | 36.0 | 11.67 | 35.5 | 11.14 | 34.9 | 10.73 | 33.7 | 9.63 |
| | | 216.3 | 40.2 | 13.55 | 38.3 | 12.72 | 36.7 | 11.67 | 36.0 | 11.14 | 35.5 | 10.73 | 34.2 | 9.63 |
| | | 259.5 | 40.5 | 13.55 | 38.7 | 12.72 | 36.9 | 11.67 | 36.3 | 11.14 | 35.8 | 10.73 | 34.4 | 9.63 |
| | 5 | 69.2 | 54.4 | 14.36 | 52.6 | 13.55 | 50.9 | 12.54 | 49.9 | 11.95 | 47.7 | 11.51 | 45.4 | 10.33 |
| | | 86.5 | 54.4 | 14.42 | 52.6 | 13.62 | 50.9 | 12.60 | 49.9 | 12.02 | 47.7 | 11.57 | 45.4 | 10.38 |
| | | 173.0 | 54.7 | 14.68 | 52.4 | 13.87 | 50.9 | 12.84 | 49.9 | 12.26 | 47.7 | 11.81 | 45.4 | 10.59 |
| | | 216.3 | 54.9 | 14.77 | 52.6 | 13.96 | 50.9 | 12.94 | 49.9 | 12.34 | 47.7 | 11.90 | 45.4 | 10.68 |
| | | 259.5 | 55.1 | 14.81 | 52.7 | 14.00 | 50.9 | 13.00 | 49.9 | 12.38 | 47.7 | 11.94 | 45.4 | 10.72 |
| | 10 | 69.2 | 54.7 | 12.68 | 52.8 | 12.06 | 50.9 | 11.35 | 49.9 | 10.89 | 47.7 | 10.45 | 45.4 | 9.41 |
| | | 86.5 | 54.7 | 12.68 | 52.7 | 12.06 | 50.9 | 11.37 | 49.9 | 10.89 | 47.7 | 10.43 | 45.4 | 9.42 |
| | | 173.0 | 54.5 | 12.72 | 52.5 | 12.12 | 50.9 | 11.42 | 49.9 | 10.95 | 47.7 | 10.40 | 45.4 | 9.46 |
| | | 216.3 | 54.9 | 12.68 | 52.6 | 12.08 | 50.9 | 11.38 | 49.9 | 10.91 | 47.7 | 10.43 | 45.4 | 9.49 |
| | | 259.5 | 55.1 | 12.66 | 52.7 | 12.06 | 50.9 | 11.37 | 49.9 | 10.89 | 47.7 | 10.45 | 45.4 | 9.51 |
| | 15 | 69.2 | 54.9 | 10.98 | 53.0 | 10.58 | 50.9 | 10.18 | 49.9 | 9.83 | 47.7 | 9.38 | 45.4 | 8.52 |
| | | 86.5 | 54.9 | 10.93 | 52.9 | 10.54 | 50.9 | 10.14 | 49.9 | 9.80 | 47.7 | 9.30 | 45.4 | 8.48 |
| | | 173.0 | 54.5 | 10.76 | 52.5 | 10.36 | 50.9 | 9.97 | 49.9 | 9.65 | 47.7 | 8.98 | 45.4 | 8.30 |
| | | 216.3 | 54.9 | 10.61 | 52.7 | 10.21 | 50.9 | 9.80 | 49.9 | 9.47 | 47.7 | 8.98 | 45.4 | 8.30 |
| | | 259.5 | 55.1 | 10.53 | 52.8 | 10.13 | 50.9 | 9.71 | 49.9 | 9.39 | 47.7 | 8.98 | 45.4 | 8.30 |
| | 20 | 69.2 | 55.3 | 9.26 | 53.3 | 9.00 | 50.9 | 8.69 | 49.9 | 8.34 | 47.7 | 8.06 | 45.4 | 7.56 |
| | | 86.5 | 55.2 | 9.26 | 53.1 | 8.98 | 50.9 | 8.64 | 49.9 | 8.30 | 47.7 | 7.97 | 45.4 | 7.48 |
| | | 173.0 | 55.0 | 9.26 | 52.7 | 8.87 | 50.9 | 8.48 | 49.9 | 8.15 | 47.7 | 7.65 | 45.4 | 7.15 |
| | | 216.3 | 55.2 | 9.11 | 52.9 | 8.80 | 50.9 | 8.48 | 49.9 | 8.15 | 47.7 | 7.65 | 45.4 | 7.15 |
| | | 259.5 | 55.3 | 9.03 | 52.9 | 8.77 | 50.9 | 8.48 | 49.9 | 8.15 | 47.7 | 7.65 | 45.4 | 7.15 |
| | 25 | 69.2 | 56.2 | 8.09 | 53.9 | 7.67 | 50.9 | 7.35 | 49.9 | 6.98 | 47.7 | 6.69 | 45.4 | 6.20 |
| | | 86.5 | 56.3 | 8.08 | 53.9 | 7.65 | 50.9 | 7.31 | 49.9 | 6.98 | 47.7 | 6.66 | 45.4 | 6.16 |
| | | 173.0 | 56.9 | 8.01 | 53.9 | 7.58 | 50.9 | 7.15 | 49.9 | 6.98 | 47.7 | 6.48 | 45.4 | 5.98 |
| | | 216.3 | 57.1 | 7.81 | 53.9 | 7.41 | 50.9 | 7.15 | 49.9 | 6.80 | 47.7 | 6.48 | 45.4 | 5.98 |
| | | 259.5 | 57.2 | 7.70 | 53.9 | 7.32 | 50.9 | 7.15 | 49.9 | 6.73 | 47.7 | 6.48 | 45.4 | 5.98 |
| | 30 | 69.2 | 57.1 | 7.35 | 53.9 | 6.85 | 50.9 | 6.34 | 49.9 | 6.20 | 47.7 | 5.85 | 45.4 | 5.31 |
| | | 86.5 | 57.1 | 7.31 | 53.9 | 6.80 | 50.9 | 6.31 | 49.9 | 6.16 | 47.7 | 5.81 | 45.4 | 5.31 |
| | | 173.0 | 57.1 | 7.15 | 53.9 | 6.66 | 50.9 | 6.16 | 49.9 | 5.98 | 47.7 | 5.65 | 45.4 | 5.31 |
| | | 216.3 | 57.1 | 6.98 | 53.9 | 6.48 | 50.9 | 6.16 | 49.9 | 5.98 | 47.7 | 5.65 | 45.4 | 5.15 |
| | | 259.5 | 57.1 | 6.89 | 53.9 | 6.39 | 50.9 | 6.16 | 49.9 | 5.98 | 47.7 | 5.65 | 45.4 | 5.08 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 69.2 | 57.1 | 6.69 | 53.9 | 6.20 | 50.9 | 5.70 | 49.9 | 5.53 | 47.7 | 5.20 | 45.4 | 4.85 |
| | | 86.5 | 57.1 | 6.66 | 53.9 | 6.16 | 50.9 | 5.65 | 49.9 | 5.49 | 47.7 | 5.15 | 45.4 | 4.82 |
| | | 173.0 | 57.1 | 6.48 | 53.9 | 5.98 | 50.9 | 5.49 | 49.9 | 5.31 | 47.7 | 4.99 | 45.4 | 4.66 |
| | | 216.3 | 57.1 | 6.31 | 53.9 | 5.81 | 50.9 | 5.31 | 49.9 | 5.15 | 47.7 | 4.99 | 45.4 | 4.66 |
| | | 259.5 | 57.1 | 6.22 | 53.9 | 5.72 | 50.9 | 5.22 | 49.9 | 5.08 | 47.7 | 4.99 | 45.4 | 4.66 |
| | 40 | 69.2 | 57.1 | 6.24 | 53.9 | 5.70 | 50.9 | 5.03 | 49.9 | 4.85 | 47.7 | 4.71 | 45.4 | 4.36 |
| | | 86.5 | 57.1 | 6.16 | 53.9 | 5.65 | 50.9 | 4.99 | 49.9 | 4.82 | 47.7 | 4.66 | 45.4 | 4.32 |
| | | 173.0 | 57.1 | 5.81 | 53.9 | 5.49 | 50.9 | 4.82 | 49.9 | 4.66 | 47.7 | 4.48 | 45.4 | 4.16 |
| | | 216.3 | 57.1 | 5.81 | 53.9 | 5.49 | 50.9 | 4.82 | 49.9 | 4.66 | 47.7 | 4.48 | 45.4 | 4.16 |
| | | 259.5 | 57.1 | 5.81 | 53.9 | 5.49 | 50.9 | 4.82 | 49.9 | 4.66 | 47.7 | 4.48 | 45.4 | 4.16 |
| | 45 | 69.2 | 57.1 | 5.78 | 53.9 | 5.20 | 50.9 | 4.36 | 49.9 | 4.20 | 47.7 | 4.20 | 45.4 | 3.86 |
| | | 86.5 | 57.1 | 5.65 | 53.9 | 5.15 | 50.9 | 4.32 | 49.9 | 4.16 | 47.7 | 4.16 | 45.4 | 3.81 |
| | | 173.0 | 57.1 | 5.15 | 53.9 | 4.99 | 50.9 | 4.16 | 49.9 | 3.99 | 47.7 | 3.99 | 45.4 | 3.66 |
| | | 216.3 | 57.1 | 5.31 | 53.9 | 5.15 | 50.9 | 4.32 | 49.9 | 4.16 | 47.7 | 3.99 | 45.4 | 3.66 |
| | | 259.5 | 57.1 | 5.39 | 53.9 | 5.24 | 50.9 | 4.39 | 49.9 | 4.25 | 47.7 | 3.99 | 45.4 | 3.66 |
| 80 | -5 | 69.2 | 20.3 | 6.99 | 19.1 | 6.73 | 18.0 | 6.45 | 17.8 | 6.23 | 17.8 | 5.93 | 17.4 | 5.47 |
| | | 86.5 | 21.1 | 7.15 | 19.8 | 6.87 | 18.7 | 6.59 | 18.5 | 6.36 | 18.4 | 6.07 | 18.0 | 5.58 |
| | | 173.0 | 23.8 | 7.77 | 22.3 | 7.46 | 21.1 | 7.14 | 20.9 | 6.89 | 20.7 | 6.59 | 20.3 | 6.05 |
| | | 216.3 | 26.3 | 8.37 | 24.6 | 8.04 | 23.4 | 7.70 | 23.0 | 7.44 | 22.9 | 7.10 | 22.5 | 6.53 |
| | | 259.5 | 27.6 | 8.68 | 25.8 | 8.34 | 24.5 | 7.99 | 24.1 | 7.72 | 24.1 | 7.36 | 23.6 | 6.78 |
| | 0 | 69.2 | 36.3 | 10.27 | 33.5 | 9.85 | 31.2 | 9.44 | 30.6 | 9.12 | 30.2 | 8.69 | 29.0 | 8.00 |
| | | 86.5 | 36.5 | 10.29 | 33.7 | 9.88 | 31.3 | 9.47 | 30.8 | 9.14 | 30.4 | 8.71 | 29.2 | 8.02 |
| | | 173.0 | 37.4 | 10.41 | 34.5 | 10.00 | 32.1 | 9.58 | 31.5 | 9.25 | 31.1 | 8.82 | 29.9 | 8.11 |
| | | 216.3 | 38.0 | 10.41 | 35.1 | 10.00 | 32.6 | 9.58 | 32.0 | 9.25 | 31.6 | 8.82 | 30.4 | 8.11 |
| | | 259.5 | 38.2 | 10.41 | 35.3 | 10.00 | 32.9 | 9.58 | 32.2 | 9.25 | 31.8 | 8.82 | 30.6 | 8.11 |
| | 5 | 69.2 | 50.2 | 11.16 | 47.4 | 10.75 | 45.4 | 10.26 | 44.3 | 9.92 | 42.5 | 9.46 | 40.3 | 8.70 |
| | | 86.5 | 50.4 | 11.23 | 47.5 | 10.80 | 45.4 | 10.31 | 44.3 | 9.97 | 42.5 | 9.51 | 40.3 | 8.75 |
| | | 173.0 | 50.8 | 11.46 | 47.9 | 11.00 | 45.4 | 10.54 | 44.3 | 10.18 | 42.5 | 9.69 | 40.3 | 8.94 |
| | | 216.3 | 50.8 | 11.53 | 47.9 | 11.09 | 45.4 | 10.61 | 44.3 | 10.25 | 42.5 | 9.76 | 40.3 | 8.99 |
| | | 259.5 | 50.8 | 11.57 | 47.8 | 11.14 | 45.4 | 10.64 | 44.3 | 10.27 | 42.5 | 9.80 | 40.3 | 9.01 |
| | 10 | 69.2 | 50.6 | 10.27 | 47.7 | 9.81 | 45.4 | 9.31 | 44.3 | 9.05 | 42.5 | 8.57 | 40.3 | 7.94 |
| | | 86.5 | 50.6 | 10.27 | 47.7 | 9.80 | 45.4 | 9.32 | 44.3 | 9.06 | 42.5 | 8.57 | 40.3 | 7.94 |
| | | 173.0 | 50.8 | 10.21 | 47.9 | 9.74 | 45.4 | 9.33 | 44.3 | 9.08 | 42.5 | 8.59 | 40.3 | 7.95 |
| | | 216.3 | 50.8 | 10.18 | 47.9 | 9.78 | 45.4 | 9.37 | 44.3 | 9.03 | 42.5 | 8.54 | 40.3 | 7.91 |
| | | 259.5 | 50.8 | 10.16 | 47.8 | 9.80 | 45.4 | 9.39 | 44.3 | 9.00 | 42.5 | 8.52 | 40.3 | 7.88 |
| | 15 | 69.2 | 50.8 | 9.38 | 47.9 | 8.89 | 45.4 | 8.34 | 44.3 | 8.20 | 42.5 | 7.69 | 40.3 | 7.19 |
| | | 86.5 | 50.8 | 9.30 | 47.9 | 8.80 | 45.4 | 8.30 | 44.3 | 8.15 | 42.5 | 7.65 | 40.3 | 7.15 |
| | | 173.0 | 50.8 | 8.98 | 47.9 | 8.48 | 45.4 | 8.15 | 44.3 | 7.97 | 42.5 | 7.48 | 40.3 | 6.98 |
| | | 216.3 | 50.8 | 8.80 | 47.9 | 8.48 | 45.4 | 8.15 | 44.3 | 7.81 | 42.5 | 7.31 | 40.3 | 6.80 |
| | | 259.5 | 50.8 | 8.71 | 47.9 | 8.48 | 45.4 | 8.15 | 44.3 | 7.72 | 42.5 | 7.22 | 40.3 | 6.73 |
| | 20 | 69.2 | 50.8 | 7.84 | 47.9 | 7.52 | 45.4 | 7.15 | 44.3 | 7.03 | 42.5 | 6.69 | 40.3 | 6.20 |
| | | 86.5 | 50.8 | 7.81 | 47.9 | 7.48 | 45.4 | 7.15 | 44.3 | 6.98 | 42.5 | 6.66 | 40.3 | 6.16 |
| | | 173.0 | 50.8 | 7.65 | 47.9 | 7.31 | 45.4 | 7.15 | 44.3 | 6.80 | 42.5 | 6.48 | 40.3 | 5.98 |
| | | 216.3 | 50.8 | 7.48 | 47.9 | 7.15 | 45.4 | 6.98 | 44.3 | 6.80 | 42.5 | 6.31 | 40.3 | 5.98 |
| | | 259.5 | 50.8 | 7.39 | 47.9 | 7.07 | 45.4 | 6.89 | 44.3 | 6.80 | 42.5 | 6.22 | 40.3 | 5.98 |
| | 25 | 69.2 | 50.8 | 7.03 | 47.9 | 6.52 | 45.4 | 6.16 | 44.3 | 6.02 | 42.5 | 5.70 | 40.3 | 5.35 |
| | | 86.5 | 50.8 | 6.98 | 47.9 | 6.48 | 45.4 | 6.16 | 44.3 | 5.98 | 42.5 | 5.65 | 40.3 | 5.31 |
| | | 173.0 | 50.8 | 6.80 | 47.9 | 6.31 | 45.4 | 6.16 | 44.3 | 5.81 | 42.5 | 5.49 | 40.3 | 5.15 |
| | | 216.3 | 50.8 | 6.66 | 47.9 | 6.31 | 45.4 | 5.98 | 44.3 | 5.81 | 42.5 | 5.49 | 40.3 | 5.15 |
| | | 259.5 | 50.8 | 6.57 | 47.9 | 6.31 | 45.4 | 5.90 | 44.3 | 5.81 | 42.5 | 5.49 | 40.3 | 5.15 |
| | 30 | 69.2 | 50.8 | 6.20 | 47.9 | 5.85 | 45.4 | 5.53 | 44.3 | 5.35 | 42.5 | 5.03 | 40.3 | 4.71 |
| | | 86.5 | 50.8 | 6.16 | 47.9 | 5.81 | 45.4 | 5.49 | 44.3 | 5.31 | 42.5 | 4.99 | 40.3 | 4.66 |
| | | 173.0 | 50.8 | 5.98 | 47.9 | 5.65 | 45.4 | 5.31 | 44.3 | 5.15 | 42.5 | 4.82 | 40.3 | 4.48 |
| | | 216.3 | 50.8 | 5.98 | 47.9 | 5.65 | 45.4 | 5.31 | 44.3 | 5.15 | 42.5 | 4.82 | 40.3 | 4.48 |
| | | 259.5 | 50.8 | 5.98 | 47.9 | 5.65 | 45.4 | 5.31 | 44.3 | 5.15 | 42.5 | 4.82 | 40.3 | 4.48 |
| | 35 | 69.2 | 50.8 | 5.70 | 47.9 | 5.35 | 45.4 | 4.85 | 44.3 | 4.66 | 42.5 | 4.53 | 40.3 | 4.16 |
| | | 86.5 | 50.8 | 5.65 | 47.9 | 5.31 | 45.4 | 4.82 | 44.3 | 4.66 | 42.5 | 4.48 | 40.3 | 4.16 |
| | | 173.0 | 50.8 | 5.49 | 47.9 | 5.15 | 45.4 | 4.66 | 44.3 | 4.66 | 42.5 | 4.32 | 40.3 | 4.16 |
| | | 216.3 | 50.8 | 5.49 | 47.9 | 4.99 | 45.4 | 4.66 | 44.3 | 4.48 | 42.5 | 4.32 | 40.3 | 3.99 |
| | | 259.5 | 50.8 | 5.49 | 47.9 | 4.90 | 45.4 | 4.66 | 44.3 | 4.40 | 42.5 | 4.32 | 40.3 | 3.90 |
| | 40 | 69.2 | 50.8 | 5.40 | 47.9 | 4.85 | 45.4 | 4.32 | 44.3 | 4.36 | 42.5 | 3.99 | 40.3 | 3.86 |
| | | 86.5 | 50.8 | 5.31 | 47.9 | 4.82 | 45.4 | 4.32 | 44.3 | 4.32 | 42.5 | 3.99 | 40.3 | 3.81 |
| | | 173.0 | 50.8 | 4.99 | 47.9 | 4.66 | 45.4 | 4.32 | 44.3 | 4.16 | 42.5 | 3.99 | 40.3 | 3.66 |
| | | 216.3 | 50.8 | 4.99 | 47.9 | 4.66 | 45.4 | 4.16 | 44.3 | 4.16 | 42.5 | 3.99 | 40.3 | 3.66 |
| | | 259.5 | 50.8 | 4.99 | 47.9 | 4.66 | 45.4 | 4.09 | 44.3 | 4.16 | 42.5 | 3.99 | 40.3 | 3.66 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 69.2 | 50.8 | 5.11 | 47.9 | 4.36 | 45.4 | 3.77 | 44.3 | 4.07 | 42.5 | 3.45 | 40.3 | 3.57 |
| | | 86.5 | 50.8 | 4.99 | 47.9 | 4.32 | 45.4 | 3.81 | 44.3 | 3.99 | 42.5 | 3.49 | 40.3 | 3.49 |
| | | 173.0 | 50.8 | 4.48 | 47.9 | 4.16 | 45.4 | 3.99 | 44.3 | 3.66 | 42.5 | 3.66 | 40.3 | 3.17 |
| | | 216.3 | 50.8 | 4.48 | 47.9 | 4.32 | 45.4 | 3.66 | 44.3 | 3.81 | 42.5 | 3.66 | 40.3 | 3.31 |
| | | 259.5 | 50.8 | 4.48 | 47.9 | 4.39 | 45.4 | 3.49 | 44.3 | 3.90 | 42.5 | 3.66 | 40.3 | 3.40 |
| 70 | -5 | 69.2 | 17.8 | 6.00 | 16.7 | 5.72 | 15.8 | 5.53 | 15.6 | 5.22 | 15.5 | 5.03 | 15.3 | 4.57 |
| | | 86.5 | 18.4 | 6.14 | 17.3 | 5.84 | 16.3 | 5.65 | 16.2 | 5.33 | 16.0 | 5.14 | 15.8 | 4.68 |
| | | 173.0 | 20.7 | 6.66 | 19.5 | 6.34 | 18.4 | 6.14 | 18.2 | 5.77 | 18.2 | 5.57 | 17.8 | 5.07 |
| | | 216.3 | 23.0 | 7.19 | 21.6 | 6.84 | 20.3 | 6.62 | 20.2 | 6.22 | 20.0 | 6.02 | 19.6 | 5.47 |
| | | 259.5 | 24.1 | 7.45 | 22.6 | 7.10 | 21.4 | 6.86 | 21.2 | 6.45 | 21.0 | 6.24 | 20.6 | 5.67 |
| | 0 | 69.2 | 31.8 | 8.79 | 29.4 | 8.38 | 27.2 | 8.11 | 26.8 | 7.63 | 26.4 | 7.37 | 25.4 | 6.71 |
| | | 86.5 | 32.0 | 8.82 | 29.5 | 8.41 | 27.4 | 8.13 | 27.0 | 7.65 | 26.5 | 7.39 | 25.6 | 6.73 |
| | | 173.0 | 32.7 | 8.92 | 30.2 | 8.50 | 28.1 | 8.23 | 27.6 | 7.74 | 27.2 | 7.48 | 26.1 | 6.79 |
| | | 216.3 | 33.1 | 8.92 | 30.7 | 8.50 | 28.5 | 8.23 | 28.0 | 7.74 | 27.6 | 7.48 | 26.6 | 6.79 |
| | | 259.5 | 33.5 | 8.92 | 30.9 | 8.50 | 28.7 | 8.23 | 28.2 | 7.74 | 27.8 | 7.48 | 26.8 | 6.79 |
| | 5 | 69.2 | 43.9 | 9.58 | 41.6 | 9.12 | 39.6 | 8.82 | 38.7 | 8.32 | 37.1 | 8.02 | 35.3 | 7.28 |
| | | 86.5 | 44.0 | 9.63 | 41.6 | 9.16 | 39.6 | 8.87 | 38.7 | 8.36 | 37.1 | 8.06 | 35.3 | 7.33 |
| | | 173.0 | 44.3 | 9.81 | 42.0 | 9.35 | 39.6 | 9.06 | 38.7 | 8.50 | 37.1 | 8.23 | 35.3 | 7.48 |
| | | 216.3 | 44.3 | 9.88 | 41.9 | 9.42 | 39.6 | 9.12 | 38.7 | 8.57 | 37.1 | 8.29 | 35.3 | 7.53 |
| | | 259.5 | 44.3 | 9.92 | 41.9 | 9.46 | 39.6 | 9.16 | 38.7 | 8.61 | 37.1 | 8.31 | 35.3 | 7.56 |
| | 10 | 69.2 | 44.1 | 8.82 | 41.7 | 8.34 | 39.6 | 8.02 | 38.7 | 7.58 | 37.1 | 7.28 | 35.3 | 6.66 |
| | | 86.5 | 44.1 | 8.80 | 41.8 | 8.32 | 39.6 | 8.01 | 38.7 | 7.58 | 37.1 | 7.28 | 35.3 | 6.66 |
| | | 173.0 | 44.3 | 8.73 | 41.9 | 8.25 | 39.6 | 7.94 | 38.7 | 7.58 | 37.1 | 7.28 | 35.3 | 6.66 |
| | | 216.3 | 44.3 | 8.77 | 41.9 | 8.29 | 39.6 | 7.97 | 38.7 | 7.61 | 37.1 | 7.22 | 35.3 | 6.67 |
| | | 259.5 | 44.3 | 8.78 | 41.9 | 8.30 | 39.6 | 7.99 | 38.7 | 7.63 | 37.1 | 7.19 | 35.3 | 6.68 |
| | 15 | 69.2 | 44.3 | 8.06 | 41.9 | 7.56 | 39.6 | 7.24 | 38.7 | 6.85 | 37.1 | 6.52 | 35.3 | 6.02 |
| | | 86.5 | 44.3 | 7.97 | 41.9 | 7.48 | 39.6 | 7.15 | 38.7 | 6.80 | 37.1 | 6.48 | 35.3 | 5.98 |
| | | 173.0 | 44.3 | 7.65 | 41.9 | 7.15 | 39.6 | 6.80 | 38.7 | 6.66 | 37.1 | 6.31 | 35.3 | 5.81 |
| | | 216.3 | 44.3 | 7.65 | 41.9 | 7.15 | 39.6 | 6.80 | 38.7 | 6.66 | 37.1 | 6.16 | 35.3 | 5.81 |
| | | 259.5 | 44.3 | 7.65 | 41.9 | 7.15 | 39.6 | 6.80 | 38.7 | 6.66 | 37.1 | 6.07 | 35.3 | 5.81 |
| | 20 | 69.2 | 44.3 | 6.69 | 41.9 | 6.34 | 39.6 | 6.20 | 38.7 | 6.02 | 37.1 | 5.70 | 35.3 | 5.35 |
| | | 86.5 | 44.3 | 6.66 | 41.9 | 6.31 | 39.6 | 6.16 | 38.7 | 5.98 | 37.1 | 5.65 | 35.3 | 5.31 |
| | | 173.0 | 44.3 | 6.48 | 41.9 | 6.16 | 39.6 | 5.98 | 38.7 | 5.81 | 37.1 | 5.49 | 35.3 | 5.15 |
| | | 216.3 | 44.3 | 6.48 | 41.9 | 6.16 | 39.6 | 5.98 | 38.7 | 5.65 | 37.1 | 5.49 | 35.3 | 4.99 |
| | | 259.5 | 44.3 | 6.48 | 41.9 | 6.16 | 39.6 | 5.98 | 38.7 | 5.58 | 37.1 | 5.49 | 35.3 | 4.90 |
| | 25 | 69.2 | 44.3 | 6.02 | 41.9 | 5.70 | 39.6 | 5.35 | 38.7 | 5.20 | 37.1 | 4.82 | 35.3 | 4.48 |
| | | 86.5 | 44.3 | 5.98 | 41.9 | 5.65 | 39.6 | 5.31 | 38.7 | 5.15 | 37.1 | 4.82 | 35.3 | 4.48 |
| | | 173.0 | 44.3 | 5.81 | 41.9 | 5.49 | 39.6 | 5.15 | 38.7 | 4.99 | 37.1 | 4.82 | 35.3 | 4.48 |
| | | 216.3 | 44.3 | 5.65 | 41.9 | 5.31 | 39.6 | 5.15 | 38.7 | 4.99 | 37.1 | 4.66 | 35.3 | 4.48 |
| | | 259.5 | 44.3 | 5.58 | 41.9 | 5.22 | 39.6 | 5.15 | 38.7 | 4.99 | 37.1 | 4.58 | 35.3 | 4.48 |
| | 30 | 69.2 | 44.3 | 5.35 | 41.9 | 5.03 | 39.6 | 4.71 | 38.7 | 4.48 | 37.1 | 4.36 | 35.3 | 3.99 |
| | | 86.5 | 44.3 | 5.31 | 41.9 | 4.99 | 39.6 | 4.66 | 38.7 | 4.48 | 37.1 | 4.32 | 35.3 | 3.99 |
| | | 173.0 | 44.3 | 5.15 | 41.9 | 4.82 | 39.6 | 4.48 | 38.7 | 4.48 | 37.1 | 4.16 | 35.3 | 3.99 |
| | | 216.3 | 44.3 | 5.15 | 41.9 | 4.82 | 39.6 | 4.48 | 38.7 | 4.32 | 37.1 | 4.16 | 35.3 | 3.99 |
| | | 259.5 | 44.3 | 5.15 | 41.9 | 4.82 | 39.6 | 4.48 | 38.7 | 4.23 | 37.1 | 4.16 | 35.3 | 3.99 |
| | 35 | 69.2 | 44.3 | 4.85 | 41.9 | 4.53 | 39.6 | 4.16 | 38.7 | 4.20 | 37.1 | 3.81 | 35.3 | 3.70 |
| | | 86.5 | 44.3 | 4.82 | 41.9 | 4.48 | 39.6 | 4.16 | 38.7 | 4.16 | 37.1 | 3.81 | 35.3 | 3.66 |
| | | 173.0 | 44.3 | 4.66 | 41.9 | 4.32 | 39.6 | 4.16 | 38.7 | 3.99 | 37.1 | 3.81 | 35.3 | 3.49 |
| | | 216.3 | 44.3 | 4.66 | 41.9 | 4.32 | 39.6 | 3.99 | 38.7 | 3.99 | 37.1 | 3.81 | 35.3 | 3.49 |
| | | 259.5 | 44.3 | 4.66 | 41.9 | 4.32 | 39.6 | 3.90 | 38.7 | 3.99 | 37.1 | 3.81 | 35.3 | 3.49 |
| | 40 | 69.2 | 44.3 | 4.53 | 41.9 | 4.20 | 39.6 | 3.86 | 38.7 | 3.66 | 37.1 | 3.49 | 35.3 | 3.36 |
| | | 86.5 | 44.3 | 4.48 | 41.9 | 4.16 | 39.6 | 3.81 | 38.7 | 3.66 | 37.1 | 3.49 | 35.3 | 3.31 |
| | | 173.0 | 44.3 | 4.32 | 41.9 | 3.99 | 39.6 | 3.66 | 38.7 | 3.66 | 37.1 | 3.49 | 35.3 | 3.17 |
| | | 216.3 | 44.3 | 4.32 | 41.9 | 3.99 | 39.6 | 3.66 | 38.7 | 3.49 | 37.1 | 3.31 | 35.3 | 3.17 |
| | | 259.5 | 44.3 | 4.32 | 41.9 | 3.99 | 39.6 | 3.66 | 38.7 | 3.40 | 37.1 | 3.23 | 35.3 | 3.17 |
| | 45 | 69.2 | 44.3 | 4.20 | 41.9 | 3.86 | 39.6 | 3.57 | 38.7 | 3.12 | 37.1 | 3.17 | 35.3 | 3.03 |
| | | 86.5 | 44.3 | 4.16 | 41.9 | 3.81 | 39.6 | 3.49 | 38.7 | 3.17 | 37.1 | 3.17 | 35.3 | 2.99 |
| | | 173.0 | 44.3 | 3.99 | 41.9 | 3.66 | 39.6 | 3.17 | 38.7 | 3.31 | 37.1 | 3.17 | 35.3 | 2.82 |
| | | 216.3 | 44.3 | 3.99 | 41.9 | 3.66 | 39.6 | 3.31 | 38.7 | 2.99 | 37.1 | 2.82 | 35.3 | 2.82 |
| | | 259.5 | 44.3 | 3.99 | 41.9 | 3.66 | 39.6 | 3.40 | 38.7 | 2.83 | 37.1 | 2.64 | 35.3 | 2.82 |
| 60 | -5 | 69.2 | 15.3 | 4.87 | 14.2 | 4.69 | 13.5 | 4.51 | 13.3 | 4.19 | 13.3 | 4.12 | 13.0 | 3.68 |
| | | 86.5 | 15.8 | 4.99 | 14.8 | 4.80 | 14.0 | 4.61 | 13.8 | 4.28 | 13.7 | 4.21 | 13.5 | 3.77 |
| | | 173.0 | 17.8 | 5.42 | 16.7 | 5.21 | 15.8 | 5.00 | 15.7 | 4.64 | 15.6 | 4.57 | 15.3 | 4.09 |
| | | 216.3 | 19.8 | 5.83 | 18.5 | 5.62 | 17.5 | 5.40 | 17.3 | 5.01 | 17.3 | 4.94 | 16.9 | 4.40 |
| | | 259.5 | 20.7 | 6.04 | 19.3 | 5.83 | 18.4 | 5.60 | 18.2 | 5.21 | 18.0 | 5.12 | 17.7 | 4.55 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 69.2 | 27.2 | 7.15 | 25.2 | 6.89 | 23.4 | 6.59 | 23.0 | 6.14 | 22.7 | 6.05 | 21.8 | 5.40 |
| | | 86.5 | 27.4 | 7.17 | 25.2 | 6.91 | 23.6 | 6.62 | 23.1 | 6.16 | 22.8 | 6.07 | 22.0 | 5.42 |
| | | 173.0 | 28.1 | 7.26 | 25.9 | 6.98 | 24.1 | 6.71 | 23.6 | 6.22 | 23.4 | 6.14 | 22.5 | 5.47 |
| | | 216.3 | 28.5 | 7.26 | 26.3 | 6.98 | 24.5 | 6.71 | 24.0 | 6.22 | 23.7 | 6.14 | 22.8 | 5.47 |
| | | 259.5 | 28.7 | 7.26 | 26.5 | 6.98 | 24.7 | 6.71 | 24.1 | 6.22 | 23.9 | 6.14 | 23.0 | 5.47 |
| | 5 | 69.2 | 37.6 | 7.78 | 35.5 | 7.49 | 34.0 | 7.18 | 33.3 | 6.69 | 31.8 | 6.59 | 30.3 | 5.86 |
| | | 86.5 | 37.8 | 7.82 | 35.6 | 7.53 | 34.0 | 7.22 | 33.3 | 6.73 | 31.8 | 6.62 | 30.3 | 5.90 |
| | | 173.0 | 38.1 | 7.97 | 35.8 | 7.68 | 34.0 | 7.37 | 33.3 | 6.86 | 31.8 | 6.75 | 30.3 | 6.02 |
| | | 216.3 | 38.1 | 8.04 | 35.8 | 7.74 | 34.0 | 7.42 | 33.3 | 6.91 | 31.8 | 6.79 | 30.3 | 6.07 |
| | | 259.5 | 38.1 | 8.08 | 35.8 | 7.76 | 34.0 | 7.45 | 33.3 | 6.94 | 31.8 | 6.80 | 30.3 | 6.09 |
| | 10 | 69.2 | 37.8 | 7.15 | 35.7 | 6.84 | 34.0 | 6.52 | 33.3 | 6.09 | 31.8 | 5.97 | 30.3 | 5.35 |
| | | 86.5 | 38.0 | 7.15 | 35.7 | 6.84 | 34.0 | 6.52 | 33.3 | 6.11 | 31.8 | 5.97 | 30.3 | 5.36 |
| | | 173.0 | 38.1 | 7.15 | 35.8 | 6.84 | 34.0 | 6.52 | 33.3 | 6.17 | 31.8 | 5.95 | 30.3 | 5.42 |
| | | 216.3 | 38.1 | 7.17 | 35.8 | 6.77 | 34.0 | 6.45 | 33.3 | 6.11 | 31.8 | 5.90 | 30.3 | 5.36 |
| | | 259.5 | 38.1 | 7.17 | 35.8 | 6.73 | 34.0 | 6.41 | 33.3 | 6.07 | 31.8 | 5.87 | 30.3 | 5.33 |
| | 15 | 69.2 | 38.1 | 6.52 | 35.8 | 6.20 | 34.0 | 5.85 | 33.3 | 5.49 | 31.8 | 5.35 | 30.3 | 4.82 |
| | | 86.5 | 38.1 | 6.48 | 35.8 | 6.16 | 34.0 | 5.81 | 33.3 | 5.49 | 31.8 | 5.31 | 30.3 | 4.82 |
| | | 173.0 | 38.1 | 6.31 | 35.8 | 5.98 | 34.0 | 5.65 | 33.3 | 5.49 | 31.8 | 5.15 | 30.3 | 4.82 |
| | | 216.3 | 38.1 | 6.31 | 35.8 | 5.81 | 34.0 | 5.49 | 33.3 | 5.31 | 31.8 | 4.99 | 30.3 | 4.66 |
| | | 259.5 | 38.1 | 6.31 | 35.8 | 5.72 | 34.0 | 5.40 | 33.3 | 5.22 | 31.8 | 4.90 | 30.3 | 4.58 |
| | 20 | 69.2 | 38.1 | 5.70 | 35.8 | 5.35 | 34.0 | 5.03 | 33.3 | 4.85 | 31.8 | 4.71 | 30.3 | 4.36 |
| | | 86.5 | 38.1 | 5.65 | 35.8 | 5.31 | 34.0 | 4.99 | 33.3 | 4.82 | 31.8 | 4.66 | 30.3 | 4.32 |
| | | 173.0 | 38.1 | 5.49 | 35.8 | 5.15 | 34.0 | 4.82 | 33.3 | 4.66 | 31.8 | 4.48 | 30.3 | 4.16 |
| | | 216.3 | 38.1 | 5.49 | 35.8 | 5.15 | 34.0 | 4.82 | 33.3 | 4.66 | 31.8 | 4.48 | 30.3 | 4.16 |
| | | 259.5 | 38.1 | 5.49 | 35.8 | 5.15 | 34.0 | 4.82 | 33.3 | 4.66 | 31.8 | 4.48 | 30.3 | 4.16 |
| | 25 | 69.2 | 38.1 | 5.03 | 35.8 | 4.71 | 34.0 | 4.32 | 33.3 | 4.36 | 31.8 | 3.99 | 30.3 | 3.86 |
| | | 86.5 | 38.1 | 4.99 | 35.8 | 4.66 | 34.0 | 4.32 | 33.3 | 4.32 | 31.8 | 3.99 | 30.3 | 3.81 |
| | | 173.0 | 38.1 | 4.82 | 35.8 | 4.48 | 34.0 | 4.32 | 33.3 | 4.16 | 31.8 | 3.99 | 30.3 | 3.66 |
| | | 216.3 | 38.1 | 4.82 | 35.8 | 4.48 | 34.0 | 4.16 | 33.3 | 4.16 | 31.8 | 3.99 | 30.3 | 3.66 |
| | | 259.5 | 38.1 | 4.82 | 35.8 | 4.48 | 34.0 | 4.09 | 33.3 | 4.16 | 31.8 | 3.99 | 30.3 | 3.66 |
| | 30 | 69.2 | 38.1 | 4.53 | 35.8 | 4.20 | 34.0 | 4.03 | 33.3 | 3.86 | 31.8 | 3.70 | 30.3 | 3.54 |
| | | 86.5 | 38.1 | 4.48 | 35.8 | 4.16 | 34.0 | 3.99 | 33.3 | 3.81 | 31.8 | 3.66 | 30.3 | 3.49 |
| | | 173.0 | 38.1 | 4.32 | 35.8 | 3.99 | 34.0 | 3.81 | 33.3 | 3.66 | 31.8 | 3.49 | 30.3 | 3.31 |
| | | 216.3 | 38.1 | 4.32 | 35.8 | 3.99 | 34.0 | 3.81 | 33.3 | 3.66 | 31.8 | 3.49 | 30.3 | 3.31 |
| | | 259.5 | 38.1 | 4.32 | 35.8 | 3.99 | 34.0 | 3.81 | 33.3 | 3.66 | 31.8 | 3.49 | 30.3 | 3.31 |
| | 35 | 69.2 | 38.1 | 3.99 | 35.8 | 3.86 | 34.0 | 3.49 | 33.3 | 3.54 | 31.8 | 3.36 | 30.3 | 3.21 |
| | | 86.5 | 38.1 | 3.99 | 35.8 | 3.81 | 34.0 | 3.49 | 33.3 | 3.49 | 31.8 | 3.31 | 30.3 | 3.17 |
| | | 173.0 | 38.1 | 3.99 | 35.8 | 3.66 | 34.0 | 3.49 | 33.3 | 3.31 | 31.8 | 3.17 | 30.3 | 2.99 |
| | | 216.3 | 38.1 | 3.99 | 35.8 | 3.66 | 34.0 | 3.31 | 33.3 | 3.31 | 31.8 | 3.17 | 30.3 | 2.99 |
| | | 259.5 | 38.1 | 3.99 | 35.8 | 3.66 | 34.0 | 3.23 | 33.3 | 3.31 | 31.8 | 3.17 | 30.3 | 2.99 |
| | 40 | 69.2 | 38.1 | 3.66 | 35.8 | 3.54 | 34.0 | 3.17 | 33.3 | 3.21 | 31.8 | 3.03 | 30.3 | 2.82 |
| | | 86.5 | 38.1 | 3.66 | 35.8 | 3.49 | 34.0 | 3.17 | 33.3 | 3.17 | 31.8 | 2.99 | 30.3 | 2.82 |
| | | 173.0 | 38.1 | 3.66 | 35.8 | 3.31 | 34.0 | 3.17 | 33.3 | 2.99 | 31.8 | 2.82 | 30.3 | 2.82 |
| | | 216.3 | 38.1 | 3.66 | 35.8 | 3.31 | 34.0 | 3.17 | 33.3 | 2.99 | 31.8 | 2.82 | 30.3 | 2.82 |
| | | 259.5 | 38.1 | 3.66 | 35.8 | 3.31 | 34.0 | 3.17 | 33.3 | 2.99 | 31.8 | 2.82 | 30.3 | 2.82 |
| | 45 | 69.2 | 38.1 | 3.31 | 35.8 | 3.21 | 34.0 | 2.82 | 33.3 | 2.85 | 31.8 | 2.71 | 30.3 | 2.45 |
| | | 86.5 | 38.1 | 3.31 | 35.8 | 3.17 | 34.0 | 2.82 | 33.3 | 2.82 | 31.8 | 2.66 | 30.3 | 2.50 |
| | | 173.0 | 38.1 | 3.31 | 35.8 | 2.99 | 34.0 | 2.82 | 33.3 | 2.66 | 31.8 | 2.50 | 30.3 | 2.66 |
| | | 216.3 | 38.1 | 3.31 | 35.8 | 2.99 | 34.0 | 2.99 | 33.3 | 2.66 | 31.8 | 2.50 | 30.3 | 2.66 |
| | | 259.5 | 38.1 | 3.31 | 35.8 | 2.99 | 34.0 | 3.08 | 33.3 | 2.66 | 31.8 | 2.50 | 30.3 | 2.66 |
| 50 | -5 | 69.2 | 12.7 | 3.89 | 11.9 | 3.68 | 11.3 | 3.49 | 11.1 | 3.29 | 11.0 | 3.10 | 10.8 | 2.93 |
| | | 86.5 | 13.1 | 3.97 | 12.4 | 3.77 | 11.7 | 3.56 | 11.5 | 3.37 | 11.5 | 3.17 | 11.2 | 2.99 |
| | | 173.0 | 14.8 | 4.30 | 13.9 | 4.09 | 13.2 | 3.85 | 13.0 | 3.66 | 13.0 | 3.44 | 12.7 | 3.23 |
| | | 216.3 | 16.4 | 4.64 | 15.4 | 4.40 | 14.6 | 4.16 | 14.4 | 3.95 | 14.3 | 3.70 | 14.1 | 3.49 |
| | | 259.5 | 17.2 | 4.82 | 16.2 | 4.55 | 15.3 | 4.32 | 15.1 | 4.11 | 14.9 | 3.83 | 14.8 | 3.62 |
| | 0 | 69.2 | 22.7 | 5.70 | 21.0 | 5.40 | 19.5 | 5.08 | 19.1 | 4.83 | 18.9 | 4.54 | 18.2 | 4.29 |
| | | 86.5 | 22.8 | 5.70 | 21.1 | 5.42 | 19.6 | 5.10 | 19.2 | 4.85 | 18.9 | 4.55 | 18.2 | 4.30 |
| | | 173.0 | 23.4 | 5.76 | 21.6 | 5.47 | 20.1 | 5.17 | 19.6 | 4.92 | 19.4 | 4.61 | 18.7 | 4.35 |
| | | 216.3 | 23.7 | 5.76 | 21.9 | 5.47 | 20.3 | 5.17 | 20.0 | 4.92 | 19.6 | 4.61 | 18.9 | 4.35 |
| | | 259.5 | 23.9 | 5.76 | 22.0 | 5.47 | 20.5 | 5.17 | 20.2 | 4.92 | 19.8 | 4.61 | 19.1 | 4.35 |
| | 5 | 69.2 | 31.3 | 6.20 | 29.7 | 5.86 | 28.3 | 5.54 | 27.7 | 5.27 | 26.4 | 4.94 | 25.2 | 4.65 |
| | | 86.5 | 31.3 | 6.22 | 29.7 | 5.90 | 28.3 | 5.57 | 27.7 | 5.29 | 26.4 | 4.97 | 25.2 | 4.68 |
| | | 173.0 | 31.7 | 6.34 | 29.9 | 6.02 | 28.4 | 5.69 | 27.7 | 5.40 | 26.4 | 5.05 | 25.2 | 4.78 |
| | | 216.3 | 31.7 | 6.39 | 29.9 | 6.07 | 28.4 | 5.72 | 27.7 | 5.43 | 26.4 | 5.10 | 25.2 | 4.82 |
| | | 259.5 | 31.7 | 6.42 | 29.9 | 6.09 | 28.4 | 5.74 | 27.7 | 5.45 | 26.4 | 5.13 | 25.2 | 4.83 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(18HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 69.2 | 31.5 | 5.70 | 29.7 | 5.37 | 28.3 | 5.05 | 27.7 | 4.82 | 26.4 | 4.46 | 25.2 | 4.25 |
| | | 86.5 | 31.5 | 5.69 | 29.8 | 5.36 | 28.3 | 5.03 | 27.7 | 4.82 | 26.4 | 4.47 | 25.2 | 4.25 |
| | | 173.0 | 31.7 | 5.65 | 29.9 | 5.35 | 28.4 | 5.00 | 27.7 | 4.78 | 26.4 | 4.52 | 25.2 | 4.21 |
| | | 216.3 | 31.7 | 5.69 | 29.9 | 5.36 | 28.4 | 5.01 | 27.7 | 4.80 | 26.4 | 4.45 | 25.2 | 4.23 |
| | | 259.5 | 31.7 | 5.70 | 29.9 | 5.37 | 28.4 | 5.03 | 27.7 | 4.80 | 26.4 | 4.41 | 25.2 | 4.23 |
| | 15 | 69.2 | 31.7 | 5.20 | 29.9 | 4.85 | 28.4 | 4.53 | 27.7 | 4.36 | 26.4 | 3.99 | 25.2 | 3.86 |
| | | 86.5 | 31.7 | 5.15 | 29.9 | 4.82 | 28.4 | 4.48 | 27.7 | 4.32 | 26.4 | 3.99 | 25.2 | 3.81 |
| | | 173.0 | 31.7 | 4.99 | 29.9 | 4.66 | 28.4 | 4.32 | 27.7 | 4.16 | 26.4 | 3.99 | 25.2 | 3.66 |
| | | 216.3 | 31.7 | 4.99 | 29.9 | 4.66 | 28.4 | 4.32 | 27.7 | 4.16 | 26.4 | 3.81 | 25.2 | 3.66 |
| | | 259.5 | 31.7 | 4.99 | 29.9 | 4.66 | 28.4 | 4.32 | 27.7 | 4.16 | 26.4 | 3.73 | 25.2 | 3.66 |
| | 20 | 69.2 | 31.7 | 4.53 | 29.9 | 4.20 | 28.4 | 4.03 | 27.7 | 3.86 | 26.4 | 3.70 | 25.2 | 3.31 |
| | | 86.5 | 31.7 | 4.48 | 29.9 | 4.16 | 28.4 | 3.99 | 27.7 | 3.81 | 26.4 | 3.66 | 25.2 | 3.31 |
| | | 173.0 | 31.7 | 4.32 | 29.9 | 3.99 | 28.4 | 3.81 | 27.7 | 3.66 | 26.4 | 3.49 | 25.2 | 3.31 |
| | | 216.3 | 31.7 | 4.32 | 29.9 | 3.99 | 28.4 | 3.81 | 27.7 | 3.66 | 26.4 | 3.49 | 25.2 | 3.31 |
| | | 259.5 | 31.7 | 4.32 | 29.9 | 3.99 | 28.4 | 3.81 | 27.7 | 3.66 | 26.4 | 3.49 | 25.2 | 3.31 |
| | 25 | 69.2 | 31.7 | 4.03 | 29.9 | 3.66 | 28.4 | 3.54 | 27.7 | 3.31 | 26.4 | 3.17 | 25.2 | 2.99 |
| | | 86.5 | 31.7 | 3.99 | 29.9 | 3.66 | 28.4 | 3.49 | 27.7 | 3.31 | 26.4 | 3.17 | 25.2 | 2.99 |
| | | 173.0 | 31.7 | 3.81 | 29.9 | 3.66 | 28.4 | 3.31 | 27.7 | 3.31 | 26.4 | 3.17 | 25.2 | 2.99 |
| | | 216.3 | 31.7 | 3.81 | 29.9 | 3.66 | 28.4 | 3.31 | 27.7 | 3.31 | 26.4 | 3.17 | 25.2 | 2.99 |
| | | 259.5 | 31.7 | 3.81 | 29.9 | 3.66 | 28.4 | 3.31 | 27.7 | 3.31 | 26.4 | 3.17 | 25.2 | 2.99 |
| | 30 | 69.2 | 31.7 | 3.70 | 29.9 | 3.36 | 28.4 | 3.21 | 27.7 | 2.99 | 26.4 | 3.03 | 25.2 | 2.85 |
| | | 86.5 | 31.7 | 3.66 | 29.9 | 3.31 | 28.4 | 3.17 | 27.7 | 2.99 | 26.4 | 2.99 | 25.2 | 2.82 |
| | | 173.0 | 31.7 | 3.49 | 29.9 | 3.17 | 28.4 | 2.99 | 27.7 | 2.99 | 26.4 | 2.82 | 25.2 | 2.66 |
| | | 216.3 | 31.7 | 3.49 | 29.9 | 3.17 | 28.4 | 2.99 | 27.7 | 2.99 | 26.4 | 2.82 | 25.2 | 2.66 |
| | | 259.5 | 31.7 | 3.49 | 29.9 | 3.17 | 28.4 | 2.99 | 27.7 | 2.99 | 26.4 | 2.82 | 25.2 | 2.66 |
| | 35 | 69.2 | 31.7 | 3.36 | 29.9 | 2.99 | 28.4 | 2.82 | 27.7 | 2.85 | 26.4 | 2.66 | 25.2 | 2.50 |
| | | 86.5 | 31.7 | 3.31 | 29.9 | 2.99 | 28.4 | 2.82 | 27.7 | 2.82 | 26.4 | 2.66 | 25.2 | 2.50 |
| | | 173.0 | 31.7 | 3.17 | 29.9 | 2.99 | 28.4 | 2.82 | 27.7 | 2.66 | 26.4 | 2.66 | 25.2 | 2.50 |
| | | 216.3 | 31.7 | 3.17 | 29.9 | 2.99 | 28.4 | 2.82 | 27.7 | 2.66 | 26.4 | 2.66 | 25.2 | 2.50 |
| | | 259.5 | 31.7 | 3.17 | 29.9 | 2.99 | 28.4 | 2.82 | 27.7 | 2.66 | 26.4 | 2.66 | 25.2 | 2.50 |
| | 40 | 69.2 | 31.7 | 3.03 | 29.9 | 2.85 | 28.4 | 2.71 | 27.7 | 2.50 | 26.4 | 2.53 | 25.2 | 2.32 |
| | | 86.5 | 31.7 | 2.99 | 29.9 | 2.82 | 28.4 | 2.66 | 27.7 | 2.50 | 26.4 | 2.50 | 25.2 | 2.32 |
| | | 173.0 | 31.7 | 2.82 | 29.9 | 2.66 | 28.4 | 2.50 | 27.7 | 2.50 | 26.4 | 2.32 | 25.2 | 2.32 |
| | | 216.3 | 31.7 | 2.82 | 29.9 | 2.66 | 28.4 | 2.50 | 27.7 | 2.50 | 26.4 | 2.32 | 25.2 | 2.32 |
| | | 259.5 | 31.7 | 2.82 | 29.9 | 2.66 | 28.4 | 2.50 | 27.7 | 2.50 | 26.4 | 2.32 | 25.2 | 2.32 |
| | 45 | 69.2 | 31.7 | 2.71 | 29.9 | 2.75 | 28.4 | 2.57 | 27.7 | 2.13 | 26.4 | 2.41 | 25.2 | 2.16 |
| | | 86.5 | 31.7 | 2.66 | 29.9 | 2.66 | 28.4 | 2.50 | 27.7 | 2.16 | 26.4 | 2.32 | 25.2 | 2.16 |
| | | 173.0 | 31.7 | 2.50 | 29.9 | 2.32 | 28.4 | 2.16 | 27.7 | 2.32 | 26.4 | 2.00 | 25.2 | 2.16 |
| | | 216.3 | 31.7 | 2.50 | 29.9 | 2.32 | 28.4 | 2.16 | 27.7 | 2.32 | 26.4 | 2.00 | 25.2 | 2.16 |
| | | 259.5 | 31.7 | 2.50 | 29.9 | 2.32 | 28.4 | 2.16 | 27.7 | 2.32 | 26.4 | 2.00 | 25.2 | 2.16 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN200BAS4

**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 77.2 | 29.8 | 11.80 | 29.6 | 11.10 | 29.4 | 10.34 | 29.0 | 10.02 | 29.4 | 9.76 | 28.6 | 8.76 |
| | | 96.5 | 30.8 | 12.00 | 30.6 | 11.32 | 30.4 | 10.56 | 30.0 | 10.26 | 30.4 | 9.98 | 29.6 | 8.94 |
| | | 193.0 | 34.8 | 12.82 | 34.6 | 12.18 | 34.4 | 11.46 | 34.0 | 11.12 | 34.4 | 10.82 | 33.4 | 9.70 |
| | | 241.3 | 38.6 | 13.62 | 38.2 | 13.00 | 38.0 | 12.34 | 37.6 | 12.02 | 38.0 | 11.66 | 37.0 | 10.46 |
| | | 289.5 | 40.4 | 14.04 | 40.0 | 13.42 | 39.8 | 12.80 | 39.4 | 12.46 | 39.8 | 12.10 | 38.8 | 10.84 |
| | 0 | 77.2 | 53.2 | 16.12 | 52.0 | 15.64 | 51.0 | 15.14 | 49.8 | 14.72 | 50.0 | 14.30 | 47.8 | 12.82 |
| | | 96.5 | 53.6 | 16.18 | 52.4 | 15.68 | 51.2 | 15.18 | 50.2 | 14.76 | 50.2 | 14.34 | 48.0 | 12.86 |
| | | 193.0 | 54.8 | 16.34 | 53.6 | 15.84 | 52.4 | 15.36 | 51.2 | 14.92 | 51.4 | 14.50 | 49.2 | 13.00 |
| | | 241.3 | 55.6 | 16.34 | 54.4 | 15.84 | 53.2 | 15.36 | 52.0 | 14.92 | 52.2 | 14.50 | 49.8 | 13.00 |
| | | 289.5 | 56.0 | 16.34 | 54.8 | 15.84 | 53.6 | 15.36 | 52.4 | 14.92 | 52.6 | 14.50 | 50.2 | 13.00 |
| | 5 | 77.2 | 76.6 | 17.34 | 75.6 | 16.90 | 74.0 | 16.48 | 72.0 | 16.02 | 70.2 | 15.56 | 66.2 | 13.94 |
| | | 96.5 | 77.0 | 17.42 | 75.6 | 16.98 | 74.0 | 16.56 | 72.0 | 16.10 | 70.2 | 15.64 | 66.2 | 14.02 |
| | | 193.0 | 78.0 | 17.72 | 76.2 | 17.30 | 74.0 | 16.90 | 72.0 | 16.42 | 70.2 | 15.96 | 66.2 | 14.30 |
| | | 241.3 | 78.4 | 17.84 | 76.4 | 17.42 | 74.0 | 17.00 | 72.0 | 16.54 | 70.2 | 16.08 | 66.2 | 14.40 |
| | | 289.5 | 78.8 | 17.90 | 76.6 | 17.48 | 74.0 | 17.06 | 72.0 | 16.60 | 70.2 | 16.14 | 66.2 | 14.46 |
| | 10 | 77.2 | 76.8 | 15.78 | 75.6 | 15.24 | 73.8 | 14.96 | 71.8 | 14.62 | 69.8 | 14.12 | 66.0 | 12.74 |
| | | 96.5 | 77.2 | 15.74 | 75.8 | 15.26 | 74.0 | 14.98 | 72.0 | 14.62 | 70.2 | 14.12 | 66.2 | 12.74 |
| | | 193.0 | 79.0 | 15.62 | 77.2 | 15.32 | 75.2 | 15.10 | 73.2 | 14.60 | 71.2 | 14.08 | 67.4 | 12.70 |
| | | 241.3 | 79.4 | 15.84 | 77.8 | 15.54 | 75.6 | 15.16 | 73.6 | 14.66 | 71.6 | 14.30 | 67.8 | 13.30 |
| | | 289.5 | 79.6 | 15.94 | 78.0 | 15.64 | 75.8 | 15.20 | 73.8 | 14.68 | 72.0 | 14.42 | 68.0 | 13.60 |
| | 15 | 77.2 | 76.8 | 14.22 | 75.6 | 13.60 | 73.4 | 13.46 | 71.4 | 13.24 | 69.6 | 12.68 | 65.8 | 11.56 |
| | | 96.5 | 77.6 | 14.08 | 76.2 | 13.56 | 74.0 | 13.44 | 72.0 | 13.14 | 70.2 | 12.58 | 66.2 | 11.46 |
| | | 193.0 | 80.0 | 13.52 | 78.4 | 13.32 | 76.4 | 13.32 | 74.4 | 12.76 | 72.2 | 12.20 | 68.4 | 11.06 |
| | | 241.3 | 80.4 | 13.84 | 79.2 | 13.62 | 77.2 | 13.32 | 75.2 | 12.76 | 73.2 | 12.54 | 69.2 | 12.20 |
| | | 289.5 | 80.6 | 14.00 | 79.6 | 13.78 | 77.8 | 13.32 | 75.6 | 12.76 | 73.8 | 12.72 | 69.6 | 12.76 |
| | 20 | 77.2 | 79.8 | 13.04 | 78.4 | 12.44 | 76.2 | 12.16 | 74.2 | 11.78 | 72.0 | 11.52 | 67.8 | 11.16 |
| | | 96.5 | 80.4 | 12.94 | 79.0 | 12.42 | 76.8 | 12.16 | 74.8 | 11.82 | 72.6 | 11.60 | 68.4 | 11.06 |
| | | 193.0 | 83.0 | 12.58 | 81.6 | 12.38 | 79.2 | 12.12 | 77.2 | 12.02 | 75.2 | 11.90 | 71.0 | 10.70 |
| | | 241.3 | 83.4 | 12.58 | 82.2 | 12.38 | 80.2 | 12.20 | 77.8 | 12.02 | 75.8 | 11.90 | 71.4 | 11.38 |
| | | 289.5 | 83.6 | 12.58 | 82.4 | 12.38 | 80.6 | 12.24 | 78.2 | 12.02 | 76.0 | 11.90 | 71.8 | 11.72 |
| | 25 | 77.2 | 84.2 | 12.44 | 82.2 | 12.08 | 80.2 | 11.88 | 78.6 | 11.68 | 76.8 | 11.50 | 72.4 | 10.74 |
| | | 96.5 | 84.2 | 12.38 | 82.2 | 12.06 | 80.2 | 11.82 | 78.6 | 11.62 | 76.8 | 11.46 | 72.4 | 10.70 |
| | | 193.0 | 84.2 | 12.20 | 82.2 | 11.98 | 80.2 | 11.62 | 78.6 | 11.46 | 76.8 | 11.26 | 72.4 | 10.50 |
| | | 241.3 | 84.2 | 12.02 | 82.2 | 11.66 | 80.2 | 11.46 | 78.6 | 11.26 | 76.8 | 11.06 | 72.4 | 10.32 |
| | | 289.5 | 84.2 | 11.92 | 82.2 | 11.52 | 80.2 | 11.36 | 78.6 | 11.16 | 76.8 | 10.96 | 72.4 | 10.24 |
| | 30 | 77.2 | 84.2 | 12.12 | 82.2 | 11.52 | 80.2 | 11.40 | 78.6 | 11.10 | 76.8 | 10.98 | 72.4 | 10.22 |
| | | 96.5 | 84.2 | 12.02 | 82.2 | 11.50 | 80.2 | 11.34 | 78.6 | 11.06 | 76.8 | 10.90 | 72.4 | 10.14 |
| | | 193.0 | 84.2 | 11.62 | 82.2 | 11.42 | 80.2 | 11.06 | 78.6 | 10.90 | 76.8 | 10.50 | 72.4 | 9.76 |
| | | 241.3 | 84.2 | 11.46 | 82.2 | 11.10 | 80.2 | 10.90 | 78.6 | 10.70 | 76.8 | 10.50 | 72.4 | 9.76 |
| | | 289.5 | 84.2 | 11.36 | 82.2 | 10.94 | 80.2 | 10.80 | 78.6 | 10.60 | 76.8 | 10.50 | 72.4 | 9.76 |
| | 35 | 77.2 | 84.2 | 11.56 | 82.2 | 11.16 | 80.2 | 10.94 | 78.6 | 10.54 | 76.8 | 10.18 | 72.4 | 9.48 |
| | | 96.5 | 84.2 | 11.46 | 82.2 | 11.10 | 80.2 | 10.90 | 78.6 | 10.50 | 76.8 | 10.14 | 72.4 | 9.38 |
| | | 193.0 | 84.2 | 11.06 | 82.2 | 10.86 | 80.2 | 10.70 | 78.6 | 10.32 | 76.8 | 9.94 | 72.4 | 9.00 |
| | | 241.3 | 84.2 | 11.06 | 82.2 | 10.74 | 80.2 | 10.50 | 78.6 | 10.14 | 76.8 | 9.76 | 72.4 | 9.00 |
| | | 289.5 | 84.2 | 11.06 | 82.2 | 10.68 | 80.2 | 10.40 | 78.6 | 10.04 | 76.8 | 9.68 | 72.4 | 9.00 |
| | 40 | 77.2 | 84.2 | 11.16 | 82.2 | 10.80 | 80.2 | 10.60 | 78.6 | 10.22 | 76.8 | 9.86 | 72.4 | 8.90 |
| | | 96.5 | 84.2 | 11.06 | 82.2 | 10.74 | 80.2 | 10.50 | 78.6 | 10.14 | 76.8 | 9.76 | 72.4 | 8.82 |
| | | 193.0 | 84.2 | 10.70 | 82.2 | 10.46 | 80.2 | 10.14 | 78.6 | 9.76 | 76.8 | 9.38 | 72.4 | 8.44 |
| | | 241.3 | 84.2 | 10.50 | 82.2 | 10.28 | 80.2 | 10.14 | 78.6 | 9.76 | 76.8 | 9.38 | 72.4 | 8.44 |
| | | 289.5 | 84.2 | 10.40 | 82.2 | 10.20 | 80.2 | 10.14 | 78.6 | 9.76 | 76.8 | 9.38 | 72.4 | 8.44 |
| | 45 | 77.2 | 84.2 | 10.80 | 82.2 | 10.44 | 80.2 | 10.28 | 78.6 | 9.90 | 76.8 | 9.52 | 72.4 | 8.34 |
| | | 96.5 | 84.2 | 10.70 | 82.2 | 10.36 | 80.2 | 10.14 | 78.6 | 9.76 | 76.8 | 9.38 | 72.4 | 8.26 |
| | | 193.0 | 84.2 | 10.32 | 82.2 | 10.10 | 80.2 | 9.58 | 78.6 | 9.20 | 76.8 | 8.82 | 72.4 | 7.88 |
| | | 241.3 | 84.2 | 9.94 | 82.2 | 9.84 | 80.2 | 9.76 | 78.6 | 9.38 | 76.8 | 9.00 | 72.4 | 7.88 |
| | | 289.5 | 84.2 | 9.74 | 82.2 | 9.72 | 80.2 | 9.86 | 78.6 | 9.46 | 76.8 | 9.10 | 72.4 | 7.88 |
| 120 | -5 | 77.2 | 28.4 | 11.80 | 28.2 | 11.10 | 28.0 | 10.34 | 27.6 | 9.90 | 27.8 | 9.62 | 27.0 | 8.60 |
| | | 96.5 | 29.4 | 12.00 | 29.0 | 11.32 | 28.8 | 10.56 | 28.6 | 10.12 | 28.8 | 9.82 | 28.0 | 8.80 |
| | | 193.0 | 33.2 | 12.82 | 32.8 | 12.18 | 32.8 | 11.46 | 32.2 | 10.96 | 32.6 | 10.66 | 31.8 | 9.56 |
| | | 241.3 | 36.6 | 13.62 | 36.4 | 13.00 | 36.2 | 12.34 | 35.6 | 11.84 | 36.0 | 11.50 | 35.0 | 10.28 |
| | | 289.5 | 38.4 | 14.04 | 38.0 | 13.42 | 37.8 | 12.80 | 37.4 | 12.28 | 37.6 | 11.92 | 36.6 | 10.66 |
| | 0 | 77.2 | 50.6 | 16.12 | 49.4 | 15.64 | 48.4 | 15.14 | 47.4 | 14.50 | 47.4 | 14.10 | 45.2 | 12.60 |
| | | 96.5 | 51.0 | 16.18 | 49.6 | 15.68 | 48.6 | 15.18 | 47.6 | 14.54 | 47.6 | 14.14 | 45.4 | 12.64 |
| | | 193.0 | 52.0 | 16.34 | 50.8 | 15.84 | 49.8 | 15.36 | 48.8 | 14.72 | 48.8 | 14.28 | 46.6 | 12.80 |
| | | 241.3 | 53.0 | 16.34 | 51.6 | 15.84 | 50.6 | 15.36 | 49.6 | 14.72 | 49.4 | 14.28 | 47.2 | 12.80 |
| | | 289.5 | 53.4 | 16.34 | 52.2 | 15.84 | 51.0 | 15.36 | 50.0 | 14.72 | 49.8 | 14.28 | 47.6 | 12.80 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 77.2 | 73.0 | 17.34 | 71.8 | 16.90 | 70.4 | 16.48 | 68.6 | 15.78 | 66.4 | 15.34 | 62.8 | 13.74 |
| | | 96.5 | 73.2 | 17.42 | 72.0 | 16.98 | 70.4 | 16.56 | 68.6 | 15.86 | 66.4 | 15.42 | 62.8 | 13.80 |
| | | 193.0 | 74.4 | 17.72 | 72.6 | 17.30 | 70.4 | 16.90 | 68.6 | 16.20 | 66.4 | 15.72 | 62.8 | 14.08 |
| | | 241.3 | 74.8 | 17.84 | 72.2 | 17.42 | 70.4 | 17.00 | 68.6 | 16.30 | 66.4 | 15.84 | 62.8 | 14.18 |
| | | 289.5 | 75.0 | 17.90 | 72.0 | 17.48 | 70.4 | 17.06 | 68.6 | 16.36 | 66.4 | 15.90 | 62.8 | 14.22 |
| | 10 | 77.2 | 73.2 | 15.58 | 72.0 | 15.14 | 70.2 | 14.84 | 68.4 | 14.38 | 66.2 | 13.92 | 62.6 | 12.50 |
| | | 96.5 | 73.6 | 15.62 | 72.2 | 15.20 | 70.4 | 14.90 | 68.6 | 14.40 | 66.4 | 13.90 | 62.8 | 12.52 |
| | | 193.0 | 75.0 | 15.84 | 73.4 | 15.44 | 71.0 | 15.10 | 69.4 | 14.48 | 67.2 | 13.86 | 63.4 | 12.58 |
| | | 241.3 | 75.4 | 15.78 | 73.2 | 15.44 | 71.4 | 15.16 | 69.6 | 14.54 | 67.4 | 13.92 | 63.8 | 13.00 |
| | | 289.5 | 75.6 | 15.76 | 73.0 | 15.44 | 71.6 | 15.20 | 69.8 | 14.58 | 67.6 | 13.94 | 64.0 | 13.22 |
| | 15 | 77.2 | 73.4 | 13.82 | 72.0 | 13.40 | 70.0 | 13.20 | 68.2 | 13.00 | 66.2 | 12.48 | 62.4 | 11.30 |
| | | 96.5 | 74.0 | 13.84 | 72.4 | 13.44 | 70.4 | 13.22 | 68.6 | 12.94 | 66.4 | 12.38 | 62.8 | 11.26 |
| | | 193.0 | 75.6 | 13.96 | 74.2 | 13.56 | 72.0 | 13.32 | 70.2 | 12.76 | 67.8 | 12.02 | 64.2 | 11.06 |
| | | 241.3 | 76.0 | 13.74 | 74.2 | 13.44 | 72.4 | 13.32 | 70.8 | 12.76 | 68.4 | 12.02 | 64.8 | 11.82 |
| | | 289.5 | 76.2 | 13.64 | 74.2 | 13.38 | 72.8 | 13.32 | 71.0 | 12.76 | 68.6 | 12.02 | 65.0 | 12.20 |
| | 20 | 77.2 | 75.6 | 12.42 | 74.2 | 11.90 | 71.8 | 11.58 | 69.8 | 11.42 | 67.6 | 11.26 | 64.0 | 10.70 |
| | | 96.5 | 76.0 | 12.42 | 74.6 | 11.94 | 72.2 | 11.62 | 70.4 | 11.46 | 68.0 | 11.26 | 64.4 | 10.66 |
| | | 193.0 | 78.0 | 12.42 | 76.4 | 12.12 | 73.8 | 11.82 | 72.0 | 11.62 | 69.8 | 11.22 | 65.8 | 10.50 |
| | | 241.3 | 78.2 | 12.30 | 76.2 | 12.02 | 74.4 | 11.82 | 72.4 | 11.62 | 70.2 | 11.26 | 66.2 | 10.90 |
| | | 289.5 | 78.4 | 12.24 | 76.2 | 11.96 | 74.8 | 11.82 | 72.8 | 11.62 | 70.4 | 11.28 | 66.4 | 11.08 |
| | 25 | 77.2 | 79.2 | 11.76 | 76.8 | 11.20 | 74.4 | 10.98 | 72.8 | 10.74 | 71.0 | 10.54 | 67.0 | 9.82 |
| | | 96.5 | 79.2 | 11.70 | 76.8 | 11.18 | 74.4 | 10.96 | 72.8 | 10.70 | 71.0 | 10.50 | 67.0 | 9.76 |
| | | 193.0 | 79.4 | 11.54 | 76.8 | 11.10 | 74.4 | 10.90 | 72.8 | 10.50 | 71.0 | 10.32 | 67.0 | 9.58 |
| | | 241.3 | 79.6 | 11.10 | 76.8 | 10.82 | 74.4 | 10.70 | 72.8 | 10.50 | 71.0 | 10.14 | 67.0 | 9.58 |
| | | 289.5 | 79.8 | 10.88 | 76.8 | 10.66 | 74.4 | 10.60 | 72.8 | 10.50 | 71.0 | 10.04 | 67.0 | 9.58 |
| | 30 | 77.2 | 79.6 | 11.24 | 76.8 | 10.68 | 74.4 | 10.38 | 72.8 | 9.98 | 71.0 | 9.86 | 67.0 | 9.06 |
| | | 96.5 | 79.6 | 11.14 | 76.8 | 10.62 | 74.4 | 10.32 | 72.8 | 9.94 | 71.0 | 9.76 | 67.0 | 9.00 |
| | | 193.0 | 79.6 | 10.78 | 76.8 | 10.36 | 74.4 | 10.14 | 72.8 | 9.76 | 71.0 | 9.38 | 67.0 | 8.82 |
| | | 241.3 | 79.6 | 10.42 | 76.8 | 10.14 | 74.4 | 9.94 | 72.8 | 9.76 | 71.0 | 9.38 | 67.0 | 8.64 |
| | | 289.5 | 79.6 | 10.24 | 76.8 | 10.02 | 74.4 | 9.84 | 72.8 | 9.76 | 71.0 | 9.38 | 67.0 | 8.56 |
| | 35 | 77.2 | 79.6 | 10.74 | 76.8 | 10.14 | 74.4 | 9.86 | 72.8 | 9.48 | 71.0 | 9.10 | 67.0 | 8.30 |
| | | 96.5 | 79.6 | 10.58 | 76.8 | 10.06 | 74.4 | 9.76 | 72.8 | 9.38 | 71.0 | 9.00 | 67.0 | 8.26 |
| | | 193.0 | 79.6 | 9.98 | 76.8 | 9.68 | 74.4 | 9.38 | 72.8 | 9.00 | 71.0 | 8.64 | 67.0 | 8.08 |
| | | 241.3 | 79.6 | 9.86 | 76.8 | 9.60 | 74.4 | 9.38 | 72.8 | 9.00 | 71.0 | 8.64 | 67.0 | 7.88 |
| | | 289.5 | 79.6 | 9.80 | 76.8 | 9.58 | 74.4 | 9.38 | 72.8 | 9.00 | 71.0 | 8.64 | 67.0 | 7.78 |
| | 40 | 77.2 | 79.6 | 10.42 | 76.8 | 9.68 | 74.4 | 9.30 | 72.8 | 8.90 | 71.0 | 8.54 | 67.0 | 7.74 |
| | | 96.5 | 79.6 | 10.22 | 76.8 | 9.58 | 74.4 | 9.20 | 72.8 | 8.82 | 71.0 | 8.44 | 67.0 | 7.68 |
| | | 193.0 | 79.6 | 9.42 | 76.8 | 9.12 | 74.4 | 8.82 | 72.8 | 8.44 | 71.0 | 8.08 | 67.0 | 7.52 |
| | | 241.3 | 79.6 | 9.30 | 76.8 | 9.00 | 74.4 | 8.82 | 72.8 | 8.44 | 71.0 | 8.08 | 67.0 | 7.32 |
| | | 289.5 | 79.6 | 9.24 | 76.8 | 8.94 | 74.4 | 8.82 | 72.8 | 8.44 | 71.0 | 8.08 | 67.0 | 7.22 |
| | 45 | 77.2 | 79.6 | 10.10 | 76.8 | 9.22 | 74.4 | 8.74 | 72.8 | 8.34 | 71.0 | 7.98 | 67.0 | 7.16 |
| | | 96.5 | 79.6 | 9.84 | 76.8 | 9.08 | 74.4 | 8.64 | 72.8 | 8.26 | 71.0 | 7.88 | 67.0 | 7.12 |
| | | 193.0 | 79.6 | 8.86 | 76.8 | 8.56 | 74.4 | 8.26 | 72.8 | 7.88 | 71.0 | 7.52 | 67.0 | 6.96 |
| | | 241.3 | 79.6 | 8.74 | 76.8 | 8.40 | 74.4 | 8.26 | 72.8 | 7.88 | 71.0 | 7.52 | 67.0 | 6.76 |
| | | 289.5 | 79.6 | 8.68 | 76.8 | 8.32 | 74.4 | 8.26 | 72.8 | 7.88 | 71.0 | 7.52 | 67.0 | 6.66 |
| 110 | -5 | 77.2 | 26.8 | 11.94 | 26.6 | 11.10 | 26.4 | 10.34 | 26.2 | 9.90 | 26.2 | 9.62 | 25.6 | 8.60 |
| | | 96.5 | 27.8 | 12.16 | 27.6 | 11.32 | 27.4 | 10.56 | 27.0 | 10.12 | 27.2 | 9.82 | 26.6 | 8.80 |
| | | 193.0 | 31.4 | 12.96 | 31.2 | 12.18 | 31.0 | 11.46 | 30.6 | 10.96 | 30.6 | 10.66 | 30.0 | 9.56 |
| | | 241.3 | 34.6 | 13.80 | 34.4 | 13.00 | 34.2 | 12.34 | 33.8 | 11.84 | 33.8 | 11.50 | 33.2 | 10.28 |
| | | 289.5 | 36.2 | 14.22 | 36.0 | 13.42 | 35.8 | 12.80 | 35.4 | 12.28 | 35.4 | 11.92 | 34.8 | 10.66 |
| | 0 | 77.2 | 47.8 | 16.34 | 46.8 | 15.64 | 45.8 | 15.14 | 45.0 | 14.50 | 44.6 | 14.10 | 42.8 | 12.60 |
| | | 96.5 | 48.2 | 16.38 | 47.2 | 15.68 | 46.2 | 15.18 | 45.2 | 14.54 | 44.8 | 14.14 | 43.2 | 12.64 |
| | | 193.0 | 49.2 | 16.54 | 48.2 | 15.84 | 47.2 | 15.36 | 46.2 | 14.72 | 45.8 | 14.28 | 44.2 | 12.80 |
| | | 241.3 | 50.0 | 16.54 | 49.0 | 15.84 | 48.0 | 15.36 | 47.0 | 14.72 | 46.6 | 14.28 | 44.8 | 12.80 |
| | | 289.5 | 50.4 | 16.54 | 49.4 | 15.84 | 48.4 | 15.36 | 47.4 | 14.72 | 47.0 | 14.28 | 45.0 | 12.80 |
| | 5 | 77.2 | 69.8 | 17.56 | 68.2 | 16.90 | 66.6 | 16.48 | 65.2 | 15.78 | 62.6 | 15.34 | 59.6 | 13.74 |
| | | 96.5 | 70.0 | 17.64 | 68.4 | 16.98 | 66.6 | 16.56 | 65.2 | 15.86 | 62.6 | 15.42 | 59.6 | 13.80 |
| | | 193.0 | 71.0 | 17.96 | 68.8 | 17.30 | 66.6 | 16.90 | 65.2 | 16.20 | 62.6 | 15.72 | 59.6 | 14.08 |
| | | 241.3 | 71.4 | 18.08 | 69.0 | 17.42 | 66.6 | 17.00 | 65.2 | 16.30 | 62.6 | 15.84 | 59.6 | 14.18 |
| | | 289.5 | 71.6 | 18.14 | 69.2 | 17.48 | 66.6 | 17.06 | 65.2 | 16.36 | 62.6 | 15.90 | 59.6 | 14.22 |
| | 10 | 77.2 | 70.2 | 15.76 | 68.4 | 15.22 | 66.6 | 14.88 | 65.0 | 14.38 | 62.4 | 13.92 | 59.4 | 12.50 |
| | | 96.5 | 70.4 | 15.78 | 68.6 | 15.26 | 66.6 | 14.92 | 65.2 | 14.40 | 62.6 | 13.90 | 59.6 | 12.52 |
| | | 193.0 | 71.4 | 15.90 | 69.2 | 15.44 | 67.0 | 15.10 | 65.6 | 14.48 | 63.0 | 13.86 | 59.8 | 12.58 |
| | | 241.3 | 71.8 | 15.90 | 69.6 | 15.44 | 67.2 | 15.06 | 65.6 | 14.44 | 63.2 | 13.92 | 60.0 | 12.72 |
| | | 289.5 | 72.0 | 15.90 | 69.8 | 15.44 | 67.4 | 15.04 | 65.6 | 14.42 | 63.2 | 13.94 | 60.0 | 12.78 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 77.2 | 70.4 | 13.94 | 68.4 | 13.56 | 66.4 | 13.32 | 65.0 | 13.00 | 62.4 | 12.48 | 59.4 | 11.30 |
| | | 96.5 | 70.6 | 13.92 | 68.8 | 13.56 | 66.6 | 13.32 | 65.2 | 12.94 | 62.6 | 12.38 | 59.6 | 11.26 |
| | | 193.0 | 71.8 | 13.84 | 69.8 | 13.56 | 67.4 | 13.32 | 65.8 | 12.76 | 63.4 | 12.02 | 60.2 | 11.06 |
| | | 241.3 | 72.2 | 13.74 | 70.0 | 13.44 | 67.8 | 13.14 | 66.2 | 12.58 | 63.6 | 12.02 | 60.4 | 11.26 |
| | | 289.5 | 72.4 | 13.70 | 70.2 | 13.38 | 68.0 | 13.06 | 66.2 | 12.50 | 63.6 | 12.02 | 60.6 | 11.36 |
| | 20 | 77.2 | 71.6 | 12.04 | 69.6 | 11.74 | 67.4 | 11.46 | 65.6 | 11.26 | 63.2 | 10.94 | 59.8 | 10.24 |
| | | 96.5 | 72.0 | 12.06 | 70.0 | 11.74 | 67.6 | 11.46 | 65.8 | 11.26 | 63.4 | 10.90 | 60.2 | 10.22 |
| | | 193.0 | 73.6 | 12.16 | 70.8 | 11.74 | 68.4 | 11.46 | 66.8 | 11.26 | 64.2 | 10.70 | 61.0 | 10.14 |
| | | 241.3 | 74.0 | 12.16 | 71.4 | 11.74 | 68.8 | 11.46 | 67.0 | 11.06 | 64.6 | 10.70 | 61.2 | 10.14 |
| | | 289.5 | 74.2 | 12.16 | 71.8 | 11.74 | 69.0 | 11.46 | 67.2 | 10.96 | 64.8 | 10.70 | 61.4 | 10.14 |
| | 25 | 77.2 | 73.8 | 10.94 | 71.6 | 10.54 | 68.8 | 10.38 | 67.2 | 9.98 | 65.0 | 9.62 | 61.4 | 8.82 |
| | | 96.5 | 74.0 | 10.92 | 71.6 | 10.50 | 68.8 | 10.32 | 67.2 | 9.94 | 65.0 | 9.58 | 61.4 | 8.82 |
| | | 193.0 | 74.6 | 10.86 | 71.6 | 10.32 | 68.8 | 10.14 | 67.2 | 9.76 | 65.0 | 9.38 | 61.4 | 8.82 |
| | | 241.3 | 75.0 | 10.86 | 71.6 | 10.36 | 68.8 | 9.94 | 67.2 | 9.76 | 65.0 | 9.20 | 61.4 | 8.64 |
| | | 289.5 | 75.2 | 10.86 | 71.6 | 10.38 | 68.8 | 9.84 | 67.2 | 9.76 | 65.0 | 9.12 | 61.4 | 8.56 |
| | 30 | 77.2 | 75.0 | 9.98 | 71.6 | 9.62 | 68.8 | 9.26 | 67.2 | 9.06 | 65.0 | 8.50 | 61.4 | 7.94 |
| | | 96.5 | 75.0 | 9.94 | 71.6 | 9.58 | 68.8 | 9.20 | 67.2 | 9.00 | 65.0 | 8.44 | 61.4 | 7.88 |
| | | 193.0 | 75.0 | 9.76 | 71.6 | 9.38 | 68.8 | 9.00 | 67.2 | 8.82 | 65.0 | 8.26 | 61.4 | 7.68 |
| | | 241.3 | 75.0 | 9.68 | 71.6 | 9.20 | 68.8 | 8.82 | 67.2 | 8.64 | 65.0 | 8.26 | 61.4 | 7.68 |
| | | 289.5 | 75.0 | 9.64 | 71.6 | 9.12 | 68.8 | 8.72 | 67.2 | 8.56 | 65.0 | 8.26 | 61.4 | 7.68 |
| | 35 | 77.2 | 75.0 | 9.48 | 71.6 | 8.86 | 68.8 | 8.50 | 67.2 | 8.12 | 65.0 | 7.74 | 61.4 | 7.16 |
| | | 96.5 | 75.0 | 9.38 | 71.6 | 8.82 | 68.8 | 8.44 | 67.2 | 8.08 | 65.0 | 7.68 | 61.4 | 7.12 |
| | | 193.0 | 75.0 | 9.00 | 71.6 | 8.64 | 68.8 | 8.26 | 67.2 | 7.88 | 65.0 | 7.52 | 61.4 | 6.96 |
| | | 241.3 | 75.0 | 8.78 | 71.6 | 8.44 | 68.8 | 8.08 | 67.2 | 7.88 | 65.0 | 7.52 | 61.4 | 6.96 |
| | | 289.5 | 75.0 | 8.66 | 71.6 | 8.34 | 68.8 | 7.98 | 67.2 | 7.88 | 65.0 | 7.52 | 61.4 | 6.96 |
| | 40 | 77.2 | 75.0 | 8.90 | 71.6 | 8.54 | 68.8 | 7.98 | 67.2 | 7.56 | 65.0 | 7.16 | 61.4 | 6.60 |
| | | 96.5 | 75.0 | 8.82 | 71.6 | 8.44 | 68.8 | 7.88 | 67.2 | 7.52 | 65.0 | 7.12 | 61.4 | 6.56 |
| | | 193.0 | 75.0 | 8.44 | 71.6 | 8.08 | 68.8 | 7.52 | 67.2 | 7.32 | 65.0 | 6.96 | 61.4 | 6.38 |
| | | 241.3 | 75.0 | 8.32 | 71.6 | 7.88 | 68.8 | 7.52 | 67.2 | 7.12 | 65.0 | 6.76 | 61.4 | 6.20 |
| | | 289.5 | 75.0 | 8.26 | 71.6 | 7.78 | 68.8 | 7.52 | 67.2 | 7.02 | 65.0 | 6.66 | 61.4 | 6.10 |
| | 45 | 77.2 | 75.0 | 8.34 | 71.6 | 8.22 | 68.8 | 7.46 | 67.2 | 7.00 | 65.0 | 6.60 | 61.4 | 6.04 |
| | | 96.5 | 75.0 | 8.26 | 71.6 | 8.08 | 68.8 | 7.32 | 67.2 | 6.96 | 65.0 | 6.56 | 61.4 | 6.00 |
| | | 193.0 | 75.0 | 7.88 | 71.6 | 7.52 | 68.8 | 6.76 | 67.2 | 6.76 | 65.0 | 6.38 | 61.4 | 5.82 |
| | | 241.3 | 75.0 | 7.88 | 71.6 | 7.32 | 68.8 | 6.96 | 67.2 | 6.38 | 65.0 | 6.00 | 61.4 | 5.44 |
| | | 289.5 | 75.0 | 7.88 | 71.6 | 7.22 | 68.8 | 7.04 | 67.2 | 6.20 | 65.0 | 5.80 | 61.4 | 5.24 |
| 100 | -5 | 77.2 | 25.4 | 11.94 | 25.2 | 11.26 | 25.0 | 10.34 | 24.8 | 9.90 | 24.6 | 9.46 | 24.2 | 8.60 |
| | | 96.5 | 26.2 | 12.16 | 26.0 | 11.48 | 26.0 | 10.56 | 25.6 | 10.12 | 25.4 | 9.66 | 25.0 | 8.80 |
| | | 193.0 | 29.6 | 12.96 | 29.4 | 12.32 | 29.4 | 11.46 | 29.0 | 10.96 | 28.8 | 10.50 | 28.4 | 9.56 |
| | | 241.3 | 32.8 | 13.80 | 32.6 | 13.18 | 32.4 | 12.34 | 32.0 | 11.84 | 31.8 | 11.32 | 31.2 | 10.28 |
| | | 289.5 | 34.4 | 14.22 | 34.0 | 13.62 | 33.8 | 12.80 | 33.6 | 12.28 | 33.4 | 11.72 | 32.8 | 10.66 |
| | 0 | 77.2 | 45.2 | 16.34 | 44.2 | 15.86 | 43.4 | 15.14 | 42.6 | 14.50 | 41.8 | 13.88 | 40.4 | 12.60 |
| | | 96.5 | 45.6 | 16.38 | 44.6 | 15.90 | 43.6 | 15.18 | 42.8 | 14.54 | 42.0 | 13.92 | 40.6 | 12.64 |
| | | 193.0 | 46.6 | 16.54 | 45.6 | 16.06 | 44.6 | 15.36 | 43.8 | 14.72 | 43.0 | 14.08 | 41.6 | 12.80 |
| | | 241.3 | 47.2 | 16.54 | 46.2 | 16.06 | 45.4 | 15.36 | 44.4 | 14.72 | 43.8 | 14.08 | 42.2 | 12.80 |
| | | 289.5 | 47.6 | 16.54 | 46.6 | 16.06 | 45.6 | 15.36 | 44.8 | 14.72 | 44.0 | 14.08 | 42.6 | 12.80 |
| | 5 | 77.2 | 66.8 | 17.56 | 64.6 | 17.14 | 63.0 | 16.48 | 61.6 | 15.78 | 58.8 | 15.10 | 56.0 | 13.74 |
| | | 96.5 | 67.0 | 17.64 | 64.6 | 17.22 | 63.0 | 16.56 | 61.6 | 15.86 | 58.8 | 15.18 | 56.0 | 13.80 |
| | | 193.0 | 68.0 | 17.96 | 65.2 | 17.54 | 63.0 | 16.90 | 61.6 | 16.20 | 58.8 | 15.50 | 56.0 | 14.08 |
| | | 241.3 | 68.4 | 18.08 | 65.4 | 17.64 | 63.0 | 17.00 | 61.6 | 16.30 | 58.8 | 15.58 | 56.0 | 14.18 |
| | | 289.5 | 68.6 | 18.14 | 65.4 | 17.70 | 63.0 | 17.06 | 61.6 | 16.36 | 58.8 | 15.64 | 56.0 | 14.22 |
| | 10 | 77.2 | 67.2 | 15.70 | 64.8 | 15.36 | 63.0 | 14.88 | 61.6 | 14.38 | 58.8 | 13.68 | 56.0 | 12.50 |
| | | 96.5 | 67.4 | 15.78 | 64.8 | 15.42 | 63.0 | 14.92 | 61.6 | 14.40 | 58.8 | 13.68 | 56.0 | 12.52 |
| | | 193.0 | 68.0 | 16.08 | 65.2 | 15.60 | 63.0 | 15.10 | 61.6 | 14.48 | 58.8 | 13.74 | 56.0 | 12.58 |
| | | 241.3 | 68.4 | 16.02 | 65.6 | 15.60 | 63.0 | 15.06 | 61.6 | 14.44 | 58.8 | 13.70 | 56.0 | 12.52 |
| | | 289.5 | 68.6 | 15.98 | 65.6 | 15.60 | 63.0 | 15.04 | 61.6 | 14.42 | 58.8 | 13.68 | 56.0 | 12.50 |
| | 15 | 77.2 | 67.6 | 13.86 | 65.0 | 13.62 | 63.0 | 13.32 | 61.6 | 13.00 | 58.8 | 12.24 | 56.0 | 11.30 |
| | | 96.5 | 67.6 | 13.92 | 65.2 | 13.62 | 63.0 | 13.32 | 61.6 | 12.94 | 58.8 | 12.20 | 56.0 | 11.26 |
| | | 193.0 | 68.0 | 14.20 | 65.2 | 13.66 | 63.0 | 13.32 | 61.6 | 12.76 | 58.8 | 12.02 | 56.0 | 11.06 |
| | | 241.3 | 68.6 | 13.96 | 65.6 | 13.56 | 63.0 | 13.14 | 61.6 | 12.58 | 58.8 | 11.82 | 56.0 | 10.90 |
| | | 289.5 | 68.8 | 13.84 | 65.8 | 13.50 | 63.0 | 13.06 | 61.6 | 12.50 | 58.8 | 11.72 | 56.0 | 10.80 |
| | 20 | 77.2 | 68.0 | 11.84 | 65.4 | 11.54 | 63.0 | 11.26 | 61.6 | 11.10 | 58.8 | 10.38 | 56.0 | 9.86 |
| | | 96.5 | 68.2 | 11.90 | 65.4 | 11.56 | 63.0 | 11.26 | 61.6 | 11.06 | 58.8 | 10.32 | 56.0 | 9.76 |
| | | 193.0 | 69.2 | 12.12 | 65.6 | 11.60 | 63.0 | 11.26 | 61.6 | 10.90 | 58.8 | 10.14 | 56.0 | 9.38 |
| | | 241.3 | 69.6 | 11.90 | 66.2 | 11.50 | 63.0 | 11.06 | 61.6 | 10.70 | 58.8 | 9.94 | 56.0 | 9.20 |
| | | 289.5 | 69.8 | 11.80 | 66.6 | 11.44 | 63.0 | 10.96 | 61.6 | 10.60 | 58.8 | 9.84 | 56.0 | 9.12 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 77.2 | 68.8 | 10.36 | 66.4 | 10.04 | 63.0 | 9.62 | 61.6 | 9.26 | 58.8 | 8.68 | 56.0 | 7.88 |
| | | 96.5 | 69.0 | 10.36 | 66.4 | 9.98 | 63.0 | 9.58 | 61.6 | 9.20 | 58.8 | 8.64 | 56.0 | 7.88 |
| | | 193.0 | 70.0 | 10.40 | 66.4 | 9.76 | 63.0 | 9.38 | 61.6 | 9.00 | 58.8 | 8.44 | 56.0 | 7.88 |
| | | 241.3 | 70.4 | 10.18 | 66.4 | 9.68 | 63.0 | 9.20 | 61.6 | 8.82 | 58.8 | 8.44 | 56.0 | 7.68 |
| | | 289.5 | 70.6 | 10.06 | 66.4 | 9.64 | 63.0 | 9.12 | 61.6 | 8.72 | 58.8 | 8.44 | 56.0 | 7.60 |
| | 30 | 77.2 | 70.4 | 9.42 | 66.4 | 8.68 | 63.0 | 8.10 | 61.6 | 7.94 | 58.8 | 7.32 | 56.0 | 7.00 |
| | | 96.5 | 70.4 | 9.38 | 66.4 | 8.64 | 63.0 | 8.08 | 61.6 | 7.88 | 58.8 | 7.32 | 56.0 | 6.96 |
| | | 193.0 | 70.4 | 9.20 | 66.4 | 8.44 | 63.0 | 8.00 | 61.6 | 7.68 | 58.8 | 7.32 | 56.0 | 6.76 |
| | | 241.3 | 70.4 | 9.00 | 66.4 | 8.44 | 63.0 | 7.88 | 61.6 | 7.68 | 58.8 | 7.12 | 56.0 | 6.76 |
| | | 289.5 | 70.4 | 8.92 | 66.4 | 8.44 | 63.0 | 7.82 | 61.6 | 7.68 | 58.8 | 7.02 | 56.0 | 6.76 |
| | 35 | 77.2 | 70.4 | 8.74 | 66.4 | 7.98 | 63.0 | 7.14 | 61.6 | 7.00 | 58.8 | 6.60 | 56.0 | 6.04 |
| | | 96.5 | 70.4 | 8.64 | 66.4 | 7.88 | 63.0 | 7.12 | 61.6 | 6.96 | 58.8 | 6.56 | 56.0 | 6.00 |
| | | 193.0 | 70.4 | 8.26 | 66.4 | 7.52 | 63.0 | 7.04 | 61.6 | 6.76 | 58.8 | 6.38 | 56.0 | 5.82 |
| | | 241.3 | 70.4 | 8.26 | 66.4 | 7.52 | 63.0 | 6.96 | 61.6 | 6.76 | 58.8 | 6.38 | 56.0 | 5.82 |
| | | 289.5 | 70.4 | 8.26 | 66.4 | 7.52 | 63.0 | 6.90 | 61.6 | 6.76 | 58.8 | 6.38 | 56.0 | 5.82 |
| | 40 | 77.2 | 70.4 | 8.18 | 66.4 | 7.42 | 63.0 | 6.40 | 61.6 | 6.24 | 58.8 | 5.88 | 56.0 | 5.48 |
| | | 96.5 | 70.4 | 8.08 | 66.4 | 7.32 | 63.0 | 6.38 | 61.6 | 6.20 | 58.8 | 5.82 | 56.0 | 5.44 |
| | | 193.0 | 70.4 | 7.68 | 66.4 | 6.96 | 63.0 | 6.30 | 61.6 | 6.00 | 58.8 | 5.64 | 56.0 | 5.26 |
| | | 241.3 | 70.4 | 7.52 | 66.4 | 6.96 | 63.0 | 6.20 | 61.6 | 6.00 | 58.8 | 5.64 | 56.0 | 5.26 |
| | | 289.5 | 70.4 | 7.42 | 66.4 | 6.96 | 63.0 | 6.14 | 61.6 | 6.00 | 58.8 | 5.64 | 56.0 | 5.26 |
| | 45 | 77.2 | 70.4 | 7.62 | 66.4 | 6.84 | 63.0 | 5.64 | 61.6 | 5.48 | 58.8 | 5.12 | 56.0 | 4.92 |
| | | 96.5 | 70.4 | 7.52 | 66.4 | 6.76 | 63.0 | 5.64 | 61.6 | 5.44 | 58.8 | 5.06 | 56.0 | 4.88 |
| | | 193.0 | 70.4 | 7.12 | 66.4 | 6.38 | 63.0 | 5.56 | 61.6 | 5.26 | 58.8 | 4.88 | 56.0 | 4.70 |
| | | 241.3 | 70.4 | 6.76 | 66.4 | 6.38 | 63.0 | 5.44 | 61.6 | 5.26 | 58.8 | 4.88 | 56.0 | 4.70 |
| | | 289.5 | 70.4 | 6.58 | 66.4 | 6.38 | 63.0 | 5.38 | 61.6 | 5.26 | 58.8 | 4.88 | 56.0 | 4.70 |
| 90 | -5 | 77.2 | 24.0 | 11.08 | 23.2 | 10.10 | 22.4 | 8.88 | 22.4 | 8.46 | 22.2 | 8.14 | 21.8 | 7.32 |
| | | 96.5 | 24.8 | 11.28 | 24.0 | 10.28 | 23.2 | 9.06 | 23.0 | 8.64 | 23.0 | 8.32 | 22.6 | 7.48 |
| | | 193.0 | 28.0 | 12.04 | 27.2 | 11.04 | 26.4 | 9.84 | 26.2 | 9.38 | 26.0 | 9.04 | 25.4 | 8.12 |
| | | 241.3 | 31.0 | 12.80 | 30.0 | 11.82 | 29.0 | 10.62 | 28.8 | 10.12 | 28.6 | 9.74 | 28.2 | 8.76 |
| | | 289.5 | 32.4 | 13.18 | 31.4 | 12.22 | 30.4 | 11.02 | 30.2 | 10.48 | 30.0 | 10.10 | 29.4 | 9.08 |
| | 0 | 77.2 | 42.8 | 15.10 | 40.8 | 14.18 | 39.0 | 13.02 | 38.4 | 12.40 | 37.6 | 11.94 | 36.2 | 10.72 |
| | | 96.5 | 43.0 | 15.14 | 41.0 | 14.22 | 39.2 | 13.04 | 38.6 | 12.44 | 38.0 | 11.98 | 36.6 | 10.76 |
| | | 193.0 | 44.0 | 15.30 | 42.0 | 14.36 | 40.0 | 13.18 | 39.4 | 12.58 | 38.8 | 12.12 | 37.4 | 10.88 |
| | | 241.3 | 44.6 | 15.30 | 42.6 | 14.36 | 40.8 | 13.18 | 40.0 | 12.58 | 39.4 | 12.12 | 38.0 | 10.88 |
| | | 289.5 | 45.0 | 15.30 | 43.0 | 14.36 | 41.0 | 13.18 | 40.4 | 12.58 | 39.8 | 12.12 | 38.2 | 10.88 |
| | 5 | 77.2 | 60.4 | 16.22 | 58.4 | 15.30 | 56.6 | 14.16 | 55.4 | 13.50 | 53.0 | 13.00 | 50.4 | 11.66 |
| | | 96.5 | 60.4 | 16.28 | 58.4 | 15.38 | 56.6 | 14.24 | 55.4 | 13.58 | 53.0 | 13.06 | 50.4 | 11.72 |
| | | 193.0 | 60.8 | 16.58 | 58.2 | 15.66 | 56.6 | 14.50 | 55.4 | 13.84 | 53.0 | 13.34 | 50.4 | 11.96 |
| | | 241.3 | 61.0 | 16.68 | 58.4 | 15.76 | 56.6 | 14.62 | 55.4 | 13.94 | 53.0 | 13.44 | 50.4 | 12.06 |
| | | 289.5 | 61.2 | 16.72 | 58.6 | 15.82 | 56.6 | 14.68 | 55.4 | 13.98 | 53.0 | 13.48 | 50.4 | 12.10 |
| | 10 | 77.2 | 60.8 | 14.32 | 58.6 | 13.62 | 56.6 | 12.82 | 55.4 | 12.30 | 53.0 | 11.80 | 50.4 | 10.62 |
| | | 96.5 | 60.8 | 14.32 | 58.6 | 13.62 | 56.6 | 12.84 | 55.4 | 12.30 | 53.0 | 11.78 | 50.4 | 10.64 |
| | | 193.0 | 60.6 | 14.36 | 58.4 | 13.68 | 56.6 | 12.90 | 55.4 | 12.36 | 53.0 | 11.74 | 50.4 | 10.68 |
| | | 241.3 | 61.0 | 14.32 | 58.4 | 13.64 | 56.6 | 12.86 | 55.4 | 12.32 | 53.0 | 11.78 | 50.4 | 10.72 |
| | | 289.5 | 61.2 | 14.30 | 58.6 | 13.62 | 56.6 | 12.84 | 55.4 | 12.30 | 53.0 | 11.80 | 50.4 | 10.74 |
| | 15 | 77.2 | 61.0 | 12.40 | 58.8 | 11.94 | 56.6 | 11.50 | 55.4 | 11.10 | 53.0 | 10.60 | 50.4 | 9.62 |
| | | 96.5 | 61.0 | 12.34 | 58.8 | 11.90 | 56.6 | 11.46 | 55.4 | 11.06 | 53.0 | 10.50 | 50.4 | 9.58 |
| | | 193.0 | 60.6 | 12.16 | 58.4 | 11.70 | 56.6 | 11.26 | 55.4 | 10.90 | 53.0 | 10.14 | 50.4 | 9.38 |
| | | 241.3 | 61.0 | 11.98 | 58.6 | 11.54 | 56.6 | 11.06 | 55.4 | 10.70 | 53.0 | 10.14 | 50.4 | 9.38 |
| | | 289.5 | 61.2 | 11.90 | 58.6 | 11.44 | 56.6 | 10.96 | 55.4 | 10.60 | 53.0 | 10.14 | 50.4 | 9.38 |
| | 20 | 77.2 | 61.4 | 10.46 | 59.2 | 10.16 | 56.6 | 9.82 | 55.4 | 9.42 | 53.0 | 9.10 | 50.4 | 8.54 |
| | | 96.5 | 61.4 | 10.46 | 59.0 | 10.14 | 56.6 | 9.76 | 55.4 | 9.38 | 53.0 | 9.00 | 50.4 | 8.44 |
| | | 193.0 | 61.2 | 10.46 | 58.6 | 10.02 | 56.6 | 9.58 | 55.4 | 9.20 | 53.0 | 8.64 | 50.4 | 8.08 |
| | | 241.3 | 61.4 | 10.28 | 58.8 | 9.94 | 56.6 | 9.58 | 55.4 | 9.20 | 53.0 | 8.64 | 50.4 | 8.08 |
| | | 289.5 | 61.4 | 10.20 | 58.8 | 9.90 | 56.6 | 9.58 | 55.4 | 9.20 | 53.0 | 8.64 | 50.4 | 8.08 |
| | 25 | 77.2 | 62.4 | 9.14 | 59.8 | 8.66 | 56.6 | 8.30 | 55.4 | 7.88 | 53.0 | 7.56 | 50.4 | 7.00 |
| | | 96.5 | 62.6 | 9.12 | 59.8 | 8.64 | 56.6 | 8.26 | 55.4 | 7.88 | 53.0 | 7.52 | 50.4 | 6.96 |
| | | 193.0 | 63.2 | 9.04 | 59.8 | 8.56 | 56.6 | 8.08 | 55.4 | 7.88 | 53.0 | 7.32 | 50.4 | 6.76 |
| | | 241.3 | 63.4 | 8.82 | 59.8 | 8.36 | 56.6 | 8.08 | 55.4 | 7.68 | 53.0 | 7.32 | 50.4 | 6.76 |
| | | 289.5 | 63.6 | 8.70 | 59.8 | 8.26 | 56.6 | 8.08 | 55.4 | 7.60 | 53.0 | 7.32 | 50.4 | 6.76 |
| | 30 | 77.2 | 63.4 | 8.30 | 59.8 | 7.74 | 56.6 | 7.16 | 55.4 | 7.00 | 53.0 | 6.60 | 50.4 | 6.00 |
| | | 96.5 | 63.4 | 8.26 | 59.8 | 7.68 | 56.6 | 7.12 | 55.4 | 6.96 | 53.0 | 6.56 | 50.4 | 6.00 |
| | | 193.0 | 63.4 | 8.08 | 59.8 | 7.52 | 56.6 | 6.96 | 55.4 | 6.76 | 53.0 | 6.38 | 50.4 | 6.00 |
| | | 241.3 | 63.4 | 7.88 | 59.8 | 7.32 | 56.6 | 6.96 | 55.4 | 6.76 | 53.0 | 6.38 | 50.4 | 5.82 |
| | | 289.5 | 63.4 | 7.78 | 59.8 | 7.22 | 56.6 | 6.96 | 55.4 | 6.76 | 53.0 | 6.38 | 50.4 | 5.74 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 77.2 | 63.4 | 7.56 | 59.8 | 7.00 | 56.6 | 6.44 | 55.4 | 6.24 | 53.0 | 5.88 | 50.4 | 5.48 |
| | | 96.5 | 63.4 | 7.52 | 59.8 | 6.96 | 56.6 | 6.38 | 55.4 | 6.20 | 53.0 | 5.82 | 50.4 | 5.44 |
| | | 193.0 | 63.4 | 7.32 | 59.8 | 6.76 | 56.6 | 6.20 | 55.4 | 6.00 | 53.0 | 5.64 | 50.4 | 5.26 |
| | | 241.3 | 63.4 | 7.12 | 59.8 | 6.56 | 56.6 | 6.00 | 55.4 | 5.82 | 53.0 | 5.64 | 50.4 | 5.26 |
| | | 289.5 | 63.4 | 7.02 | 59.8 | 6.46 | 56.6 | 5.90 | 55.4 | 5.74 | 53.0 | 5.64 | 50.4 | 5.26 |
| | 40 | 77.2 | 63.4 | 7.04 | 59.8 | 6.44 | 56.6 | 5.68 | 55.4 | 5.48 | 53.0 | 5.32 | 50.4 | 4.92 |
| | | 96.5 | 63.4 | 6.96 | 59.8 | 6.38 | 56.6 | 5.64 | 55.4 | 5.44 | 53.0 | 5.26 | 50.4 | 4.88 |
| | | 193.0 | 63.4 | 6.56 | 59.8 | 6.20 | 56.6 | 5.44 | 55.4 | 5.26 | 53.0 | 5.06 | 50.4 | 4.70 |
| | | 241.3 | 63.4 | 6.56 | 59.8 | 6.20 | 56.6 | 5.44 | 55.4 | 5.26 | 53.0 | 5.06 | 50.4 | 4.70 |
| | | 289.5 | 63.4 | 6.56 | 59.8 | 6.20 | 56.6 | 5.44 | 55.4 | 5.26 | 53.0 | 5.06 | 50.4 | 4.70 |
| | 45 | 77.2 | 63.4 | 6.52 | 59.8 | 5.88 | 56.6 | 4.92 | 55.4 | 4.74 | 53.0 | 4.74 | 50.4 | 4.36 |
| | | 96.5 | 63.4 | 6.38 | 59.8 | 5.82 | 56.6 | 4.88 | 55.4 | 4.70 | 53.0 | 4.70 | 50.4 | 4.30 |
| | | 193.0 | 63.4 | 5.82 | 59.8 | 5.64 | 56.6 | 4.70 | 55.4 | 4.50 | 53.0 | 4.50 | 50.4 | 4.14 |
| | | 241.3 | 63.4 | 6.00 | 59.8 | 5.82 | 56.6 | 4.88 | 55.4 | 4.70 | 53.0 | 4.50 | 50.4 | 4.14 |
| | | 289.5 | 63.4 | 6.08 | 59.8 | 5.92 | 56.6 | 4.96 | 55.4 | 4.80 | 53.0 | 4.50 | 50.4 | 4.14 |
| 80 | -5 | 77.2 | 22.6 | 7.90 | 21.2 | 7.60 | 20.0 | 7.28 | 19.8 | 7.04 | 19.8 | 6.70 | 19.4 | 6.18 |
| | | 96.5 | 23.4 | 8.08 | 22.0 | 7.76 | 20.8 | 7.44 | 20.6 | 7.18 | 20.4 | 6.86 | 20.0 | 6.30 |
| | | 193.0 | 26.4 | 8.78 | 24.8 | 8.42 | 23.4 | 8.06 | 23.2 | 7.78 | 23.0 | 7.44 | 22.6 | 6.84 |
| | | 241.3 | 29.2 | 9.46 | 27.4 | 9.08 | 26.0 | 8.70 | 25.6 | 8.40 | 25.4 | 8.02 | 25.0 | 7.38 |
| | | 289.5 | 30.6 | 9.80 | 28.6 | 9.42 | 27.2 | 9.02 | 26.8 | 8.72 | 26.8 | 8.32 | 26.2 | 7.66 |
| | 0 | 77.2 | 40.4 | 11.60 | 37.2 | 11.12 | 34.6 | 10.66 | 34.0 | 10.30 | 33.6 | 9.82 | 32.2 | 9.04 |
| | | 96.5 | 40.6 | 11.62 | 37.4 | 11.16 | 34.8 | 10.70 | 34.2 | 10.32 | 33.8 | 9.84 | 32.4 | 9.06 |
| | | 193.0 | 41.6 | 11.76 | 38.4 | 11.30 | 35.6 | 10.82 | 35.0 | 10.44 | 34.6 | 9.96 | 33.2 | 9.16 |
| | | 241.3 | 42.2 | 11.76 | 39.0 | 11.30 | 36.2 | 10.82 | 35.6 | 10.44 | 35.2 | 9.96 | 33.8 | 9.16 |
| | | 289.5 | 42.4 | 11.76 | 39.2 | 11.30 | 36.6 | 10.82 | 35.8 | 10.44 | 35.4 | 9.96 | 34.0 | 9.16 |
| | 5 | 77.2 | 55.8 | 12.60 | 52.6 | 12.14 | 50.4 | 11.58 | 49.2 | 11.20 | 47.2 | 10.68 | 44.8 | 9.82 |
| | | 96.5 | 56.0 | 12.68 | 52.8 | 12.20 | 50.4 | 11.64 | 49.2 | 11.26 | 47.2 | 10.74 | 44.8 | 9.88 |
| | | 193.0 | 56.4 | 12.94 | 53.2 | 12.42 | 50.4 | 11.90 | 49.2 | 11.50 | 47.2 | 10.94 | 44.8 | 10.10 |
| | | 241.3 | 56.4 | 13.02 | 53.2 | 12.52 | 50.4 | 11.98 | 49.2 | 11.58 | 47.2 | 11.02 | 44.8 | 10.16 |
| | | 289.5 | 56.4 | 13.06 | 53.2 | 12.58 | 50.4 | 12.02 | 49.2 | 11.60 | 47.2 | 11.06 | 44.8 | 10.18 |
| | 10 | 77.2 | 56.2 | 11.60 | 53.0 | 11.08 | 50.4 | 10.52 | 49.2 | 10.22 | 47.2 | 9.68 | 44.8 | 8.96 |
| | | 96.5 | 56.2 | 11.60 | 53.0 | 11.06 | 50.4 | 10.52 | 49.2 | 10.24 | 47.2 | 9.68 | 44.8 | 8.96 |
| | | 193.0 | 56.4 | 11.54 | 53.2 | 11.00 | 50.4 | 10.54 | 49.2 | 10.26 | 47.2 | 9.70 | 44.8 | 8.98 |
| | | 241.3 | 56.4 | 11.50 | 53.2 | 11.04 | 50.4 | 10.58 | 49.2 | 10.20 | 47.2 | 9.64 | 44.8 | 8.94 |
| | | 289.5 | 56.4 | 11.48 | 53.2 | 11.06 | 50.4 | 10.60 | 49.2 | 10.16 | 47.2 | 9.62 | 44.8 | 8.90 |
| | 15 | 77.2 | 56.4 | 10.60 | 53.2 | 10.04 | 50.4 | 9.42 | 49.2 | 9.26 | 47.2 | 8.68 | 44.8 | 8.12 |
| | | 96.5 | 56.4 | 10.50 | 53.2 | 9.94 | 50.4 | 9.38 | 49.2 | 9.20 | 47.2 | 8.64 | 44.8 | 8.08 |
| | | 193.0 | 56.4 | 10.14 | 53.2 | 9.58 | 50.4 | 9.20 | 49.2 | 9.00 | 47.2 | 8.44 | 44.8 | 7.88 |
| | | 241.3 | 56.4 | 9.94 | 53.2 | 9.58 | 50.4 | 9.20 | 49.2 | 8.82 | 47.2 | 8.26 | 44.8 | 7.68 |
| | | 289.5 | 56.4 | 9.84 | 53.2 | 9.58 | 50.4 | 9.20 | 49.2 | 8.72 | 47.2 | 8.16 | 44.8 | 7.60 |
| | 20 | 77.2 | 56.4 | 8.86 | 53.2 | 8.50 | 50.4 | 8.08 | 49.2 | 7.94 | 47.2 | 7.56 | 44.8 | 7.00 |
| | | 96.5 | 56.4 | 8.82 | 53.2 | 8.44 | 50.4 | 8.08 | 49.2 | 7.88 | 47.2 | 7.52 | 44.8 | 6.96 |
| | | 193.0 | 56.4 | 8.64 | 53.2 | 8.26 | 50.4 | 8.08 | 49.2 | 7.68 | 47.2 | 7.32 | 44.8 | 6.76 |
| | | 241.3 | 56.4 | 8.44 | 53.2 | 8.08 | 50.4 | 7.88 | 49.2 | 7.68 | 47.2 | 7.12 | 44.8 | 6.76 |
| | | 289.5 | 56.4 | 8.34 | 53.2 | 7.98 | 50.4 | 7.78 | 49.2 | 7.68 | 47.2 | 7.02 | 44.8 | 6.76 |
| | 25 | 77.2 | 56.4 | 7.94 | 53.2 | 7.36 | 50.4 | 6.96 | 49.2 | 6.80 | 47.2 | 6.44 | 44.8 | 6.04 |
| | | 96.5 | 56.4 | 7.88 | 53.2 | 7.32 | 50.4 | 6.96 | 49.2 | 6.76 | 47.2 | 6.38 | 44.8 | 6.00 |
| | | 193.0 | 56.4 | 7.68 | 53.2 | 7.12 | 50.4 | 6.96 | 49.2 | 6.56 | 47.2 | 6.20 | 44.8 | 5.82 |
| | | 241.3 | 56.4 | 7.52 | 53.2 | 7.12 | 50.4 | 6.76 | 49.2 | 6.56 | 47.2 | 6.20 | 44.8 | 5.82 |
| | | 289.5 | 56.4 | 7.42 | 53.2 | 7.12 | 50.4 | 6.66 | 49.2 | 6.56 | 47.2 | 6.20 | 44.8 | 5.82 |
| | 30 | 77.2 | 56.4 | 7.00 | 53.2 | 6.60 | 50.4 | 6.24 | 49.2 | 6.04 | 47.2 | 5.68 | 44.8 | 5.32 |
| | | 96.5 | 56.4 | 6.96 | 53.2 | 6.56 | 50.4 | 6.20 | 49.2 | 6.00 | 47.2 | 5.64 | 44.8 | 5.26 |
| | | 193.0 | 56.4 | 6.76 | 53.2 | 6.38 | 50.4 | 6.00 | 49.2 | 5.82 | 47.2 | 5.44 | 44.8 | 5.06 |
| | | 241.3 | 56.4 | 6.76 | 53.2 | 6.38 | 50.4 | 6.00 | 49.2 | 5.82 | 47.2 | 5.44 | 44.8 | 5.06 |
| | | 289.5 | 56.4 | 6.76 | 53.2 | 6.38 | 50.4 | 6.00 | 49.2 | 5.82 | 47.2 | 5.44 | 44.8 | 5.06 |
| | 35 | 77.2 | 56.4 | 6.44 | 53.2 | 6.04 | 50.4 | 5.48 | 49.2 | 5.26 | 47.2 | 5.12 | 44.8 | 4.70 |
| | | 96.5 | 56.4 | 6.38 | 53.2 | 6.00 | 50.4 | 5.44 | 49.2 | 5.26 | 47.2 | 5.06 | 44.8 | 4.70 |
| | | 193.0 | 56.4 | 6.20 | 53.2 | 5.82 | 50.4 | 5.26 | 49.2 | 5.26 | 47.2 | 4.88 | 44.8 | 4.70 |
| | | 241.3 | 56.4 | 6.20 | 53.2 | 5.64 | 50.4 | 5.26 | 49.2 | 5.06 | 47.2 | 4.88 | 44.8 | 4.50 |
| | | 289.5 | 56.4 | 6.20 | 53.2 | 5.54 | 50.4 | 5.26 | 49.2 | 4.96 | 47.2 | 4.88 | 44.8 | 4.40 |
| | 40 | 77.2 | 56.4 | 6.10 | 53.2 | 5.48 | 50.4 | 4.88 | 49.2 | 4.92 | 47.2 | 4.50 | 44.8 | 4.36 |
| | | 96.5 | 56.4 | 6.00 | 53.2 | 5.44 | 50.4 | 4.88 | 49.2 | 4.88 | 47.2 | 4.50 | 44.8 | 4.30 |
| | | 193.0 | 56.4 | 5.64 | 53.2 | 5.26 | 50.4 | 4.88 | 49.2 | 4.70 | 47.2 | 4.50 | 44.8 | 4.14 |
| | | 241.3 | 56.4 | 5.64 | 53.2 | 5.26 | 50.4 | 4.70 | 49.2 | 4.70 | 47.2 | 4.50 | 44.8 | 4.14 |
| | | 289.5 | 56.4 | 5.64 | 53.2 | 5.26 | 50.4 | 4.62 | 49.2 | 4.70 | 47.2 | 4.50 | 44.8 | 4.14 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 77.2 | 56.4 | 5.78 | 53.2 | 4.92 | 50.4 | 4.26 | 49.2 | 4.60 | 47.2 | 3.90 | 44.8 | 4.04 |
| | | 96.5 | 56.4 | 5.64 | 53.2 | 4.88 | 50.4 | 4.30 | 49.2 | 4.50 | 47.2 | 3.94 | 44.8 | 3.94 |
| | | 193.0 | 56.4 | 5.06 | 53.2 | 4.70 | 50.4 | 4.50 | 49.2 | 4.14 | 47.2 | 4.14 | 44.8 | 3.58 |
| | | 241.3 | 56.4 | 5.06 | 53.2 | 4.88 | 50.4 | 4.14 | 49.2 | 4.30 | 47.2 | 4.14 | 44.8 | 3.74 |
| | | 289.5 | 56.4 | 5.06 | 53.2 | 4.96 | 50.4 | 3.94 | 49.2 | 4.40 | 47.2 | 4.14 | 44.8 | 3.84 |
| 70 | -5 | 77.2 | 19.8 | 6.78 | 18.6 | 6.46 | 17.6 | 6.24 | 17.4 | 5.90 | 17.2 | 5.68 | 17.0 | 5.16 |
| | | 96.5 | 20.4 | 6.94 | 19.2 | 6.60 | 18.2 | 6.38 | 18.0 | 6.02 | 17.8 | 5.80 | 17.6 | 5.28 |
| | | 193.0 | 23.0 | 7.52 | 21.6 | 7.16 | 20.4 | 6.94 | 20.2 | 6.52 | 20.2 | 6.30 | 19.8 | 5.72 |
| | | 241.3 | 25.6 | 8.12 | 24.0 | 7.72 | 22.6 | 7.48 | 22.4 | 7.02 | 22.2 | 6.80 | 21.8 | 6.18 |
| | | 289.5 | 26.8 | 8.42 | 25.2 | 8.02 | 23.8 | 7.74 | 23.6 | 7.28 | 23.4 | 7.04 | 22.8 | 6.40 |
| | 0 | 77.2 | 35.4 | 9.92 | 32.6 | 9.46 | 30.2 | 9.16 | 29.8 | 8.62 | 29.4 | 8.32 | 28.2 | 7.58 |
| | | 96.5 | 35.6 | 9.96 | 32.8 | 9.50 | 30.4 | 9.18 | 30.0 | 8.64 | 29.4 | 8.34 | 28.4 | 7.60 |
| | | 193.0 | 36.4 | 10.08 | 33.6 | 9.60 | 31.2 | 9.30 | 30.6 | 8.74 | 30.2 | 8.44 | 29.0 | 7.66 |
| | | 241.3 | 36.8 | 10.08 | 34.2 | 9.60 | 31.6 | 9.30 | 31.2 | 8.74 | 30.6 | 8.44 | 29.6 | 7.66 |
| | | 289.5 | 37.2 | 10.08 | 34.4 | 9.60 | 31.8 | 9.30 | 31.4 | 8.74 | 30.8 | 8.44 | 29.8 | 7.66 |
| | 5 | 77.2 | 48.8 | 10.82 | 46.2 | 10.30 | 44.0 | 9.96 | 43.0 | 9.40 | 41.2 | 9.06 | 39.2 | 8.22 |
| | | 96.5 | 48.8 | 10.88 | 46.2 | 10.34 | 44.0 | 10.02 | 43.0 | 9.44 | 41.2 | 9.10 | 39.2 | 8.28 |
| | | 193.0 | 49.2 | 11.08 | 46.6 | 10.56 | 44.0 | 10.24 | 43.0 | 9.60 | 41.2 | 9.30 | 39.2 | 8.44 |
| | | 241.3 | 49.2 | 11.16 | 46.6 | 10.64 | 44.0 | 10.30 | 43.0 | 9.68 | 41.2 | 9.36 | 39.2 | 8.50 |
| | | 289.5 | 49.2 | 11.20 | 46.6 | 10.68 | 44.0 | 10.34 | 43.0 | 9.72 | 41.2 | 9.38 | 39.2 | 8.54 |
| | 10 | 77.2 | 49.0 | 9.96 | 46.4 | 9.42 | 44.0 | 9.06 | 43.0 | 8.56 | 41.2 | 8.22 | 39.2 | 7.52 |
| | | 96.5 | 49.0 | 9.94 | 46.4 | 9.40 | 44.0 | 9.04 | 43.0 | 8.56 | 41.2 | 8.22 | 39.2 | 7.52 |
| | | 193.0 | 49.2 | 9.86 | 46.6 | 9.32 | 44.0 | 8.96 | 43.0 | 8.56 | 41.2 | 8.22 | 39.2 | 7.52 |
| | | 241.3 | 49.2 | 9.90 | 46.6 | 9.36 | 44.0 | 9.00 | 43.0 | 8.60 | 41.2 | 8.16 | 39.2 | 7.54 |
| | | 289.5 | 49.2 | 9.92 | 46.6 | 9.38 | 44.0 | 9.02 | 43.0 | 8.62 | 41.2 | 8.12 | 39.2 | 7.54 |
| | 15 | 77.2 | 49.2 | 9.10 | 46.6 | 8.54 | 44.0 | 8.18 | 43.0 | 7.74 | 41.2 | 7.36 | 39.2 | 6.80 |
| | | 96.5 | 49.2 | 9.00 | 46.6 | 8.44 | 44.0 | 8.08 | 43.0 | 7.68 | 41.2 | 7.32 | 39.2 | 6.76 |
| | | 193.0 | 49.2 | 8.64 | 46.6 | 8.08 | 44.0 | 7.68 | 43.0 | 7.52 | 41.2 | 7.12 | 39.2 | 6.56 |
| | | 241.3 | 49.2 | 8.64 | 46.6 | 8.08 | 44.0 | 7.68 | 43.0 | 7.52 | 41.2 | 6.96 | 39.2 | 6.56 |
| | | 289.5 | 49.2 | 8.64 | 46.6 | 8.08 | 44.0 | 7.68 | 43.0 | 7.52 | 41.2 | 6.86 | 39.2 | 6.56 |
| | 20 | 77.2 | 49.2 | 7.56 | 46.6 | 7.16 | 44.0 | 7.00 | 43.0 | 6.80 | 41.2 | 6.44 | 39.2 | 6.04 |
| | | 96.5 | 49.2 | 7.52 | 46.6 | 7.12 | 44.0 | 6.96 | 43.0 | 6.76 | 41.2 | 6.38 | 39.2 | 6.00 |
| | | 193.0 | 49.2 | 7.32 | 46.6 | 6.96 | 44.0 | 6.76 | 43.0 | 6.56 | 41.2 | 6.20 | 39.2 | 5.82 |
| | | 241.3 | 49.2 | 7.32 | 46.6 | 6.96 | 44.0 | 6.76 | 43.0 | 6.38 | 41.2 | 6.20 | 39.2 | 5.64 |
| | | 289.5 | 49.2 | 7.32 | 46.6 | 6.96 | 44.0 | 6.76 | 43.0 | 6.30 | 41.2 | 6.20 | 39.2 | 5.54 |
| | 25 | 77.2 | 49.2 | 6.80 | 46.6 | 6.44 | 44.0 | 6.04 | 43.0 | 5.88 | 41.2 | 5.44 | 39.2 | 5.06 |
| | | 96.5 | 49.2 | 6.76 | 46.6 | 6.38 | 44.0 | 6.00 | 43.0 | 5.82 | 41.2 | 5.44 | 39.2 | 5.06 |
| | | 193.0 | 49.2 | 6.56 | 46.6 | 6.20 | 44.0 | 5.82 | 43.0 | 5.64 | 41.2 | 5.44 | 39.2 | 5.06 |
| | | 241.3 | 49.2 | 6.38 | 46.6 | 6.00 | 44.0 | 5.82 | 43.0 | 5.64 | 41.2 | 5.26 | 39.2 | 5.06 |
| | | 289.5 | 49.2 | 6.30 | 46.6 | 5.90 | 44.0 | 5.82 | 43.0 | 5.64 | 41.2 | 5.18 | 39.2 | 5.06 |
| | 30 | 77.2 | 49.2 | 6.04 | 46.6 | 5.68 | 44.0 | 5.32 | 43.0 | 5.06 | 41.2 | 4.92 | 39.2 | 4.50 |
| | | 96.5 | 49.2 | 6.00 | 46.6 | 5.64 | 44.0 | 5.26 | 43.0 | 5.06 | 41.2 | 4.88 | 39.2 | 4.50 |
| | | 193.0 | 49.2 | 5.82 | 46.6 | 5.44 | 44.0 | 5.06 | 43.0 | 5.06 | 41.2 | 4.70 | 39.2 | 4.50 |
| | | 241.3 | 49.2 | 5.82 | 46.6 | 5.44 | 44.0 | 5.06 | 43.0 | 4.88 | 41.2 | 4.70 | 39.2 | 4.50 |
| | | 289.5 | 49.2 | 5.82 | 46.6 | 5.44 | 44.0 | 5.06 | 43.0 | 4.78 | 41.2 | 4.70 | 39.2 | 4.50 |
| | 35 | 77.2 | 49.2 | 5.48 | 46.6 | 5.12 | 44.0 | 4.70 | 43.0 | 4.74 | 41.2 | 4.30 | 39.2 | 4.18 |
| | | 96.5 | 49.2 | 5.44 | 46.6 | 5.06 | 44.0 | 4.70 | 43.0 | 4.70 | 41.2 | 4.30 | 39.2 | 4.14 |
| | | 193.0 | 49.2 | 5.26 | 46.6 | 4.88 | 44.0 | 4.70 | 43.0 | 4.50 | 41.2 | 4.30 | 39.2 | 3.94 |
| | | 241.3 | 49.2 | 5.26 | 46.6 | 4.88 | 44.0 | 4.50 | 43.0 | 4.50 | 41.2 | 4.30 | 39.2 | 3.94 |
| | | 289.5 | 49.2 | 5.26 | 46.6 | 4.88 | 44.0 | 4.40 | 43.0 | 4.50 | 41.2 | 4.30 | 39.2 | 3.94 |
| | 40 | 77.2 | 49.2 | 5.12 | 46.6 | 4.74 | 44.0 | 4.36 | 43.0 | 4.14 | 41.2 | 3.94 | 39.2 | 3.80 |
| | | 96.5 | 49.2 | 5.06 | 46.6 | 4.70 | 44.0 | 4.30 | 43.0 | 4.14 | 41.2 | 3.94 | 39.2 | 3.74 |
| | | 193.0 | 49.2 | 4.88 | 46.6 | 4.50 | 44.0 | 4.14 | 43.0 | 4.14 | 41.2 | 3.94 | 39.2 | 3.58 |
| | | 241.3 | 49.2 | 4.88 | 46.6 | 4.50 | 44.0 | 4.14 | 43.0 | 3.94 | 41.2 | 3.74 | 39.2 | 3.58 |
| | | 289.5 | 49.2 | 4.88 | 46.6 | 4.50 | 44.0 | 4.14 | 43.0 | 3.84 | 41.2 | 3.64 | 39.2 | 3.58 |
| | 45 | 77.2 | 49.2 | 4.74 | 46.6 | 4.36 | 44.0 | 4.04 | 43.0 | 3.52 | 41.2 | 3.58 | 39.2 | 3.42 |
| | | 96.5 | 49.2 | 4.70 | 46.6 | 4.30 | 44.0 | 3.94 | 43.0 | 3.58 | 41.2 | 3.58 | 39.2 | 3.38 |
| | | 193.0 | 49.2 | 4.50 | 46.6 | 4.14 | 44.0 | 3.58 | 43.0 | 3.74 | 41.2 | 3.58 | 39.2 | 3.18 |
| | | 241.3 | 49.2 | 4.50 | 46.6 | 4.14 | 44.0 | 3.74 | 43.0 | 3.38 | 41.2 | 3.18 | 39.2 | 3.18 |
| | | 289.5 | 49.2 | 4.50 | 46.6 | 4.14 | 44.0 | 3.84 | 43.0 | 3.20 | 41.2 | 2.98 | 39.2 | 3.18 |
| 60 | -5 | 77.2 | 17.0 | 5.50 | 15.8 | 5.30 | 15.0 | 5.10 | 14.8 | 4.74 | 14.8 | 4.66 | 14.4 | 4.16 |
| | | 96.5 | 17.6 | 5.64 | 16.4 | 5.42 | 15.6 | 5.20 | 15.4 | 4.84 | 15.2 | 4.76 | 15.0 | 4.26 |
| | | 193.0 | 19.8 | 6.12 | 18.6 | 5.88 | 17.6 | 5.64 | 17.4 | 5.24 | 17.4 | 5.16 | 17.0 | 4.62 |
| | | 241.3 | 22.0 | 6.58 | 20.6 | 6.34 | 19.4 | 6.10 | 19.2 | 5.66 | 19.2 | 5.58 | 18.8 | 4.96 |
| | | 289.5 | 23.0 | 6.82 | 21.4 | 6.58 | 20.4 | 6.32 | 20.2 | 5.88 | 20.0 | 5.78 | 19.6 | 5.14 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 77.2 | 30.2 | 8.08 | 28.0 | 7.78 | 26.0 | 7.44 | 25.6 | 6.94 | 25.2 | 6.84 | 24.2 | 6.10 |
| | | 96.5 | 30.4 | 8.10 | 28.0 | 7.80 | 26.2 | 7.48 | 25.6 | 6.96 | 25.4 | 6.86 | 24.4 | 6.12 |
| | | 193.0 | 31.2 | 8.20 | 28.8 | 7.88 | 26.8 | 7.58 | 26.2 | 7.02 | 26.0 | 6.94 | 25.0 | 6.18 |
| | | 241.3 | 31.6 | 8.20 | 29.2 | 7.88 | 27.2 | 7.58 | 26.6 | 7.02 | 26.4 | 6.94 | 25.4 | 6.18 |
| | | 289.5 | 31.8 | 8.20 | 29.4 | 7.88 | 27.4 | 7.58 | 26.8 | 7.02 | 26.6 | 6.94 | 25.6 | 6.18 |
| | 5 | 77.2 | 41.8 | 8.78 | 39.4 | 8.46 | 37.8 | 8.10 | 37.0 | 7.56 | 35.4 | 7.44 | 33.6 | 6.62 |
| | | 96.5 | 42.0 | 8.84 | 39.6 | 8.50 | 37.8 | 8.16 | 37.0 | 7.60 | 35.4 | 7.48 | 33.6 | 6.66 |
| | | 193.0 | 42.4 | 9.00 | 39.8 | 8.68 | 37.8 | 8.32 | 37.0 | 7.74 | 35.4 | 7.62 | 33.6 | 6.80 |
| | | 241.3 | 42.4 | 9.08 | 39.8 | 8.74 | 37.8 | 8.38 | 37.0 | 7.80 | 35.4 | 7.66 | 33.6 | 6.86 |
| | | 289.5 | 42.4 | 9.12 | 39.8 | 8.76 | 37.8 | 8.42 | 37.0 | 7.84 | 35.4 | 7.68 | 33.6 | 6.88 |
| | 10 | 77.2 | 42.0 | 8.08 | 39.6 | 7.72 | 37.8 | 7.36 | 37.0 | 6.88 | 35.4 | 6.74 | 33.6 | 6.04 |
| | | 96.5 | 42.2 | 8.08 | 39.6 | 7.72 | 37.8 | 7.36 | 37.0 | 6.90 | 35.4 | 6.74 | 33.6 | 6.06 |
| | | 193.0 | 42.4 | 8.08 | 39.8 | 7.72 | 37.8 | 7.36 | 37.0 | 6.96 | 35.4 | 6.72 | 33.6 | 6.12 |
| | | 241.3 | 42.4 | 8.10 | 39.8 | 7.64 | 37.8 | 7.28 | 37.0 | 6.90 | 35.4 | 6.66 | 33.6 | 6.06 |
| | | 289.5 | 42.4 | 8.10 | 39.8 | 7.60 | 37.8 | 7.24 | 37.0 | 6.86 | 35.4 | 6.62 | 33.6 | 6.02 |
| | 15 | 77.2 | 42.4 | 7.36 | 39.8 | 7.00 | 37.8 | 6.60 | 37.0 | 6.20 | 35.4 | 6.04 | 33.6 | 5.44 |
| | | 96.5 | 42.4 | 7.32 | 39.8 | 6.96 | 37.8 | 6.56 | 37.0 | 6.20 | 35.4 | 6.00 | 33.6 | 5.44 |
| | | 193.0 | 42.4 | 7.12 | 39.8 | 6.76 | 37.8 | 6.38 | 37.0 | 6.20 | 35.4 | 5.82 | 33.6 | 5.44 |
| | | 241.3 | 42.4 | 7.12 | 39.8 | 6.56 | 37.8 | 6.20 | 37.0 | 6.00 | 35.4 | 5.64 | 33.6 | 5.26 |
| | | 289.5 | 42.4 | 7.12 | 39.8 | 6.46 | 37.8 | 6.10 | 37.0 | 5.90 | 35.4 | 5.54 | 33.6 | 5.18 |
| | 20 | 77.2 | 42.4 | 6.44 | 39.8 | 6.04 | 37.8 | 5.68 | 37.0 | 5.48 | 35.4 | 5.32 | 33.6 | 4.92 |
| | | 96.5 | 42.4 | 6.38 | 39.8 | 6.00 | 37.8 | 5.64 | 37.0 | 5.44 | 35.4 | 5.26 | 33.6 | 4.88 |
| | | 193.0 | 42.4 | 6.20 | 39.8 | 5.82 | 37.8 | 5.44 | 37.0 | 5.26 | 35.4 | 5.06 | 33.6 | 4.70 |
| | | 241.3 | 42.4 | 6.20 | 39.8 | 5.82 | 37.8 | 5.44 | 37.0 | 5.26 | 35.4 | 5.06 | 33.6 | 4.70 |
| | | 289.5 | 42.4 | 6.20 | 39.8 | 5.82 | 37.8 | 5.44 | 37.0 | 5.26 | 35.4 | 5.06 | 33.6 | 4.70 |
| | 25 | 77.2 | 42.4 | 5.68 | 39.8 | 5.32 | 37.8 | 4.88 | 37.0 | 4.92 | 35.4 | 4.50 | 33.6 | 4.36 |
| | | 96.5 | 42.4 | 5.64 | 39.8 | 5.26 | 37.8 | 4.88 | 37.0 | 4.88 | 35.4 | 4.50 | 33.6 | 4.30 |
| | | 193.0 | 42.4 | 5.44 | 39.8 | 5.06 | 37.8 | 4.88 | 37.0 | 4.70 | 35.4 | 4.50 | 33.6 | 4.14 |
| | | 241.3 | 42.4 | 5.44 | 39.8 | 5.06 | 37.8 | 4.70 | 37.0 | 4.70 | 35.4 | 4.50 | 33.6 | 4.14 |
| | | 289.5 | 42.4 | 5.44 | 39.8 | 5.06 | 37.8 | 4.62 | 37.0 | 4.70 | 35.4 | 4.50 | 33.6 | 4.14 |
| | 30 | 77.2 | 42.4 | 5.12 | 39.8 | 4.74 | 37.8 | 4.56 | 37.0 | 4.36 | 35.4 | 4.18 | 33.6 | 4.00 |
| | | 96.5 | 42.4 | 5.06 | 39.8 | 4.70 | 37.8 | 4.50 | 37.0 | 4.30 | 35.4 | 4.14 | 33.6 | 3.94 |
| | | 193.0 | 42.4 | 4.88 | 39.8 | 4.50 | 37.8 | 4.30 | 37.0 | 4.14 | 35.4 | 3.94 | 33.6 | 3.74 |
| | | 241.3 | 42.4 | 4.88 | 39.8 | 4.50 | 37.8 | 4.30 | 37.0 | 4.14 | 35.4 | 3.94 | 33.6 | 3.74 |
| | | 289.5 | 42.4 | 4.88 | 39.8 | 4.50 | 37.8 | 4.30 | 37.0 | 4.14 | 35.4 | 3.94 | 33.6 | 3.74 |
| | 35 | 77.2 | 42.4 | 4.50 | 39.8 | 4.36 | 37.8 | 3.94 | 37.0 | 4.00 | 35.4 | 3.80 | 33.6 | 3.62 |
| | | 96.5 | 42.4 | 4.50 | 39.8 | 4.30 | 37.8 | 3.94 | 37.0 | 3.94 | 35.4 | 3.74 | 33.6 | 3.58 |
| | | 193.0 | 42.4 | 4.50 | 39.8 | 4.14 | 37.8 | 3.94 | 37.0 | 3.74 | 35.4 | 3.58 | 33.6 | 3.38 |
| | | 241.3 | 42.4 | 4.50 | 39.8 | 4.14 | 37.8 | 3.74 | 37.0 | 3.74 | 35.4 | 3.58 | 33.6 | 3.38 |
| | | 289.5 | 42.4 | 4.50 | 39.8 | 4.14 | 37.8 | 3.64 | 37.0 | 3.74 | 35.4 | 3.58 | 33.6 | 3.38 |
| | 40 | 77.2 | 42.4 | 4.14 | 39.8 | 4.00 | 37.8 | 3.58 | 37.0 | 3.62 | 35.4 | 3.42 | 33.6 | 3.18 |
| | | 96.5 | 42.4 | 4.14 | 39.8 | 3.94 | 37.8 | 3.58 | 37.0 | 3.58 | 35.4 | 3.38 | 33.6 | 3.18 |
| | | 193.0 | 42.4 | 4.14 | 39.8 | 3.74 | 37.8 | 3.58 | 37.0 | 3.38 | 35.4 | 3.18 | 33.6 | 3.18 |
| | | 241.3 | 42.4 | 4.14 | 39.8 | 3.74 | 37.8 | 3.58 | 37.0 | 3.38 | 35.4 | 3.18 | 33.6 | 3.18 |
| | | 289.5 | 42.4 | 4.14 | 39.8 | 3.74 | 37.8 | 3.58 | 37.0 | 3.38 | 35.4 | 3.18 | 33.6 | 3.18 |
| | 45 | 77.2 | 42.4 | 3.74 | 39.8 | 3.62 | 37.8 | 3.18 | 37.0 | 3.22 | 35.4 | 3.06 | 33.6 | 2.76 |
| | | 96.5 | 42.4 | 3.74 | 39.8 | 3.58 | 37.8 | 3.18 | 37.0 | 3.18 | 35.4 | 3.00 | 33.6 | 2.82 |
| | | 193.0 | 42.4 | 3.74 | 39.8 | 3.38 | 37.8 | 3.18 | 37.0 | 3.00 | 35.4 | 2.82 | 33.6 | 3.00 |
| | | 241.3 | 42.4 | 3.74 | 39.8 | 3.38 | 37.8 | 3.38 | 37.0 | 3.00 | 35.4 | 2.82 | 33.6 | 3.00 |
| | | 289.5 | 42.4 | 3.74 | 39.8 | 3.38 | 37.8 | 3.48 | 37.0 | 3.00 | 35.4 | 2.82 | 33.6 | 3.00 |
| 50 | -5 | 77.2 | 14.2 | 4.40 | 13.2 | 4.16 | 12.6 | 3.94 | 12.4 | 3.72 | 12.2 | 3.50 | 12.0 | 3.30 |
| | | 96.5 | 14.6 | 4.48 | 13.8 | 4.26 | 13.0 | 4.02 | 12.8 | 3.80 | 12.8 | 3.58 | 12.4 | 3.38 |
| | | 193.0 | 16.4 | 4.86 | 15.4 | 4.62 | 14.6 | 4.34 | 14.4 | 4.14 | 14.4 | 3.88 | 14.2 | 3.64 |
| | | 241.3 | 18.2 | 5.24 | 17.2 | 4.96 | 16.2 | 4.70 | 16.0 | 4.46 | 15.8 | 4.18 | 15.6 | 3.94 |
| | | 289.5 | 19.2 | 5.44 | 18.0 | 5.14 | 17.0 | 4.88 | 16.8 | 4.64 | 16.6 | 4.32 | 16.4 | 4.08 |
| | 0 | 77.2 | 25.2 | 6.44 | 23.4 | 6.10 | 21.6 | 5.74 | 21.2 | 5.46 | 21.0 | 5.12 | 20.2 | 4.84 |
| | | 96.5 | 25.4 | 6.44 | 23.4 | 6.12 | 21.8 | 5.76 | 21.4 | 5.48 | 21.0 | 5.14 | 20.2 | 4.86 |
| | | 193.0 | 26.0 | 6.50 | 24.0 | 6.18 | 22.4 | 5.84 | 21.8 | 5.56 | 21.6 | 5.20 | 20.8 | 4.92 |
| | | 241.3 | 26.4 | 6.50 | 24.4 | 6.18 | 22.6 | 5.84 | 22.2 | 5.56 | 21.8 | 5.20 | 21.0 | 4.92 |
| | | 289.5 | 26.6 | 6.50 | 24.4 | 6.18 | 22.8 | 5.84 | 22.4 | 5.56 | 22.0 | 5.20 | 21.2 | 4.92 |
| | 5 | 77.2 | 34.8 | 7.00 | 33.0 | 6.62 | 31.4 | 6.26 | 30.8 | 5.96 | 29.4 | 5.58 | 28.0 | 5.26 |
| | | 96.5 | 34.8 | 7.02 | 33.0 | 6.66 | 31.4 | 6.30 | 30.8 | 5.98 | 29.4 | 5.62 | 28.0 | 5.28 |
| | | 193.0 | 35.2 | 7.16 | 33.2 | 6.80 | 31.6 | 6.42 | 30.8 | 6.10 | 29.4 | 5.70 | 28.0 | 5.40 |
| | | 241.3 | 35.2 | 7.22 | 33.2 | 6.86 | 31.6 | 6.46 | 30.8 | 6.14 | 29.4 | 5.76 | 28.0 | 5.44 |
| | | 289.5 | 35.2 | 7.26 | 33.2 | 6.88 | 31.6 | 6.48 | 30.8 | 6.16 | 29.4 | 5.80 | 28.0 | 5.46 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(20HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 77.2 | 35.0 | 6.44 | 33.0 | 6.06 | 31.4 | 5.70 | 30.8 | 5.44 | 29.4 | 5.04 | 28.0 | 4.80 |
| | | 96.5 | 35.0 | 6.42 | 33.2 | 6.06 | 31.4 | 5.68 | 30.8 | 5.44 | 29.4 | 5.04 | 28.0 | 4.80 |
| | | 193.0 | 35.2 | 6.38 | 33.2 | 6.04 | 31.6 | 5.64 | 30.8 | 5.40 | 29.4 | 5.10 | 28.0 | 4.76 |
| | | 241.3 | 35.2 | 6.42 | 33.2 | 6.06 | 31.6 | 5.66 | 30.8 | 5.42 | 29.4 | 5.02 | 28.0 | 4.78 |
| | | 289.5 | 35.2 | 6.44 | 33.2 | 6.06 | 31.6 | 5.68 | 30.8 | 5.42 | 29.4 | 4.98 | 28.0 | 4.78 |
| | 15 | 77.2 | 35.2 | 5.88 | 33.2 | 5.48 | 31.6 | 5.12 | 30.8 | 4.92 | 29.4 | 4.50 | 28.0 | 4.36 |
| | | 96.5 | 35.2 | 5.82 | 33.2 | 5.44 | 31.6 | 5.06 | 30.8 | 4.88 | 29.4 | 4.50 | 28.0 | 4.30 |
| | | 193.0 | 35.2 | 5.64 | 33.2 | 5.26 | 31.6 | 4.88 | 30.8 | 4.70 | 29.4 | 4.50 | 28.0 | 4.14 |
| | | 241.3 | 35.2 | 5.64 | 33.2 | 5.26 | 31.6 | 4.88 | 30.8 | 4.70 | 29.4 | 4.30 | 28.0 | 4.14 |
| | | 289.5 | 35.2 | 5.64 | 33.2 | 5.26 | 31.6 | 4.88 | 30.8 | 4.70 | 29.4 | 4.22 | 28.0 | 4.14 |
| | 20 | 77.2 | 35.2 | 5.12 | 33.2 | 4.74 | 31.6 | 4.56 | 30.8 | 4.36 | 29.4 | 4.18 | 28.0 | 3.74 |
| | | 96.5 | 35.2 | 5.06 | 33.2 | 4.70 | 31.6 | 4.50 | 30.8 | 4.30 | 29.4 | 4.14 | 28.0 | 3.74 |
| | | 193.0 | 35.2 | 4.88 | 33.2 | 4.50 | 31.6 | 4.30 | 30.8 | 4.14 | 29.4 | 3.94 | 28.0 | 3.74 |
| | | 241.3 | 35.2 | 4.88 | 33.2 | 4.50 | 31.6 | 4.30 | 30.8 | 4.14 | 29.4 | 3.94 | 28.0 | 3.74 |
| | | 289.5 | 35.2 | 4.88 | 33.2 | 4.50 | 31.6 | 4.30 | 30.8 | 4.14 | 29.4 | 3.94 | 28.0 | 3.74 |
| | 25 | 77.2 | 35.2 | 4.56 | 33.2 | 4.14 | 31.6 | 4.00 | 30.8 | 3.74 | 29.4 | 3.58 | 28.0 | 3.38 |
| | | 96.5 | 35.2 | 4.50 | 33.2 | 4.14 | 31.6 | 3.94 | 30.8 | 3.74 | 29.4 | 3.58 | 28.0 | 3.38 |
| | | 193.0 | 35.2 | 4.30 | 33.2 | 4.14 | 31.6 | 3.74 | 30.8 | 3.74 | 29.4 | 3.58 | 28.0 | 3.38 |
| | | 241.3 | 35.2 | 4.30 | 33.2 | 4.14 | 31.6 | 3.74 | 30.8 | 3.74 | 29.4 | 3.58 | 28.0 | 3.38 |
| | | 289.5 | 35.2 | 4.30 | 33.2 | 4.14 | 31.6 | 3.74 | 30.8 | 3.74 | 29.4 | 3.58 | 28.0 | 3.38 |
| | 30 | 77.2 | 35.2 | 4.18 | 33.2 | 3.80 | 31.6 | 3.62 | 30.8 | 3.38 | 29.4 | 3.42 | 28.0 | 3.22 |
| | | 96.5 | 35.2 | 4.14 | 33.2 | 3.74 | 31.6 | 3.58 | 30.8 | 3.38 | 29.4 | 3.38 | 28.0 | 3.18 |
| | | 193.0 | 35.2 | 3.94 | 33.2 | 3.58 | 31.6 | 3.38 | 30.8 | 3.38 | 29.4 | 3.18 | 28.0 | 3.00 |
| | | 241.3 | 35.2 | 3.94 | 33.2 | 3.58 | 31.6 | 3.38 | 30.8 | 3.38 | 29.4 | 3.18 | 28.0 | 3.00 |
| | | 289.5 | 35.2 | 3.94 | 33.2 | 3.58 | 31.6 | 3.38 | 30.8 | 3.38 | 29.4 | 3.18 | 28.0 | 3.00 |
| | 35 | 77.2 | 35.2 | 3.80 | 33.2 | 3.38 | 31.6 | 3.18 | 30.8 | 3.22 | 29.4 | 3.00 | 28.0 | 2.82 |
| | | 96.5 | 35.2 | 3.74 | 33.2 | 3.38 | 31.6 | 3.18 | 30.8 | 3.18 | 29.4 | 3.00 | 28.0 | 2.82 |
| | | 193.0 | 35.2 | 3.58 | 33.2 | 3.38 | 31.6 | 3.18 | 30.8 | 3.00 | 29.4 | 3.00 | 28.0 | 2.82 |
| | | 241.3 | 35.2 | 3.58 | 33.2 | 3.38 | 31.6 | 3.18 | 30.8 | 3.00 | 29.4 | 3.00 | 28.0 | 2.82 |
| | | 289.5 | 35.2 | 3.58 | 33.2 | 3.38 | 31.6 | 3.18 | 30.8 | 3.00 | 29.4 | 3.00 | 28.0 | 2.82 |
| | 40 | 77.2 | 35.2 | 3.42 | 33.2 | 3.22 | 31.6 | 3.06 | 30.8 | 2.82 | 29.4 | 2.86 | 28.0 | 2.62 |
| | | 96.5 | 35.2 | 3.38 | 33.2 | 3.18 | 31.6 | 3.00 | 30.8 | 2.82 | 29.4 | 2.82 | 28.0 | 2.62 |
| | | 193.0 | 35.2 | 3.18 | 33.2 | 3.00 | 31.6 | 2.82 | 30.8 | 2.82 | 29.4 | 2.62 | 28.0 | 2.62 |
| | | 241.3 | 35.2 | 3.18 | 33.2 | 3.00 | 31.6 | 2.82 | 30.8 | 2.82 | 29.4 | 2.62 | 28.0 | 2.62 |
| | | 289.5 | 35.2 | 3.18 | 33.2 | 3.00 | 31.6 | 2.82 | 30.8 | 2.82 | 29.4 | 2.62 | 28.0 | 2.62 |
| | 45 | 77.2 | 35.2 | 3.06 | 33.2 | 3.10 | 31.6 | 2.90 | 30.8 | 2.40 | 29.4 | 2.72 | 28.0 | 2.44 |
| | | 96.5 | 35.2 | 3.00 | 33.2 | 3.00 | 31.6 | 2.82 | 30.8 | 2.44 | 29.4 | 2.62 | 28.0 | 2.44 |
| | | 193.0 | 35.2 | 2.82 | 33.2 | 2.62 | 31.6 | 2.44 | 30.8 | 2.62 | 29.4 | 2.26 | 28.0 | 2.44 |
| | | 241.3 | 35.2 | 2.82 | 33.2 | 2.62 | 31.6 | 2.44 | 30.8 | 2.62 | 29.4 | 2.26 | 28.0 | 2.44 |
| | | 289.5 | 35.2 | 2.82 | 33.2 | 2.62 | 31.6 | 2.44 | 30.8 | 2.62 | 29.4 | 2.26 | 28.0 | 2.44 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN220BAS4

**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 84.8 | 32.8 | 13.42 | 32.5 | 12.64 | 32.4 | 11.76 | 31.9 | 11.42 | 32.2 | 11.12 | 31.4 | 9.98 |
| | | 106.0 | 33.9 | 13.66 | 33.6 | 12.88 | 33.5 | 12.02 | 33.0 | 11.67 | 33.4 | 11.37 | 32.5 | 10.19 |
| | | 212.0 | 38.3 | 14.59 | 38.0 | 13.86 | 37.9 | 13.04 | 37.4 | 12.67 | 37.7 | 12.31 | 36.8 | 11.05 |
| | | 265.0 | 42.4 | 15.51 | 42.0 | 14.81 | 41.8 | 14.06 | 41.3 | 13.68 | 41.8 | 13.29 | 40.7 | 11.91 |
| | | 318.0 | 44.5 | 15.98 | 44.0 | 15.29 | 43.7 | 14.57 | 43.2 | 14.20 | 43.8 | 13.77 | 42.6 | 12.35 |
| | 0 | 84.8 | 58.6 | 18.37 | 57.2 | 17.81 | 56.0 | 17.23 | 54.8 | 16.75 | 55.0 | 16.29 | 52.5 | 14.59 |
| | | 106.0 | 58.9 | 18.41 | 57.5 | 17.86 | 56.4 | 17.28 | 55.1 | 16.80 | 55.3 | 16.33 | 52.8 | 14.63 |
| | | 212.0 | 60.3 | 18.61 | 58.9 | 18.04 | 57.7 | 17.48 | 56.4 | 16.99 | 56.6 | 16.51 | 54.1 | 14.81 |
| | | 265.0 | 61.3 | 18.61 | 59.7 | 18.04 | 58.5 | 17.48 | 57.2 | 16.99 | 57.5 | 16.51 | 54.8 | 14.81 |
| | | 318.0 | 61.7 | 18.61 | 60.2 | 18.04 | 59.0 | 17.48 | 57.7 | 16.99 | 57.8 | 16.51 | 55.3 | 14.81 |
| | 5 | 84.8 | 84.4 | 19.74 | 83.1 | 19.25 | 81.4 | 18.76 | 79.3 | 18.23 | 77.2 | 17.73 | 72.9 | 15.87 |
| | | 106.0 | 84.7 | 19.82 | 83.3 | 19.34 | 81.4 | 18.85 | 79.3 | 18.32 | 77.2 | 17.81 | 72.9 | 15.96 |
| | | 212.0 | 85.8 | 20.18 | 83.8 | 19.70 | 81.4 | 19.23 | 79.3 | 18.70 | 77.2 | 18.17 | 72.9 | 16.29 |
| | | 265.0 | 86.3 | 20.32 | 84.1 | 19.82 | 81.4 | 19.36 | 79.3 | 18.84 | 77.2 | 18.31 | 72.9 | 16.40 |
| | | 318.0 | 86.6 | 20.38 | 84.2 | 19.89 | 81.4 | 19.43 | 79.3 | 18.90 | 77.2 | 18.37 | 72.9 | 16.46 |
| | 10 | 84.8 | 84.4 | 17.96 | 83.1 | 17.36 | 81.1 | 17.04 | 79.0 | 16.65 | 76.9 | 16.08 | 72.6 | 14.51 |
| | | 106.0 | 85.0 | 17.93 | 83.5 | 17.37 | 81.4 | 17.07 | 79.3 | 16.64 | 77.2 | 16.07 | 72.9 | 14.50 |
| | | 212.0 | 86.9 | 17.79 | 85.0 | 17.44 | 82.7 | 17.19 | 80.6 | 16.62 | 78.3 | 16.03 | 74.0 | 14.45 |
| | | 265.0 | 87.4 | 18.04 | 85.6 | 17.69 | 83.3 | 17.26 | 80.9 | 16.69 | 78.9 | 16.29 | 74.5 | 15.15 |
| | | 318.0 | 87.7 | 18.16 | 85.9 | 17.81 | 83.5 | 17.30 | 81.1 | 16.72 | 79.1 | 16.42 | 74.8 | 15.48 |
| | 15 | 84.8 | 84.6 | 16.19 | 83.1 | 15.50 | 80.8 | 15.33 | 78.6 | 15.07 | 76.5 | 14.44 | 72.3 | 13.15 |
| | | 106.0 | 85.3 | 16.03 | 83.8 | 15.43 | 81.4 | 15.30 | 79.3 | 14.97 | 77.2 | 14.32 | 72.9 | 13.04 |
| | | 212.0 | 88.0 | 15.39 | 86.3 | 15.16 | 84.0 | 15.16 | 81.9 | 14.53 | 79.5 | 13.88 | 75.3 | 12.60 |
| | | 265.0 | 88.5 | 15.76 | 87.1 | 15.51 | 85.0 | 15.16 | 82.7 | 14.53 | 80.6 | 14.27 | 76.1 | 13.88 |
| | | 318.0 | 88.8 | 15.95 | 87.5 | 15.69 | 85.5 | 15.16 | 83.1 | 14.53 | 81.1 | 14.48 | 76.6 | 14.53 |
| | 20 | 84.8 | 87.8 | 14.85 | 86.2 | 14.15 | 83.9 | 13.85 | 81.6 | 13.41 | 79.2 | 13.11 | 74.5 | 12.70 |
| | | 106.0 | 88.5 | 14.74 | 86.9 | 14.15 | 84.6 | 13.83 | 82.2 | 13.46 | 80.0 | 13.20 | 75.3 | 12.60 |
| | | 212.0 | 91.3 | 14.32 | 89.7 | 14.10 | 87.2 | 13.79 | 84.8 | 13.68 | 82.7 | 13.55 | 78.0 | 12.18 |
| | | 265.0 | 91.6 | 14.32 | 90.3 | 14.10 | 88.2 | 13.88 | 85.7 | 13.68 | 83.3 | 13.55 | 78.6 | 12.95 |
| | | 318.0 | 91.9 | 14.32 | 90.7 | 14.10 | 88.8 | 13.92 | 86.1 | 13.68 | 83.6 | 13.55 | 79.0 | 13.35 |
| | 25 | 84.8 | 92.7 | 14.15 | 90.3 | 13.74 | 88.2 | 13.52 | 86.6 | 13.29 | 84.6 | 13.09 | 79.7 | 12.23 |
| | | 106.0 | 92.7 | 14.10 | 90.3 | 13.73 | 88.2 | 13.46 | 86.6 | 13.24 | 84.6 | 13.04 | 79.7 | 12.18 |
| | | 212.0 | 92.7 | 13.88 | 90.3 | 13.64 | 88.2 | 13.24 | 86.6 | 13.04 | 84.6 | 12.82 | 79.7 | 11.96 |
| | | 265.0 | 92.7 | 13.68 | 90.3 | 13.29 | 88.2 | 13.04 | 86.6 | 12.82 | 84.6 | 12.60 | 79.7 | 11.76 |
| | | 318.0 | 92.7 | 13.58 | 90.3 | 13.11 | 88.2 | 12.94 | 86.6 | 12.71 | 84.6 | 12.49 | 79.7 | 11.66 |
| | 30 | 84.8 | 92.7 | 13.79 | 90.3 | 13.11 | 88.2 | 12.99 | 86.6 | 12.65 | 84.6 | 12.52 | 79.7 | 11.64 |
| | | 106.0 | 92.7 | 13.68 | 90.3 | 13.09 | 88.2 | 12.91 | 86.6 | 12.60 | 84.6 | 12.40 | 79.7 | 11.54 |
| | | 212.0 | 92.7 | 13.24 | 90.3 | 13.00 | 88.2 | 12.60 | 86.6 | 12.40 | 84.6 | 11.96 | 79.7 | 11.11 |
| | | 265.0 | 92.7 | 13.04 | 90.3 | 12.64 | 88.2 | 12.40 | 86.6 | 12.18 | 84.6 | 11.96 | 79.7 | 11.11 |
| | | 318.0 | 92.7 | 12.94 | 90.3 | 12.47 | 88.2 | 12.30 | 86.6 | 12.07 | 84.6 | 11.96 | 79.7 | 11.11 |
| | 35 | 84.8 | 92.7 | 13.15 | 90.3 | 12.71 | 88.2 | 12.46 | 86.6 | 12.01 | 84.6 | 11.59 | 79.7 | 10.78 |
| | | 106.0 | 92.7 | 13.04 | 90.3 | 12.64 | 88.2 | 12.40 | 86.6 | 11.96 | 84.6 | 11.54 | 79.7 | 10.67 |
| | | 212.0 | 92.7 | 12.60 | 90.3 | 12.35 | 88.2 | 12.18 | 86.6 | 11.76 | 84.6 | 11.32 | 79.7 | 10.25 |
| | | 265.0 | 92.7 | 12.60 | 90.3 | 12.23 | 88.2 | 11.96 | 86.6 | 11.54 | 84.6 | 11.11 | 79.7 | 10.25 |
| | | 318.0 | 92.7 | 12.60 | 90.3 | 12.16 | 88.2 | 11.85 | 86.6 | 11.43 | 84.6 | 11.02 | 79.7 | 10.25 |
| | 40 | 84.8 | 92.7 | 12.70 | 90.3 | 12.30 | 88.2 | 12.06 | 86.6 | 11.64 | 84.6 | 11.23 | 79.7 | 10.14 |
| | | 106.0 | 92.7 | 12.60 | 90.3 | 12.23 | 88.2 | 11.96 | 86.6 | 11.54 | 84.6 | 11.11 | 79.7 | 10.04 |
| | | 212.0 | 92.7 | 12.18 | 90.3 | 11.91 | 88.2 | 11.54 | 86.6 | 11.11 | 84.6 | 10.67 | 79.7 | 9.62 |
| | | 265.0 | 92.7 | 11.96 | 90.3 | 11.72 | 88.2 | 11.54 | 86.6 | 11.11 | 84.6 | 10.67 | 79.7 | 9.62 |
| | | 318.0 | 92.7 | 11.85 | 90.3 | 11.61 | 88.2 | 11.54 | 86.6 | 11.11 | 84.6 | 10.67 | 79.7 | 9.62 |
| | 45 | 84.8 | 92.7 | 12.29 | 90.3 | 11.88 | 88.2 | 11.70 | 86.6 | 11.28 | 84.6 | 10.84 | 79.7 | 9.50 |
| | | 106.0 | 92.7 | 12.18 | 90.3 | 11.81 | 88.2 | 11.54 | 86.6 | 11.11 | 84.6 | 10.67 | 79.7 | 9.39 |
| | | 212.0 | 92.7 | 11.76 | 90.3 | 11.49 | 88.2 | 10.90 | 86.6 | 10.48 | 84.6 | 10.04 | 79.7 | 8.98 |
| | | 265.0 | 92.7 | 11.32 | 90.3 | 11.20 | 88.2 | 11.11 | 86.6 | 10.67 | 84.6 | 10.25 | 79.7 | 8.98 |
| | | 318.0 | 92.7 | 11.10 | 90.3 | 11.06 | 88.2 | 11.23 | 86.6 | 10.78 | 84.6 | 10.37 | 79.7 | 8.98 |
| 120 | -5 | 84.8 | 31.1 | 13.42 | 30.9 | 12.64 | 30.8 | 11.76 | 30.3 | 11.27 | 30.6 | 10.95 | 29.8 | 9.80 |
| | | 106.0 | 32.2 | 13.66 | 31.9 | 12.88 | 31.8 | 12.02 | 31.4 | 11.52 | 31.6 | 11.19 | 30.8 | 10.01 |
| | | 212.0 | 36.5 | 14.59 | 36.2 | 13.86 | 36.0 | 13.04 | 35.5 | 12.49 | 35.8 | 12.14 | 34.9 | 10.87 |
| | | 265.0 | 40.3 | 15.51 | 39.9 | 14.81 | 39.7 | 14.06 | 39.3 | 13.48 | 39.6 | 13.09 | 38.5 | 11.72 |
| | | 318.0 | 42.2 | 15.98 | 41.9 | 15.29 | 41.6 | 14.57 | 41.2 | 13.98 | 41.5 | 13.56 | 40.3 | 12.14 |
| | 0 | 84.8 | 55.7 | 18.37 | 54.4 | 17.81 | 53.1 | 17.23 | 52.1 | 16.51 | 52.1 | 16.04 | 49.7 | 14.35 |
| | | 106.0 | 56.0 | 18.41 | 54.7 | 17.86 | 53.5 | 17.28 | 52.5 | 16.55 | 52.5 | 16.09 | 50.0 | 14.39 |
| | | 212.0 | 57.3 | 18.61 | 55.9 | 18.04 | 54.8 | 17.48 | 53.6 | 16.75 | 53.6 | 16.27 | 51.2 | 14.57 |
| | | 265.0 | 58.2 | 18.61 | 56.9 | 18.04 | 55.6 | 17.48 | 54.5 | 16.75 | 54.4 | 16.27 | 52.0 | 14.57 |
| | | 318.0 | 58.6 | 18.61 | 57.3 | 18.04 | 56.1 | 17.48 | 54.9 | 16.75 | 54.8 | 16.27 | 52.5 | 14.57 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 84.8 | 80.3 | 19.74 | 79.1 | 19.25 | 77.3 | 18.76 | 75.5 | 17.96 | 73.1 | 17.46 | 69.1 | 15.63 |
| | | 106.0 | 80.6 | 19.82 | 79.2 | 19.34 | 77.3 | 18.85 | 75.5 | 18.06 | 73.1 | 17.55 | 69.1 | 15.72 |
| | | 212.0 | 81.7 | 20.18 | 79.8 | 19.70 | 77.3 | 19.23 | 75.5 | 18.43 | 73.1 | 17.90 | 69.1 | 16.03 |
| | | 265.0 | 82.2 | 20.32 | 79.4 | 19.82 | 77.3 | 19.36 | 75.5 | 18.57 | 73.1 | 18.04 | 69.1 | 16.13 |
| | | 318.0 | 82.4 | 20.38 | 79.2 | 19.89 | 77.3 | 19.43 | 75.5 | 18.64 | 73.1 | 18.10 | 69.1 | 16.19 |
| | 10 | 84.8 | 80.6 | 17.73 | 79.1 | 17.24 | 77.2 | 16.89 | 75.3 | 16.37 | 72.9 | 15.84 | 69.0 | 14.24 |
| | | 106.0 | 80.9 | 17.79 | 79.4 | 17.31 | 77.3 | 16.95 | 75.5 | 16.40 | 73.1 | 15.83 | 69.1 | 14.26 |
| | | 212.0 | 82.5 | 18.04 | 80.7 | 17.57 | 78.2 | 17.19 | 76.4 | 16.49 | 73.9 | 15.78 | 69.8 | 14.32 |
| | | 265.0 | 82.9 | 17.97 | 80.5 | 17.57 | 78.6 | 17.26 | 76.7 | 16.55 | 74.2 | 15.85 | 70.1 | 14.81 |
| | | 318.0 | 83.1 | 17.93 | 80.3 | 17.57 | 78.7 | 17.30 | 76.8 | 16.59 | 74.3 | 15.89 | 70.3 | 15.06 |
| | 15 | 84.8 | 80.8 | 15.72 | 79.2 | 15.27 | 76.9 | 15.03 | 75.1 | 14.80 | 72.7 | 14.21 | 68.7 | 12.88 |
| | | 106.0 | 81.3 | 15.76 | 79.7 | 15.30 | 77.3 | 15.06 | 75.5 | 14.74 | 73.1 | 14.10 | 69.1 | 12.82 |
| | | 212.0 | 83.1 | 15.89 | 81.6 | 15.43 | 79.1 | 15.16 | 77.2 | 14.53 | 74.6 | 13.68 | 70.6 | 12.60 |
| | | 265.0 | 83.6 | 15.65 | 81.6 | 15.30 | 79.7 | 15.16 | 77.8 | 14.53 | 75.3 | 13.68 | 71.2 | 13.46 |
| | | 318.0 | 83.9 | 15.53 | 81.5 | 15.23 | 80.1 | 15.16 | 78.1 | 14.53 | 75.6 | 13.68 | 71.5 | 13.89 |
| | 20 | 84.8 | 83.1 | 14.15 | 81.5 | 13.54 | 79.0 | 13.18 | 76.9 | 12.99 | 74.3 | 12.83 | 70.4 | 12.18 |
| | | 106.0 | 83.6 | 14.15 | 82.0 | 13.59 | 79.5 | 13.24 | 77.3 | 13.04 | 74.8 | 12.82 | 70.7 | 12.14 |
| | | 212.0 | 85.8 | 14.15 | 83.9 | 13.79 | 81.2 | 13.46 | 79.3 | 13.24 | 76.7 | 12.78 | 72.4 | 11.96 |
| | | 265.0 | 86.1 | 14.01 | 83.9 | 13.68 | 81.9 | 13.46 | 79.7 | 13.24 | 77.2 | 12.82 | 72.9 | 12.40 |
| | | 318.0 | 86.3 | 13.95 | 83.9 | 13.62 | 82.2 | 13.46 | 80.0 | 13.24 | 77.3 | 12.84 | 73.1 | 12.62 |
| | 25 | 84.8 | 87.1 | 13.38 | 84.6 | 12.76 | 81.9 | 12.52 | 80.1 | 12.23 | 78.0 | 12.01 | 73.7 | 11.17 |
| | | 106.0 | 87.2 | 13.33 | 84.6 | 12.73 | 81.9 | 12.49 | 80.1 | 12.18 | 78.0 | 11.96 | 73.7 | 11.11 |
| | | 212.0 | 87.4 | 13.12 | 84.6 | 12.64 | 81.9 | 12.40 | 80.1 | 11.96 | 78.0 | 11.76 | 73.7 | 10.90 |
| | | 265.0 | 87.7 | 12.64 | 84.6 | 12.31 | 81.9 | 12.18 | 80.1 | 11.96 | 78.0 | 11.54 | 73.7 | 10.90 |
| | | 318.0 | 87.7 | 12.40 | 84.6 | 12.14 | 81.9 | 12.07 | 80.1 | 11.96 | 78.0 | 11.43 | 73.7 | 10.90 |
| | 30 | 84.8 | 87.7 | 12.79 | 84.6 | 12.17 | 81.9 | 11.82 | 80.1 | 11.37 | 78.0 | 11.23 | 73.7 | 10.31 |
| | | 106.0 | 87.7 | 12.69 | 84.6 | 12.09 | 81.9 | 11.76 | 80.1 | 11.32 | 78.0 | 11.11 | 73.7 | 10.25 |
| | | 212.0 | 87.7 | 12.26 | 84.6 | 11.81 | 81.9 | 11.54 | 80.1 | 11.11 | 78.0 | 10.67 | 73.7 | 10.04 |
| | | 265.0 | 87.7 | 11.87 | 84.6 | 11.54 | 81.9 | 11.32 | 80.1 | 11.11 | 78.0 | 10.67 | 73.7 | 9.84 |
| | | 318.0 | 87.7 | 11.67 | 84.6 | 11.40 | 81.9 | 11.20 | 80.1 | 11.11 | 78.0 | 10.67 | 73.7 | 9.74 |
| | 35 | 84.8 | 87.7 | 12.22 | 84.6 | 11.55 | 81.9 | 11.23 | 80.1 | 10.78 | 78.0 | 10.36 | 73.7 | 9.45 |
| | | 106.0 | 87.7 | 12.05 | 84.6 | 11.45 | 81.9 | 11.11 | 80.1 | 10.67 | 78.0 | 10.25 | 73.7 | 9.39 |
| | | 212.0 | 87.7 | 11.37 | 84.6 | 11.03 | 81.9 | 10.67 | 80.1 | 10.25 | 78.0 | 9.84 | 73.7 | 9.19 |
| | | 265.0 | 87.7 | 11.23 | 84.6 | 10.94 | 81.9 | 10.67 | 80.1 | 10.25 | 78.0 | 9.84 | 73.7 | 8.98 |
| | | 318.0 | 87.7 | 11.16 | 84.6 | 10.90 | 81.9 | 10.67 | 80.1 | 10.25 | 78.0 | 9.84 | 73.7 | 8.86 |
| | 40 | 84.8 | 87.7 | 11.85 | 84.6 | 11.02 | 81.9 | 10.58 | 80.1 | 10.14 | 78.0 | 9.72 | 73.7 | 8.80 |
| | | 106.0 | 87.7 | 11.63 | 84.6 | 10.90 | 81.9 | 10.48 | 80.1 | 10.04 | 78.0 | 9.62 | 73.7 | 8.75 |
| | | 212.0 | 87.7 | 10.72 | 84.6 | 10.39 | 81.9 | 10.04 | 80.1 | 9.62 | 78.0 | 9.19 | 73.7 | 8.56 |
| | | 265.0 | 87.7 | 10.58 | 84.6 | 10.25 | 81.9 | 10.04 | 80.1 | 9.62 | 78.0 | 9.19 | 73.7 | 8.33 |
| | | 318.0 | 87.7 | 10.52 | 84.6 | 10.19 | 81.9 | 10.04 | 80.1 | 9.62 | 78.0 | 9.19 | 73.7 | 8.22 |
| | 45 | 84.8 | 87.7 | 11.49 | 84.6 | 10.49 | 81.9 | 9.95 | 80.1 | 9.50 | 78.0 | 9.08 | 73.7 | 8.16 |
| | | 106.0 | 87.7 | 11.20 | 84.6 | 10.34 | 81.9 | 9.84 | 80.1 | 9.39 | 78.0 | 8.98 | 73.7 | 8.12 |
| | | 212.0 | 87.7 | 10.08 | 84.6 | 9.75 | 81.9 | 9.39 | 80.1 | 8.98 | 78.0 | 8.56 | 73.7 | 7.91 |
| | | 265.0 | 87.7 | 9.95 | 84.6 | 9.57 | 81.9 | 9.39 | 80.1 | 8.98 | 78.0 | 8.56 | 73.7 | 7.69 |
| | | 318.0 | 87.7 | 9.88 | 84.6 | 9.48 | 81.9 | 9.39 | 80.1 | 8.98 | 78.0 | 8.56 | 73.7 | 7.58 |
| 110 | -5 | 84.8 | 29.5 | 13.60 | 29.3 | 12.64 | 29.1 | 11.76 | 28.8 | 11.27 | 28.9 | 10.95 | 28.3 | 9.80 |
| | | 106.0 | 30.5 | 13.83 | 30.3 | 12.88 | 30.1 | 12.02 | 29.8 | 11.52 | 29.9 | 11.19 | 29.2 | 10.01 |
| | | 212.0 | 34.4 | 14.77 | 34.3 | 13.86 | 34.1 | 13.04 | 33.8 | 12.49 | 33.8 | 12.14 | 33.0 | 10.87 |
| | | 265.0 | 38.1 | 15.72 | 37.9 | 14.81 | 37.7 | 14.06 | 37.2 | 13.48 | 37.2 | 13.09 | 36.5 | 11.72 |
| | | 318.0 | 39.9 | 16.19 | 39.6 | 15.29 | 39.4 | 14.57 | 39.0 | 13.98 | 39.0 | 13.56 | 38.2 | 12.14 |
| | 0 | 84.8 | 52.7 | 18.61 | 51.5 | 17.81 | 50.4 | 17.23 | 49.5 | 16.51 | 49.0 | 16.04 | 47.2 | 14.35 |
| | | 106.0 | 53.0 | 18.66 | 51.8 | 17.86 | 50.7 | 17.28 | 49.8 | 16.55 | 49.3 | 16.09 | 47.5 | 14.39 |
| | | 212.0 | 54.2 | 18.84 | 53.1 | 18.04 | 51.9 | 17.48 | 50.9 | 16.75 | 50.5 | 16.27 | 48.6 | 14.57 |
| | | 265.0 | 55.0 | 18.84 | 53.9 | 18.04 | 52.8 | 17.48 | 51.7 | 16.75 | 51.2 | 16.27 | 49.2 | 14.57 |
| | | 318.0 | 55.5 | 18.84 | 54.4 | 18.04 | 53.1 | 17.48 | 52.0 | 16.75 | 51.7 | 16.27 | 49.6 | 14.57 |
| | 5 | 84.8 | 76.8 | 20.00 | 75.0 | 19.25 | 73.2 | 18.76 | 71.6 | 17.96 | 68.8 | 17.46 | 65.5 | 15.63 |
| | | 106.0 | 77.1 | 20.09 | 75.1 | 19.34 | 73.3 | 18.85 | 71.6 | 18.06 | 68.8 | 17.55 | 65.5 | 15.72 |
| | | 212.0 | 78.1 | 20.44 | 75.7 | 19.70 | 73.4 | 19.23 | 71.6 | 18.43 | 68.8 | 17.90 | 65.5 | 16.03 |
| | | 265.0 | 78.6 | 20.58 | 75.9 | 19.82 | 73.4 | 19.36 | 71.6 | 18.57 | 68.8 | 18.04 | 65.5 | 16.13 |
| | | 318.0 | 78.9 | 20.65 | 76.0 | 19.89 | 73.4 | 19.43 | 71.6 | 18.64 | 68.8 | 18.10 | 65.5 | 16.19 |
| | 10 | 84.8 | 77.1 | 17.93 | 75.3 | 17.32 | 73.2 | 16.95 | 71.5 | 16.37 | 68.7 | 15.84 | 65.4 | 14.24 |
| | | 106.0 | 77.5 | 17.97 | 75.4 | 17.37 | 73.3 | 16.99 | 71.6 | 16.40 | 68.8 | 15.83 | 65.5 | 14.26 |
| | | 212.0 | 78.6 | 18.10 | 76.2 | 17.57 | 73.7 | 17.19 | 72.1 | 16.49 | 69.3 | 15.78 | 65.8 | 14.32 |
| | | 265.0 | 79.0 | 18.10 | 76.5 | 17.57 | 74.0 | 17.16 | 72.2 | 16.45 | 69.4 | 15.85 | 66.0 | 14.48 |
| | | 318.0 | 79.2 | 18.10 | 76.7 | 17.57 | 74.2 | 17.13 | 72.3 | 16.42 | 69.5 | 15.89 | 66.1 | 14.56 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 84.8 | 77.3 | 15.87 | 75.3 | 15.43 | 73.1 | 15.16 | 71.4 | 14.80 | 68.7 | 14.21 | 65.4 | 12.88 |
| | | 106.0 | 77.6 | 15.85 | 75.6 | 15.43 | 73.4 | 15.16 | 71.6 | 14.74 | 68.8 | 14.10 | 65.5 | 12.82 |
| | | 212.0 | 79.0 | 15.76 | 76.7 | 15.43 | 74.2 | 15.16 | 72.4 | 14.53 | 69.8 | 13.68 | 66.2 | 12.60 |
| | | 265.0 | 79.4 | 15.65 | 77.1 | 15.30 | 74.6 | 14.97 | 72.7 | 14.32 | 69.9 | 13.68 | 66.5 | 12.82 |
| | | 318.0 | 79.7 | 15.59 | 77.3 | 15.23 | 74.8 | 14.86 | 72.9 | 14.22 | 70.1 | 13.68 | 66.8 | 12.93 |
| | 20 | 84.8 | 78.8 | 13.70 | 76.7 | 13.38 | 74.2 | 13.04 | 72.1 | 12.82 | 69.6 | 12.46 | 65.9 | 11.65 |
| | | 106.0 | 79.2 | 13.73 | 76.9 | 13.38 | 74.4 | 13.04 | 72.4 | 12.82 | 69.8 | 12.40 | 66.2 | 11.63 |
| | | 212.0 | 80.9 | 13.83 | 77.9 | 13.38 | 75.3 | 13.04 | 73.5 | 12.82 | 70.6 | 12.18 | 67.1 | 11.54 |
| | | 265.0 | 81.4 | 13.83 | 78.6 | 13.38 | 75.7 | 13.04 | 73.7 | 12.60 | 71.0 | 12.18 | 67.4 | 11.54 |
| | | 318.0 | 81.6 | 13.83 | 78.9 | 13.38 | 75.9 | 13.04 | 73.9 | 12.49 | 71.2 | 12.18 | 67.4 | 11.54 |
| | 25 | 84.8 | 81.2 | 12.47 | 78.9 | 12.01 | 75.7 | 11.82 | 74.0 | 11.37 | 71.5 | 10.95 | 67.6 | 10.04 |
| | | 106.0 | 81.4 | 12.44 | 78.9 | 11.96 | 75.7 | 11.76 | 74.0 | 11.32 | 71.5 | 10.90 | 67.6 | 10.04 |
| | | 212.0 | 82.0 | 12.35 | 78.9 | 11.76 | 75.7 | 11.54 | 74.0 | 11.11 | 71.5 | 10.67 | 67.6 | 10.04 |
| | | 265.0 | 82.5 | 12.35 | 78.9 | 11.81 | 75.7 | 11.32 | 74.0 | 11.11 | 71.5 | 10.48 | 67.6 | 9.84 |
| | | 318.0 | 82.7 | 12.35 | 78.9 | 11.82 | 75.7 | 11.20 | 74.0 | 11.11 | 71.5 | 10.37 | 67.6 | 9.74 |
| | 30 | 84.8 | 82.5 | 11.37 | 78.9 | 10.95 | 75.7 | 10.54 | 74.0 | 10.31 | 71.5 | 9.67 | 67.6 | 9.03 |
| | | 106.0 | 82.5 | 11.32 | 78.9 | 10.90 | 75.7 | 10.48 | 74.0 | 10.25 | 71.5 | 9.62 | 67.6 | 8.98 |
| | | 212.0 | 82.5 | 11.11 | 78.9 | 10.67 | 75.7 | 10.25 | 74.0 | 10.04 | 71.5 | 9.39 | 67.6 | 8.75 |
| | | 265.0 | 82.5 | 11.03 | 78.9 | 10.48 | 75.7 | 10.04 | 74.0 | 9.84 | 71.5 | 9.39 | 67.6 | 8.75 |
| | | 318.0 | 82.5 | 10.99 | 78.9 | 10.37 | 75.7 | 9.92 | 74.0 | 9.74 | 71.5 | 9.39 | 67.6 | 8.75 |
| | 35 | 84.8 | 82.5 | 10.78 | 78.9 | 10.08 | 75.7 | 9.67 | 74.0 | 9.25 | 71.5 | 8.80 | 67.6 | 8.16 |
| | | 106.0 | 82.5 | 10.67 | 78.9 | 10.04 | 75.7 | 9.62 | 74.0 | 9.19 | 71.5 | 8.75 | 67.6 | 8.12 |
| | | 212.0 | 82.5 | 10.25 | 78.9 | 9.84 | 75.7 | 9.39 | 74.0 | 8.98 | 71.5 | 8.56 | 67.6 | 7.91 |
| | | 265.0 | 82.5 | 9.99 | 78.9 | 9.62 | 75.7 | 9.19 | 74.0 | 8.98 | 71.5 | 8.56 | 67.6 | 7.91 |
| | | 318.0 | 82.5 | 9.86 | 78.9 | 9.51 | 75.7 | 9.10 | 74.0 | 8.98 | 71.5 | 8.56 | 67.6 | 7.91 |
| | 40 | 84.8 | 82.5 | 10.14 | 78.9 | 9.72 | 75.7 | 9.08 | 74.0 | 8.61 | 71.5 | 8.16 | 67.6 | 7.53 |
| | | 106.0 | 82.5 | 10.04 | 78.9 | 9.62 | 75.7 | 8.98 | 74.0 | 8.56 | 71.5 | 8.12 | 67.6 | 7.47 |
| | | 212.0 | 82.5 | 9.62 | 78.9 | 9.19 | 75.7 | 8.56 | 74.0 | 8.33 | 71.5 | 7.91 | 67.6 | 7.27 |
| | | 265.0 | 82.5 | 9.48 | 78.9 | 8.98 | 75.7 | 8.56 | 74.0 | 8.12 | 71.5 | 7.69 | 67.6 | 7.05 |
| | | 318.0 | 82.5 | 9.42 | 78.9 | 8.86 | 75.7 | 8.56 | 74.0 | 8.00 | 71.5 | 7.58 | 67.6 | 6.94 |
| | 45 | 84.8 | 82.5 | 9.50 | 78.9 | 9.36 | 75.7 | 8.50 | 74.0 | 7.97 | 71.5 | 7.53 | 67.6 | 6.88 |
| | | 106.0 | 82.5 | 9.39 | 78.9 | 9.19 | 75.7 | 8.33 | 74.0 | 7.91 | 71.5 | 7.47 | 67.6 | 6.83 |
| | | 212.0 | 82.5 | 8.98 | 78.9 | 8.56 | 75.7 | 7.69 | 74.0 | 7.69 | 71.5 | 7.27 | 67.6 | 6.63 |
| | | 265.0 | 82.5 | 8.98 | 78.9 | 8.33 | 75.7 | 7.91 | 74.0 | 7.27 | 71.5 | 6.83 | 67.6 | 6.19 |
| | | 318.0 | 82.5 | 8.98 | 78.9 | 8.22 | 75.7 | 8.03 | 74.0 | 7.06 | 71.5 | 6.61 | 67.6 | 5.97 |
| 100 | -5 | 84.8 | 27.8 | 13.60 | 27.7 | 12.82 | 27.5 | 11.76 | 27.3 | 11.27 | 27.0 | 10.77 | 26.5 | 9.80 |
| | | 106.0 | 28.8 | 13.83 | 28.6 | 13.06 | 28.5 | 12.02 | 28.3 | 11.52 | 28.0 | 11.01 | 27.5 | 10.01 |
| | | 212.0 | 32.7 | 14.77 | 32.4 | 14.03 | 32.2 | 13.04 | 31.9 | 12.49 | 31.6 | 11.96 | 31.1 | 10.87 |
| | | 265.0 | 36.0 | 15.72 | 35.8 | 15.01 | 35.5 | 14.06 | 35.2 | 13.48 | 35.0 | 12.88 | 34.4 | 11.72 |
| | | 318.0 | 37.7 | 16.19 | 37.4 | 15.50 | 37.3 | 14.57 | 36.9 | 13.98 | 36.7 | 13.35 | 36.0 | 12.14 |
| | 0 | 84.8 | 49.8 | 18.61 | 48.7 | 18.05 | 47.6 | 17.23 | 46.8 | 16.51 | 46.0 | 15.80 | 44.5 | 14.35 |
| | | 106.0 | 50.1 | 18.66 | 49.0 | 18.10 | 47.9 | 17.28 | 47.1 | 16.55 | 46.3 | 15.85 | 44.6 | 14.39 |
| | | 212.0 | 51.2 | 18.84 | 50.1 | 18.28 | 49.0 | 17.48 | 48.2 | 16.75 | 47.4 | 16.03 | 45.7 | 14.57 |
| | | 265.0 | 52.0 | 18.84 | 50.9 | 18.28 | 49.8 | 17.48 | 48.9 | 16.75 | 48.1 | 16.03 | 46.4 | 14.57 |
| | | 318.0 | 52.5 | 18.84 | 51.4 | 18.28 | 50.3 | 17.48 | 49.3 | 16.75 | 48.4 | 16.03 | 46.8 | 14.57 |
| | 5 | 84.8 | 73.5 | 20.00 | 71.0 | 19.52 | 69.2 | 18.76 | 67.9 | 17.96 | 64.6 | 17.19 | 61.6 | 15.63 |
| | | 106.0 | 73.7 | 20.09 | 71.2 | 19.61 | 69.3 | 18.85 | 67.9 | 18.06 | 64.6 | 17.28 | 61.6 | 15.72 |
| | | 212.0 | 74.8 | 20.44 | 71.7 | 19.96 | 69.3 | 19.23 | 67.9 | 18.43 | 64.6 | 17.64 | 61.6 | 16.03 |
| | | 265.0 | 75.3 | 20.58 | 71.8 | 20.09 | 69.3 | 19.36 | 67.9 | 18.57 | 64.6 | 17.75 | 61.6 | 16.13 |
| | | 318.0 | 75.4 | 20.65 | 72.0 | 20.15 | 69.3 | 19.43 | 67.9 | 18.64 | 64.6 | 17.81 | 61.6 | 16.19 |
| | 10 | 84.8 | 73.9 | 17.89 | 71.3 | 17.49 | 69.3 | 16.95 | 67.9 | 16.37 | 64.6 | 15.57 | 61.6 | 14.24 |
| | | 106.0 | 74.0 | 17.97 | 71.4 | 17.55 | 69.3 | 16.99 | 67.9 | 16.40 | 64.6 | 15.59 | 61.6 | 14.26 |
| | | 212.0 | 74.8 | 18.31 | 71.8 | 17.78 | 69.3 | 17.19 | 67.9 | 16.49 | 64.6 | 15.65 | 61.6 | 14.32 |
| | | 265.0 | 75.3 | 18.23 | 72.1 | 17.78 | 69.3 | 17.16 | 67.9 | 16.45 | 64.6 | 15.60 | 61.6 | 14.26 |
| | | 318.0 | 75.6 | 18.20 | 72.3 | 17.78 | 69.3 | 17.13 | 67.9 | 16.42 | 64.6 | 15.59 | 61.6 | 14.23 |
| | 15 | 84.8 | 74.3 | 15.77 | 71.5 | 15.51 | 69.3 | 15.16 | 67.9 | 14.80 | 64.6 | 13.94 | 61.6 | 12.88 |
| | | 106.0 | 74.4 | 15.85 | 71.6 | 15.51 | 69.3 | 15.16 | 67.9 | 14.74 | 64.6 | 13.88 | 61.6 | 12.82 |
| | | 212.0 | 74.8 | 16.16 | 71.8 | 15.56 | 69.3 | 15.16 | 67.9 | 14.53 | 64.6 | 13.68 | 61.6 | 12.60 |
| | | 265.0 | 75.4 | 15.89 | 72.2 | 15.43 | 69.3 | 14.97 | 67.9 | 14.32 | 64.6 | 13.46 | 61.6 | 12.40 |
| | | 318.0 | 75.7 | 15.75 | 72.4 | 15.36 | 69.3 | 14.86 | 67.9 | 14.22 | 64.6 | 13.35 | 61.6 | 12.30 |
| | 20 | 84.8 | 74.7 | 13.49 | 72.0 | 13.14 | 69.3 | 12.82 | 67.9 | 12.65 | 64.6 | 11.82 | 61.6 | 11.23 |
| | | 106.0 | 75.0 | 13.55 | 72.0 | 13.15 | 69.3 | 12.82 | 67.9 | 12.60 | 64.6 | 11.76 | 61.6 | 11.11 |
| | | 212.0 | 76.1 | 13.79 | 72.2 | 13.20 | 69.3 | 12.82 | 67.9 | 12.40 | 64.6 | 11.54 | 61.6 | 10.67 |
| | | 265.0 | 76.5 | 13.55 | 72.9 | 13.09 | 69.3 | 12.60 | 67.9 | 12.18 | 64.6 | 11.32 | 61.6 | 10.48 |
| | | 318.0 | 76.7 | 13.43 | 73.2 | 13.03 | 69.3 | 12.49 | 67.9 | 12.07 | 64.6 | 11.20 | 61.6 | 10.37 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 84.8 | 75.6 | 11.79 | 73.1 | 11.43 | 69.3 | 10.95 | 67.9 | 10.54 | 64.6 | 9.89 | 61.6 | 8.98 |
| | | 106.0 | 75.9 | 11.81 | 73.1 | 11.37 | 69.3 | 10.90 | 67.9 | 10.48 | 64.6 | 9.84 | 61.6 | 8.98 |
| | | 212.0 | 77.0 | 11.85 | 73.1 | 11.11 | 69.3 | 10.67 | 67.9 | 10.25 | 64.6 | 9.62 | 61.6 | 8.98 |
| | | 265.0 | 77.3 | 11.58 | 73.1 | 11.03 | 69.3 | 10.48 | 67.9 | 10.04 | 64.6 | 9.62 | 61.6 | 8.75 |
| | | 318.0 | 77.6 | 11.45 | 73.1 | 10.99 | 69.3 | 10.37 | 67.9 | 9.92 | 64.6 | 9.62 | 61.6 | 8.65 |
| | 30 | 84.8 | 77.3 | 10.73 | 73.1 | 9.89 | 69.3 | 9.22 | 67.9 | 9.03 | 64.6 | 8.33 | 61.6 | 7.97 |
| | | 106.0 | 77.3 | 10.67 | 73.1 | 9.84 | 69.3 | 9.19 | 67.9 | 8.98 | 64.6 | 8.33 | 61.6 | 7.91 |
| | | 212.0 | 77.3 | 10.48 | 73.1 | 9.62 | 69.3 | 9.10 | 67.9 | 8.75 | 64.6 | 8.33 | 61.6 | 7.69 |
| | | 265.0 | 77.3 | 10.25 | 73.1 | 9.62 | 69.3 | 8.98 | 67.9 | 8.75 | 64.6 | 8.12 | 61.6 | 7.69 |
| | | 318.0 | 77.3 | 10.14 | 73.1 | 9.62 | 69.3 | 8.91 | 67.9 | 8.75 | 64.6 | 8.00 | 61.6 | 7.69 |
| | 35 | 84.8 | 77.3 | 9.95 | 73.1 | 9.08 | 69.3 | 8.13 | 67.9 | 7.97 | 64.6 | 7.53 | 61.6 | 6.88 |
| | | 106.0 | 77.3 | 9.84 | 73.1 | 8.98 | 69.3 | 8.12 | 67.9 | 7.91 | 64.6 | 7.47 | 61.6 | 6.83 |
| | | 212.0 | 77.3 | 9.39 | 73.1 | 8.56 | 69.3 | 8.03 | 67.9 | 7.69 | 64.6 | 7.27 | 61.6 | 6.63 |
| | | 265.0 | 77.3 | 9.39 | 73.1 | 8.56 | 69.3 | 7.91 | 67.9 | 7.69 | 64.6 | 7.27 | 61.6 | 6.63 |
| | | 318.0 | 77.3 | 9.39 | 73.1 | 8.56 | 69.3 | 7.86 | 67.9 | 7.69 | 64.6 | 7.27 | 61.6 | 6.63 |
| | 40 | 84.8 | 77.3 | 9.31 | 73.1 | 8.44 | 69.3 | 7.29 | 67.9 | 7.11 | 64.6 | 6.68 | 61.6 | 6.24 |
| | | 106.0 | 77.3 | 9.19 | 73.1 | 8.33 | 69.3 | 7.27 | 67.9 | 7.05 | 64.6 | 6.63 | 61.6 | 6.19 |
| | | 212.0 | 77.3 | 8.75 | 73.1 | 7.91 | 69.3 | 7.18 | 67.9 | 6.83 | 64.6 | 6.41 | 61.6 | 5.99 |
| | | 265.0 | 77.3 | 8.56 | 73.1 | 7.91 | 69.3 | 7.05 | 67.9 | 6.83 | 64.6 | 6.41 | 61.6 | 5.99 |
| | | 318.0 | 77.3 | 8.45 | 73.1 | 7.91 | 69.3 | 6.98 | 67.9 | 6.83 | 64.6 | 6.41 | 61.6 | 5.99 |
| | 45 | 84.8 | 77.3 | 8.66 | 73.1 | 7.80 | 69.3 | 6.43 | 67.9 | 6.24 | 64.6 | 5.82 | 61.6 | 5.60 |
| | | 106.0 | 77.3 | 8.56 | 73.1 | 7.69 | 69.3 | 6.41 | 67.9 | 6.19 | 64.6 | 5.77 | 61.6 | 5.55 |
| | | 212.0 | 77.3 | 8.12 | 73.1 | 7.27 | 69.3 | 6.32 | 67.9 | 5.99 | 64.6 | 5.55 | 61.6 | 5.35 |
| | | 265.0 | 77.3 | 7.69 | 73.1 | 7.27 | 69.3 | 6.19 | 67.9 | 5.99 | 64.6 | 5.55 | 61.6 | 5.35 |
| | | 318.0 | 77.3 | 7.48 | 73.1 | 7.27 | 69.3 | 6.12 | 67.9 | 5.99 | 64.6 | 5.55 | 61.6 | 5.35 |
| 90 | -5 | 84.8 | 26.3 | 12.62 | 25.5 | 11.49 | 24.7 | 10.10 | 24.5 | 9.63 | 24.4 | 9.28 | 23.9 | 8.33 |
| | | 106.0 | 27.2 | 12.84 | 26.4 | 11.72 | 25.6 | 10.32 | 25.4 | 9.84 | 25.2 | 9.48 | 24.8 | 8.51 |
| | | 212.0 | 30.8 | 13.70 | 29.9 | 12.58 | 28.9 | 11.20 | 28.8 | 10.67 | 28.6 | 10.30 | 28.0 | 9.24 |
| | | 265.0 | 34.1 | 14.57 | 33.0 | 13.46 | 31.9 | 12.09 | 31.7 | 11.52 | 31.6 | 11.10 | 31.0 | 9.96 |
| | | 318.0 | 35.7 | 15.00 | 34.5 | 13.91 | 33.5 | 12.53 | 33.2 | 11.94 | 33.0 | 11.49 | 32.4 | 10.34 |
| | 0 | 84.8 | 47.0 | 17.19 | 44.9 | 16.13 | 42.8 | 14.82 | 42.1 | 14.13 | 41.5 | 13.60 | 39.9 | 12.21 |
| | | 106.0 | 47.3 | 17.24 | 45.1 | 16.18 | 43.1 | 14.86 | 42.4 | 14.17 | 41.7 | 13.64 | 40.2 | 12.25 |
| | | 212.0 | 48.4 | 17.42 | 46.2 | 16.36 | 44.1 | 15.01 | 43.4 | 14.32 | 42.7 | 13.79 | 41.2 | 12.38 |
| | | 265.0 | 49.2 | 17.42 | 46.8 | 16.36 | 44.8 | 15.01 | 44.0 | 14.32 | 43.4 | 13.79 | 41.8 | 12.38 |
| | | 318.0 | 49.5 | 17.42 | 47.3 | 16.36 | 45.1 | 15.01 | 44.3 | 14.32 | 43.7 | 13.79 | 42.1 | 12.38 |
| | 5 | 84.8 | 66.5 | 18.46 | 64.3 | 17.42 | 62.2 | 16.13 | 61.0 | 15.37 | 58.3 | 14.80 | 55.5 | 13.29 |
| | | 106.0 | 66.5 | 18.55 | 64.3 | 17.51 | 62.2 | 16.20 | 61.0 | 15.45 | 58.3 | 14.88 | 55.5 | 13.35 |
| | | 212.0 | 66.8 | 18.88 | 64.1 | 17.84 | 62.2 | 16.51 | 61.0 | 15.76 | 58.3 | 15.18 | 55.5 | 13.62 |
| | | 265.0 | 67.1 | 18.99 | 64.3 | 17.95 | 62.2 | 16.64 | 61.0 | 15.87 | 58.3 | 15.30 | 55.5 | 13.73 |
| | | 318.0 | 67.4 | 19.05 | 64.4 | 18.00 | 62.2 | 16.71 | 61.0 | 15.92 | 58.3 | 15.35 | 55.5 | 13.79 |
| | 10 | 84.8 | 66.8 | 16.30 | 64.6 | 15.50 | 62.2 | 14.59 | 61.0 | 14.00 | 58.3 | 13.43 | 55.5 | 12.10 |
| | | 106.0 | 66.8 | 16.31 | 64.4 | 15.51 | 62.2 | 14.61 | 61.0 | 14.01 | 58.3 | 13.41 | 55.5 | 12.11 |
| | | 212.0 | 66.6 | 16.36 | 64.1 | 15.59 | 62.2 | 14.68 | 61.0 | 14.08 | 58.3 | 13.38 | 55.5 | 12.16 |
| | | 265.0 | 67.1 | 16.31 | 64.3 | 15.54 | 62.2 | 14.63 | 61.0 | 14.03 | 58.3 | 13.41 | 55.5 | 12.20 |
| | | 318.0 | 67.3 | 16.29 | 64.4 | 15.51 | 62.2 | 14.61 | 61.0 | 14.01 | 58.3 | 13.44 | 55.5 | 12.23 |
| | 15 | 84.8 | 67.1 | 14.12 | 64.8 | 13.61 | 62.2 | 13.09 | 61.0 | 12.65 | 58.3 | 12.06 | 55.5 | 10.95 |
| | | 106.0 | 67.1 | 14.06 | 64.6 | 13.55 | 62.2 | 13.04 | 61.0 | 12.60 | 58.3 | 11.96 | 55.5 | 10.90 |
| | | 212.0 | 66.6 | 13.83 | 64.2 | 13.33 | 62.2 | 12.82 | 61.0 | 12.40 | 58.3 | 11.54 | 55.5 | 10.67 |
| | | 265.0 | 67.1 | 13.64 | 64.4 | 13.12 | 62.2 | 12.60 | 61.0 | 12.18 | 58.3 | 11.54 | 55.5 | 10.67 |
| | | 318.0 | 67.3 | 13.53 | 64.5 | 13.03 | 62.2 | 12.49 | 61.0 | 12.07 | 58.3 | 11.54 | 55.5 | 10.67 |
| | 20 | 84.8 | 67.6 | 11.91 | 65.1 | 11.57 | 62.2 | 11.17 | 61.0 | 10.73 | 58.3 | 10.36 | 55.5 | 9.72 |
| | | 106.0 | 67.5 | 11.91 | 64.9 | 11.54 | 62.2 | 11.11 | 61.0 | 10.67 | 58.3 | 10.25 | 55.5 | 9.62 |
| | | 212.0 | 67.2 | 11.91 | 64.4 | 11.40 | 62.2 | 10.90 | 61.0 | 10.48 | 58.3 | 9.84 | 55.5 | 9.19 |
| | | 265.0 | 67.4 | 11.72 | 64.6 | 11.32 | 62.2 | 10.90 | 61.0 | 10.48 | 58.3 | 9.84 | 55.5 | 9.19 |
| | | 318.0 | 67.6 | 11.61 | 64.7 | 11.28 | 62.2 | 10.90 | 61.0 | 10.48 | 58.3 | 9.84 | 55.5 | 9.19 |
| | 25 | 84.8 | 68.7 | 10.41 | 65.9 | 9.86 | 62.2 | 9.45 | 61.0 | 8.98 | 58.3 | 8.61 | 55.5 | 7.97 |
| | | 106.0 | 68.8 | 10.39 | 65.9 | 9.84 | 62.2 | 9.39 | 61.0 | 8.98 | 58.3 | 8.56 | 55.5 | 7.91 |
| | | 212.0 | 69.5 | 10.30 | 65.9 | 9.75 | 62.2 | 9.19 | 61.0 | 8.98 | 58.3 | 8.33 | 55.5 | 7.69 |
| | | 265.0 | 69.8 | 10.04 | 65.9 | 9.53 | 62.2 | 9.19 | 61.0 | 8.75 | 58.3 | 8.33 | 55.5 | 7.69 |
| | | 318.0 | 69.9 | 9.90 | 65.9 | 9.42 | 62.2 | 9.19 | 61.0 | 8.65 | 58.3 | 8.33 | 55.5 | 7.69 |
| | 30 | 84.8 | 69.8 | 9.45 | 65.9 | 8.80 | 62.2 | 8.16 | 61.0 | 7.97 | 58.3 | 7.53 | 55.5 | 6.83 |
| | | 106.0 | 69.8 | 9.39 | 65.9 | 8.75 | 62.2 | 8.12 | 61.0 | 7.91 | 58.3 | 7.47 | 55.5 | 6.83 |
| | | 212.0 | 69.8 | 9.19 | 65.9 | 8.56 | 62.2 | 7.91 | 61.0 | 7.69 | 58.3 | 7.27 | 55.5 | 6.83 |
| | | 265.0 | 69.8 | 8.98 | 65.9 | 8.33 | 62.2 | 7.91 | 61.0 | 7.69 | 58.3 | 7.27 | 55.5 | 6.63 |
| | | 318.0 | 69.8 | 8.86 | 65.9 | 8.22 | 62.2 | 7.91 | 61.0 | 7.69 | 58.3 | 7.27 | 55.5 | 6.53 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 84.8 | 69.8 | 8.61 | 65.9 | 7.97 | 62.2 | 7.33 | 61.0 | 7.11 | 58.3 | 6.68 | 55.5 | 6.24 |
| | | 106.0 | 69.8 | 8.56 | 65.9 | 7.91 | 62.2 | 7.27 | 61.0 | 7.05 | 58.3 | 6.63 | 55.5 | 6.19 |
| | | 212.0 | 69.8 | 8.33 | 65.9 | 7.69 | 62.2 | 7.05 | 61.0 | 6.83 | 58.3 | 6.41 | 55.5 | 5.99 |
| | | 265.0 | 69.8 | 8.12 | 65.9 | 7.47 | 62.2 | 6.83 | 61.0 | 6.63 | 58.3 | 6.41 | 55.5 | 5.99 |
| | | 318.0 | 69.8 | 8.00 | 65.9 | 7.36 | 62.2 | 6.71 | 61.0 | 6.53 | 58.3 | 6.41 | 55.5 | 5.99 |
| | 40 | 84.8 | 69.8 | 8.03 | 65.9 | 7.33 | 62.2 | 6.47 | 61.0 | 6.24 | 58.3 | 6.05 | 55.5 | 5.60 |
| | | 106.0 | 69.8 | 7.91 | 65.9 | 7.27 | 62.2 | 6.41 | 61.0 | 6.19 | 58.3 | 5.99 | 55.5 | 5.55 |
| | | 212.0 | 69.8 | 7.47 | 65.9 | 7.05 | 62.2 | 6.19 | 61.0 | 5.99 | 58.3 | 5.77 | 55.5 | 5.35 |
| | | 265.0 | 69.8 | 7.47 | 65.9 | 7.05 | 62.2 | 6.19 | 61.0 | 5.99 | 58.3 | 5.77 | 55.5 | 5.35 |
| | | 318.0 | 69.8 | 7.47 | 65.9 | 7.05 | 62.2 | 6.19 | 61.0 | 5.99 | 58.3 | 5.77 | 55.5 | 5.35 |
| | 45 | 84.8 | 69.8 | 7.44 | 65.9 | 6.68 | 62.2 | 5.60 | 61.0 | 5.41 | 58.3 | 5.41 | 55.5 | 4.96 |
| | | 106.0 | 69.8 | 7.27 | 65.9 | 6.63 | 62.2 | 5.55 | 61.0 | 5.35 | 58.3 | 5.35 | 55.5 | 4.91 |
| | | 212.0 | 69.8 | 6.63 | 65.9 | 6.41 | 62.2 | 5.35 | 61.0 | 5.13 | 58.3 | 5.13 | 55.5 | 4.70 |
| | | 265.0 | 69.8 | 6.83 | 65.9 | 6.63 | 62.2 | 5.55 | 61.0 | 5.35 | 58.3 | 5.13 | 55.5 | 4.70 |
| | | 318.0 | 69.8 | 6.93 | 65.9 | 6.74 | 62.2 | 5.65 | 61.0 | 5.46 | 58.3 | 5.13 | 55.5 | 4.70 |
| 80 | -5 | 84.8 | 24.8 | 8.99 | 23.3 | 8.65 | 22.0 | 8.29 | 21.8 | 8.01 | 21.7 | 7.63 | 21.2 | 7.03 |
| | | 106.0 | 25.8 | 9.19 | 24.1 | 8.84 | 22.8 | 8.47 | 22.6 | 8.18 | 22.5 | 7.80 | 22.0 | 7.18 |
| | | 212.0 | 29.1 | 9.99 | 27.3 | 9.60 | 25.8 | 9.18 | 25.5 | 8.86 | 25.4 | 8.47 | 24.8 | 7.78 |
| | | 265.0 | 32.2 | 10.76 | 30.1 | 10.34 | 28.5 | 9.90 | 28.1 | 9.57 | 28.0 | 9.13 | 27.5 | 8.40 |
| | | 318.0 | 33.8 | 11.16 | 31.6 | 10.72 | 29.9 | 10.27 | 29.5 | 9.93 | 29.4 | 9.46 | 28.8 | 8.71 |
| | 0 | 84.8 | 44.4 | 13.20 | 41.0 | 12.67 | 38.2 | 12.14 | 37.4 | 11.73 | 36.9 | 11.17 | 35.5 | 10.29 |
| | | 106.0 | 44.6 | 13.24 | 41.2 | 12.71 | 38.3 | 12.18 | 37.7 | 11.76 | 37.1 | 11.20 | 35.7 | 10.32 |
| | | 212.0 | 45.7 | 13.39 | 42.1 | 12.86 | 39.3 | 12.31 | 38.5 | 11.90 | 38.0 | 11.34 | 36.6 | 10.43 |
| | | 265.0 | 46.4 | 13.39 | 42.8 | 12.86 | 39.9 | 12.31 | 39.1 | 11.90 | 38.6 | 11.34 | 37.1 | 10.43 |
| | | 318.0 | 46.7 | 13.39 | 43.1 | 12.86 | 40.2 | 12.31 | 39.4 | 11.90 | 38.9 | 11.34 | 37.4 | 10.43 |
| | 5 | 84.8 | 61.4 | 14.36 | 58.0 | 13.82 | 55.5 | 13.19 | 54.2 | 12.76 | 51.9 | 12.16 | 49.3 | 11.19 |
| | | 106.0 | 61.6 | 14.44 | 58.1 | 13.88 | 55.5 | 13.26 | 54.2 | 12.82 | 51.9 | 12.23 | 49.3 | 11.25 |
| | | 212.0 | 62.1 | 14.74 | 58.5 | 14.15 | 55.5 | 13.55 | 54.2 | 13.09 | 51.9 | 12.47 | 49.3 | 11.49 |
| | | 265.0 | 62.1 | 14.83 | 58.5 | 14.26 | 55.5 | 13.64 | 54.2 | 13.17 | 51.9 | 12.55 | 49.3 | 11.56 |
| | | 318.0 | 62.1 | 14.88 | 58.4 | 14.32 | 55.5 | 13.68 | 54.2 | 13.21 | 51.9 | 12.60 | 49.3 | 11.59 |
| | 10 | 84.8 | 61.8 | 13.21 | 58.2 | 12.61 | 55.5 | 11.97 | 54.2 | 11.64 | 51.9 | 11.02 | 49.3 | 10.21 |
| | | 106.0 | 61.8 | 13.20 | 58.3 | 12.60 | 55.5 | 11.98 | 54.2 | 11.65 | 51.9 | 11.03 | 49.3 | 10.21 |
| | | 212.0 | 62.1 | 13.12 | 58.5 | 12.53 | 55.5 | 12.00 | 54.2 | 11.67 | 51.9 | 11.05 | 49.3 | 10.23 |
| | | 265.0 | 62.1 | 13.09 | 58.5 | 12.58 | 55.5 | 12.05 | 54.2 | 11.61 | 51.9 | 10.99 | 49.3 | 10.17 |
| | | 318.0 | 62.1 | 13.06 | 58.4 | 12.60 | 55.5 | 12.07 | 54.2 | 11.57 | 51.9 | 10.95 | 49.3 | 10.13 |
| | 15 | 84.8 | 62.1 | 12.06 | 58.5 | 11.43 | 55.5 | 10.73 | 54.2 | 10.54 | 51.9 | 9.89 | 49.3 | 9.25 |
| | | 106.0 | 62.1 | 11.96 | 58.5 | 11.32 | 55.5 | 10.67 | 54.2 | 10.48 | 51.9 | 9.84 | 49.3 | 9.19 |
| | | 212.0 | 62.1 | 11.54 | 58.5 | 10.90 | 55.5 | 10.48 | 54.2 | 10.25 | 51.9 | 9.62 | 49.3 | 8.98 |
| | | 265.0 | 62.1 | 11.32 | 58.5 | 10.90 | 55.5 | 10.48 | 54.2 | 10.04 | 51.9 | 9.39 | 49.3 | 8.75 |
| | | 318.0 | 62.1 | 11.20 | 58.5 | 10.90 | 55.5 | 10.48 | 54.2 | 9.92 | 51.9 | 9.28 | 49.3 | 8.65 |
| | 20 | 84.8 | 62.1 | 10.08 | 58.5 | 9.67 | 55.5 | 9.19 | 54.2 | 9.03 | 51.9 | 8.61 | 49.3 | 7.97 |
| | | 106.0 | 62.1 | 10.04 | 58.5 | 9.62 | 55.5 | 9.19 | 54.2 | 8.98 | 51.9 | 8.56 | 49.3 | 7.91 |
| | | 212.0 | 62.1 | 9.84 | 58.5 | 9.39 | 55.5 | 9.19 | 54.2 | 8.75 | 51.9 | 8.33 | 49.3 | 7.69 |
| | | 265.0 | 62.1 | 9.62 | 58.5 | 9.19 | 55.5 | 8.98 | 54.2 | 8.75 | 51.9 | 8.12 | 49.3 | 7.69 |
| | | 318.0 | 62.1 | 9.51 | 58.5 | 9.10 | 55.5 | 8.86 | 54.2 | 8.75 | 51.9 | 8.00 | 49.3 | 7.69 |
| | 25 | 84.8 | 62.1 | 9.03 | 58.5 | 8.39 | 55.5 | 7.91 | 54.2 | 7.74 | 51.9 | 7.33 | 49.3 | 6.88 |
| | | 106.0 | 62.1 | 8.98 | 58.5 | 8.33 | 55.5 | 7.91 | 54.2 | 7.69 | 51.9 | 7.27 | 49.3 | 6.83 |
| | | 212.0 | 62.1 | 8.75 | 58.5 | 8.12 | 55.5 | 7.91 | 54.2 | 7.47 | 51.9 | 7.05 | 49.3 | 6.63 |
| | | 265.0 | 62.1 | 8.56 | 58.5 | 8.12 | 55.5 | 7.69 | 54.2 | 7.47 | 51.9 | 7.05 | 49.3 | 6.63 |
| | | 318.0 | 62.1 | 8.45 | 58.5 | 8.12 | 55.5 | 7.58 | 54.2 | 7.47 | 51.9 | 7.05 | 49.3 | 6.63 |
| | 30 | 84.8 | 62.1 | 7.97 | 58.5 | 7.53 | 55.5 | 7.11 | 54.2 | 6.88 | 51.9 | 6.47 | 49.3 | 6.05 |
| | | 106.0 | 62.1 | 7.91 | 58.5 | 7.47 | 55.5 | 7.05 | 54.2 | 6.83 | 51.9 | 6.41 | 49.3 | 5.99 |
| | | 212.0 | 62.1 | 7.69 | 58.5 | 7.27 | 55.5 | 6.83 | 54.2 | 6.63 | 51.9 | 6.19 | 49.3 | 5.77 |
| | | 265.0 | 62.1 | 7.69 | 58.5 | 7.27 | 55.5 | 6.83 | 54.2 | 6.63 | 51.9 | 6.19 | 49.3 | 5.77 |
| | | 318.0 | 62.1 | 7.69 | 58.5 | 7.27 | 55.5 | 6.83 | 54.2 | 6.63 | 51.9 | 6.19 | 49.3 | 5.77 |
| | 35 | 84.8 | 62.1 | 7.33 | 58.5 | 6.88 | 55.5 | 6.24 | 54.2 | 5.99 | 51.9 | 5.82 | 49.3 | 5.35 |
| | | 106.0 | 62.1 | 7.27 | 58.5 | 6.83 | 55.5 | 6.19 | 54.2 | 5.99 | 51.9 | 5.77 | 49.3 | 5.35 |
| | | 212.0 | 62.1 | 7.05 | 58.5 | 6.63 | 55.5 | 5.99 | 54.2 | 5.99 | 51.9 | 5.55 | 49.3 | 5.35 |
| | | 265.0 | 62.1 | 7.05 | 58.5 | 6.41 | 55.5 | 5.99 | 54.2 | 5.77 | 51.9 | 5.55 | 49.3 | 5.13 |
| | | 318.0 | 62.1 | 7.05 | 58.5 | 6.30 | 55.5 | 5.99 | 54.2 | 5.66 | 51.9 | 5.55 | 49.3 | 5.02 |
| | 40 | 84.8 | 62.1 | 6.94 | 58.5 | 6.24 | 55.5 | 5.55 | 54.2 | 5.60 | 51.9 | 5.13 | 49.3 | 4.96 |
| | | 106.0 | 62.1 | 6.83 | 58.5 | 6.19 | 55.5 | 5.55 | 54.2 | 5.55 | 51.9 | 5.13 | 49.3 | 4.91 |
| | | 212.0 | 62.1 | 6.41 | 58.5 | 5.99 | 55.5 | 5.55 | 54.2 | 5.35 | 51.9 | 5.13 | 49.3 | 4.70 |
| | | 265.0 | 62.1 | 6.41 | 58.5 | 5.99 | 55.5 | 5.35 | 54.2 | 5.35 | 51.9 | 5.13 | 49.3 | 4.70 |
| | | 318.0 | 62.1 | 6.41 | 58.5 | 5.99 | 55.5 | 5.25 | 54.2 | 5.35 | 51.9 | 5.13 | 49.3 | 4.70 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 84.8 | 62.1 | 6.57 | 58.5 | 5.60 | 55.5 | 4.85 | 54.2 | 5.23 | 51.9 | 4.43 | 49.3 | 4.59 |
| | | 106.0 | 62.1 | 6.41 | 58.5 | 5.55 | 55.5 | 4.91 | 54.2 | 5.13 | 51.9 | 4.49 | 49.3 | 4.49 |
| | | 212.0 | 62.1 | 5.77 | 58.5 | 5.35 | 55.5 | 5.13 | 54.2 | 4.70 | 51.9 | 4.70 | 49.3 | 4.07 |
| | | 265.0 | 62.1 | 5.77 | 58.5 | 5.55 | 55.5 | 4.70 | 54.2 | 4.91 | 51.9 | 4.70 | 49.3 | 4.26 |
| | | 318.0 | 62.1 | 5.77 | 58.5 | 5.65 | 55.5 | 4.49 | 54.2 | 5.01 | 51.9 | 4.70 | 49.3 | 4.37 |
| 70 | -5 | 84.8 | 21.7 | 7.72 | 20.4 | 7.35 | 19.3 | 7.12 | 19.0 | 6.71 | 19.0 | 6.47 | 18.7 | 5.88 |
| | | 106.0 | 22.5 | 7.89 | 21.1 | 7.51 | 19.9 | 7.27 | 19.8 | 6.85 | 19.6 | 6.61 | 19.3 | 6.02 |
| | | 212.0 | 25.4 | 8.56 | 23.9 | 8.16 | 22.5 | 7.89 | 22.3 | 7.42 | 22.2 | 7.16 | 21.8 | 6.52 |
| | | 265.0 | 28.1 | 9.24 | 26.4 | 8.80 | 24.8 | 8.51 | 24.7 | 8.00 | 24.5 | 7.74 | 24.0 | 7.03 |
| | | 318.0 | 29.5 | 9.58 | 27.6 | 9.12 | 26.1 | 8.83 | 25.9 | 8.29 | 25.6 | 8.03 | 25.2 | 7.29 |
| | 0 | 84.8 | 38.8 | 11.31 | 35.9 | 10.78 | 33.3 | 10.42 | 32.7 | 9.81 | 32.2 | 9.48 | 31.1 | 8.62 |
| | | 106.0 | 39.1 | 11.34 | 36.1 | 10.81 | 33.5 | 10.46 | 33.0 | 9.84 | 32.4 | 9.51 | 31.3 | 8.65 |
| | | 212.0 | 39.9 | 11.47 | 36.9 | 10.92 | 34.3 | 10.58 | 33.8 | 9.95 | 33.2 | 9.62 | 31.9 | 8.74 |
| | | 265.0 | 40.5 | 11.47 | 37.5 | 10.92 | 34.9 | 10.58 | 34.2 | 9.95 | 33.8 | 9.62 | 32.5 | 8.74 |
| | | 318.0 | 40.9 | 11.47 | 37.8 | 10.92 | 35.1 | 10.58 | 34.4 | 9.95 | 34.0 | 9.62 | 32.7 | 8.74 |
| | 5 | 84.8 | 53.6 | 12.32 | 50.8 | 11.72 | 48.4 | 11.34 | 47.4 | 10.69 | 45.3 | 10.31 | 43.1 | 9.37 |
| | | 106.0 | 53.8 | 12.38 | 50.9 | 11.78 | 48.4 | 11.40 | 47.4 | 10.75 | 45.3 | 10.37 | 43.1 | 9.42 |
| | | 212.0 | 54.2 | 12.62 | 51.4 | 12.02 | 48.4 | 11.65 | 47.4 | 10.94 | 45.3 | 10.58 | 43.1 | 9.62 |
| | | 265.0 | 54.2 | 12.71 | 51.2 | 12.11 | 48.4 | 11.73 | 47.4 | 11.03 | 45.3 | 10.66 | 43.1 | 9.68 |
| | | 318.0 | 54.2 | 12.76 | 51.2 | 12.16 | 48.4 | 11.78 | 47.4 | 11.08 | 45.3 | 10.69 | 43.1 | 9.72 |
| | 10 | 84.8 | 53.9 | 11.34 | 51.0 | 10.72 | 48.4 | 10.32 | 47.4 | 9.75 | 45.3 | 9.35 | 43.1 | 8.56 |
| | | 106.0 | 53.9 | 11.32 | 51.1 | 10.70 | 48.4 | 10.30 | 47.4 | 9.75 | 45.3 | 9.35 | 43.1 | 8.56 |
| | | 212.0 | 54.2 | 11.23 | 51.2 | 10.61 | 48.4 | 10.21 | 47.4 | 9.75 | 45.3 | 9.35 | 43.1 | 8.56 |
| | | 265.0 | 54.2 | 11.28 | 51.2 | 10.66 | 48.4 | 10.25 | 47.4 | 9.79 | 45.3 | 9.28 | 43.1 | 8.57 |
| | | 318.0 | 54.2 | 11.29 | 51.2 | 10.67 | 48.4 | 10.28 | 47.4 | 9.81 | 45.3 | 9.25 | 43.1 | 8.59 |
| | 15 | 84.8 | 54.2 | 10.36 | 51.2 | 9.72 | 48.4 | 9.31 | 47.4 | 8.80 | 45.3 | 8.39 | 43.1 | 7.74 |
| | | 106.0 | 54.2 | 10.25 | 51.2 | 9.62 | 48.4 | 9.19 | 47.4 | 8.75 | 45.3 | 8.33 | 43.1 | 7.69 |
| | | 212.0 | 54.2 | 9.84 | 51.2 | 9.19 | 48.4 | 8.75 | 47.4 | 8.56 | 45.3 | 8.12 | 43.1 | 7.47 |
| | | 265.0 | 54.2 | 9.84 | 51.2 | 9.19 | 48.4 | 8.75 | 47.4 | 8.56 | 45.3 | 7.91 | 43.1 | 7.47 |
| | | 318.0 | 54.2 | 9.84 | 51.2 | 9.19 | 48.4 | 8.75 | 47.4 | 8.56 | 45.3 | 7.81 | 43.1 | 7.47 |
| | 20 | 84.8 | 54.2 | 8.61 | 51.2 | 8.16 | 48.4 | 7.97 | 47.4 | 7.74 | 45.3 | 7.33 | 43.1 | 6.88 |
| | | 106.0 | 54.2 | 8.56 | 51.2 | 8.12 | 48.4 | 7.91 | 47.4 | 7.69 | 45.3 | 7.27 | 43.1 | 6.83 |
| | | 212.0 | 54.2 | 8.33 | 51.2 | 7.91 | 48.4 | 7.69 | 47.4 | 7.47 | 45.3 | 7.05 | 43.1 | 6.63 |
| | | 265.0 | 54.2 | 8.33 | 51.2 | 7.91 | 48.4 | 7.69 | 47.4 | 7.27 | 45.3 | 7.05 | 43.1 | 6.41 |
| | | 318.0 | 54.2 | 8.33 | 51.2 | 7.91 | 48.4 | 7.69 | 47.4 | 7.17 | 45.3 | 7.05 | 43.1 | 6.30 |
| | 25 | 84.8 | 54.2 | 7.74 | 51.2 | 7.33 | 48.4 | 6.88 | 47.4 | 6.68 | 45.3 | 6.19 | 43.1 | 5.77 |
| | | 106.0 | 54.2 | 7.69 | 51.2 | 7.27 | 48.4 | 6.83 | 47.4 | 6.63 | 45.3 | 6.19 | 43.1 | 5.77 |
| | | 212.0 | 54.2 | 7.47 | 51.2 | 7.05 | 48.4 | 6.63 | 47.4 | 6.41 | 45.3 | 6.19 | 43.1 | 5.77 |
| | | 265.0 | 54.2 | 7.27 | 51.2 | 6.83 | 48.4 | 6.63 | 47.4 | 6.41 | 45.3 | 5.99 | 43.1 | 5.77 |
| | | 318.0 | 54.2 | 7.17 | 51.2 | 6.71 | 48.4 | 6.63 | 47.4 | 6.41 | 45.3 | 5.89 | 43.1 | 5.77 |
| | 30 | 84.8 | 54.2 | 6.88 | 51.2 | 6.47 | 48.4 | 6.05 | 47.4 | 5.77 | 45.3 | 5.60 | 43.1 | 5.13 |
| | | 106.0 | 54.2 | 6.83 | 51.2 | 6.41 | 48.4 | 5.99 | 47.4 | 5.77 | 45.3 | 5.55 | 43.1 | 5.13 |
| | | 212.0 | 54.2 | 6.63 | 51.2 | 6.19 | 48.4 | 5.77 | 47.4 | 5.77 | 45.3 | 5.35 | 43.1 | 5.13 |
| | | 265.0 | 54.2 | 6.63 | 51.2 | 6.19 | 48.4 | 5.77 | 47.4 | 5.55 | 45.3 | 5.35 | 43.1 | 5.13 |
| | | 318.0 | 54.2 | 6.63 | 51.2 | 6.19 | 48.4 | 5.77 | 47.4 | 5.44 | 45.3 | 5.35 | 43.1 | 5.13 |
| | 35 | 84.8 | 54.2 | 6.24 | 51.2 | 5.82 | 48.4 | 5.35 | 47.4 | 5.41 | 45.3 | 4.91 | 43.1 | 4.76 |
| | | 106.0 | 54.2 | 6.19 | 51.2 | 5.77 | 48.4 | 5.35 | 47.4 | 5.35 | 45.3 | 4.91 | 43.1 | 4.70 |
| | | 212.0 | 54.2 | 5.99 | 51.2 | 5.55 | 48.4 | 5.35 | 47.4 | 5.13 | 45.3 | 4.91 | 43.1 | 4.49 |
| | | 265.0 | 54.2 | 5.99 | 51.2 | 5.55 | 48.4 | 5.13 | 47.4 | 5.13 | 45.3 | 4.91 | 43.1 | 4.49 |
| | | 318.0 | 54.2 | 5.99 | 51.2 | 5.55 | 48.4 | 5.02 | 47.4 | 5.13 | 45.3 | 4.91 | 43.1 | 4.49 |
| | 40 | 84.8 | 54.2 | 5.82 | 51.2 | 5.41 | 48.4 | 4.96 | 47.4 | 4.70 | 45.3 | 4.49 | 43.1 | 4.32 |
| | | 106.0 | 54.2 | 5.77 | 51.2 | 5.35 | 48.4 | 4.91 | 47.4 | 4.70 | 45.3 | 4.49 | 43.1 | 4.26 |
| | | 212.0 | 54.2 | 5.55 | 51.2 | 5.13 | 48.4 | 4.70 | 47.4 | 4.70 | 45.3 | 4.49 | 43.1 | 4.07 |
| | | 265.0 | 54.2 | 5.55 | 51.2 | 5.13 | 48.4 | 4.70 | 47.4 | 4.49 | 45.3 | 4.26 | 43.1 | 4.07 |
| | | 318.0 | 54.2 | 5.55 | 51.2 | 5.13 | 48.4 | 4.70 | 47.4 | 4.37 | 45.3 | 4.16 | 43.1 | 4.07 |
| | 45 | 84.8 | 54.2 | 5.41 | 51.2 | 4.96 | 48.4 | 4.59 | 47.4 | 4.02 | 45.3 | 4.07 | 43.1 | 3.90 |
| | | 106.0 | 54.2 | 5.35 | 51.2 | 4.91 | 48.4 | 4.49 | 47.4 | 4.07 | 45.3 | 4.07 | 43.1 | 3.84 |
| | | 212.0 | 54.2 | 5.13 | 51.2 | 4.70 | 48.4 | 4.07 | 47.4 | 4.26 | 45.3 | 4.07 | 43.1 | 3.63 |
| | | 265.0 | 54.2 | 5.13 | 51.2 | 4.70 | 48.4 | 4.26 | 47.4 | 3.84 | 45.3 | 3.63 | 43.1 | 3.63 |
| | | 318.0 | 54.2 | 5.13 | 51.2 | 4.70 | 48.4 | 4.37 | 47.4 | 3.63 | 45.3 | 3.40 | 43.1 | 3.63 |
| 60 | -5 | 84.8 | 18.7 | 6.27 | 17.4 | 6.03 | 16.5 | 5.79 | 16.3 | 5.38 | 16.2 | 5.29 | 15.9 | 4.73 |
| | | 106.0 | 19.3 | 6.41 | 18.1 | 6.17 | 17.1 | 5.93 | 16.8 | 5.50 | 16.8 | 5.41 | 16.5 | 4.84 |
| | | 212.0 | 21.8 | 6.97 | 20.4 | 6.70 | 19.3 | 6.43 | 19.2 | 5.97 | 19.0 | 5.88 | 18.7 | 5.26 |
| | | 265.0 | 24.1 | 7.50 | 22.6 | 7.23 | 21.4 | 6.94 | 21.2 | 6.45 | 21.1 | 6.35 | 20.6 | 5.66 |
| | | 318.0 | 25.3 | 7.76 | 23.6 | 7.50 | 22.5 | 7.20 | 22.2 | 6.70 | 22.1 | 6.58 | 21.6 | 5.86 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 84.8 | 33.3 | 9.19 | 30.7 | 8.86 | 28.6 | 8.48 | 28.1 | 7.89 | 27.7 | 7.78 | 26.7 | 6.94 |
| | | 106.0 | 33.5 | 9.22 | 30.9 | 8.89 | 28.8 | 8.51 | 28.3 | 7.91 | 27.8 | 7.80 | 26.9 | 6.97 |
| | | 212.0 | 34.3 | 9.33 | 31.6 | 8.98 | 29.5 | 8.62 | 28.9 | 8.00 | 28.5 | 7.89 | 27.4 | 7.03 |
| | | 265.0 | 34.9 | 9.33 | 32.1 | 8.98 | 30.0 | 8.62 | 29.4 | 8.00 | 28.9 | 7.89 | 27.8 | 7.03 |
| | | 318.0 | 35.1 | 9.33 | 32.4 | 8.98 | 30.2 | 8.62 | 29.5 | 8.00 | 29.2 | 7.89 | 28.1 | 7.03 |
| | 5 | 84.8 | 46.0 | 10.01 | 43.4 | 9.63 | 41.6 | 9.24 | 40.6 | 8.60 | 38.8 | 8.47 | 37.0 | 7.54 |
| | | 106.0 | 46.2 | 10.05 | 43.5 | 9.68 | 41.6 | 9.28 | 40.6 | 8.65 | 38.8 | 8.51 | 37.0 | 7.58 |
| | | 212.0 | 46.5 | 10.25 | 43.8 | 9.88 | 41.6 | 9.48 | 40.6 | 8.82 | 38.8 | 8.69 | 37.0 | 7.74 |
| | | 265.0 | 46.5 | 10.34 | 43.8 | 9.95 | 41.6 | 9.55 | 40.6 | 8.89 | 38.8 | 8.74 | 37.0 | 7.80 |
| | | 318.0 | 46.5 | 10.39 | 43.7 | 9.98 | 41.6 | 9.58 | 40.6 | 8.92 | 38.8 | 8.75 | 37.0 | 7.83 |
| | 10 | 84.8 | 46.3 | 9.19 | 43.6 | 8.80 | 41.6 | 8.38 | 40.6 | 7.83 | 38.8 | 7.68 | 37.0 | 6.88 |
| | | 106.0 | 46.4 | 9.19 | 43.7 | 8.80 | 41.6 | 8.38 | 40.6 | 7.85 | 38.8 | 7.67 | 37.0 | 6.89 |
| | | 212.0 | 46.5 | 9.19 | 43.8 | 8.80 | 41.6 | 8.38 | 40.6 | 7.94 | 38.8 | 7.65 | 37.0 | 6.97 |
| | | 265.0 | 46.5 | 9.22 | 43.8 | 8.71 | 41.6 | 8.29 | 40.6 | 7.85 | 38.8 | 7.58 | 37.0 | 6.89 |
| | | 318.0 | 46.5 | 9.22 | 43.7 | 8.66 | 41.6 | 8.24 | 40.6 | 7.80 | 38.8 | 7.55 | 37.0 | 6.86 |
| | 15 | 84.8 | 46.5 | 8.39 | 43.8 | 7.97 | 41.6 | 7.53 | 40.6 | 7.05 | 38.8 | 6.88 | 37.0 | 6.19 |
| | | 106.0 | 46.5 | 8.33 | 43.8 | 7.91 | 41.6 | 7.47 | 40.6 | 7.05 | 38.8 | 6.83 | 37.0 | 6.19 |
| | | 212.0 | 46.5 | 8.12 | 43.8 | 7.69 | 41.6 | 7.27 | 40.6 | 7.05 | 38.8 | 6.63 | 37.0 | 6.19 |
| | | 265.0 | 46.5 | 8.12 | 43.8 | 7.47 | 41.6 | 7.05 | 40.6 | 6.83 | 38.8 | 6.41 | 37.0 | 5.99 |
| | | 318.0 | 46.5 | 8.12 | 43.8 | 7.36 | 41.6 | 6.94 | 40.6 | 6.71 | 38.8 | 6.30 | 37.0 | 5.89 |
| | 20 | 84.8 | 46.5 | 7.33 | 43.8 | 6.88 | 41.6 | 6.47 | 40.6 | 6.24 | 38.8 | 6.05 | 37.0 | 5.60 |
| | | 106.0 | 46.5 | 7.27 | 43.8 | 6.83 | 41.6 | 6.41 | 40.6 | 6.19 | 38.8 | 5.99 | 37.0 | 5.55 |
| | | 212.0 | 46.5 | 7.05 | 43.8 | 6.63 | 41.6 | 6.19 | 40.6 | 5.99 | 38.8 | 5.77 | 37.0 | 5.35 |
| | | 265.0 | 46.5 | 7.05 | 43.8 | 6.63 | 41.6 | 6.19 | 40.6 | 5.99 | 38.8 | 5.77 | 37.0 | 5.35 |
| | | 318.0 | 46.5 | 7.05 | 43.8 | 6.63 | 41.6 | 6.19 | 40.6 | 5.99 | 38.8 | 5.77 | 37.0 | 5.35 |
| | 25 | 84.8 | 46.5 | 6.47 | 43.8 | 6.05 | 41.6 | 5.55 | 40.6 | 5.60 | 38.8 | 5.13 | 37.0 | 4.96 |
| | | 106.0 | 46.5 | 6.41 | 43.8 | 5.99 | 41.6 | 5.55 | 40.6 | 5.55 | 38.8 | 5.13 | 37.0 | 4.91 |
| | | 212.0 | 46.5 | 6.19 | 43.8 | 5.77 | 41.6 | 5.55 | 40.6 | 5.35 | 38.8 | 5.13 | 37.0 | 4.70 |
| | | 265.0 | 46.5 | 6.19 | 43.8 | 5.77 | 41.6 | 5.35 | 40.6 | 5.35 | 38.8 | 5.13 | 37.0 | 4.70 |
| | | 318.0 | 46.5 | 6.19 | 43.8 | 5.77 | 41.6 | 5.25 | 40.6 | 5.35 | 38.8 | 5.13 | 37.0 | 4.70 |
| | 30 | 84.8 | 46.5 | 5.82 | 43.8 | 5.41 | 41.6 | 5.18 | 40.6 | 4.96 | 38.8 | 4.76 | 37.0 | 4.54 |
| | | 106.0 | 46.5 | 5.77 | 43.8 | 5.35 | 41.6 | 5.13 | 40.6 | 4.91 | 38.8 | 4.70 | 37.0 | 4.49 |
| | | 212.0 | 46.5 | 5.55 | 43.8 | 5.13 | 41.6 | 4.91 | 40.6 | 4.70 | 38.8 | 4.49 | 37.0 | 4.26 |
| | | 265.0 | 46.5 | 5.55 | 43.8 | 5.13 | 41.6 | 4.91 | 40.6 | 4.70 | 38.8 | 4.49 | 37.0 | 4.26 |
| | | 318.0 | 46.5 | 5.55 | 43.8 | 5.13 | 41.6 | 4.91 | 40.6 | 4.70 | 38.8 | 4.49 | 37.0 | 4.26 |
| | 35 | 84.8 | 46.5 | 5.13 | 43.8 | 4.96 | 41.6 | 4.49 | 40.6 | 4.54 | 38.8 | 4.32 | 37.0 | 4.13 |
| | | 106.0 | 46.5 | 5.13 | 43.8 | 4.91 | 41.6 | 4.49 | 40.6 | 4.49 | 38.8 | 4.26 | 37.0 | 4.07 |
| | | 212.0 | 46.5 | 5.13 | 43.8 | 4.70 | 41.6 | 4.49 | 40.6 | 4.26 | 38.8 | 4.07 | 37.0 | 3.84 |
| | | 265.0 | 46.5 | 5.13 | 43.8 | 4.70 | 41.6 | 4.26 | 40.6 | 4.26 | 38.8 | 4.07 | 37.0 | 3.84 |
| | | 318.0 | 46.5 | 5.13 | 43.8 | 4.70 | 41.6 | 4.16 | 40.6 | 4.26 | 38.8 | 4.07 | 37.0 | 3.84 |
| | 40 | 84.8 | 46.5 | 4.70 | 43.8 | 4.54 | 41.6 | 4.07 | 40.6 | 4.13 | 38.8 | 3.90 | 37.0 | 3.63 |
| | | 106.0 | 46.5 | 4.70 | 43.8 | 4.49 | 41.6 | 4.07 | 40.6 | 4.07 | 38.8 | 3.84 | 37.0 | 3.63 |
| | | 212.0 | 46.5 | 4.70 | 43.8 | 4.26 | 41.6 | 4.07 | 40.6 | 3.84 | 38.8 | 3.63 | 37.0 | 3.63 |
| | | 265.0 | 46.5 | 4.70 | 43.8 | 4.26 | 41.6 | 4.07 | 40.6 | 3.84 | 38.8 | 3.63 | 37.0 | 3.63 |
| | | 318.0 | 46.5 | 4.70 | 43.8 | 4.26 | 41.6 | 4.07 | 40.6 | 3.84 | 38.8 | 3.63 | 37.0 | 3.63 |
| | 45 | 84.8 | 46.5 | 4.26 | 43.8 | 4.13 | 41.6 | 3.63 | 40.6 | 3.67 | 38.8 | 3.48 | 37.0 | 3.15 |
| | | 106.0 | 46.5 | 4.26 | 43.8 | 4.07 | 41.6 | 3.63 | 40.6 | 3.63 | 38.8 | 3.43 | 37.0 | 3.21 |
| | | 212.0 | 46.5 | 4.26 | 43.8 | 3.84 | 41.6 | 3.63 | 40.6 | 3.43 | 38.8 | 3.21 | 37.0 | 3.43 |
| | | 265.0 | 46.5 | 4.26 | 43.8 | 3.84 | 41.6 | 3.84 | 40.6 | 3.43 | 38.8 | 3.21 | 37.0 | 3.43 |
| | | 318.0 | 46.5 | 4.26 | 43.8 | 3.84 | 41.6 | 3.96 | 40.6 | 3.43 | 38.8 | 3.21 | 37.0 | 3.43 |
| 50 | -5 | 84.8 | 15.5 | 5.00 | 14.6 | 4.73 | 13.8 | 4.48 | 13.5 | 4.23 | 13.5 | 3.98 | 13.2 | 3.77 |
| | | 106.0 | 16.0 | 5.11 | 15.1 | 4.84 | 14.3 | 4.58 | 14.0 | 4.34 | 14.0 | 4.07 | 13.7 | 3.84 |
| | | 212.0 | 18.1 | 5.53 | 17.0 | 5.26 | 16.2 | 4.96 | 15.9 | 4.70 | 15.9 | 4.42 | 15.5 | 4.16 |
| | | 265.0 | 20.1 | 5.97 | 18.8 | 5.66 | 17.8 | 5.35 | 17.6 | 5.08 | 17.5 | 4.75 | 17.3 | 4.49 |
| | | 318.0 | 21.0 | 6.19 | 19.8 | 5.86 | 18.7 | 5.55 | 18.4 | 5.28 | 18.2 | 4.92 | 18.1 | 4.66 |
| | 0 | 84.8 | 27.7 | 7.32 | 25.6 | 6.94 | 23.9 | 6.54 | 23.3 | 6.21 | 23.0 | 5.84 | 22.2 | 5.51 |
| | | 106.0 | 27.8 | 7.33 | 25.8 | 6.97 | 24.0 | 6.56 | 23.4 | 6.23 | 23.1 | 5.85 | 22.3 | 5.53 |
| | | 212.0 | 28.5 | 7.41 | 26.4 | 7.03 | 24.5 | 6.65 | 24.0 | 6.32 | 23.7 | 5.93 | 22.8 | 5.59 |
| | | 265.0 | 28.9 | 7.41 | 26.7 | 7.03 | 24.8 | 6.65 | 24.4 | 6.32 | 24.0 | 5.93 | 23.2 | 5.59 |
| | | 318.0 | 29.2 | 7.41 | 26.9 | 7.03 | 25.0 | 6.65 | 24.7 | 6.32 | 24.2 | 5.93 | 23.4 | 5.59 |
| | 5 | 84.8 | 38.3 | 7.97 | 36.3 | 7.54 | 34.6 | 7.12 | 33.8 | 6.77 | 32.3 | 6.36 | 30.8 | 5.97 |
| | | 106.0 | 38.3 | 8.00 | 36.3 | 7.58 | 34.6 | 7.16 | 33.8 | 6.80 | 32.3 | 6.39 | 30.8 | 6.02 |
| | | 212.0 | 38.7 | 8.16 | 36.6 | 7.74 | 34.7 | 7.32 | 33.8 | 6.94 | 32.3 | 6.50 | 30.8 | 6.14 |
| | | 265.0 | 38.7 | 8.22 | 36.6 | 7.80 | 34.7 | 7.36 | 33.8 | 6.98 | 32.3 | 6.56 | 30.8 | 6.19 |
| | | 318.0 | 38.7 | 8.25 | 36.5 | 7.83 | 34.7 | 7.38 | 33.8 | 7.00 | 32.3 | 6.59 | 30.8 | 6.21 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(22HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 84.8 | 38.5 | 7.33 | 36.3 | 6.91 | 34.6 | 6.49 | 33.8 | 6.20 | 32.3 | 5.73 | 30.8 | 5.47 |
| | | 106.0 | 38.5 | 7.32 | 36.4 | 6.89 | 34.6 | 6.47 | 33.8 | 6.19 | 32.3 | 5.75 | 30.8 | 5.46 |
| | | 212.0 | 38.7 | 7.27 | 36.6 | 6.88 | 34.7 | 6.43 | 33.8 | 6.14 | 32.3 | 5.82 | 30.8 | 5.41 |
| | | 265.0 | 38.7 | 7.32 | 36.6 | 6.89 | 34.7 | 6.45 | 33.8 | 6.17 | 32.3 | 5.73 | 30.8 | 5.44 |
| | | 318.0 | 38.7 | 7.33 | 36.5 | 6.91 | 34.7 | 6.47 | 33.8 | 6.18 | 32.3 | 5.68 | 30.8 | 5.44 |
| | 15 | 84.8 | 38.7 | 6.68 | 36.6 | 6.24 | 34.7 | 5.82 | 33.8 | 5.60 | 32.3 | 5.13 | 30.8 | 4.96 |
| | | 106.0 | 38.7 | 6.63 | 36.6 | 6.19 | 34.7 | 5.77 | 33.8 | 5.55 | 32.3 | 5.13 | 30.8 | 4.91 |
| | | 212.0 | 38.7 | 6.41 | 36.6 | 5.99 | 34.7 | 5.55 | 33.8 | 5.35 | 32.3 | 5.13 | 30.8 | 4.70 |
| | | 265.0 | 38.7 | 6.41 | 36.6 | 5.99 | 34.7 | 5.55 | 33.8 | 5.35 | 32.3 | 4.91 | 30.8 | 4.70 |
| | | 318.0 | 38.7 | 6.41 | 36.6 | 5.99 | 34.7 | 5.55 | 33.8 | 5.35 | 32.3 | 4.79 | 30.8 | 4.70 |
| | 20 | 84.8 | 38.7 | 5.82 | 36.6 | 5.41 | 34.7 | 5.18 | 33.8 | 4.96 | 32.3 | 4.76 | 30.8 | 4.26 |
| | | 106.0 | 38.7 | 5.77 | 36.6 | 5.35 | 34.7 | 5.13 | 33.8 | 4.91 | 32.3 | 4.70 | 30.8 | 4.26 |
| | | 212.0 | 38.7 | 5.55 | 36.6 | 5.13 | 34.7 | 4.91 | 33.8 | 4.70 | 32.3 | 4.49 | 30.8 | 4.26 |
| | | 265.0 | 38.7 | 5.55 | 36.6 | 5.13 | 34.7 | 4.91 | 33.8 | 4.70 | 32.3 | 4.49 | 30.8 | 4.26 |
| | | 318.0 | 38.7 | 5.55 | 36.6 | 5.13 | 34.7 | 4.91 | 33.8 | 4.70 | 32.3 | 4.49 | 30.8 | 4.26 |
| | 25 | 84.8 | 38.7 | 5.18 | 36.6 | 4.70 | 34.7 | 4.54 | 33.8 | 4.26 | 32.3 | 4.07 | 30.8 | 3.84 |
| | | 106.0 | 38.7 | 5.13 | 36.6 | 4.70 | 34.7 | 4.49 | 33.8 | 4.26 | 32.3 | 4.07 | 30.8 | 3.84 |
| | | 212.0 | 38.7 | 4.91 | 36.6 | 4.70 | 34.7 | 4.26 | 33.8 | 4.26 | 32.3 | 4.07 | 30.8 | 3.84 |
| | | 265.0 | 38.7 | 4.91 | 36.6 | 4.70 | 34.7 | 4.26 | 33.8 | 4.26 | 32.3 | 4.07 | 30.8 | 3.84 |
| | | 318.0 | 38.7 | 4.91 | 36.6 | 4.70 | 34.7 | 4.26 | 33.8 | 4.26 | 32.3 | 4.07 | 30.8 | 3.84 |
| | 30 | 84.8 | 38.7 | 4.76 | 36.6 | 4.32 | 34.7 | 4.13 | 33.8 | 3.84 | 32.3 | 3.90 | 30.8 | 3.67 |
| | | 106.0 | 38.7 | 4.70 | 36.6 | 4.26 | 34.7 | 4.07 | 33.8 | 3.84 | 32.3 | 3.84 | 30.8 | 3.63 |
| | | 212.0 | 38.7 | 4.49 | 36.6 | 4.07 | 34.7 | 3.84 | 33.8 | 3.84 | 32.3 | 3.63 | 30.8 | 3.43 |
| | | 265.0 | 38.7 | 4.49 | 36.6 | 4.07 | 34.7 | 3.84 | 33.8 | 3.84 | 32.3 | 3.63 | 30.8 | 3.43 |
| | | 318.0 | 38.7 | 4.49 | 36.6 | 4.07 | 34.7 | 3.84 | 33.8 | 3.84 | 32.3 | 3.63 | 30.8 | 3.43 |
| | 35 | 84.8 | 38.7 | 4.32 | 36.6 | 3.84 | 34.7 | 3.63 | 33.8 | 3.67 | 32.3 | 3.43 | 30.8 | 3.21 |
| | | 106.0 | 38.7 | 4.26 | 36.6 | 3.84 | 34.7 | 3.63 | 33.8 | 3.63 | 32.3 | 3.43 | 30.8 | 3.21 |
| | | 212.0 | 38.7 | 4.07 | 36.6 | 3.84 | 34.7 | 3.63 | 33.8 | 3.43 | 32.3 | 3.43 | 30.8 | 3.21 |
| | | 265.0 | 38.7 | 4.07 | 36.6 | 3.84 | 34.7 | 3.63 | 33.8 | 3.43 | 32.3 | 3.43 | 30.8 | 3.21 |
| | | 318.0 | 38.7 | 4.07 | 36.6 | 3.84 | 34.7 | 3.63 | 33.8 | 3.43 | 32.3 | 3.43 | 30.8 | 3.21 |
| | 40 | 84.8 | 38.7 | 3.90 | 36.6 | 3.67 | 34.7 | 3.48 | 33.8 | 3.21 | 32.3 | 3.26 | 30.8 | 2.98 |
| | | 106.0 | 38.7 | 3.84 | 36.6 | 3.63 | 34.7 | 3.43 | 33.8 | 3.21 | 32.3 | 3.21 | 30.8 | 2.98 |
| | | 212.0 | 38.7 | 3.63 | 36.6 | 3.43 | 34.7 | 3.21 | 33.8 | 3.21 | 32.3 | 2.98 | 30.8 | 2.98 |
| | | 265.0 | 38.7 | 3.63 | 36.6 | 3.43 | 34.7 | 3.21 | 33.8 | 3.21 | 32.3 | 2.98 | 30.8 | 2.98 |
| | | 318.0 | 38.7 | 3.63 | 36.6 | 3.43 | 34.7 | 3.21 | 33.8 | 3.21 | 32.3 | 2.98 | 30.8 | 2.98 |
| | 45 | 84.8 | 38.7 | 3.48 | 36.6 | 3.54 | 34.7 | 3.31 | 33.8 | 2.74 | 32.3 | 3.09 | 30.8 | 2.78 |
| | | 106.0 | 38.7 | 3.43 | 36.6 | 3.43 | 34.7 | 3.21 | 33.8 | 2.78 | 32.3 | 2.98 | 30.8 | 2.78 |
| | | 212.0 | 38.7 | 3.21 | 36.6 | 2.98 | 34.7 | 2.78 | 33.8 | 2.98 | 32.3 | 2.57 | 30.8 | 2.78 |
| | | 265.0 | 38.7 | 3.21 | 36.6 | 2.98 | 34.7 | 2.78 | 33.8 | 2.98 | 32.3 | 2.57 | 30.8 | 2.78 |
| | | 318.0 | 38.7 | 3.21 | 36.6 | 2.98 | 34.7 | 2.78 | 33.8 | 2.98 | 32.3 | 2.57 | 30.8 | 2.78 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN240BAS4

**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 92.4 | 35.7 | 14.69 | 35.5 | 13.83 | 35.3 | 12.87 | 34.8 | 12.50 | 35.2 | 12.17 | 34.2 | 10.92 |
| | | 115.5 | 37.0 | 14.94 | 36.7 | 14.10 | 36.5 | 13.16 | 36.0 | 12.77 | 36.4 | 12.44 | 35.4 | 11.15 |
| | | 231.0 | 41.8 | 15.97 | 41.5 | 15.17 | 41.3 | 14.27 | 40.7 | 13.86 | 41.2 | 13.48 | 40.2 | 12.09 |
| | | 288.8 | 46.2 | 16.98 | 45.9 | 16.20 | 45.6 | 15.39 | 45.0 | 14.97 | 45.6 | 14.54 | 44.4 | 13.04 |
| | | 346.5 | 48.5 | 17.49 | 48.0 | 16.74 | 47.7 | 15.94 | 47.1 | 15.54 | 47.7 | 15.07 | 46.5 | 13.51 |
| | 0 | 92.4 | 63.9 | 20.10 | 62.4 | 19.50 | 61.1 | 18.86 | 59.7 | 18.33 | 60.0 | 17.82 | 57.3 | 15.97 |
| | | 115.5 | 64.3 | 20.15 | 62.8 | 19.55 | 61.5 | 18.91 | 60.1 | 18.39 | 60.3 | 17.88 | 57.6 | 16.01 |
| | | 231.0 | 65.8 | 20.37 | 64.2 | 19.74 | 62.9 | 19.14 | 61.5 | 18.60 | 61.8 | 18.07 | 59.0 | 16.20 |
| | | 288.8 | 66.8 | 20.37 | 65.2 | 19.74 | 63.9 | 19.14 | 62.4 | 18.60 | 62.7 | 18.07 | 59.8 | 16.20 |
| | | 346.5 | 67.3 | 20.37 | 65.7 | 19.74 | 64.4 | 19.14 | 62.9 | 18.60 | 63.1 | 18.07 | 60.3 | 16.20 |
| | 5 | 92.4 | 92.0 | 21.60 | 90.6 | 21.07 | 88.8 | 20.53 | 86.5 | 19.95 | 84.2 | 19.40 | 79.5 | 17.37 |
| | | 115.5 | 92.4 | 21.70 | 90.8 | 21.17 | 88.8 | 20.63 | 86.5 | 20.05 | 84.2 | 19.50 | 79.5 | 17.46 |
| | | 231.0 | 93.6 | 22.08 | 91.4 | 21.56 | 88.8 | 21.05 | 86.5 | 20.46 | 84.2 | 19.88 | 79.5 | 17.82 |
| | | 288.8 | 94.2 | 22.23 | 91.7 | 21.70 | 88.8 | 21.19 | 86.5 | 20.61 | 84.2 | 20.03 | 79.5 | 17.95 |
| | | 346.5 | 94.5 | 22.30 | 91.8 | 21.77 | 88.8 | 21.27 | 86.5 | 20.68 | 84.2 | 20.10 | 79.5 | 18.01 |
| | 10 | 92.4 | 92.1 | 19.65 | 90.6 | 19.00 | 88.5 | 18.64 | 86.1 | 18.22 | 83.9 | 17.59 | 79.2 | 15.88 |
| | | 115.5 | 92.7 | 19.62 | 91.1 | 19.01 | 88.8 | 18.68 | 86.5 | 18.21 | 84.2 | 17.59 | 79.5 | 15.87 |
| | | 231.0 | 94.8 | 19.47 | 92.7 | 19.08 | 90.3 | 18.82 | 87.9 | 18.19 | 85.5 | 17.54 | 80.8 | 15.82 |
| | | 288.8 | 95.4 | 19.74 | 93.4 | 19.36 | 90.8 | 18.89 | 88.3 | 18.26 | 86.0 | 17.82 | 81.3 | 16.57 |
| | | 346.5 | 95.6 | 19.88 | 93.7 | 19.49 | 91.1 | 18.93 | 88.5 | 18.30 | 86.3 | 17.97 | 81.6 | 16.95 |
| | 15 | 92.4 | 92.3 | 17.71 | 90.6 | 16.96 | 88.1 | 16.78 | 85.8 | 16.49 | 83.5 | 15.80 | 78.9 | 14.39 |
| | | 115.5 | 93.0 | 17.54 | 91.4 | 16.88 | 88.8 | 16.74 | 86.5 | 16.38 | 84.2 | 15.68 | 79.5 | 14.27 |
| | | 231.0 | 96.0 | 16.84 | 94.1 | 16.59 | 91.6 | 16.59 | 89.3 | 15.90 | 86.7 | 15.19 | 82.1 | 13.79 |
| | | 288.8 | 96.6 | 17.25 | 95.0 | 16.98 | 92.7 | 16.59 | 90.3 | 15.90 | 87.9 | 15.62 | 83.1 | 15.19 |
| | | 346.5 | 96.8 | 17.46 | 95.4 | 17.17 | 93.3 | 16.59 | 90.7 | 15.90 | 88.5 | 15.84 | 83.6 | 15.90 |
| | 20 | 92.4 | 95.8 | 16.25 | 94.0 | 15.49 | 91.5 | 15.16 | 89.0 | 14.67 | 86.4 | 14.35 | 81.3 | 13.90 |
| | | 115.5 | 96.6 | 16.13 | 94.8 | 15.48 | 92.3 | 15.14 | 89.7 | 14.73 | 87.2 | 14.44 | 82.1 | 13.79 |
| | | 231.0 | 99.6 | 15.68 | 97.8 | 15.43 | 95.1 | 15.10 | 92.5 | 14.97 | 90.3 | 14.83 | 85.1 | 13.33 |
| | | 288.8 | 100.0 | 15.68 | 98.5 | 15.43 | 96.2 | 15.19 | 93.5 | 14.97 | 90.9 | 14.83 | 85.8 | 14.17 |
| | | 346.5 | 100.2 | 15.68 | 98.9 | 15.43 | 96.8 | 15.24 | 93.9 | 14.97 | 91.3 | 14.83 | 86.1 | 14.60 |
| | 25 | 92.4 | 101.1 | 15.49 | 98.5 | 15.04 | 96.2 | 14.80 | 94.4 | 14.55 | 92.3 | 14.33 | 87.0 | 13.39 |
| | | 115.5 | 101.1 | 15.43 | 98.5 | 15.02 | 96.2 | 14.73 | 94.4 | 14.49 | 92.3 | 14.27 | 87.0 | 13.33 |
| | | 231.0 | 101.1 | 15.19 | 98.5 | 14.93 | 96.2 | 14.49 | 94.4 | 14.27 | 92.3 | 14.03 | 87.0 | 13.09 |
| | | 288.8 | 101.1 | 14.97 | 98.5 | 14.54 | 96.2 | 14.27 | 94.4 | 14.03 | 92.3 | 13.79 | 87.0 | 12.87 |
| | | 346.5 | 101.1 | 14.87 | 98.5 | 14.35 | 96.2 | 14.16 | 94.4 | 13.91 | 92.3 | 13.67 | 87.0 | 12.76 |
| | 30 | 92.4 | 101.1 | 15.10 | 98.5 | 14.35 | 96.2 | 14.22 | 94.4 | 13.84 | 92.3 | 13.70 | 87.0 | 12.74 |
| | | 115.5 | 101.1 | 14.97 | 98.5 | 14.32 | 96.2 | 14.13 | 94.4 | 13.79 | 92.3 | 13.57 | 87.0 | 12.63 |
| | | 231.0 | 101.1 | 14.49 | 98.5 | 14.22 | 96.2 | 13.79 | 94.4 | 13.57 | 92.3 | 13.09 | 87.0 | 12.16 |
| | | 288.8 | 101.1 | 14.27 | 98.5 | 13.84 | 96.2 | 13.57 | 94.4 | 13.33 | 92.3 | 13.09 | 87.0 | 12.16 |
| | | 346.5 | 101.1 | 14.16 | 98.5 | 13.64 | 96.2 | 13.46 | 94.4 | 13.21 | 92.3 | 13.09 | 87.0 | 12.16 |
| | 35 | 92.4 | 101.1 | 14.39 | 98.5 | 13.91 | 96.2 | 13.63 | 94.4 | 13.15 | 92.3 | 12.68 | 87.0 | 11.80 |
| | | 115.5 | 101.1 | 14.27 | 98.5 | 13.84 | 96.2 | 13.57 | 94.4 | 13.09 | 92.3 | 12.63 | 87.0 | 11.68 |
| | | 231.0 | 101.1 | 13.79 | 98.5 | 13.52 | 96.2 | 13.33 | 94.4 | 12.87 | 92.3 | 12.38 | 87.0 | 11.22 |
| | | 288.8 | 101.1 | 13.79 | 98.5 | 13.38 | 96.2 | 13.09 | 94.4 | 12.63 | 92.3 | 12.16 | 87.0 | 11.22 |
| | | 346.5 | 101.1 | 13.79 | 98.5 | 13.31 | 96.2 | 12.96 | 94.4 | 12.51 | 92.3 | 12.06 | 87.0 | 11.22 |
| | 40 | 92.4 | 101.1 | 13.90 | 98.5 | 13.46 | 96.2 | 13.20 | 94.4 | 12.74 | 92.3 | 12.29 | 87.0 | 11.10 |
| | | 115.5 | 101.1 | 13.79 | 98.5 | 13.38 | 96.2 | 13.09 | 94.4 | 12.63 | 92.3 | 12.16 | 87.0 | 10.98 |
| | | 231.0 | 101.1 | 13.33 | 98.5 | 13.04 | 96.2 | 12.63 | 94.4 | 12.16 | 92.3 | 11.68 | 87.0 | 10.53 |
| | | 288.8 | 101.1 | 13.09 | 98.5 | 12.82 | 96.2 | 12.63 | 94.4 | 12.16 | 92.3 | 11.68 | 87.0 | 10.53 |
| | | 346.5 | 101.1 | 12.96 | 98.5 | 12.71 | 96.2 | 12.63 | 94.4 | 12.16 | 92.3 | 11.68 | 87.0 | 10.53 |
| | 45 | 92.4 | 101.1 | 13.45 | 98.5 | 13.00 | 96.2 | 12.80 | 94.4 | 12.35 | 92.3 | 11.86 | 87.0 | 10.40 |
| | | 115.5 | 101.1 | 13.33 | 98.5 | 12.92 | 96.2 | 12.63 | 94.4 | 12.16 | 92.3 | 11.68 | 87.0 | 10.28 |
| | | 231.0 | 101.1 | 12.87 | 98.5 | 12.58 | 96.2 | 11.93 | 94.4 | 11.47 | 92.3 | 10.98 | 87.0 | 9.82 |
| | | 288.8 | 101.1 | 12.38 | 98.5 | 12.26 | 96.2 | 12.16 | 94.4 | 11.68 | 92.3 | 11.22 | 87.0 | 9.82 |
| | | 346.5 | 101.1 | 12.15 | 98.5 | 12.10 | 96.2 | 12.29 | 94.4 | 11.80 | 92.3 | 11.35 | 87.0 | 9.82 |
| 120 | -5 | 92.4 | 34.0 | 14.69 | 33.7 | 13.83 | 33.5 | 12.87 | 33.1 | 12.34 | 33.4 | 11.98 | 32.5 | 10.72 |
| | | 115.5 | 35.1 | 14.94 | 34.9 | 14.10 | 34.7 | 13.16 | 34.2 | 12.60 | 34.5 | 12.24 | 33.6 | 10.96 |
| | | 231.0 | 39.8 | 15.97 | 39.5 | 15.17 | 39.3 | 14.27 | 38.7 | 13.67 | 39.1 | 13.28 | 38.1 | 11.90 |
| | | 288.8 | 44.0 | 16.98 | 43.6 | 16.20 | 43.3 | 15.39 | 42.9 | 14.75 | 43.2 | 14.32 | 42.0 | 12.82 |
| | | 346.5 | 46.0 | 17.49 | 45.7 | 16.74 | 45.4 | 15.94 | 44.9 | 15.30 | 45.3 | 14.84 | 44.0 | 13.28 |
| | 0 | 92.4 | 60.8 | 20.10 | 59.3 | 19.50 | 58.0 | 18.86 | 56.8 | 18.07 | 56.8 | 17.56 | 54.3 | 15.70 |
| | | 115.5 | 61.1 | 20.15 | 59.7 | 19.55 | 58.4 | 18.91 | 57.2 | 18.11 | 57.2 | 17.61 | 54.6 | 15.75 |
| | | 231.0 | 62.5 | 20.37 | 61.0 | 19.74 | 59.8 | 19.14 | 58.5 | 18.33 | 58.5 | 17.81 | 55.9 | 15.94 |
| | | 288.8 | 63.5 | 20.37 | 62.1 | 19.74 | 60.7 | 19.14 | 59.4 | 18.33 | 59.4 | 17.81 | 56.7 | 15.94 |
| | | 346.5 | 64.0 | 20.37 | 62.5 | 19.74 | 61.2 | 19.14 | 59.9 | 18.33 | 59.8 | 17.81 | 57.2 | 15.94 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 92.4 | 87.6 | 21.60 | 86.3 | 21.07 | 84.4 | 20.53 | 82.4 | 19.66 | 79.8 | 19.11 | 75.4 | 17.11 |
| | | 115.5 | 87.9 | 21.70 | 86.4 | 21.17 | 84.4 | 20.63 | 82.4 | 19.76 | 79.8 | 19.21 | 75.4 | 17.20 |
| | | 231.0 | 89.1 | 22.08 | 87.0 | 21.56 | 84.4 | 21.05 | 82.4 | 20.17 | 79.8 | 19.59 | 75.4 | 17.54 |
| | | 288.8 | 89.7 | 22.23 | 86.6 | 21.70 | 84.4 | 21.19 | 82.4 | 20.32 | 79.8 | 19.74 | 75.4 | 17.66 |
| | | 346.5 | 89.9 | 22.30 | 86.3 | 21.77 | 84.4 | 21.27 | 82.4 | 20.39 | 79.8 | 19.81 | 75.4 | 17.72 |
| | 10 | 92.4 | 87.9 | 19.40 | 86.3 | 18.87 | 84.2 | 18.49 | 82.1 | 17.92 | 79.5 | 17.33 | 75.2 | 15.58 |
| | | 115.5 | 88.3 | 19.47 | 86.7 | 18.94 | 84.4 | 18.55 | 82.4 | 17.95 | 79.8 | 17.32 | 75.4 | 15.61 |
| | | 231.0 | 90.0 | 19.74 | 88.0 | 19.23 | 85.3 | 18.82 | 83.3 | 18.04 | 80.6 | 17.27 | 76.2 | 15.68 |
| | | 288.8 | 90.4 | 19.66 | 87.8 | 19.23 | 85.7 | 18.89 | 83.6 | 18.11 | 81.0 | 17.35 | 76.5 | 16.20 |
| | | 346.5 | 90.7 | 19.63 | 87.6 | 19.23 | 85.8 | 18.93 | 83.8 | 18.16 | 81.1 | 17.38 | 76.7 | 16.48 |
| | 15 | 92.4 | 88.2 | 17.21 | 86.4 | 16.71 | 83.9 | 16.45 | 81.9 | 16.20 | 79.3 | 15.55 | 75.0 | 14.09 |
| | | 115.5 | 88.7 | 17.25 | 86.9 | 16.74 | 84.4 | 16.48 | 82.4 | 16.13 | 79.8 | 15.43 | 75.4 | 14.03 |
| | | 231.0 | 90.7 | 17.39 | 89.1 | 16.88 | 86.3 | 16.59 | 84.2 | 15.90 | 81.3 | 14.97 | 77.0 | 13.79 |
| | | 288.8 | 91.2 | 17.13 | 89.0 | 16.74 | 87.0 | 16.59 | 84.9 | 15.90 | 82.1 | 14.97 | 77.7 | 14.73 |
| | | 346.5 | 91.5 | 17.00 | 88.9 | 16.67 | 87.3 | 16.59 | 85.2 | 15.90 | 82.4 | 14.97 | 78.0 | 15.20 |
| | 20 | 92.4 | 90.6 | 15.48 | 88.9 | 14.82 | 86.2 | 14.43 | 83.9 | 14.22 | 81.1 | 14.04 | 76.8 | 13.33 |
| | | 115.5 | 91.2 | 15.48 | 89.4 | 14.87 | 86.7 | 14.49 | 84.4 | 14.27 | 81.6 | 14.03 | 77.2 | 13.28 |
| | | 231.0 | 93.6 | 15.48 | 91.5 | 15.10 | 88.6 | 14.73 | 86.5 | 14.49 | 83.7 | 13.99 | 79.0 | 13.09 |
| | | 288.8 | 93.9 | 15.33 | 91.5 | 14.97 | 89.3 | 14.73 | 87.0 | 14.49 | 84.2 | 14.03 | 79.5 | 13.57 |
| | | 346.5 | 94.2 | 15.26 | 91.5 | 14.91 | 89.7 | 14.73 | 87.3 | 14.49 | 84.4 | 14.06 | 79.8 | 13.81 |
| | 25 | 92.4 | 95.1 | 14.64 | 92.3 | 13.96 | 89.3 | 13.70 | 87.4 | 13.39 | 85.1 | 13.15 | 80.4 | 12.23 |
| | | 115.5 | 95.1 | 14.58 | 92.3 | 13.93 | 89.3 | 13.67 | 87.4 | 13.33 | 85.1 | 13.09 | 80.4 | 12.16 |
| | | 231.0 | 95.3 | 14.36 | 92.3 | 13.84 | 89.3 | 13.57 | 87.4 | 13.09 | 85.1 | 12.87 | 80.4 | 11.93 |
| | | 288.8 | 95.6 | 13.84 | 92.3 | 13.48 | 89.3 | 13.33 | 87.4 | 13.09 | 85.1 | 12.63 | 80.4 | 11.93 |
| | | 346.5 | 95.7 | 13.57 | 92.3 | 13.29 | 89.3 | 13.21 | 87.4 | 13.09 | 85.1 | 12.51 | 80.4 | 11.93 |
| | 30 | 92.4 | 95.6 | 14.00 | 92.3 | 13.31 | 89.3 | 12.93 | 87.4 | 12.44 | 85.1 | 12.29 | 80.4 | 11.28 |
| | | 115.5 | 95.6 | 13.89 | 92.3 | 13.23 | 89.3 | 12.87 | 87.4 | 12.38 | 85.1 | 12.16 | 80.4 | 11.22 |
| | | 231.0 | 95.6 | 13.42 | 92.3 | 12.92 | 89.3 | 12.63 | 87.4 | 12.16 | 85.1 | 11.68 | 80.4 | 10.98 |
| | | 288.8 | 95.6 | 12.99 | 92.3 | 12.63 | 89.3 | 12.38 | 87.4 | 12.16 | 85.1 | 11.68 | 80.4 | 10.76 |
| | | 346.5 | 95.6 | 12.77 | 92.3 | 12.48 | 89.3 | 12.26 | 87.4 | 12.16 | 85.1 | 11.68 | 80.4 | 10.66 |
| | 35 | 92.4 | 95.6 | 13.38 | 92.3 | 12.64 | 89.3 | 12.29 | 87.4 | 11.80 | 85.1 | 11.34 | 80.4 | 10.34 |
| | | 115.5 | 95.6 | 13.19 | 92.3 | 12.53 | 89.3 | 12.16 | 87.4 | 11.68 | 85.1 | 11.22 | 80.4 | 10.28 |
| | | 231.0 | 95.6 | 12.44 | 92.3 | 12.07 | 89.3 | 11.68 | 87.4 | 11.22 | 85.1 | 10.76 | 80.4 | 10.06 |
| | | 288.8 | 95.6 | 12.29 | 92.3 | 11.97 | 89.3 | 11.68 | 87.4 | 11.22 | 85.1 | 10.76 | 80.4 | 9.82 |
| | | 346.5 | 95.6 | 12.22 | 92.3 | 11.93 | 89.3 | 11.68 | 87.4 | 11.22 | 85.1 | 10.76 | 80.4 | 9.70 |
| | 40 | 92.4 | 95.6 | 12.97 | 92.3 | 12.06 | 89.3 | 11.58 | 87.4 | 11.10 | 85.1 | 10.64 | 80.4 | 9.63 |
| | | 115.5 | 95.6 | 12.73 | 92.3 | 11.93 | 89.3 | 11.47 | 87.4 | 10.98 | 85.1 | 10.53 | 80.4 | 9.58 |
| | | 231.0 | 95.6 | 11.73 | 92.3 | 11.37 | 89.3 | 10.98 | 87.4 | 10.53 | 85.1 | 10.06 | 80.4 | 9.37 |
| | | 288.8 | 95.6 | 11.58 | 92.3 | 11.22 | 89.3 | 10.98 | 87.4 | 10.53 | 85.1 | 10.06 | 80.4 | 9.12 |
| | | 346.5 | 95.6 | 11.51 | 92.3 | 11.15 | 89.3 | 10.98 | 87.4 | 10.53 | 85.1 | 10.06 | 80.4 | 8.99 |
| | 45 | 92.4 | 95.6 | 12.58 | 92.3 | 11.48 | 89.3 | 10.89 | 87.4 | 10.40 | 85.1 | 9.93 | 80.4 | 8.93 |
| | | 115.5 | 95.6 | 12.26 | 92.3 | 11.32 | 89.3 | 10.76 | 87.4 | 10.28 | 85.1 | 9.82 | 80.4 | 8.88 |
| | | 231.0 | 95.6 | 11.03 | 92.3 | 10.67 | 89.3 | 10.28 | 87.4 | 9.82 | 85.1 | 9.37 | 80.4 | 8.66 |
| | | 288.8 | 95.6 | 10.89 | 92.3 | 10.47 | 89.3 | 10.28 | 87.4 | 9.82 | 85.1 | 9.37 | 80.4 | 8.41 |
| | | 346.5 | 95.6 | 10.81 | 92.3 | 10.38 | 89.3 | 10.28 | 87.4 | 9.82 | 85.1 | 9.37 | 80.4 | 8.30 |
| 110 | -5 | 92.4 | 32.1 | 14.88 | 32.0 | 13.83 | 31.8 | 12.87 | 31.4 | 12.34 | 31.5 | 11.98 | 30.8 | 10.72 |
| | | 115.5 | 33.3 | 15.14 | 33.0 | 14.10 | 32.8 | 13.16 | 32.5 | 12.60 | 32.6 | 12.24 | 31.8 | 10.96 |
| | | 231.0 | 37.6 | 16.16 | 37.4 | 15.17 | 37.2 | 14.27 | 36.8 | 13.67 | 36.8 | 13.28 | 36.1 | 11.90 |
| | | 288.8 | 41.6 | 17.20 | 41.3 | 16.20 | 41.1 | 15.39 | 40.6 | 14.75 | 40.6 | 14.32 | 39.8 | 12.82 |
| | | 346.5 | 43.5 | 17.72 | 43.2 | 16.74 | 43.0 | 15.94 | 42.6 | 15.30 | 42.6 | 14.84 | 41.7 | 13.28 |
| | 0 | 92.4 | 57.5 | 20.37 | 56.2 | 19.50 | 55.0 | 18.86 | 54.0 | 18.07 | 53.5 | 17.56 | 51.5 | 15.70 |
| | | 115.5 | 57.8 | 20.42 | 56.5 | 19.55 | 55.3 | 18.91 | 54.3 | 18.11 | 53.8 | 17.61 | 51.8 | 15.75 |
| | | 231.0 | 59.1 | 20.61 | 57.9 | 19.74 | 56.6 | 19.14 | 55.5 | 18.33 | 55.1 | 17.81 | 53.0 | 15.94 |
| | | 288.8 | 60.0 | 20.61 | 58.8 | 19.74 | 57.6 | 19.14 | 56.4 | 18.33 | 55.9 | 17.81 | 53.7 | 15.94 |
| | | 346.5 | 60.5 | 20.61 | 59.3 | 19.74 | 58.0 | 19.14 | 56.8 | 18.33 | 56.4 | 17.81 | 54.1 | 15.94 |
| | 5 | 92.4 | 83.8 | 21.89 | 81.9 | 21.07 | 79.9 | 20.53 | 78.1 | 19.66 | 75.1 | 19.11 | 71.4 | 17.11 |
| | | 115.5 | 84.1 | 21.99 | 82.0 | 21.17 | 80.0 | 20.63 | 78.1 | 19.76 | 75.1 | 19.21 | 71.4 | 17.20 |
| | | 231.0 | 85.2 | 22.37 | 82.6 | 21.56 | 80.1 | 21.05 | 78.1 | 20.17 | 75.1 | 19.59 | 71.4 | 17.54 |
| | | 288.8 | 85.8 | 22.52 | 82.8 | 21.70 | 80.1 | 21.19 | 78.1 | 20.32 | 75.1 | 19.74 | 71.4 | 17.66 |
| | | 346.5 | 86.0 | 22.59 | 82.9 | 21.77 | 80.1 | 21.27 | 78.1 | 20.39 | 75.1 | 19.81 | 71.4 | 17.72 |
| | 10 | 92.4 | 84.1 | 19.63 | 82.1 | 18.95 | 79.8 | 18.55 | 78.0 | 17.92 | 75.0 | 17.33 | 71.4 | 15.58 |
| | | 115.5 | 84.5 | 19.66 | 82.3 | 19.01 | 80.0 | 18.60 | 78.1 | 17.95 | 75.1 | 17.32 | 71.4 | 15.61 |
| | | 231.0 | 85.8 | 19.81 | 83.1 | 19.23 | 80.4 | 18.82 | 78.6 | 18.04 | 75.6 | 17.27 | 71.8 | 15.68 |
| | | 288.8 | 86.2 | 19.81 | 83.5 | 19.23 | 80.7 | 18.77 | 78.8 | 18.00 | 75.7 | 17.35 | 72.0 | 15.84 |
| | | 346.5 | 86.4 | 19.81 | 83.7 | 19.23 | 80.9 | 18.75 | 78.9 | 17.97 | 75.8 | 17.38 | 72.1 | 15.93 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 92.4 | 84.4 | 17.37 | 82.2 | 16.88 | 79.8 | 16.59 | 77.9 | 16.20 | 74.9 | 15.55 | 71.3 | 14.09 |
| | | 115.5 | 84.7 | 17.35 | 82.5 | 16.88 | 80.1 | 16.59 | 78.1 | 16.13 | 75.1 | 15.43 | 71.4 | 14.03 |
| | | 231.0 | 86.1 | 17.25 | 83.7 | 16.88 | 81.0 | 16.59 | 79.0 | 15.90 | 76.1 | 14.97 | 72.2 | 13.79 |
| | | 288.8 | 86.7 | 17.13 | 84.1 | 16.74 | 81.3 | 16.38 | 79.3 | 15.68 | 76.3 | 14.97 | 72.6 | 14.03 |
| | | 346.5 | 86.9 | 17.07 | 84.3 | 16.67 | 81.6 | 16.26 | 79.5 | 15.56 | 76.4 | 14.97 | 72.8 | 14.15 |
| | 20 | 92.4 | 86.0 | 14.99 | 83.6 | 14.64 | 80.9 | 14.27 | 78.7 | 14.03 | 75.9 | 13.63 | 71.9 | 12.74 |
| | | 115.5 | 86.4 | 15.02 | 83.9 | 14.64 | 81.2 | 14.27 | 79.0 | 14.03 | 76.1 | 13.57 | 72.2 | 12.73 |
| | | 231.0 | 88.2 | 15.14 | 85.0 | 14.64 | 82.1 | 14.27 | 80.2 | 14.03 | 77.0 | 13.33 | 73.3 | 12.63 |
| | | 288.8 | 88.8 | 15.14 | 85.8 | 14.64 | 82.5 | 14.27 | 80.4 | 13.79 | 77.4 | 13.33 | 73.5 | 12.63 |
| | | 346.5 | 89.0 | 15.14 | 86.1 | 14.64 | 82.8 | 14.27 | 80.6 | 13.67 | 77.7 | 13.33 | 73.6 | 12.63 |
| | 25 | 92.4 | 88.6 | 13.64 | 86.0 | 13.15 | 82.5 | 12.93 | 80.7 | 12.44 | 77.9 | 11.99 | 73.8 | 10.98 |
| | | 115.5 | 88.8 | 13.62 | 86.0 | 13.09 | 82.5 | 12.87 | 80.7 | 12.38 | 77.9 | 11.93 | 73.8 | 10.98 |
| | | 231.0 | 89.5 | 13.52 | 86.0 | 12.87 | 82.5 | 12.63 | 80.7 | 12.16 | 77.9 | 11.68 | 73.8 | 10.98 |
| | | 288.8 | 90.0 | 13.52 | 86.0 | 12.92 | 82.5 | 12.38 | 80.7 | 12.16 | 77.9 | 11.47 | 73.8 | 10.76 |
| | | 346.5 | 90.2 | 13.52 | 86.0 | 12.94 | 82.5 | 12.26 | 80.7 | 12.16 | 77.9 | 11.35 | 73.8 | 10.66 |
| | 30 | 92.4 | 90.0 | 12.44 | 86.0 | 11.99 | 82.5 | 11.53 | 80.7 | 11.28 | 77.9 | 10.58 | 73.8 | 9.89 |
| | | 115.5 | 90.0 | 12.38 | 86.0 | 11.93 | 82.5 | 11.47 | 80.7 | 11.22 | 77.9 | 10.53 | 73.8 | 9.82 |
| | | 231.0 | 90.0 | 12.16 | 86.0 | 11.68 | 82.5 | 11.22 | 80.7 | 10.98 | 77.9 | 10.28 | 73.8 | 9.58 |
| | | 288.8 | 90.0 | 12.07 | 86.0 | 11.47 | 82.5 | 10.98 | 80.7 | 10.76 | 77.9 | 10.28 | 73.8 | 9.58 |
| | | 346.5 | 90.0 | 12.02 | 86.0 | 11.35 | 82.5 | 10.86 | 80.7 | 10.66 | 77.9 | 10.28 | 73.8 | 9.58 |
| | 35 | 92.4 | 90.0 | 11.80 | 86.0 | 11.03 | 82.5 | 10.58 | 80.7 | 10.12 | 77.9 | 9.63 | 73.8 | 8.93 |
| | | 115.5 | 90.0 | 11.68 | 86.0 | 10.98 | 82.5 | 10.53 | 80.7 | 10.06 | 77.9 | 9.58 | 73.8 | 8.88 |
| | | 231.0 | 90.0 | 11.22 | 86.0 | 10.76 | 82.5 | 10.28 | 80.7 | 9.82 | 77.9 | 9.37 | 73.8 | 8.66 |
| | | 288.8 | 90.0 | 10.93 | 86.0 | 10.53 | 82.5 | 10.06 | 80.7 | 9.82 | 77.9 | 9.37 | 73.8 | 8.66 |
| | | 346.5 | 90.0 | 10.79 | 86.0 | 10.40 | 82.5 | 9.95 | 80.7 | 9.82 | 77.9 | 9.37 | 73.8 | 8.66 |
| | 40 | 92.4 | 90.0 | 11.10 | 86.0 | 10.64 | 82.5 | 9.93 | 80.7 | 9.42 | 77.9 | 8.93 | 73.8 | 8.23 |
| | | 115.5 | 90.0 | 10.98 | 86.0 | 10.53 | 82.5 | 9.82 | 80.7 | 9.37 | 77.9 | 8.88 | 73.8 | 8.18 |
| | | 231.0 | 90.0 | 10.53 | 86.0 | 10.06 | 82.5 | 9.37 | 80.7 | 9.12 | 77.9 | 8.66 | 73.8 | 7.96 |
| | | 288.8 | 90.0 | 10.38 | 86.0 | 9.82 | 82.5 | 9.37 | 80.7 | 8.88 | 77.9 | 8.41 | 73.8 | 7.72 |
| | | 346.5 | 90.0 | 10.31 | 86.0 | 9.70 | 82.5 | 9.37 | 80.7 | 8.76 | 77.9 | 8.30 | 73.8 | 7.60 |
| | 45 | 92.4 | 90.0 | 10.40 | 86.0 | 10.24 | 82.5 | 9.30 | 80.7 | 8.72 | 77.9 | 8.23 | 73.8 | 7.53 |
| | | 115.5 | 90.0 | 10.28 | 86.0 | 10.06 | 82.5 | 9.12 | 80.7 | 8.66 | 77.9 | 8.18 | 73.8 | 7.47 |
| | | 231.0 | 90.0 | 9.82 | 86.0 | 9.37 | 82.5 | 8.41 | 80.7 | 8.41 | 77.9 | 7.96 | 73.8 | 7.25 |
| | | 288.8 | 90.0 | 9.82 | 86.0 | 9.12 | 82.5 | 8.66 | 80.7 | 7.96 | 77.9 | 7.47 | 73.8 | 6.78 |
| | | 346.5 | 90.0 | 9.82 | 86.0 | 8.99 | 82.5 | 8.79 | 80.7 | 7.73 | 77.9 | 7.23 | 73.8 | 6.53 |
| 100 | -5 | 92.4 | 30.4 | 14.88 | 30.2 | 14.03 | 30.0 | 12.87 | 29.8 | 12.34 | 29.5 | 11.79 | 28.9 | 10.72 |
| | | 115.5 | 31.5 | 15.14 | 31.2 | 14.29 | 31.1 | 13.16 | 30.8 | 12.60 | 30.5 | 12.05 | 30.0 | 10.96 |
| | | 231.0 | 35.6 | 16.16 | 35.4 | 15.36 | 35.1 | 14.27 | 34.8 | 13.67 | 34.5 | 13.09 | 33.9 | 11.90 |
| | | 288.8 | 39.3 | 17.20 | 39.0 | 16.42 | 38.8 | 15.39 | 38.4 | 14.75 | 38.2 | 14.10 | 37.5 | 12.82 |
| | | 346.5 | 41.2 | 17.72 | 40.8 | 16.96 | 40.7 | 15.94 | 40.3 | 15.30 | 40.0 | 14.61 | 39.3 | 13.28 |
| | 0 | 92.4 | 54.3 | 20.37 | 53.1 | 19.76 | 52.0 | 18.86 | 51.1 | 18.07 | 50.2 | 17.30 | 48.5 | 15.70 |
| | | 115.5 | 54.6 | 20.42 | 53.4 | 19.81 | 52.3 | 18.91 | 51.4 | 18.11 | 50.5 | 17.35 | 48.7 | 15.75 |
| | | 231.0 | 55.9 | 20.61 | 54.7 | 20.01 | 53.5 | 19.14 | 52.6 | 18.33 | 51.7 | 17.54 | 49.8 | 15.94 |
| | | 288.8 | 56.7 | 20.61 | 55.5 | 20.01 | 54.3 | 19.14 | 53.4 | 18.33 | 52.5 | 17.54 | 50.7 | 15.94 |
| | | 346.5 | 57.2 | 20.61 | 56.0 | 20.01 | 54.8 | 19.14 | 53.7 | 18.33 | 52.8 | 17.54 | 51.0 | 15.94 |
| | 5 | 92.4 | 80.1 | 21.89 | 77.5 | 21.36 | 75.5 | 20.53 | 74.0 | 19.66 | 70.5 | 18.82 | 67.2 | 17.11 |
| | | 115.5 | 80.4 | 21.99 | 77.7 | 21.46 | 75.6 | 20.63 | 74.0 | 19.76 | 70.5 | 18.91 | 67.2 | 17.20 |
| | | 231.0 | 81.6 | 22.37 | 78.2 | 21.85 | 75.6 | 21.05 | 74.0 | 20.17 | 70.5 | 19.30 | 67.2 | 17.54 |
| | | 288.8 | 82.1 | 22.52 | 78.4 | 21.99 | 75.6 | 21.19 | 74.0 | 20.32 | 70.5 | 19.43 | 67.2 | 17.66 |
| | | 346.5 | 82.3 | 22.59 | 78.5 | 22.06 | 75.6 | 21.27 | 74.0 | 20.39 | 70.5 | 19.49 | 67.2 | 17.72 |
| | 10 | 92.4 | 80.6 | 19.58 | 77.7 | 19.14 | 75.6 | 18.55 | 74.0 | 17.92 | 70.5 | 17.04 | 67.2 | 15.58 |
| | | 115.5 | 80.8 | 19.66 | 77.9 | 19.21 | 75.6 | 18.60 | 74.0 | 17.95 | 70.5 | 17.06 | 67.2 | 15.61 |
| | | 231.0 | 81.6 | 20.03 | 78.3 | 19.45 | 75.6 | 18.82 | 74.0 | 18.04 | 70.5 | 17.13 | 67.2 | 15.68 |
| | | 288.8 | 82.2 | 19.95 | 78.6 | 19.45 | 75.6 | 18.77 | 74.0 | 18.00 | 70.5 | 17.08 | 67.2 | 15.61 |
| | | 346.5 | 82.4 | 19.92 | 78.8 | 19.45 | 75.6 | 18.75 | 74.0 | 17.97 | 70.5 | 17.06 | 67.2 | 15.57 |
| | 15 | 92.4 | 81.0 | 17.26 | 78.1 | 16.97 | 75.6 | 16.59 | 74.0 | 16.20 | 70.5 | 15.25 | 67.2 | 14.09 |
| | | 115.5 | 81.2 | 17.35 | 78.1 | 16.98 | 75.6 | 16.59 | 74.0 | 16.13 | 70.5 | 15.19 | 67.2 | 14.03 |
| | | 231.0 | 81.6 | 17.68 | 78.3 | 17.03 | 75.6 | 16.59 | 74.0 | 15.90 | 70.5 | 14.97 | 67.2 | 13.79 |
| | | 288.8 | 82.3 | 17.39 | 78.8 | 16.88 | 75.6 | 16.38 | 74.0 | 15.68 | 70.5 | 14.73 | 67.2 | 13.57 |
| | | 346.5 | 82.6 | 17.24 | 79.0 | 16.81 | 75.6 | 16.26 | 74.0 | 15.56 | 70.5 | 14.61 | 67.2 | 13.46 |
| | 20 | 92.4 | 81.5 | 14.76 | 78.5 | 14.38 | 75.6 | 14.03 | 74.0 | 13.84 | 70.5 | 12.93 | 67.2 | 12.29 |
| | | 115.5 | 81.8 | 14.83 | 78.6 | 14.39 | 75.6 | 14.03 | 74.0 | 13.79 | 70.5 | 12.87 | 67.2 | 12.16 |
| | | 231.0 | 83.0 | 15.10 | 78.8 | 14.44 | 75.6 | 14.03 | 74.0 | 13.57 | 70.5 | 12.63 | 67.2 | 11.68 |
| | | 288.8 | 83.5 | 14.83 | 79.5 | 14.32 | 75.6 | 13.79 | 74.0 | 13.33 | 70.5 | 12.38 | 67.2 | 11.47 |
| | | 346.5 | 83.7 | 14.70 | 79.8 | 14.26 | 75.6 | 13.67 | 74.0 | 13.21 | 70.5 | 12.26 | 67.2 | 11.35 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 92.4 | 82.5 | 12.90 | 79.8 | 12.50 | 75.6 | 11.99 | 74.0 | 11.53 | 70.5 | 10.83 | 67.2 | 9.82 |
| | | 115.5 | 82.8 | 12.92 | 79.8 | 12.44 | 75.6 | 11.93 | 74.0 | 11.47 | 70.5 | 10.76 | 67.2 | 9.82 |
| | | 231.0 | 84.0 | 12.96 | 79.8 | 12.16 | 75.6 | 11.68 | 74.0 | 11.22 | 70.5 | 10.53 | 67.2 | 9.82 |
| | | 288.8 | 84.4 | 12.67 | 79.8 | 12.07 | 75.6 | 11.47 | 74.0 | 10.98 | 70.5 | 10.53 | 67.2 | 9.58 |
| | | 346.5 | 84.6 | 12.53 | 79.8 | 12.02 | 75.6 | 11.35 | 74.0 | 10.86 | 70.5 | 10.53 | 67.2 | 9.46 |
| | 30 | 92.4 | 84.4 | 11.74 | 79.8 | 10.83 | 75.6 | 10.09 | 74.0 | 9.89 | 70.5 | 9.12 | 67.2 | 8.72 |
| | | 115.5 | 84.4 | 11.68 | 79.8 | 10.76 | 75.6 | 10.06 | 74.0 | 9.82 | 70.5 | 9.12 | 67.2 | 8.66 |
| | | 231.0 | 84.4 | 11.47 | 79.8 | 10.53 | 75.6 | 9.96 | 74.0 | 9.58 | 70.5 | 9.12 | 67.2 | 8.41 |
| | | 288.8 | 84.4 | 11.22 | 79.8 | 10.53 | 75.6 | 9.82 | 74.0 | 9.58 | 70.5 | 8.88 | 67.2 | 8.41 |
| | | 346.5 | 84.4 | 11.10 | 79.8 | 10.53 | 75.6 | 9.75 | 74.0 | 9.58 | 70.5 | 8.76 | 67.2 | 8.41 |
| | 35 | 92.4 | 84.4 | 10.89 | 79.8 | 9.93 | 75.6 | 8.90 | 74.0 | 8.72 | 70.5 | 8.23 | 67.2 | 7.53 |
| | | 115.5 | 84.4 | 10.76 | 79.8 | 9.82 | 75.6 | 8.88 | 74.0 | 8.66 | 70.5 | 8.18 | 67.2 | 7.47 |
| | | 231.0 | 84.4 | 10.28 | 79.8 | 9.37 | 75.6 | 8.78 | 74.0 | 8.41 | 70.5 | 7.96 | 67.2 | 7.25 |
| | | 288.8 | 84.4 | 10.28 | 79.8 | 9.37 | 75.6 | 8.66 | 74.0 | 8.41 | 70.5 | 7.96 | 67.2 | 7.25 |
| | | 346.5 | 84.4 | 10.28 | 79.8 | 9.37 | 75.6 | 8.60 | 74.0 | 8.41 | 70.5 | 7.96 | 67.2 | 7.25 |
| | 40 | 92.4 | 84.4 | 10.18 | 79.8 | 9.24 | 75.6 | 7.98 | 74.0 | 7.78 | 70.5 | 7.31 | 67.2 | 6.83 |
| | | 115.5 | 84.4 | 10.06 | 79.8 | 9.12 | 75.6 | 7.96 | 74.0 | 7.72 | 70.5 | 7.25 | 67.2 | 6.78 |
| | | 231.0 | 84.4 | 9.58 | 79.8 | 8.66 | 75.6 | 7.86 | 74.0 | 7.47 | 70.5 | 7.02 | 67.2 | 6.56 |
| | | 288.8 | 84.4 | 9.37 | 79.8 | 8.66 | 75.6 | 7.72 | 74.0 | 7.47 | 70.5 | 7.02 | 67.2 | 6.56 |
| | | 346.5 | 84.4 | 9.25 | 79.8 | 8.66 | 75.6 | 7.64 | 74.0 | 7.47 | 70.5 | 7.02 | 67.2 | 6.56 |
| | 45 | 92.4 | 84.4 | 9.48 | 79.8 | 8.53 | 75.6 | 7.04 | 74.0 | 6.83 | 70.5 | 6.37 | 67.2 | 6.13 |
| | | 115.5 | 84.4 | 9.37 | 79.8 | 8.41 | 75.6 | 7.02 | 74.0 | 6.78 | 70.5 | 6.31 | 67.2 | 6.07 |
| | | 231.0 | 84.4 | 8.88 | 79.8 | 7.96 | 75.6 | 6.92 | 74.0 | 6.56 | 70.5 | 6.07 | 67.2 | 5.85 |
| | | 288.8 | 84.4 | 8.41 | 79.8 | 7.96 | 75.6 | 6.78 | 74.0 | 6.56 | 70.5 | 6.07 | 67.2 | 5.85 |
| | | 346.5 | 84.4 | 8.18 | 79.8 | 7.96 | 75.6 | 6.70 | 74.0 | 6.56 | 70.5 | 6.07 | 67.2 | 5.85 |
| 90 | -5 | 92.4 | 28.7 | 13.81 | 27.8 | 12.58 | 27.0 | 11.05 | 26.8 | 10.53 | 26.6 | 10.15 | 26.1 | 9.11 |
| | | 115.5 | 29.7 | 14.06 | 28.8 | 12.82 | 27.9 | 11.29 | 27.7 | 10.76 | 27.5 | 10.38 | 27.0 | 9.31 |
| | | 231.0 | 33.6 | 15.00 | 32.6 | 13.77 | 31.6 | 12.26 | 31.4 | 11.68 | 31.2 | 11.28 | 30.5 | 10.11 |
| | | 288.8 | 37.2 | 15.94 | 36.0 | 14.73 | 34.9 | 13.23 | 34.6 | 12.60 | 34.4 | 12.15 | 33.8 | 10.90 |
| | | 346.5 | 38.9 | 16.42 | 37.6 | 15.22 | 36.6 | 13.72 | 36.3 | 13.06 | 36.0 | 12.58 | 35.4 | 11.31 |
| | 0 | 92.4 | 51.3 | 18.82 | 48.9 | 17.66 | 46.7 | 16.22 | 46.0 | 15.46 | 45.3 | 14.88 | 43.5 | 13.36 |
| | | 115.5 | 51.6 | 18.87 | 49.2 | 17.71 | 47.0 | 16.26 | 46.2 | 15.51 | 45.5 | 14.93 | 43.8 | 13.41 |
| | | 231.0 | 52.8 | 19.07 | 50.4 | 17.90 | 48.1 | 16.42 | 47.4 | 15.68 | 46.5 | 15.10 | 44.9 | 13.55 |
| | | 288.8 | 53.6 | 19.07 | 51.1 | 17.90 | 48.9 | 16.42 | 48.0 | 15.68 | 47.4 | 15.10 | 45.6 | 13.55 |
| | | 346.5 | 54.0 | 19.07 | 51.5 | 17.90 | 49.2 | 16.42 | 48.4 | 15.68 | 47.7 | 15.10 | 45.9 | 13.55 |
| | 5 | 92.4 | 72.5 | 20.20 | 70.2 | 19.07 | 67.9 | 17.65 | 66.6 | 16.82 | 63.6 | 16.19 | 60.6 | 14.54 |
| | | 115.5 | 72.6 | 20.30 | 70.1 | 19.16 | 67.9 | 17.73 | 66.6 | 16.91 | 63.6 | 16.28 | 60.6 | 14.61 |
| | | 231.0 | 72.9 | 20.66 | 69.9 | 19.52 | 67.9 | 18.07 | 66.6 | 17.25 | 63.6 | 16.62 | 60.6 | 14.90 |
| | | 288.8 | 73.3 | 20.78 | 70.1 | 19.65 | 67.9 | 18.21 | 66.6 | 17.37 | 63.6 | 16.74 | 60.6 | 15.02 |
| | | 346.5 | 73.5 | 20.84 | 70.2 | 19.70 | 67.9 | 18.29 | 66.6 | 17.43 | 63.6 | 16.80 | 60.6 | 15.09 |
| | 10 | 92.4 | 72.9 | 17.84 | 70.4 | 16.97 | 67.9 | 15.97 | 66.6 | 15.32 | 63.6 | 14.70 | 60.6 | 13.25 |
| | | 115.5 | 72.9 | 17.85 | 70.3 | 16.98 | 67.9 | 15.99 | 66.6 | 15.33 | 63.6 | 14.68 | 60.6 | 13.26 |
| | | 231.0 | 72.7 | 17.90 | 69.9 | 17.06 | 67.9 | 16.06 | 66.6 | 15.41 | 63.6 | 14.64 | 60.6 | 13.31 |
| | | 288.8 | 73.2 | 17.85 | 70.2 | 17.00 | 67.9 | 16.01 | 66.6 | 15.36 | 63.6 | 14.68 | 60.6 | 13.35 |
| | | 346.5 | 73.5 | 17.82 | 70.3 | 16.98 | 67.9 | 15.99 | 66.6 | 15.33 | 63.6 | 14.71 | 60.6 | 13.38 |
| | 15 | 92.4 | 73.2 | 15.45 | 70.7 | 14.89 | 67.9 | 14.33 | 66.6 | 13.84 | 63.6 | 13.20 | 60.6 | 11.99 |
| | | 115.5 | 73.2 | 15.39 | 70.5 | 14.83 | 67.9 | 14.27 | 66.6 | 13.79 | 63.6 | 13.09 | 60.6 | 11.93 |
| | | 231.0 | 72.6 | 15.14 | 70.0 | 14.58 | 67.9 | 14.03 | 66.6 | 13.57 | 63.6 | 12.63 | 60.6 | 11.68 |
| | | 288.8 | 73.2 | 14.93 | 70.2 | 14.36 | 67.9 | 13.79 | 66.6 | 13.33 | 63.6 | 12.63 | 60.6 | 11.68 |
| | | 346.5 | 73.4 | 14.81 | 70.4 | 14.26 | 67.9 | 13.67 | 66.6 | 13.21 | 63.6 | 12.63 | 60.6 | 11.68 |
| | 20 | 92.4 | 73.7 | 13.04 | 71.0 | 12.67 | 67.9 | 12.23 | 66.6 | 11.74 | 63.6 | 11.34 | 60.6 | 10.64 |
| | | 115.5 | 73.6 | 13.04 | 70.8 | 12.63 | 67.9 | 12.16 | 66.6 | 11.68 | 63.6 | 11.22 | 60.6 | 10.53 |
| | | 231.0 | 73.3 | 13.04 | 70.2 | 12.48 | 67.9 | 11.93 | 66.6 | 11.47 | 63.6 | 10.76 | 60.6 | 10.06 |
| | | 288.8 | 73.5 | 12.82 | 70.5 | 12.38 | 67.9 | 11.93 | 66.6 | 11.47 | 63.6 | 10.76 | 60.6 | 10.06 |
| | | 346.5 | 73.7 | 12.71 | 70.5 | 12.34 | 67.9 | 11.93 | 66.6 | 11.47 | 63.6 | 10.76 | 60.6 | 10.06 |
| | 25 | 92.4 | 75.0 | 11.39 | 71.9 | 10.79 | 67.9 | 10.34 | 66.6 | 9.82 | 63.6 | 9.42 | 60.6 | 8.72 |
| | | 115.5 | 75.1 | 11.37 | 71.9 | 10.76 | 67.9 | 10.28 | 66.6 | 9.82 | 63.6 | 9.37 | 60.6 | 8.66 |
| | | 231.0 | 75.8 | 11.28 | 71.9 | 10.67 | 67.9 | 10.06 | 66.6 | 9.82 | 63.6 | 9.12 | 60.6 | 8.41 |
| | | 288.8 | 76.1 | 10.98 | 71.9 | 10.43 | 67.9 | 10.06 | 66.6 | 9.58 | 63.6 | 9.12 | 60.6 | 8.41 |
| | | 346.5 | 76.2 | 10.83 | 71.9 | 10.31 | 67.9 | 10.06 | 66.6 | 9.46 | 63.6 | 9.12 | 60.6 | 8.41 |
| | 30 | 92.4 | 76.1 | 10.34 | 71.9 | 9.63 | 67.9 | 8.93 | 66.6 | 8.72 | 63.6 | 8.23 | 60.6 | 7.47 |
| | | 115.5 | 76.1 | 10.28 | 71.9 | 9.58 | 67.9 | 8.88 | 66.6 | 8.66 | 63.6 | 8.18 | 60.6 | 7.47 |
| | | 231.0 | 76.1 | 10.06 | 71.9 | 9.37 | 67.9 | 8.66 | 66.6 | 8.41 | 63.6 | 7.96 | 60.6 | 7.47 |
| | | 288.8 | 76.1 | 9.82 | 71.9 | 9.12 | 67.9 | 8.66 | 66.6 | 8.41 | 63.6 | 7.96 | 60.6 | 7.25 |
| | | 346.5 | 76.1 | 9.70 | 71.9 | 8.99 | 67.9 | 8.66 | 66.6 | 8.41 | 63.6 | 7.96 | 60.6 | 7.15 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 92.4 | 76.1 | 9.42 | 71.9 | 8.72 | 67.9 | 8.02 | 66.6 | 7.78 | 63.6 | 7.31 | 60.6 | 6.83 |
| | | 115.5 | 76.1 | 9.37 | 71.9 | 8.66 | 67.9 | 7.96 | 66.6 | 7.72 | 63.6 | 7.25 | 60.6 | 6.78 |
| | | 231.0 | 76.1 | 9.12 | 71.9 | 8.41 | 67.9 | 7.72 | 66.6 | 7.47 | 63.6 | 7.02 | 60.6 | 6.56 |
| | | 288.8 | 76.1 | 8.88 | 71.9 | 8.18 | 67.9 | 7.47 | 66.6 | 7.25 | 63.6 | 7.02 | 60.6 | 6.56 |
| | | 346.5 | 76.1 | 8.76 | 71.9 | 8.05 | 67.9 | 7.35 | 66.6 | 7.15 | 63.6 | 7.02 | 60.6 | 6.56 |
| | 40 | 92.4 | 76.1 | 8.79 | 71.9 | 8.02 | 67.9 | 7.08 | 66.6 | 6.83 | 63.6 | 6.62 | 60.6 | 6.13 |
| | | 115.5 | 76.1 | 8.66 | 71.9 | 7.96 | 67.9 | 7.02 | 66.6 | 6.78 | 63.6 | 6.56 | 60.6 | 6.07 |
| | | 231.0 | 76.1 | 8.18 | 71.9 | 7.72 | 67.9 | 6.78 | 66.6 | 6.56 | 63.6 | 6.31 | 60.6 | 5.85 |
| | | 288.8 | 76.1 | 8.18 | 71.9 | 7.72 | 67.9 | 6.78 | 66.6 | 6.56 | 63.6 | 6.31 | 60.6 | 5.85 |
| | | 346.5 | 76.1 | 8.18 | 71.9 | 7.72 | 67.9 | 6.78 | 66.6 | 6.56 | 63.6 | 6.31 | 60.6 | 5.85 |
| | 45 | 92.4 | 76.1 | 8.14 | 71.9 | 7.31 | 67.9 | 6.13 | 66.6 | 5.92 | 63.6 | 5.92 | 60.6 | 5.43 |
| | | 115.5 | 76.1 | 7.96 | 71.9 | 7.25 | 67.9 | 6.07 | 66.6 | 5.85 | 63.6 | 5.85 | 60.6 | 5.37 |
| | | 231.0 | 76.1 | 7.25 | 71.9 | 7.02 | 67.9 | 5.85 | 66.6 | 5.62 | 63.6 | 5.62 | 60.6 | 5.15 |
| | | 288.8 | 76.1 | 7.47 | 71.9 | 7.25 | 67.9 | 6.07 | 66.6 | 5.85 | 63.6 | 5.62 | 60.6 | 5.15 |
| | | 346.5 | 76.1 | 7.59 | 71.9 | 7.38 | 67.9 | 6.18 | 66.6 | 5.98 | 63.6 | 5.62 | 60.6 | 5.15 |
| 80 | -5 | 92.4 | 27.1 | 9.84 | 25.5 | 9.47 | 24.1 | 9.07 | 23.8 | 8.76 | 23.7 | 8.35 | 23.2 | 7.70 |
| | | 115.5 | 28.1 | 10.06 | 26.3 | 9.67 | 24.9 | 9.27 | 24.6 | 8.95 | 24.5 | 8.54 | 24.0 | 7.86 |
| | | 231.0 | 31.7 | 10.93 | 29.7 | 10.50 | 28.2 | 10.04 | 27.9 | 9.70 | 27.7 | 9.27 | 27.1 | 8.51 |
| | | 288.8 | 35.1 | 11.78 | 32.8 | 11.32 | 31.1 | 10.83 | 30.7 | 10.47 | 30.6 | 9.99 | 30.0 | 9.19 |
| | | 346.5 | 36.8 | 12.21 | 34.4 | 11.74 | 32.6 | 11.24 | 32.2 | 10.86 | 32.1 | 10.35 | 31.4 | 9.53 |
| | 0 | 92.4 | 48.4 | 14.45 | 44.7 | 13.87 | 41.6 | 13.29 | 40.8 | 12.83 | 40.2 | 12.23 | 38.7 | 11.26 |
| | | 115.5 | 48.7 | 14.49 | 45.0 | 13.91 | 41.8 | 13.33 | 41.1 | 12.87 | 40.5 | 12.26 | 39.0 | 11.29 |
| | | 231.0 | 49.9 | 14.65 | 46.0 | 14.07 | 42.9 | 13.48 | 42.0 | 13.02 | 41.5 | 12.41 | 39.9 | 11.42 |
| | | 288.8 | 50.7 | 14.65 | 46.7 | 14.07 | 43.5 | 13.48 | 42.7 | 13.02 | 42.1 | 12.41 | 40.5 | 11.42 |
| | | 346.5 | 51.0 | 14.65 | 47.1 | 14.07 | 43.9 | 13.48 | 43.0 | 13.02 | 42.4 | 12.41 | 40.8 | 11.42 |
| | 5 | 92.4 | 67.0 | 15.71 | 63.3 | 15.12 | 60.5 | 14.44 | 59.1 | 13.96 | 56.6 | 13.31 | 53.8 | 12.25 |
| | | 115.5 | 67.2 | 15.80 | 63.3 | 15.19 | 60.5 | 14.51 | 59.1 | 14.03 | 56.6 | 13.38 | 53.8 | 12.31 |
| | | 231.0 | 67.7 | 16.13 | 63.9 | 15.48 | 60.6 | 14.83 | 59.1 | 14.32 | 56.6 | 13.64 | 53.8 | 12.58 |
| | | 288.8 | 67.7 | 16.23 | 63.8 | 15.61 | 60.6 | 14.93 | 59.1 | 14.42 | 56.6 | 13.74 | 53.8 | 12.65 |
| | | 346.5 | 67.7 | 16.28 | 63.7 | 15.67 | 60.6 | 14.97 | 59.1 | 14.46 | 56.6 | 13.79 | 53.8 | 12.68 |
| | 10 | 92.4 | 67.4 | 14.46 | 63.5 | 13.81 | 60.5 | 13.10 | 59.1 | 12.74 | 56.6 | 12.06 | 53.8 | 11.17 |
| | | 115.5 | 67.5 | 14.44 | 63.6 | 13.79 | 60.5 | 13.12 | 59.1 | 12.74 | 56.6 | 12.07 | 53.8 | 11.18 |
| | | 231.0 | 67.7 | 14.36 | 63.9 | 13.71 | 60.6 | 13.13 | 59.1 | 12.77 | 56.6 | 12.09 | 53.8 | 11.20 |
| | | 288.8 | 67.7 | 14.32 | 63.8 | 13.77 | 60.6 | 13.19 | 59.1 | 12.70 | 56.6 | 12.02 | 53.8 | 11.13 |
| | | 346.5 | 67.7 | 14.29 | 63.7 | 13.79 | 60.6 | 13.21 | 59.1 | 12.67 | 56.6 | 11.99 | 53.8 | 11.09 |
| | 15 | 92.4 | 67.7 | 13.20 | 63.8 | 12.50 | 60.6 | 11.74 | 59.1 | 11.53 | 56.6 | 10.83 | 53.8 | 10.12 |
| | | 115.5 | 67.7 | 13.09 | 63.8 | 12.38 | 60.6 | 11.68 | 59.1 | 11.47 | 56.6 | 10.76 | 53.8 | 10.06 |
| | | 231.0 | 67.7 | 12.63 | 63.8 | 11.93 | 60.6 | 11.47 | 59.1 | 11.22 | 56.6 | 10.53 | 53.8 | 9.82 |
| | | 288.8 | 67.7 | 12.38 | 63.8 | 11.93 | 60.6 | 11.47 | 59.1 | 10.98 | 56.6 | 10.28 | 53.8 | 9.58 |
| | | 346.5 | 67.7 | 12.26 | 63.8 | 11.93 | 60.6 | 11.47 | 59.1 | 10.86 | 56.6 | 10.16 | 53.8 | 9.46 |
| | 20 | 92.4 | 67.7 | 11.03 | 63.8 | 10.58 | 60.6 | 10.06 | 59.1 | 9.89 | 56.6 | 9.42 | 53.8 | 8.72 |
| | | 115.5 | 67.7 | 10.98 | 63.8 | 10.53 | 60.6 | 10.06 | 59.1 | 9.82 | 56.6 | 9.37 | 53.8 | 8.66 |
| | | 231.0 | 67.7 | 10.76 | 63.8 | 10.28 | 60.6 | 10.06 | 59.1 | 9.58 | 56.6 | 9.12 | 53.8 | 8.41 |
| | | 288.8 | 67.7 | 10.53 | 63.8 | 10.06 | 60.6 | 9.82 | 59.1 | 9.58 | 56.6 | 8.88 | 53.8 | 8.41 |
| | | 346.5 | 67.7 | 10.40 | 63.8 | 9.95 | 60.6 | 9.70 | 59.1 | 9.58 | 56.6 | 8.76 | 53.8 | 8.41 |
| | 25 | 92.4 | 67.7 | 9.89 | 63.8 | 9.18 | 60.6 | 8.66 | 59.1 | 8.48 | 56.6 | 8.02 | 53.8 | 7.53 |
| | | 115.5 | 67.7 | 9.82 | 63.8 | 9.12 | 60.6 | 8.66 | 59.1 | 8.41 | 56.6 | 7.96 | 53.8 | 7.47 |
| | | 231.0 | 67.7 | 9.58 | 63.8 | 8.88 | 60.6 | 8.66 | 59.1 | 8.18 | 56.6 | 7.72 | 53.8 | 7.25 |
| | | 288.8 | 67.7 | 9.37 | 63.8 | 8.88 | 60.6 | 8.41 | 59.1 | 8.18 | 56.6 | 7.72 | 53.8 | 7.25 |
| | | 346.5 | 67.7 | 9.25 | 63.8 | 8.88 | 60.6 | 8.30 | 59.1 | 8.18 | 56.6 | 7.72 | 53.8 | 7.25 |
| | 30 | 92.4 | 67.7 | 8.72 | 63.8 | 8.23 | 60.6 | 7.78 | 59.1 | 7.53 | 56.6 | 7.08 | 53.8 | 6.62 |
| | | 115.5 | 67.7 | 8.66 | 63.8 | 8.18 | 60.6 | 7.72 | 59.1 | 7.47 | 56.6 | 7.02 | 53.8 | 6.56 |
| | | 231.0 | 67.7 | 8.41 | 63.8 | 7.96 | 60.6 | 7.47 | 59.1 | 7.25 | 56.6 | 6.78 | 53.8 | 6.31 |
| | | 288.8 | 67.7 | 8.41 | 63.8 | 7.96 | 60.6 | 7.47 | 59.1 | 7.25 | 56.6 | 6.78 | 53.8 | 6.31 |
| | | 346.5 | 67.7 | 8.41 | 63.8 | 7.96 | 60.6 | 7.47 | 59.1 | 7.25 | 56.6 | 6.78 | 53.8 | 6.31 |
| | 35 | 92.4 | 67.7 | 8.02 | 63.8 | 7.53 | 60.6 | 6.83 | 59.1 | 6.56 | 56.6 | 6.37 | 53.8 | 5.85 |
| | | 115.5 | 67.7 | 7.96 | 63.8 | 7.47 | 60.6 | 6.78 | 59.1 | 6.56 | 56.6 | 6.31 | 53.8 | 5.85 |
| | | 231.0 | 67.7 | 7.72 | 63.8 | 7.25 | 60.6 | 6.56 | 59.1 | 6.56 | 56.6 | 6.07 | 53.8 | 5.85 |
| | | 288.8 | 67.7 | 7.72 | 63.8 | 7.02 | 60.6 | 6.56 | 59.1 | 6.31 | 56.6 | 6.07 | 53.8 | 5.62 |
| | | 346.5 | 67.7 | 7.72 | 63.8 | 6.89 | 60.6 | 6.56 | 59.1 | 6.20 | 56.6 | 6.07 | 53.8 | 5.49 |
| | 40 | 92.4 | 67.7 | 7.59 | 63.8 | 6.83 | 60.6 | 6.07 | 59.1 | 6.13 | 56.6 | 5.62 | 53.8 | 5.43 |
| | | 115.5 | 67.7 | 7.47 | 63.8 | 6.78 | 60.6 | 6.07 | 59.1 | 6.07 | 56.6 | 5.62 | 53.8 | 5.37 |
| | | 231.0 | 67.7 | 7.02 | 63.8 | 6.56 | 60.6 | 6.07 | 59.1 | 5.85 | 56.6 | 5.62 | 53.8 | 5.15 |
| | | 288.8 | 67.7 | 7.02 | 63.8 | 6.56 | 60.6 | 5.85 | 59.1 | 5.85 | 56.6 | 5.62 | 53.8 | 5.15 |
| | | 346.5 | 67.7 | 7.02 | 63.8 | 6.56 | 60.6 | 5.75 | 59.1 | 5.85 | 56.6 | 5.62 | 53.8 | 5.15 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 92.4 | 67.7 | 7.19 | 63.8 | 6.13 | 60.6 | 5.31 | 59.1 | 5.73 | 56.6 | 4.85 | 53.8 | 5.02 |
| | | 115.5 | 67.7 | 7.02 | 63.8 | 6.07 | 60.6 | 5.37 | 59.1 | 5.62 | 56.6 | 4.91 | 53.8 | 4.91 |
| | | 231.0 | 67.7 | 6.31 | 63.8 | 5.85 | 60.6 | 5.62 | 59.1 | 5.15 | 56.6 | 5.15 | 53.8 | 4.45 |
| | | 288.8 | 67.7 | 6.31 | 63.8 | 6.07 | 60.6 | 5.15 | 59.1 | 5.37 | 56.6 | 5.15 | 53.8 | 4.66 |
| | | 346.5 | 67.7 | 6.31 | 63.8 | 6.18 | 60.6 | 4.92 | 59.1 | 5.48 | 56.6 | 5.15 | 53.8 | 4.78 |
| 70 | -5 | 92.4 | 23.7 | 8.45 | 22.2 | 8.05 | 21.0 | 7.79 | 20.8 | 7.34 | 20.7 | 7.08 | 20.4 | 6.44 |
| | | 115.5 | 24.5 | 8.63 | 23.0 | 8.22 | 21.7 | 7.96 | 21.5 | 7.50 | 21.4 | 7.24 | 21.0 | 6.58 |
| | | 231.0 | 27.7 | 9.37 | 26.0 | 8.92 | 24.6 | 8.63 | 24.3 | 8.12 | 24.2 | 7.83 | 23.7 | 7.14 |
| | | 288.8 | 30.6 | 10.11 | 28.8 | 9.63 | 27.1 | 9.31 | 27.0 | 8.76 | 26.7 | 8.47 | 26.2 | 7.69 |
| | | 346.5 | 32.1 | 10.48 | 30.1 | 9.98 | 28.5 | 9.66 | 28.2 | 9.08 | 28.0 | 8.79 | 27.5 | 7.98 |
| | 0 | 92.4 | 42.3 | 12.38 | 39.2 | 11.80 | 36.3 | 11.41 | 35.7 | 10.73 | 35.1 | 10.37 | 33.9 | 9.44 |
| | | 115.5 | 42.6 | 12.41 | 39.4 | 11.83 | 36.6 | 11.44 | 36.0 | 10.76 | 35.4 | 10.40 | 34.1 | 9.46 |
| | | 231.0 | 43.6 | 12.55 | 40.3 | 11.95 | 37.4 | 11.58 | 36.8 | 10.89 | 36.2 | 10.53 | 34.9 | 9.56 |
| | | 288.8 | 44.2 | 12.55 | 40.9 | 11.95 | 38.0 | 11.58 | 37.3 | 10.89 | 36.8 | 10.53 | 35.4 | 9.56 |
| | | 346.5 | 44.6 | 12.55 | 41.2 | 11.95 | 38.3 | 11.58 | 37.6 | 10.89 | 37.1 | 10.53 | 35.7 | 9.56 |
| | 5 | 92.4 | 58.5 | 13.48 | 55.5 | 12.83 | 52.8 | 12.41 | 51.7 | 11.70 | 49.4 | 11.28 | 47.1 | 10.25 |
| | | 115.5 | 58.7 | 13.55 | 55.5 | 12.89 | 52.8 | 12.48 | 51.7 | 11.76 | 49.4 | 11.35 | 47.1 | 10.31 |
| | | 231.0 | 59.1 | 13.81 | 56.0 | 13.16 | 52.9 | 12.74 | 51.7 | 11.97 | 49.4 | 11.58 | 47.1 | 10.53 |
| | | 288.8 | 59.1 | 13.91 | 55.9 | 13.26 | 52.9 | 12.84 | 51.7 | 12.07 | 49.4 | 11.66 | 47.1 | 10.60 |
| | | 346.5 | 59.1 | 13.96 | 55.8 | 13.31 | 52.9 | 12.90 | 51.7 | 12.12 | 49.4 | 11.70 | 47.1 | 10.63 |
| | 10 | 92.4 | 58.8 | 12.41 | 55.6 | 11.73 | 52.9 | 11.29 | 51.7 | 10.67 | 49.4 | 10.24 | 47.1 | 9.37 |
| | | 115.5 | 58.8 | 12.38 | 55.7 | 11.71 | 52.9 | 11.28 | 51.7 | 10.67 | 49.4 | 10.24 | 47.1 | 9.37 |
| | | 231.0 | 59.1 | 12.29 | 55.9 | 11.61 | 52.9 | 11.18 | 51.7 | 10.67 | 49.4 | 10.24 | 47.1 | 9.37 |
| | | 288.8 | 59.1 | 12.34 | 55.9 | 11.66 | 52.9 | 11.22 | 51.7 | 10.71 | 49.4 | 10.16 | 47.1 | 9.38 |
| | | 346.5 | 59.1 | 12.36 | 55.9 | 11.68 | 52.9 | 11.25 | 51.7 | 10.74 | 49.4 | 10.12 | 47.1 | 9.40 |
| | 15 | 92.4 | 59.1 | 11.34 | 55.9 | 10.64 | 52.9 | 10.18 | 51.7 | 9.63 | 49.4 | 9.18 | 47.1 | 8.48 |
| | | 115.5 | 59.1 | 11.22 | 55.9 | 10.53 | 52.9 | 10.06 | 51.7 | 9.58 | 49.4 | 9.12 | 47.1 | 8.41 |
| | | 231.0 | 59.1 | 10.76 | 55.9 | 10.06 | 52.9 | 9.58 | 51.7 | 9.37 | 49.4 | 8.88 | 47.1 | 8.18 |
| | | 288.8 | 59.1 | 10.76 | 55.9 | 10.06 | 52.9 | 9.58 | 51.7 | 9.37 | 49.4 | 8.66 | 47.1 | 8.18 |
| | | 346.5 | 59.1 | 10.76 | 55.9 | 10.06 | 52.9 | 9.58 | 51.7 | 9.37 | 49.4 | 8.55 | 47.1 | 8.18 |
| | 20 | 92.4 | 59.1 | 9.42 | 55.9 | 8.93 | 52.9 | 8.72 | 51.7 | 8.48 | 49.4 | 8.02 | 47.1 | 7.53 |
| | | 115.5 | 59.1 | 9.37 | 55.9 | 8.88 | 52.9 | 8.66 | 51.7 | 8.41 | 49.4 | 7.96 | 47.1 | 7.47 |
| | | 231.0 | 59.1 | 9.12 | 55.9 | 8.66 | 52.9 | 8.41 | 51.7 | 8.18 | 49.4 | 7.72 | 47.1 | 7.25 |
| | | 288.8 | 59.1 | 9.12 | 55.9 | 8.66 | 52.9 | 8.41 | 51.7 | 7.96 | 49.4 | 7.72 | 47.1 | 7.02 |
| | | 346.5 | 59.1 | 9.12 | 55.9 | 8.66 | 52.9 | 8.41 | 51.7 | 7.85 | 49.4 | 7.72 | 47.1 | 6.89 |
| | 25 | 92.4 | 59.1 | 8.48 | 55.9 | 8.02 | 52.9 | 7.53 | 51.7 | 7.31 | 49.4 | 6.78 | 47.1 | 6.31 |
| | | 115.5 | 59.1 | 8.41 | 55.9 | 7.96 | 52.9 | 7.47 | 51.7 | 7.25 | 49.4 | 6.78 | 47.1 | 6.31 |
| | | 231.0 | 59.1 | 8.18 | 55.9 | 7.72 | 52.9 | 7.25 | 51.7 | 7.02 | 49.4 | 6.78 | 47.1 | 6.31 |
| | | 288.8 | 59.1 | 7.96 | 55.9 | 7.47 | 52.9 | 7.25 | 51.7 | 7.02 | 49.4 | 6.56 | 47.1 | 6.31 |
| | | 346.5 | 59.1 | 7.85 | 55.9 | 7.35 | 52.9 | 7.25 | 51.7 | 7.02 | 49.4 | 6.44 | 47.1 | 6.31 |
| | 30 | 92.4 | 59.1 | 7.53 | 55.9 | 7.08 | 52.9 | 6.62 | 51.7 | 6.31 | 49.4 | 6.13 | 47.1 | 5.62 |
| | | 115.5 | 59.1 | 7.47 | 55.9 | 7.02 | 52.9 | 6.56 | 51.7 | 6.31 | 49.4 | 6.07 | 47.1 | 5.62 |
| | | 231.0 | 59.1 | 7.25 | 55.9 | 6.78 | 52.9 | 6.31 | 51.7 | 6.31 | 49.4 | 5.85 | 47.1 | 5.62 |
| | | 288.8 | 59.1 | 7.25 | 55.9 | 6.78 | 52.9 | 6.31 | 51.7 | 6.07 | 49.4 | 5.85 | 47.1 | 5.62 |
| | | 346.5 | 59.1 | 7.25 | 55.9 | 6.78 | 52.9 | 6.31 | 51.7 | 5.95 | 49.4 | 5.85 | 47.1 | 5.62 |
| | 35 | 92.4 | 59.1 | 6.83 | 55.9 | 6.37 | 52.9 | 5.85 | 51.7 | 5.92 | 49.4 | 5.37 | 47.1 | 5.21 |
| | | 115.5 | 59.1 | 6.78 | 55.9 | 6.31 | 52.9 | 5.85 | 51.7 | 5.85 | 49.4 | 5.37 | 47.1 | 5.15 |
| | | 231.0 | 59.1 | 6.56 | 55.9 | 6.07 | 52.9 | 5.85 | 51.7 | 5.62 | 49.4 | 5.37 | 47.1 | 4.91 |
| | | 288.8 | 59.1 | 6.56 | 55.9 | 6.07 | 52.9 | 5.62 | 51.7 | 5.62 | 49.4 | 5.37 | 47.1 | 4.91 |
| | | 346.5 | 59.1 | 6.56 | 55.9 | 6.07 | 52.9 | 5.49 | 51.7 | 5.62 | 49.4 | 5.37 | 47.1 | 4.91 |
| | 40 | 92.4 | 59.1 | 6.37 | 55.9 | 5.92 | 52.9 | 5.43 | 51.7 | 5.15 | 49.4 | 4.91 | 47.1 | 4.72 |
| | | 115.5 | 59.1 | 6.31 | 55.9 | 5.85 | 52.9 | 5.37 | 51.7 | 5.15 | 49.4 | 4.91 | 47.1 | 4.66 |
| | | 231.0 | 59.1 | 6.07 | 55.9 | 5.62 | 52.9 | 5.15 | 51.7 | 5.15 | 49.4 | 4.91 | 47.1 | 4.45 |
| | | 288.8 | 59.1 | 6.07 | 55.9 | 5.62 | 52.9 | 5.15 | 51.7 | 4.91 | 49.4 | 4.66 | 47.1 | 4.45 |
| | | 346.5 | 59.1 | 6.07 | 55.9 | 5.62 | 52.9 | 5.15 | 51.7 | 4.79 | 49.4 | 4.55 | 47.1 | 4.45 |
| | 45 | 92.4 | 59.1 | 5.92 | 55.9 | 5.43 | 52.9 | 5.02 | 51.7 | 4.40 | 49.4 | 4.45 | 47.1 | 4.27 |
| | | 115.5 | 59.1 | 5.85 | 55.9 | 5.37 | 52.9 | 4.91 | 51.7 | 4.45 | 49.4 | 4.45 | 47.1 | 4.21 |
| | | 231.0 | 59.1 | 5.62 | 55.9 | 5.15 | 52.9 | 4.45 | 51.7 | 4.66 | 49.4 | 4.45 | 47.1 | 3.97 |
| | | 288.8 | 59.1 | 5.62 | 55.9 | 5.15 | 52.9 | 4.66 | 51.7 | 4.21 | 49.4 | 3.97 | 47.1 | 3.97 |
| | | 346.5 | 59.1 | 5.62 | 55.9 | 5.15 | 52.9 | 4.78 | 51.7 | 3.98 | 49.4 | 3.72 | 47.1 | 3.97 |
| 60 | -5 | 92.4 | 20.3 | 6.86 | 19.0 | 6.60 | 18.0 | 6.34 | 17.8 | 5.89 | 17.7 | 5.79 | 17.4 | 5.18 |
| | | 115.5 | 21.0 | 7.02 | 19.7 | 6.75 | 18.6 | 6.49 | 18.4 | 6.02 | 18.3 | 5.92 | 18.0 | 5.30 |
| | | 231.0 | 23.8 | 7.62 | 22.3 | 7.33 | 21.1 | 7.04 | 20.9 | 6.53 | 20.8 | 6.43 | 20.4 | 5.76 |
| | | 288.8 | 26.3 | 8.20 | 24.6 | 7.91 | 23.4 | 7.60 | 23.1 | 7.06 | 23.0 | 6.94 | 22.5 | 6.20 |
| | | 346.5 | 27.6 | 8.50 | 25.8 | 8.21 | 24.5 | 7.88 | 24.2 | 7.33 | 24.1 | 7.20 | 23.6 | 6.41 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 92.4 | 36.3 | 10.06 | 33.5 | 9.70 | 31.2 | 9.28 | 30.6 | 8.63 | 30.2 | 8.51 | 29.1 | 7.60 |
| | | 115.5 | 36.6 | 10.09 | 33.7 | 9.73 | 31.5 | 9.31 | 30.8 | 8.66 | 30.4 | 8.54 | 29.3 | 7.62 |
| | | 231.0 | 37.4 | 10.21 | 34.5 | 9.82 | 32.2 | 9.44 | 31.5 | 8.76 | 31.1 | 8.63 | 29.9 | 7.69 |
| | | 288.8 | 38.0 | 10.21 | 35.0 | 9.82 | 32.7 | 9.44 | 32.0 | 8.76 | 31.6 | 8.63 | 30.4 | 7.69 |
| | | 346.5 | 38.3 | 10.21 | 35.3 | 9.82 | 33.0 | 9.44 | 32.2 | 8.76 | 31.8 | 8.63 | 30.6 | 7.69 |
| | 5 | 92.4 | 50.2 | 10.95 | 47.4 | 10.54 | 45.4 | 10.11 | 44.3 | 9.41 | 42.4 | 9.27 | 40.4 | 8.25 |
| | | 115.5 | 50.4 | 11.00 | 47.4 | 10.60 | 45.4 | 10.16 | 44.3 | 9.46 | 42.4 | 9.31 | 40.4 | 8.30 |
| | | 231.0 | 50.8 | 11.22 | 47.8 | 10.81 | 45.4 | 10.38 | 44.3 | 9.66 | 42.4 | 9.51 | 40.4 | 8.47 |
| | | 288.8 | 50.8 | 11.32 | 47.7 | 10.89 | 45.4 | 10.45 | 44.3 | 9.73 | 42.4 | 9.56 | 40.4 | 8.54 |
| | | 346.5 | 50.8 | 11.37 | 47.7 | 10.92 | 45.4 | 10.48 | 44.3 | 9.76 | 42.4 | 9.58 | 40.4 | 8.57 |
| | 10 | 92.4 | 50.5 | 10.06 | 47.6 | 9.63 | 45.4 | 9.17 | 44.3 | 8.56 | 42.4 | 8.40 | 40.4 | 7.53 |
| | | 115.5 | 50.6 | 10.06 | 47.6 | 9.63 | 45.4 | 9.17 | 44.3 | 8.59 | 42.4 | 8.40 | 40.4 | 7.54 |
| | | 231.0 | 50.8 | 10.06 | 47.8 | 9.63 | 45.4 | 9.17 | 44.3 | 8.69 | 42.4 | 8.37 | 40.4 | 7.62 |
| | | 288.8 | 50.8 | 10.09 | 47.7 | 9.53 | 45.4 | 9.08 | 44.3 | 8.59 | 42.4 | 8.30 | 40.4 | 7.54 |
| | | 346.5 | 50.8 | 10.10 | 47.7 | 9.48 | 45.4 | 9.02 | 44.3 | 8.54 | 42.4 | 8.27 | 40.4 | 7.51 |
| | 15 | 92.4 | 50.8 | 9.18 | 47.7 | 8.72 | 45.4 | 8.23 | 44.3 | 7.72 | 42.4 | 7.53 | 40.4 | 6.78 |
| | | 115.5 | 50.8 | 9.12 | 47.7 | 8.66 | 45.4 | 8.18 | 44.3 | 7.72 | 42.4 | 7.47 | 40.4 | 6.78 |
| | | 231.0 | 50.8 | 8.88 | 47.7 | 8.41 | 45.4 | 7.96 | 44.3 | 7.72 | 42.4 | 7.25 | 40.4 | 6.78 |
| | | 288.8 | 50.8 | 8.88 | 47.7 | 8.18 | 45.4 | 7.72 | 44.3 | 7.47 | 42.4 | 7.02 | 40.4 | 6.56 |
| | | 346.5 | 50.8 | 8.88 | 47.7 | 8.05 | 45.4 | 7.60 | 44.3 | 7.35 | 42.4 | 6.89 | 40.4 | 6.44 |
| | 20 | 92.4 | 50.8 | 8.02 | 47.7 | 7.53 | 45.4 | 7.08 | 44.3 | 6.83 | 42.4 | 6.62 | 40.4 | 6.13 |
| | | 115.5 | 50.8 | 7.96 | 47.7 | 7.47 | 45.4 | 7.02 | 44.3 | 6.78 | 42.4 | 6.56 | 40.4 | 6.07 |
| | | 231.0 | 50.8 | 7.72 | 47.7 | 7.25 | 45.4 | 6.78 | 44.3 | 6.56 | 42.4 | 6.31 | 40.4 | 5.85 |
| | | 288.8 | 50.8 | 7.72 | 47.7 | 7.25 | 45.4 | 6.78 | 44.3 | 6.56 | 42.4 | 6.31 | 40.4 | 5.85 |
| | | 346.5 | 50.8 | 7.72 | 47.7 | 7.25 | 45.4 | 6.78 | 44.3 | 6.56 | 42.4 | 6.31 | 40.4 | 5.85 |
| | 25 | 92.4 | 50.8 | 7.08 | 47.7 | 6.62 | 45.4 | 6.07 | 44.3 | 6.13 | 42.4 | 5.62 | 40.4 | 5.43 |
| | | 115.5 | 50.8 | 7.02 | 47.7 | 6.56 | 45.4 | 6.07 | 44.3 | 6.07 | 42.4 | 5.62 | 40.4 | 5.37 |
| | | 231.0 | 50.8 | 6.78 | 47.7 | 6.31 | 45.4 | 6.07 | 44.3 | 5.85 | 42.4 | 5.62 | 40.4 | 5.15 |
| | | 288.8 | 50.8 | 6.78 | 47.7 | 6.31 | 45.4 | 5.85 | 44.3 | 5.85 | 42.4 | 5.62 | 40.4 | 5.15 |
| | | 346.5 | 50.8 | 6.78 | 47.7 | 6.31 | 45.4 | 5.75 | 44.3 | 5.85 | 42.4 | 5.62 | 40.4 | 5.15 |
| | 30 | 92.4 | 50.8 | 6.37 | 47.7 | 5.92 | 45.4 | 5.67 | 44.3 | 5.43 | 42.4 | 5.21 | 40.4 | 4.97 |
| | | 115.5 | 50.8 | 6.31 | 47.7 | 5.85 | 45.4 | 5.62 | 44.3 | 5.37 | 42.4 | 5.15 | 40.4 | 4.91 |
| | | 231.0 | 50.8 | 6.07 | 47.7 | 5.62 | 45.4 | 5.37 | 44.3 | 5.15 | 42.4 | 4.91 | 40.4 | 4.66 |
| | | 288.8 | 50.8 | 6.07 | 47.7 | 5.62 | 45.4 | 5.37 | 44.3 | 5.15 | 42.4 | 4.91 | 40.4 | 4.66 |
| | | 346.5 | 50.8 | 6.07 | 47.7 | 5.62 | 45.4 | 5.37 | 44.3 | 5.15 | 42.4 | 4.91 | 40.4 | 4.66 |
| | 35 | 92.4 | 50.8 | 5.62 | 47.7 | 5.43 | 45.4 | 4.91 | 44.3 | 4.97 | 42.4 | 4.72 | 40.4 | 4.52 |
| | | 115.5 | 50.8 | 5.62 | 47.7 | 5.37 | 45.4 | 4.91 | 44.3 | 4.91 | 42.4 | 4.66 | 40.4 | 4.45 |
| | | 231.0 | 50.8 | 5.62 | 47.7 | 5.15 | 45.4 | 4.91 | 44.3 | 4.66 | 42.4 | 4.45 | 40.4 | 4.21 |
| | | 288.8 | 50.8 | 5.62 | 47.7 | 5.15 | 45.4 | 4.66 | 44.3 | 4.66 | 42.4 | 4.45 | 40.4 | 4.21 |
| | | 346.5 | 50.8 | 5.62 | 47.7 | 5.15 | 45.4 | 4.55 | 44.3 | 4.66 | 42.4 | 4.45 | 40.4 | 4.21 |
| | 40 | 92.4 | 50.8 | 5.15 | 47.7 | 4.97 | 45.4 | 4.45 | 44.3 | 4.52 | 42.4 | 4.27 | 40.4 | 3.97 |
| | | 115.5 | 50.8 | 5.15 | 47.7 | 4.91 | 45.4 | 4.45 | 44.3 | 4.45 | 42.4 | 4.21 | 40.4 | 3.97 |
| | | 231.0 | 50.8 | 5.15 | 47.7 | 4.66 | 45.4 | 4.45 | 44.3 | 4.21 | 42.4 | 3.97 | 40.4 | 3.97 |
| | | 288.8 | 50.8 | 5.15 | 47.7 | 4.66 | 45.4 | 4.45 | 44.3 | 4.21 | 42.4 | 3.97 | 40.4 | 3.97 |
| | | 346.5 | 50.8 | 5.15 | 47.7 | 4.66 | 45.4 | 4.45 | 44.3 | 4.21 | 42.4 | 3.97 | 40.4 | 3.97 |
| | 45 | 92.4 | 50.8 | 4.66 | 47.7 | 4.52 | 45.4 | 3.97 | 44.3 | 4.02 | 42.4 | 3.81 | 40.4 | 3.45 |
| | | 115.5 | 50.8 | 4.66 | 47.7 | 4.45 | 45.4 | 3.97 | 44.3 | 3.97 | 42.4 | 3.75 | 40.4 | 3.51 |
| | | 231.0 | 50.8 | 4.66 | 47.7 | 4.21 | 45.4 | 3.97 | 44.3 | 3.75 | 42.4 | 3.51 | 40.4 | 3.75 |
| | | 288.8 | 50.8 | 4.66 | 47.7 | 4.21 | 45.4 | 4.21 | 44.3 | 3.75 | 42.4 | 3.51 | 40.4 | 3.75 |
| | | 346.5 | 50.8 | 4.66 | 47.7 | 4.21 | 45.4 | 4.33 | 44.3 | 3.75 | 42.4 | 3.51 | 40.4 | 3.75 |
| 50 | -5 | 92.4 | 16.9 | 5.47 | 15.9 | 5.18 | 15.0 | 4.91 | 14.8 | 4.63 | 14.7 | 4.36 | 14.5 | 4.13 |
| | | 115.5 | 17.5 | 5.59 | 16.5 | 5.30 | 15.6 | 5.01 | 15.3 | 4.74 | 15.3 | 4.45 | 15.0 | 4.21 |
| | | 231.0 | 19.8 | 6.05 | 18.6 | 5.76 | 17.6 | 5.42 | 17.4 | 5.15 | 17.3 | 4.84 | 16.9 | 4.55 |
| | | 288.8 | 21.9 | 6.53 | 20.5 | 6.20 | 19.4 | 5.85 | 19.2 | 5.56 | 19.1 | 5.20 | 18.8 | 4.91 |
| | | 346.5 | 22.9 | 6.78 | 21.6 | 6.41 | 20.4 | 6.07 | 20.1 | 5.78 | 19.9 | 5.39 | 19.7 | 5.10 |
| | 0 | 92.4 | 30.2 | 8.01 | 27.9 | 7.60 | 26.0 | 7.16 | 25.5 | 6.79 | 25.1 | 6.39 | 24.2 | 6.03 |
| | | 115.5 | 30.4 | 8.03 | 28.2 | 7.62 | 26.1 | 7.18 | 25.6 | 6.82 | 25.2 | 6.41 | 24.3 | 6.05 |
| | | 231.0 | 31.1 | 8.11 | 28.8 | 7.69 | 26.8 | 7.28 | 26.2 | 6.92 | 25.9 | 6.49 | 24.9 | 6.12 |
| | | 288.8 | 31.6 | 8.11 | 29.2 | 7.69 | 27.1 | 7.28 | 26.7 | 6.92 | 26.2 | 6.49 | 25.3 | 6.12 |
| | | 346.5 | 31.8 | 8.11 | 29.4 | 7.69 | 27.3 | 7.28 | 26.9 | 6.92 | 26.4 | 6.49 | 25.5 | 6.12 |
| | 5 | 92.4 | 41.7 | 8.72 | 39.6 | 8.25 | 37.8 | 7.79 | 36.9 | 7.41 | 35.2 | 6.96 | 33.6 | 6.54 |
| | | 115.5 | 41.8 | 8.76 | 39.6 | 8.30 | 37.8 | 7.83 | 36.9 | 7.45 | 35.2 | 6.99 | 33.6 | 6.58 |
| | | 231.0 | 42.2 | 8.92 | 39.9 | 8.47 | 37.8 | 8.01 | 36.9 | 7.60 | 35.2 | 7.11 | 33.6 | 6.72 |
| | | 288.8 | 42.2 | 8.99 | 39.9 | 8.54 | 37.8 | 8.05 | 36.9 | 7.64 | 35.2 | 7.18 | 33.6 | 6.78 |
| | | 346.5 | 42.2 | 9.03 | 39.9 | 8.57 | 37.8 | 8.08 | 36.9 | 7.67 | 35.2 | 7.22 | 33.6 | 6.79 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(24HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 92.4 | 42.0 | 8.02 | 39.7 | 7.56 | 37.8 | 7.10 | 36.9 | 6.79 | 35.2 | 6.27 | 33.6 | 5.99 |
| | | 115.5 | 42.0 | 8.01 | 39.7 | 7.54 | 37.8 | 7.09 | 36.9 | 6.78 | 35.2 | 6.29 | 33.6 | 5.98 |
| | | 231.0 | 42.2 | 7.96 | 39.9 | 7.53 | 37.8 | 7.04 | 36.9 | 6.72 | 35.2 | 6.36 | 33.6 | 5.92 |
| | | 288.8 | 42.2 | 8.01 | 39.9 | 7.54 | 37.8 | 7.06 | 36.9 | 6.75 | 35.2 | 6.27 | 33.6 | 5.95 |
| | | 346.5 | 42.2 | 8.03 | 39.9 | 7.56 | 37.8 | 7.08 | 36.9 | 6.76 | 35.2 | 6.21 | 33.6 | 5.96 |
| | 15 | 92.4 | 42.2 | 7.31 | 39.9 | 6.83 | 37.8 | 6.37 | 36.9 | 6.13 | 35.2 | 5.62 | 33.6 | 5.43 |
| | | 115.5 | 42.2 | 7.25 | 39.9 | 6.78 | 37.8 | 6.31 | 36.9 | 6.07 | 35.2 | 5.62 | 33.6 | 5.37 |
| | | 231.0 | 42.2 | 7.02 | 39.9 | 6.56 | 37.8 | 6.07 | 36.9 | 5.85 | 35.2 | 5.62 | 33.6 | 5.15 |
| | | 288.8 | 42.2 | 7.02 | 39.9 | 6.56 | 37.8 | 6.07 | 36.9 | 5.85 | 35.2 | 5.37 | 33.6 | 5.15 |
| | | 346.5 | 42.2 | 7.02 | 39.9 | 6.56 | 37.8 | 6.07 | 36.9 | 5.85 | 35.2 | 5.24 | 33.6 | 5.15 |
| | 20 | 92.4 | 42.2 | 6.37 | 39.9 | 5.92 | 37.8 | 5.67 | 36.9 | 5.43 | 35.2 | 5.21 | 33.6 | 4.66 |
| | | 115.5 | 42.2 | 6.31 | 39.9 | 5.85 | 37.8 | 5.62 | 36.9 | 5.37 | 35.2 | 5.15 | 33.6 | 4.66 |
| | | 231.0 | 42.2 | 6.07 | 39.9 | 5.62 | 37.8 | 5.37 | 36.9 | 5.15 | 35.2 | 4.91 | 33.6 | 4.66 |
| | | 288.8 | 42.2 | 6.07 | 39.9 | 5.62 | 37.8 | 5.37 | 36.9 | 5.15 | 35.2 | 4.91 | 33.6 | 4.66 |
| | | 346.5 | 42.2 | 6.07 | 39.9 | 5.62 | 37.8 | 5.37 | 36.9 | 5.15 | 35.2 | 4.91 | 33.6 | 4.66 |
| | 25 | 92.4 | 42.2 | 5.67 | 39.9 | 5.15 | 37.8 | 4.97 | 36.9 | 4.66 | 35.2 | 4.45 | 33.6 | 4.21 |
| | | 115.5 | 42.2 | 5.62 | 39.9 | 5.15 | 37.8 | 4.91 | 36.9 | 4.66 | 35.2 | 4.45 | 33.6 | 4.21 |
| | | 231.0 | 42.2 | 5.37 | 39.9 | 5.15 | 37.8 | 4.66 | 36.9 | 4.66 | 35.2 | 4.45 | 33.6 | 4.21 |
| | | 288.8 | 42.2 | 5.37 | 39.9 | 5.15 | 37.8 | 4.66 | 36.9 | 4.66 | 35.2 | 4.45 | 33.6 | 4.21 |
| | | 346.5 | 42.2 | 5.37 | 39.9 | 5.15 | 37.8 | 4.66 | 36.9 | 4.66 | 35.2 | 4.45 | 33.6 | 4.21 |
| | 30 | 92.4 | 42.2 | 5.21 | 39.9 | 4.72 | 37.8 | 4.52 | 36.9 | 4.21 | 35.2 | 4.27 | 33.6 | 4.02 |
| | | 115.5 | 42.2 | 5.15 | 39.9 | 4.66 | 37.8 | 4.45 | 36.9 | 4.21 | 35.2 | 4.21 | 33.6 | 3.97 |
| | | 231.0 | 42.2 | 4.91 | 39.9 | 4.45 | 37.8 | 4.21 | 36.9 | 4.21 | 35.2 | 3.97 | 33.6 | 3.75 |
| | | 288.8 | 42.2 | 4.91 | 39.9 | 4.45 | 37.8 | 4.21 | 36.9 | 4.21 | 35.2 | 3.97 | 33.6 | 3.75 |
| | | 346.5 | 42.2 | 4.91 | 39.9 | 4.45 | 37.8 | 4.21 | 36.9 | 4.21 | 35.2 | 3.97 | 33.6 | 3.75 |
| | 35 | 92.4 | 42.2 | 4.72 | 39.9 | 4.21 | 37.8 | 3.97 | 36.9 | 4.02 | 35.2 | 3.75 | 33.6 | 3.51 |
| | | 115.5 | 42.2 | 4.66 | 39.9 | 4.21 | 37.8 | 3.97 | 36.9 | 3.97 | 35.2 | 3.75 | 33.6 | 3.51 |
| | | 231.0 | 42.2 | 4.45 | 39.9 | 4.21 | 37.8 | 3.97 | 36.9 | 3.75 | 35.2 | 3.75 | 33.6 | 3.51 |
| | | 288.8 | 42.2 | 4.45 | 39.9 | 4.21 | 37.8 | 3.97 | 36.9 | 3.75 | 35.2 | 3.75 | 33.6 | 3.51 |
| | | 346.5 | 42.2 | 4.45 | 39.9 | 4.21 | 37.8 | 3.97 | 36.9 | 3.75 | 35.2 | 3.75 | 33.6 | 3.51 |
| | 40 | 92.4 | 42.2 | 4.27 | 39.9 | 4.02 | 37.8 | 3.81 | 36.9 | 3.51 | 35.2 | 3.56 | 33.6 | 3.27 |
| | | 115.5 | 42.2 | 4.21 | 39.9 | 3.97 | 37.8 | 3.75 | 36.9 | 3.51 | 35.2 | 3.51 | 33.6 | 3.27 |
| | | 231.0 | 42.2 | 3.97 | 39.9 | 3.75 | 37.8 | 3.51 | 36.9 | 3.51 | 35.2 | 3.27 | 33.6 | 3.27 |
| | | 288.8 | 42.2 | 3.97 | 39.9 | 3.75 | 37.8 | 3.51 | 36.9 | 3.51 | 35.2 | 3.27 | 33.6 | 3.27 |
| | | 346.5 | 42.2 | 3.97 | 39.9 | 3.75 | 37.8 | 3.51 | 36.9 | 3.51 | 35.2 | 3.27 | 33.6 | 3.27 |
| | 45 | 92.4 | 42.2 | 3.81 | 39.9 | 3.87 | 37.8 | 3.62 | 36.9 | 3.00 | 35.2 | 3.39 | 33.6 | 3.05 |
| | | 115.5 | 42.2 | 3.75 | 39.9 | 3.75 | 37.8 | 3.51 | 36.9 | 3.05 | 35.2 | 3.27 | 33.6 | 3.05 |
| | | 231.0 | 42.2 | 3.51 | 39.9 | 3.27 | 37.8 | 3.05 | 36.9 | 3.27 | 35.2 | 2.81 | 33.6 | 3.05 |
| | | 288.8 | 42.2 | 3.51 | 39.9 | 3.27 | 37.8 | 3.05 | 36.9 | 3.27 | 35.2 | 2.81 | 33.6 | 3.05 |
| | | 346.5 | 42.2 | 3.51 | 39.9 | 3.27 | 37.8 | 3.05 | 36.9 | 3.27 | 35.2 | 2.81 | 33.6 | 3.05 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN260BAS4

**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 100.4 | 38.7 | 16.05 | 38.5 | 15.10 | 38.2 | 14.06 | 37.7 | 13.64 | 38.2 | 13.29 | 37.1 | 11.92 |
| | | 125.5 | 40.1 | 16.32 | 39.8 | 15.40 | 39.5 | 14.37 | 39.0 | 13.95 | 39.5 | 13.58 | 38.4 | 12.17 |
| | | 251.0 | 45.3 | 17.44 | 45.0 | 16.57 | 44.7 | 15.59 | 44.1 | 15.13 | 44.7 | 14.72 | 43.5 | 13.20 |
| | | 313.8 | 50.1 | 18.54 | 49.7 | 17.69 | 49.4 | 16.80 | 48.8 | 16.35 | 49.4 | 15.87 | 48.1 | 14.24 |
| | | 376.5 | 52.5 | 19.10 | 52.0 | 18.27 | 51.7 | 17.41 | 51.1 | 16.96 | 51.7 | 16.46 | 50.4 | 14.75 |
| | 0 | 100.4 | 69.2 | 21.94 | 67.6 | 21.29 | 66.2 | 20.60 | 64.7 | 20.02 | 65.0 | 19.46 | 62.1 | 17.44 |
| | | 125.5 | 69.7 | 22.01 | 68.1 | 21.34 | 66.6 | 20.65 | 65.2 | 20.08 | 65.3 | 19.52 | 62.4 | 17.49 |
| | | 251.0 | 71.3 | 22.24 | 69.6 | 21.55 | 68.1 | 20.90 | 66.6 | 20.31 | 66.9 | 19.73 | 63.9 | 17.69 |
| | | 313.8 | 72.3 | 22.24 | 70.7 | 21.55 | 69.2 | 20.90 | 67.6 | 20.31 | 67.9 | 19.73 | 64.8 | 17.69 |
| | | 376.5 | 72.9 | 22.24 | 71.2 | 21.55 | 69.7 | 20.90 | 68.1 | 20.31 | 68.4 | 19.73 | 65.3 | 17.69 |
| | 5 | 100.4 | 99.6 | 23.59 | 98.2 | 23.00 | 96.2 | 22.42 | 93.7 | 21.79 | 91.2 | 21.18 | 86.1 | 18.97 |
| | | 125.5 | 100.1 | 23.70 | 98.3 | 23.11 | 96.2 | 22.53 | 93.7 | 21.90 | 91.2 | 21.29 | 86.1 | 19.07 |
| | | 251.0 | 101.4 | 24.11 | 99.0 | 23.54 | 96.2 | 22.99 | 93.7 | 22.34 | 91.2 | 21.71 | 86.1 | 19.46 |
| | | 313.8 | 102.0 | 24.27 | 99.3 | 23.70 | 96.2 | 23.14 | 93.7 | 22.50 | 91.2 | 21.87 | 86.1 | 19.60 |
| | | 376.5 | 102.4 | 24.35 | 99.5 | 23.78 | 96.2 | 23.22 | 93.7 | 22.58 | 91.2 | 21.95 | 86.1 | 19.67 |
| | 10 | 100.4 | 99.8 | 21.46 | 98.2 | 20.74 | 95.9 | 20.35 | 93.3 | 19.89 | 90.8 | 19.21 | 85.8 | 17.34 |
| | | 125.5 | 100.4 | 21.42 | 98.6 | 20.76 | 96.2 | 20.39 | 93.7 | 19.89 | 91.2 | 19.21 | 86.1 | 17.33 |
| | | 251.0 | 102.7 | 21.26 | 100.4 | 20.84 | 97.8 | 20.55 | 95.2 | 19.86 | 92.6 | 19.15 | 87.6 | 17.28 |
| | | 313.8 | 103.3 | 21.55 | 101.2 | 21.14 | 98.3 | 20.63 | 95.7 | 19.94 | 93.1 | 19.46 | 88.1 | 18.09 |
| | | 376.5 | 103.5 | 21.70 | 101.5 | 21.28 | 98.6 | 20.67 | 95.9 | 19.98 | 93.5 | 19.62 | 88.4 | 18.51 |
| | 15 | 100.4 | 99.9 | 19.34 | 98.2 | 18.51 | 95.4 | 18.32 | 92.9 | 18.01 | 90.5 | 17.25 | 85.5 | 15.72 |
| | | 125.5 | 100.8 | 19.15 | 99.0 | 18.44 | 96.2 | 18.28 | 93.7 | 17.88 | 91.2 | 17.12 | 86.1 | 15.59 |
| | | 251.0 | 104.0 | 18.39 | 101.9 | 18.12 | 99.3 | 18.12 | 96.7 | 17.36 | 93.9 | 16.59 | 88.9 | 15.05 |
| | | 313.8 | 104.6 | 18.83 | 102.9 | 18.54 | 100.4 | 18.12 | 97.8 | 17.36 | 95.2 | 17.06 | 90.0 | 16.59 |
| | | 376.5 | 104.8 | 19.06 | 103.4 | 18.75 | 101.1 | 18.12 | 98.3 | 17.36 | 95.9 | 17.30 | 90.5 | 17.36 |
| | 20 | 100.4 | 103.8 | 17.74 | 101.9 | 16.92 | 99.1 | 16.55 | 96.4 | 16.02 | 93.6 | 15.67 | 88.1 | 15.18 |
| | | 125.5 | 104.6 | 17.61 | 102.7 | 16.90 | 99.9 | 16.54 | 97.2 | 16.08 | 94.4 | 15.77 | 88.9 | 15.05 |
| | | 251.0 | 107.9 | 17.12 | 106.0 | 16.85 | 103.0 | 16.49 | 100.3 | 16.35 | 97.8 | 16.19 | 92.2 | 14.56 |
| | | 313.8 | 108.4 | 17.12 | 106.8 | 16.85 | 104.2 | 16.59 | 101.2 | 16.35 | 98.5 | 16.19 | 92.9 | 15.48 |
| | | 376.5 | 108.6 | 17.12 | 107.1 | 16.85 | 104.8 | 16.65 | 101.7 | 16.35 | 98.9 | 16.19 | 93.3 | 15.94 |
| | 25 | 100.4 | 109.5 | 16.92 | 106.8 | 16.43 | 104.2 | 16.16 | 102.2 | 15.89 | 99.9 | 15.65 | 94.2 | 14.62 |
| | | 125.5 | 109.5 | 16.85 | 106.8 | 16.40 | 104.2 | 16.08 | 102.2 | 15.82 | 99.9 | 15.59 | 94.2 | 14.56 |
| | | 251.0 | 109.5 | 16.59 | 106.8 | 16.30 | 104.2 | 15.82 | 102.2 | 15.59 | 99.9 | 15.32 | 94.2 | 14.29 |
| | | 313.8 | 109.5 | 16.35 | 106.8 | 15.87 | 104.2 | 15.59 | 102.2 | 15.32 | 99.9 | 15.05 | 94.2 | 14.05 |
| | | 376.5 | 109.5 | 16.23 | 106.8 | 15.67 | 104.2 | 15.46 | 102.2 | 15.19 | 99.9 | 14.92 | 94.2 | 13.93 |
| | 30 | 100.4 | 109.5 | 16.49 | 106.8 | 15.67 | 104.2 | 15.52 | 102.2 | 15.11 | 99.9 | 14.95 | 94.2 | 13.91 |
| | | 125.5 | 109.5 | 16.35 | 106.8 | 15.64 | 104.2 | 15.43 | 102.2 | 15.05 | 99.9 | 14.82 | 94.2 | 13.79 |
| | | 251.0 | 109.5 | 15.82 | 106.8 | 15.53 | 104.2 | 15.05 | 102.2 | 14.82 | 99.9 | 14.29 | 94.2 | 13.28 |
| | | 313.8 | 109.5 | 15.59 | 106.8 | 15.11 | 104.2 | 14.82 | 102.2 | 14.56 | 99.9 | 14.29 | 94.2 | 13.28 |
| | | 376.5 | 109.5 | 15.46 | 106.8 | 14.89 | 104.2 | 14.70 | 102.2 | 14.42 | 99.9 | 14.29 | 94.2 | 13.28 |
| | 35 | 100.4 | 109.5 | 15.72 | 106.8 | 15.19 | 104.2 | 14.88 | 102.2 | 14.35 | 99.9 | 13.85 | 94.2 | 12.89 |
| | | 125.5 | 109.5 | 15.59 | 106.8 | 15.11 | 104.2 | 14.82 | 102.2 | 14.29 | 99.9 | 13.79 | 94.2 | 12.76 |
| | | 251.0 | 109.5 | 15.05 | 106.8 | 14.77 | 104.2 | 14.56 | 102.2 | 14.05 | 99.9 | 13.52 | 94.2 | 12.25 |
| | | 313.8 | 109.5 | 15.05 | 106.8 | 14.61 | 104.2 | 14.29 | 102.2 | 13.79 | 99.9 | 13.28 | 94.2 | 12.25 |
| | | 376.5 | 109.5 | 15.05 | 106.8 | 14.53 | 104.2 | 14.15 | 102.2 | 13.66 | 99.9 | 13.17 | 94.2 | 12.25 |
| | 40 | 100.4 | 109.5 | 15.18 | 106.8 | 14.70 | 104.2 | 14.42 | 102.2 | 13.91 | 99.9 | 13.42 | 94.2 | 12.12 |
| | | 125.5 | 109.5 | 15.05 | 106.8 | 14.61 | 104.2 | 14.29 | 102.2 | 13.79 | 99.9 | 13.28 | 94.2 | 11.99 |
| | | 251.0 | 109.5 | 14.56 | 106.8 | 14.24 | 104.2 | 13.79 | 102.2 | 13.28 | 99.9 | 12.76 | 94.2 | 11.49 |
| | | 313.8 | 109.5 | 14.29 | 106.8 | 13.99 | 104.2 | 13.79 | 102.2 | 13.28 | 99.9 | 12.76 | 94.2 | 11.49 |
| | | 376.5 | 109.5 | 14.15 | 106.8 | 13.88 | 104.2 | 13.79 | 102.2 | 13.28 | 99.9 | 12.76 | 94.2 | 11.49 |
| | 45 | 100.4 | 109.5 | 14.69 | 106.8 | 14.20 | 104.2 | 13.98 | 102.2 | 13.48 | 99.9 | 12.95 | 94.2 | 11.35 |
| | | 125.5 | 109.5 | 14.56 | 106.8 | 14.10 | 104.2 | 13.79 | 102.2 | 13.28 | 99.9 | 12.76 | 94.2 | 11.23 |
| | | 251.0 | 109.5 | 14.05 | 106.8 | 13.74 | 104.2 | 13.03 | 102.2 | 12.52 | 99.9 | 11.99 | 94.2 | 10.72 |
| | | 313.8 | 109.5 | 13.52 | 106.8 | 13.39 | 104.2 | 13.28 | 102.2 | 12.76 | 99.9 | 12.25 | 94.2 | 10.72 |
| | | 376.5 | 109.5 | 13.26 | 106.8 | 13.22 | 104.2 | 13.42 | 102.2 | 12.88 | 99.9 | 12.39 | 94.2 | 10.72 |
| 120 | -5 | 100.4 | 36.9 | 16.05 | 36.6 | 15.10 | 36.3 | 14.06 | 35.9 | 13.47 | 36.2 | 13.08 | 35.2 | 11.70 |
| | | 125.5 | 38.1 | 16.32 | 37.8 | 15.40 | 37.5 | 14.37 | 37.1 | 13.76 | 37.4 | 13.36 | 36.4 | 11.97 |
| | | 251.0 | 43.1 | 17.44 | 42.7 | 16.57 | 42.6 | 15.59 | 41.9 | 14.92 | 42.4 | 14.50 | 41.3 | 13.00 |
| | | 313.8 | 47.6 | 18.54 | 47.3 | 17.69 | 47.0 | 16.80 | 46.4 | 16.11 | 46.8 | 15.64 | 45.5 | 13.99 |
| | | 376.5 | 49.9 | 19.10 | 49.5 | 18.27 | 49.2 | 17.41 | 48.6 | 16.71 | 49.0 | 16.21 | 47.6 | 14.50 |
| | 0 | 100.4 | 65.8 | 21.94 | 64.2 | 21.29 | 62.9 | 20.60 | 61.6 | 19.73 | 61.6 | 19.18 | 58.8 | 17.14 |
| | | 125.5 | 66.2 | 22.01 | 64.6 | 21.34 | 63.2 | 20.65 | 61.9 | 19.78 | 61.9 | 19.23 | 59.1 | 17.20 |
| | | 251.0 | 67.7 | 22.24 | 66.1 | 21.55 | 64.8 | 20.90 | 63.4 | 20.02 | 63.4 | 19.44 | 60.6 | 17.41 |
| | | 313.8 | 68.8 | 22.24 | 67.2 | 21.55 | 65.8 | 20.90 | 64.4 | 20.02 | 64.3 | 19.44 | 61.4 | 17.41 |
| | | 376.5 | 69.4 | 22.24 | 67.8 | 21.55 | 66.3 | 20.90 | 64.9 | 20.02 | 64.8 | 19.44 | 61.9 | 17.41 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 100.4 | 94.9 | 23.59 | 93.4 | 23.00 | 91.5 | 22.42 | 89.2 | 21.47 | 86.4 | 20.87 | 81.7 | 18.69 |
| | | 125.5 | 95.2 | 23.70 | 93.6 | 23.11 | 91.5 | 22.53 | 89.2 | 21.58 | 86.4 | 20.98 | 81.7 | 18.78 |
| | | 251.0 | 96.6 | 24.11 | 94.3 | 23.54 | 91.5 | 22.99 | 89.2 | 22.03 | 86.4 | 21.39 | 81.7 | 19.15 |
| | | 313.8 | 97.2 | 24.27 | 93.8 | 23.70 | 91.5 | 23.14 | 89.2 | 22.18 | 86.4 | 21.55 | 81.7 | 19.29 |
| | | 376.5 | 97.4 | 24.35 | 93.5 | 23.78 | 91.5 | 23.22 | 89.2 | 22.26 | 86.4 | 21.63 | 81.7 | 19.35 |
| | 10 | 100.4 | 95.2 | 21.19 | 93.5 | 20.60 | 91.2 | 20.19 | 88.9 | 19.57 | 86.1 | 18.93 | 81.4 | 17.01 |
| | | 125.5 | 95.7 | 21.26 | 93.9 | 20.68 | 91.5 | 20.26 | 89.2 | 19.60 | 86.4 | 18.91 | 81.7 | 17.04 |
| | | 251.0 | 97.5 | 21.55 | 95.4 | 21.00 | 92.4 | 20.55 | 90.2 | 19.70 | 87.3 | 18.86 | 82.5 | 17.12 |
| | | 313.8 | 98.0 | 21.47 | 95.1 | 21.00 | 92.8 | 20.63 | 90.5 | 19.78 | 87.7 | 18.94 | 82.9 | 17.69 |
| | | 376.5 | 98.3 | 21.44 | 94.9 | 21.00 | 93.0 | 20.67 | 90.8 | 19.83 | 87.9 | 18.97 | 83.1 | 17.99 |
| | 15 | 100.4 | 95.5 | 18.80 | 93.6 | 18.24 | 90.9 | 17.96 | 88.7 | 17.69 | 86.0 | 16.98 | 81.2 | 15.38 |
| | | 125.5 | 96.1 | 18.83 | 94.1 | 18.28 | 91.5 | 17.99 | 89.2 | 17.61 | 86.4 | 16.85 | 81.7 | 15.32 |
| | | 251.0 | 98.3 | 18.99 | 96.5 | 18.44 | 93.5 | 18.12 | 91.2 | 17.36 | 88.1 | 16.35 | 83.4 | 15.05 |
| | | 313.8 | 98.8 | 18.70 | 96.4 | 18.28 | 94.2 | 18.12 | 92.0 | 17.36 | 88.9 | 16.35 | 84.2 | 16.08 |
| | | 376.5 | 99.1 | 18.56 | 96.4 | 18.20 | 94.6 | 18.12 | 92.3 | 17.36 | 89.2 | 16.35 | 84.5 | 16.60 |
| | 20 | 100.4 | 98.2 | 16.90 | 96.4 | 16.19 | 93.4 | 15.76 | 90.8 | 15.53 | 87.9 | 15.33 | 83.2 | 14.56 |
| | | 125.5 | 98.8 | 16.90 | 96.9 | 16.24 | 93.9 | 15.82 | 91.5 | 15.59 | 88.4 | 15.32 | 83.7 | 14.50 |
| | | 251.0 | 101.4 | 16.90 | 99.2 | 16.49 | 96.0 | 16.08 | 93.7 | 15.82 | 90.7 | 15.27 | 85.6 | 14.29 |
| | | 313.8 | 101.7 | 16.74 | 99.1 | 16.35 | 96.7 | 16.08 | 94.2 | 15.82 | 91.2 | 15.32 | 86.1 | 14.82 |
| | | 376.5 | 102.0 | 16.66 | 99.1 | 16.28 | 97.2 | 16.08 | 94.6 | 15.82 | 91.5 | 15.35 | 86.4 | 15.08 |
| | 25 | 100.4 | 103.0 | 15.99 | 99.9 | 15.24 | 96.7 | 14.95 | 94.7 | 14.62 | 92.2 | 14.35 | 87.1 | 13.36 |
| | | 125.5 | 103.0 | 15.92 | 99.9 | 15.21 | 96.7 | 14.92 | 94.7 | 14.56 | 92.2 | 14.29 | 87.1 | 13.28 |
| | | 251.0 | 103.2 | 15.69 | 99.9 | 15.11 | 96.7 | 14.82 | 94.7 | 14.29 | 92.2 | 14.05 | 87.1 | 13.03 |
| | | 313.8 | 103.5 | 15.11 | 99.9 | 14.72 | 96.7 | 14.56 | 94.7 | 14.29 | 92.2 | 13.79 | 87.1 | 13.03 |
| | | 376.5 | 103.7 | 14.81 | 99.9 | 14.51 | 96.7 | 14.42 | 94.7 | 14.29 | 92.2 | 13.66 | 87.1 | 13.03 |
| | 30 | 100.4 | 103.5 | 15.29 | 99.9 | 14.53 | 96.7 | 14.12 | 94.7 | 13.58 | 92.2 | 13.42 | 87.1 | 12.32 |
| | | 125.5 | 103.5 | 15.16 | 99.9 | 14.45 | 96.7 | 14.05 | 94.7 | 13.52 | 92.2 | 13.28 | 87.1 | 12.25 |
| | | 251.0 | 103.5 | 14.66 | 99.9 | 14.10 | 96.7 | 13.79 | 94.7 | 13.28 | 92.2 | 12.76 | 87.1 | 11.99 |
| | | 313.8 | 103.5 | 14.18 | 99.9 | 13.79 | 96.7 | 13.52 | 94.7 | 13.28 | 92.2 | 12.76 | 87.1 | 11.75 |
| | | 376.5 | 103.5 | 13.94 | 99.9 | 13.63 | 96.7 | 13.39 | 94.7 | 13.28 | 92.2 | 12.76 | 87.1 | 11.64 |
| | 35 | 100.4 | 103.5 | 14.61 | 99.9 | 13.80 | 96.7 | 13.42 | 94.7 | 12.89 | 92.2 | 12.38 | 87.1 | 11.29 |
| | | 125.5 | 103.5 | 14.40 | 99.9 | 13.68 | 96.7 | 13.28 | 94.7 | 12.76 | 92.2 | 12.25 | 87.1 | 11.23 |
| | | 251.0 | 103.5 | 13.58 | 99.9 | 13.18 | 96.7 | 12.76 | 94.7 | 12.25 | 92.2 | 11.75 | 87.1 | 10.99 |
| | | 313.8 | 103.5 | 13.42 | 99.9 | 13.07 | 96.7 | 12.76 | 94.7 | 12.25 | 92.2 | 11.75 | 87.1 | 10.72 |
| | | 376.5 | 103.5 | 13.34 | 99.9 | 13.03 | 96.7 | 12.76 | 94.7 | 12.25 | 92.2 | 11.75 | 87.1 | 10.59 |
| | 40 | 100.4 | 103.5 | 14.17 | 99.9 | 13.17 | 96.7 | 12.65 | 94.7 | 12.12 | 92.2 | 11.62 | 87.1 | 10.52 |
| | | 125.5 | 103.5 | 13.90 | 99.9 | 13.03 | 96.7 | 12.52 | 94.7 | 11.99 | 92.2 | 11.49 | 87.1 | 10.46 |
| | | 251.0 | 103.5 | 12.81 | 99.9 | 12.41 | 96.7 | 11.99 | 94.7 | 11.49 | 92.2 | 10.99 | 87.1 | 10.23 |
| | | 313.8 | 103.5 | 12.65 | 99.9 | 12.25 | 96.7 | 11.99 | 94.7 | 11.49 | 92.2 | 10.99 | 87.1 | 9.96 |
| | | 376.5 | 103.5 | 12.57 | 99.9 | 12.17 | 96.7 | 11.99 | 94.7 | 11.49 | 92.2 | 10.99 | 87.1 | 9.82 |
| | 45 | 100.4 | 103.5 | 13.74 | 99.9 | 12.54 | 96.7 | 11.89 | 94.7 | 11.35 | 92.2 | 10.85 | 87.1 | 9.75 |
| | | 125.5 | 103.5 | 13.39 | 99.9 | 12.36 | 96.7 | 11.75 | 94.7 | 11.23 | 92.2 | 10.72 | 87.1 | 9.69 |
| | | 251.0 | 103.5 | 12.05 | 99.9 | 11.65 | 96.7 | 11.23 | 94.7 | 10.72 | 92.2 | 10.23 | 87.1 | 9.46 |
| | | 313.8 | 103.5 | 11.89 | 99.9 | 11.43 | 96.7 | 11.23 | 94.7 | 10.72 | 92.2 | 10.23 | 87.1 | 9.19 |
| | | 376.5 | 103.5 | 11.81 | 99.9 | 11.33 | 96.7 | 11.23 | 94.7 | 10.72 | 92.2 | 10.23 | 87.1 | 9.06 |
| 110 | -5 | 100.4 | 34.8 | 16.25 | 34.6 | 15.10 | 34.4 | 14.06 | 34.0 | 13.47 | 34.1 | 13.08 | 33.3 | 11.70 |
| | | 125.5 | 36.1 | 16.54 | 35.8 | 15.40 | 35.6 | 14.37 | 35.2 | 13.76 | 35.3 | 13.36 | 34.5 | 11.97 |
| | | 251.0 | 40.8 | 17.64 | 40.5 | 16.57 | 40.3 | 15.59 | 39.8 | 14.92 | 39.8 | 14.50 | 39.1 | 13.00 |
| | | 313.8 | 45.0 | 18.78 | 44.7 | 17.69 | 44.5 | 16.80 | 44.0 | 16.11 | 44.0 | 15.64 | 43.1 | 13.99 |
| | | 376.5 | 47.1 | 19.35 | 46.8 | 18.27 | 46.6 | 17.41 | 46.1 | 16.71 | 46.1 | 16.21 | 45.2 | 14.50 |
| | 0 | 100.4 | 62.2 | 22.24 | 60.9 | 21.29 | 59.6 | 20.60 | 58.5 | 19.73 | 58.0 | 19.18 | 55.7 | 17.14 |
| | | 125.5 | 62.6 | 22.29 | 61.3 | 21.34 | 60.0 | 20.65 | 58.8 | 19.78 | 58.3 | 19.23 | 56.1 | 17.20 |
| | | 251.0 | 64.0 | 22.50 | 62.7 | 21.55 | 61.3 | 20.90 | 60.1 | 20.02 | 59.6 | 19.44 | 57.4 | 17.41 |
| | | 313.8 | 65.0 | 22.50 | 63.7 | 21.55 | 62.4 | 20.90 | 61.1 | 20.02 | 60.6 | 19.44 | 58.2 | 17.41 |
| | | 376.5 | 65.5 | 22.50 | 64.2 | 21.55 | 62.9 | 20.90 | 61.6 | 20.02 | 61.1 | 19.44 | 58.6 | 17.41 |
| | 5 | 100.4 | 90.8 | 23.90 | 88.7 | 23.00 | 86.6 | 22.42 | 84.7 | 21.47 | 81.4 | 20.87 | 77.4 | 18.69 |
| | | 125.5 | 91.1 | 24.01 | 88.9 | 23.11 | 86.6 | 22.53 | 84.7 | 21.58 | 81.4 | 20.98 | 77.4 | 18.78 |
| | | 251.0 | 92.3 | 24.43 | 89.5 | 23.54 | 86.7 | 22.99 | 84.7 | 22.03 | 81.4 | 21.39 | 77.4 | 19.15 |
| | | 313.8 | 92.9 | 24.59 | 89.7 | 23.70 | 86.7 | 23.14 | 84.7 | 22.18 | 81.4 | 21.55 | 77.4 | 19.29 |
| | | 376.5 | 93.1 | 24.67 | 89.9 | 23.78 | 86.7 | 23.22 | 84.7 | 22.26 | 81.4 | 21.63 | 77.4 | 19.35 |
| | 10 | 100.4 | 91.2 | 21.44 | 88.9 | 20.70 | 86.5 | 20.25 | 84.5 | 19.57 | 81.2 | 18.93 | 77.3 | 17.01 |
| | | 125.5 | 91.5 | 21.47 | 89.2 | 20.76 | 86.6 | 20.31 | 84.7 | 19.60 | 81.4 | 18.91 | 77.4 | 17.04 |
| | | 251.0 | 92.9 | 21.63 | 90.0 | 21.00 | 87.1 | 20.55 | 85.2 | 19.70 | 81.9 | 18.86 | 77.8 | 17.12 |
| | | 313.8 | 93.4 | 21.63 | 90.5 | 21.00 | 87.4 | 20.49 | 85.3 | 19.65 | 82.1 | 18.94 | 78.0 | 17.30 |
| | | 376.5 | 93.6 | 21.63 | 90.7 | 21.00 | 87.6 | 20.47 | 85.4 | 19.62 | 82.1 | 18.97 | 78.1 | 17.39 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 100.4 | 91.5 | 18.97 | 89.0 | 18.44 | 86.4 | 18.12 | 84.4 | 17.69 | 81.1 | 16.98 | 77.2 | 15.38 |
| | | 125.5 | 91.8 | 18.94 | 89.4 | 18.44 | 86.7 | 18.12 | 84.7 | 17.61 | 81.4 | 16.85 | 77.4 | 15.32 |
| | | 251.0 | 93.3 | 18.83 | 90.7 | 18.44 | 87.7 | 18.12 | 85.6 | 17.36 | 82.4 | 16.35 | 78.2 | 15.05 |
| | | 313.8 | 93.9 | 18.70 | 91.1 | 18.28 | 88.1 | 17.88 | 86.0 | 17.12 | 82.7 | 16.35 | 78.6 | 15.32 |
| | | 376.5 | 94.1 | 18.64 | 91.3 | 18.20 | 88.4 | 17.76 | 86.1 | 17.00 | 82.7 | 16.35 | 78.8 | 15.45 |
| | 20 | 100.4 | 93.1 | 16.37 | 90.5 | 15.98 | 87.6 | 15.59 | 85.3 | 15.32 | 82.2 | 14.88 | 77.8 | 13.92 |
| | | 125.5 | 93.6 | 16.40 | 90.9 | 15.98 | 87.9 | 15.59 | 85.6 | 15.32 | 82.4 | 14.82 | 78.2 | 13.90 |
| | | 251.0 | 95.6 | 16.54 | 92.1 | 15.98 | 88.9 | 15.59 | 86.9 | 15.32 | 83.4 | 14.56 | 79.4 | 13.79 |
| | | 313.8 | 96.2 | 16.54 | 92.9 | 15.98 | 89.4 | 15.59 | 87.1 | 15.05 | 83.9 | 14.56 | 79.6 | 13.79 |
| | | 376.5 | 96.4 | 16.54 | 93.3 | 15.98 | 89.7 | 15.59 | 87.3 | 14.92 | 84.2 | 14.56 | 79.8 | 13.79 |
| | 25 | 100.4 | 96.0 | 14.89 | 93.1 | 14.35 | 89.4 | 14.12 | 87.4 | 13.58 | 84.4 | 13.09 | 79.9 | 11.99 |
| | | 125.5 | 96.2 | 14.87 | 93.1 | 14.29 | 89.4 | 14.05 | 87.4 | 13.52 | 84.4 | 13.03 | 79.9 | 11.99 |
| | | 251.0 | 97.0 | 14.77 | 93.1 | 14.05 | 89.4 | 13.79 | 87.4 | 13.28 | 84.4 | 12.76 | 79.9 | 11.99 |
| | | 313.8 | 97.5 | 14.77 | 93.1 | 14.10 | 89.4 | 13.52 | 87.4 | 13.28 | 84.4 | 12.52 | 79.9 | 11.75 |
| | | 376.5 | 97.7 | 14.77 | 93.1 | 14.13 | 89.4 | 13.39 | 87.4 | 13.28 | 84.4 | 12.40 | 79.9 | 11.64 |
| | 30 | 100.4 | 97.5 | 13.58 | 93.1 | 13.09 | 89.4 | 12.59 | 87.4 | 12.32 | 84.4 | 11.56 | 79.9 | 10.80 |
| | | 125.5 | 97.5 | 13.52 | 93.1 | 13.03 | 89.4 | 12.52 | 87.4 | 12.25 | 84.4 | 11.49 | 79.9 | 10.72 |
| | | 251.0 | 97.5 | 13.28 | 93.1 | 12.76 | 89.4 | 12.25 | 87.4 | 11.99 | 84.4 | 11.23 | 79.9 | 10.46 |
| | | 313.8 | 97.5 | 13.18 | 93.1 | 12.52 | 89.4 | 11.99 | 87.4 | 11.75 | 84.4 | 11.23 | 79.9 | 10.46 |
| | | 376.5 | 97.5 | 13.12 | 93.1 | 12.40 | 89.4 | 11.86 | 87.4 | 11.64 | 84.4 | 11.23 | 79.9 | 10.46 |
| | 35 | 100.4 | 97.5 | 12.89 | 93.1 | 12.05 | 89.4 | 11.56 | 87.4 | 11.05 | 84.4 | 10.52 | 79.9 | 9.75 |
| | | 125.5 | 97.5 | 12.76 | 93.1 | 11.99 | 89.4 | 11.49 | 87.4 | 10.99 | 84.4 | 10.46 | 79.9 | 9.69 |
| | | 251.0 | 97.5 | 12.25 | 93.1 | 11.75 | 89.4 | 11.23 | 87.4 | 10.72 | 84.4 | 10.23 | 79.9 | 9.46 |
| | | 313.8 | 97.5 | 11.94 | 93.1 | 11.49 | 89.4 | 10.99 | 87.4 | 10.72 | 84.4 | 10.23 | 79.9 | 9.46 |
| | | 376.5 | 97.5 | 11.78 | 93.1 | 11.35 | 89.4 | 10.86 | 87.4 | 10.72 | 84.4 | 10.23 | 79.9 | 9.46 |
| | 40 | 100.4 | 97.5 | 12.12 | 93.1 | 11.62 | 89.4 | 10.85 | 87.4 | 10.29 | 84.4 | 9.75 | 79.9 | 8.98 |
| | | 125.5 | 97.5 | 11.99 | 93.1 | 11.49 | 89.4 | 10.72 | 87.4 | 10.23 | 84.4 | 9.69 | 79.9 | 8.93 |
| | | 251.0 | 97.5 | 11.49 | 93.1 | 10.99 | 89.4 | 10.23 | 87.4 | 9.96 | 84.4 | 9.46 | 79.9 | 8.69 |
| | | 313.8 | 97.5 | 11.33 | 93.1 | 10.72 | 89.4 | 10.23 | 87.4 | 9.69 | 84.4 | 9.19 | 79.9 | 8.43 |
| | | 376.5 | 97.5 | 11.25 | 93.1 | 10.59 | 89.4 | 10.23 | 87.4 | 9.56 | 84.4 | 9.06 | 79.9 | 8.30 |
| | 45 | 100.4 | 97.5 | 11.35 | 93.1 | 11.18 | 89.4 | 10.15 | 87.4 | 9.52 | 84.4 | 8.98 | 79.9 | 8.22 |
| | | 125.5 | 97.5 | 11.23 | 93.1 | 10.99 | 89.4 | 9.96 | 87.4 | 9.46 | 84.4 | 8.93 | 79.9 | 8.16 |
| | | 251.0 | 97.5 | 10.72 | 93.1 | 10.23 | 89.4 | 9.19 | 87.4 | 9.19 | 84.4 | 8.69 | 79.9 | 7.92 |
| | | 313.8 | 97.5 | 10.72 | 93.1 | 9.96 | 89.4 | 9.46 | 87.4 | 8.69 | 84.4 | 8.16 | 79.9 | 7.40 |
| | | 376.5 | 97.5 | 10.72 | 93.1 | 9.82 | 89.4 | 9.59 | 87.4 | 8.44 | 84.4 | 7.89 | 79.9 | 7.13 |
| 100 | -5 | 100.4 | 33.0 | 16.25 | 32.7 | 15.32 | 32.5 | 14.06 | 32.3 | 13.47 | 32.0 | 12.87 | 31.4 | 11.70 |
| | | 125.5 | 34.1 | 16.54 | 33.8 | 15.61 | 33.7 | 14.37 | 33.3 | 13.76 | 33.0 | 13.15 | 32.5 | 11.97 |
| | | 251.0 | 38.5 | 17.64 | 38.3 | 16.77 | 38.1 | 15.59 | 37.7 | 14.92 | 37.4 | 14.29 | 36.8 | 13.00 |
| | | 313.8 | 42.6 | 18.78 | 42.3 | 17.93 | 42.1 | 16.80 | 41.6 | 16.11 | 41.4 | 15.40 | 40.6 | 13.99 |
| | | 376.5 | 44.7 | 19.35 | 44.2 | 18.52 | 44.0 | 17.41 | 43.7 | 16.71 | 43.4 | 15.95 | 42.6 | 14.50 |
| | 0 | 100.4 | 58.8 | 22.24 | 57.5 | 21.58 | 56.4 | 20.60 | 55.4 | 19.73 | 54.4 | 18.89 | 52.5 | 17.14 |
| | | 125.5 | 59.2 | 22.29 | 57.9 | 21.63 | 56.7 | 20.65 | 55.7 | 19.78 | 54.7 | 18.94 | 52.8 | 17.20 |
| | | 251.0 | 60.6 | 22.50 | 59.3 | 21.85 | 58.0 | 20.90 | 57.0 | 20.02 | 56.0 | 19.15 | 54.0 | 17.41 |
| | | 313.8 | 61.4 | 22.50 | 60.1 | 21.85 | 58.9 | 20.90 | 57.8 | 20.02 | 56.9 | 19.15 | 54.9 | 17.41 |
| | | 376.5 | 61.9 | 22.50 | 60.6 | 21.85 | 59.3 | 20.90 | 58.2 | 20.02 | 57.2 | 19.15 | 55.3 | 17.41 |
| | 5 | 100.4 | 86.8 | 23.90 | 84.0 | 23.32 | 81.8 | 22.42 | 80.1 | 21.47 | 76.4 | 20.55 | 72.8 | 18.69 |
| | | 125.5 | 87.1 | 24.01 | 84.1 | 23.43 | 81.9 | 22.53 | 80.1 | 21.58 | 76.4 | 20.65 | 72.8 | 18.78 |
| | | 251.0 | 88.4 | 24.43 | 84.7 | 23.86 | 81.9 | 22.99 | 80.1 | 22.03 | 76.4 | 21.08 | 72.8 | 19.15 |
| | | 313.8 | 88.9 | 24.59 | 85.0 | 24.01 | 81.9 | 23.14 | 80.1 | 22.18 | 76.4 | 21.21 | 72.8 | 19.29 |
| | | 376.5 | 89.2 | 24.67 | 85.0 | 24.09 | 81.9 | 23.22 | 80.1 | 22.26 | 76.4 | 21.28 | 72.8 | 19.35 |
| | 10 | 100.4 | 87.3 | 21.37 | 84.2 | 20.90 | 81.9 | 20.25 | 80.1 | 19.57 | 76.4 | 18.61 | 72.8 | 17.01 |
| | | 125.5 | 87.6 | 21.47 | 84.3 | 20.98 | 81.9 | 20.31 | 80.1 | 19.60 | 76.4 | 18.62 | 72.8 | 17.04 |
| | | 251.0 | 88.4 | 21.87 | 84.8 | 21.23 | 81.9 | 20.55 | 80.1 | 19.70 | 76.4 | 18.70 | 72.8 | 17.12 |
| | | 313.8 | 89.0 | 21.79 | 85.2 | 21.23 | 81.9 | 20.49 | 80.1 | 19.65 | 76.4 | 18.65 | 72.8 | 17.04 |
| | | 376.5 | 89.2 | 21.75 | 85.3 | 21.23 | 81.9 | 20.47 | 80.1 | 19.62 | 76.4 | 18.62 | 72.8 | 17.00 |
| | 15 | 100.4 | 87.8 | 18.85 | 84.6 | 18.53 | 81.9 | 18.12 | 80.1 | 17.69 | 76.4 | 16.65 | 72.8 | 15.38 |
| | | 125.5 | 87.9 | 18.94 | 84.7 | 18.54 | 81.9 | 18.12 | 80.1 | 17.61 | 76.4 | 16.59 | 72.8 | 15.32 |
| | | 251.0 | 88.4 | 19.31 | 84.8 | 18.59 | 81.9 | 18.12 | 80.1 | 17.36 | 76.4 | 16.35 | 72.8 | 15.05 |
| | | 313.8 | 89.2 | 18.99 | 85.3 | 18.44 | 81.9 | 17.88 | 80.1 | 17.12 | 76.4 | 16.08 | 72.8 | 14.82 |
| | | 376.5 | 89.5 | 18.83 | 85.6 | 18.36 | 81.9 | 17.76 | 80.1 | 17.00 | 76.4 | 15.95 | 72.8 | 14.70 |
| | 20 | 100.4 | 88.3 | 16.11 | 85.0 | 15.70 | 81.9 | 15.32 | 80.1 | 15.11 | 76.4 | 14.12 | 72.8 | 13.42 |
| | | 125.5 | 88.6 | 16.19 | 85.1 | 15.72 | 81.9 | 15.32 | 80.1 | 15.05 | 76.4 | 14.05 | 72.8 | 13.28 |
| | | 251.0 | 89.9 | 16.49 | 85.3 | 15.77 | 81.9 | 15.32 | 80.1 | 14.82 | 76.4 | 13.79 | 72.8 | 12.76 |
| | | 313.8 | 90.5 | 16.19 | 86.1 | 15.64 | 81.9 | 15.05 | 80.1 | 14.56 | 76.4 | 13.52 | 72.8 | 12.52 |
| | | 376.5 | 90.7 | 16.05 | 86.5 | 15.57 | 81.9 | 14.92 | 80.1 | 14.42 | 76.4 | 13.39 | 72.8 | 12.40 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 100.4 | 89.4 | 14.09 | 86.4 | 13.65 | 81.9 | 13.09 | 80.1 | 12.59 | 76.4 | 11.82 | 72.8 | 10.72 |
| | | 125.5 | 89.7 | 14.10 | 86.4 | 13.58 | 81.9 | 13.03 | 80.1 | 12.52 | 76.4 | 11.75 | 72.8 | 10.72 |
| | | 251.0 | 91.0 | 14.15 | 86.4 | 13.28 | 81.9 | 12.76 | 80.1 | 12.25 | 76.4 | 11.49 | 72.8 | 10.72 |
| | | 313.8 | 91.5 | 13.84 | 86.4 | 13.18 | 81.9 | 12.52 | 80.1 | 11.99 | 76.4 | 11.49 | 72.8 | 10.46 |
| | | 376.5 | 91.7 | 13.68 | 86.4 | 13.12 | 81.9 | 12.40 | 80.1 | 11.86 | 76.4 | 11.49 | 72.8 | 10.33 |
| | 30 | 100.4 | 91.5 | 12.82 | 86.4 | 11.82 | 81.9 | 11.02 | 80.1 | 10.80 | 76.4 | 9.96 | 72.8 | 9.52 |
| | | 125.5 | 91.5 | 12.76 | 86.4 | 11.75 | 81.9 | 10.99 | 80.1 | 10.72 | 76.4 | 9.96 | 72.8 | 9.46 |
| | | 251.0 | 91.5 | 12.52 | 86.4 | 11.49 | 81.9 | 10.88 | 80.1 | 10.46 | 76.4 | 9.96 | 72.8 | 9.19 |
| | | 313.8 | 91.5 | 12.25 | 86.4 | 11.49 | 81.9 | 10.72 | 80.1 | 10.46 | 76.4 | 9.69 | 72.8 | 9.19 |
| | | 376.5 | 91.5 | 12.13 | 86.4 | 11.49 | 81.9 | 10.64 | 80.1 | 10.46 | 76.4 | 9.56 | 72.8 | 9.19 |
| | 35 | 100.4 | 91.5 | 11.89 | 86.4 | 10.85 | 81.9 | 9.72 | 80.1 | 9.52 | 76.4 | 8.98 | 72.8 | 8.22 |
| | | 125.5 | 91.5 | 11.75 | 86.4 | 10.72 | 81.9 | 9.69 | 80.1 | 9.46 | 76.4 | 8.93 | 72.8 | 8.16 |
| | | 251.0 | 91.5 | 11.23 | 86.4 | 10.23 | 81.9 | 9.58 | 80.1 | 9.19 | 76.4 | 8.69 | 72.8 | 7.92 |
| | | 313.8 | 91.5 | 11.23 | 86.4 | 10.23 | 81.9 | 9.46 | 80.1 | 9.19 | 76.4 | 8.69 | 72.8 | 7.92 |
| | | 376.5 | 91.5 | 11.23 | 86.4 | 10.23 | 81.9 | 9.39 | 80.1 | 9.19 | 76.4 | 8.69 | 72.8 | 7.92 |
| | 40 | 100.4 | 91.5 | 11.12 | 86.4 | 10.09 | 81.9 | 8.71 | 80.1 | 8.49 | 76.4 | 7.99 | 72.8 | 7.46 |
| | | 125.5 | 91.5 | 10.99 | 86.4 | 9.96 | 81.9 | 8.69 | 80.1 | 8.43 | 76.4 | 7.92 | 72.8 | 7.40 |
| | | 251.0 | 91.5 | 10.46 | 86.4 | 9.46 | 81.9 | 8.58 | 80.1 | 8.16 | 76.4 | 7.67 | 72.8 | 7.16 |
| | | 313.8 | 91.5 | 10.23 | 86.4 | 9.46 | 81.9 | 8.43 | 80.1 | 8.16 | 76.4 | 7.67 | 72.8 | 7.16 |
| | | 376.5 | 91.5 | 10.10 | 86.4 | 9.46 | 81.9 | 8.35 | 80.1 | 8.16 | 76.4 | 7.67 | 72.8 | 7.16 |
| | 45 | 100.4 | 91.5 | 10.36 | 86.4 | 9.31 | 81.9 | 7.68 | 80.1 | 7.46 | 76.4 | 6.96 | 72.8 | 6.69 |
| | | 125.5 | 91.5 | 10.23 | 86.4 | 9.19 | 81.9 | 7.67 | 80.1 | 7.40 | 76.4 | 6.89 | 72.8 | 6.63 |
| | | 251.0 | 91.5 | 9.69 | 86.4 | 8.69 | 81.9 | 7.56 | 80.1 | 7.16 | 76.4 | 6.63 | 72.8 | 6.39 |
| | | 313.8 | 91.5 | 9.19 | 86.4 | 8.69 | 81.9 | 7.40 | 80.1 | 7.16 | 76.4 | 6.63 | 72.8 | 6.39 |
| | | 376.5 | 91.5 | 8.94 | 86.4 | 8.69 | 81.9 | 7.32 | 80.1 | 7.16 | 76.4 | 6.63 | 72.8 | 6.39 |
| 90 | -5 | 100.4 | 31.1 | 15.08 | 30.1 | 13.74 | 29.2 | 12.07 | 29.1 | 11.50 | 28.8 | 11.08 | 28.3 | 9.95 |
| | | 125.5 | 32.2 | 15.35 | 31.2 | 13.99 | 30.2 | 12.33 | 30.0 | 11.75 | 29.8 | 11.33 | 29.3 | 10.17 |
| | | 251.0 | 36.4 | 16.38 | 35.3 | 15.03 | 34.3 | 13.39 | 34.0 | 12.76 | 33.8 | 12.31 | 33.0 | 11.04 |
| | | 313.8 | 40.3 | 17.41 | 39.0 | 16.08 | 37.8 | 14.45 | 37.5 | 13.76 | 37.2 | 13.26 | 36.6 | 11.91 |
| | | 376.5 | 42.1 | 17.93 | 40.8 | 16.62 | 39.6 | 14.99 | 39.3 | 14.26 | 39.0 | 13.74 | 38.3 | 12.35 |
| | 0 | 100.4 | 55.6 | 20.55 | 53.0 | 19.29 | 50.6 | 17.71 | 49.9 | 16.88 | 49.0 | 16.25 | 47.1 | 14.59 |
| | | 125.5 | 55.9 | 20.60 | 53.3 | 19.34 | 50.9 | 17.75 | 50.1 | 16.93 | 49.3 | 16.30 | 47.5 | 14.64 |
| | | 251.0 | 57.2 | 20.82 | 54.6 | 19.54 | 52.1 | 17.93 | 51.3 | 17.12 | 50.4 | 16.49 | 48.6 | 14.80 |
| | | 313.8 | 58.0 | 20.82 | 55.4 | 19.54 | 53.0 | 17.93 | 52.0 | 17.12 | 51.3 | 16.49 | 49.4 | 14.80 |
| | | 376.5 | 58.5 | 20.82 | 55.8 | 19.54 | 53.3 | 17.93 | 52.5 | 17.12 | 51.7 | 16.49 | 49.7 | 14.80 |
| | 5 | 100.4 | 78.5 | 22.06 | 76.0 | 20.82 | 73.6 | 19.27 | 72.1 | 18.37 | 68.9 | 17.68 | 65.6 | 15.87 |
| | | 125.5 | 78.6 | 22.16 | 75.9 | 20.92 | 73.6 | 19.37 | 72.1 | 18.47 | 68.9 | 17.77 | 65.6 | 15.95 |
| | | 251.0 | 79.0 | 22.56 | 75.7 | 21.31 | 73.6 | 19.73 | 72.1 | 18.83 | 68.9 | 18.15 | 65.6 | 16.27 |
| | | 313.8 | 79.4 | 22.69 | 75.9 | 21.45 | 73.6 | 19.89 | 72.1 | 18.97 | 68.9 | 18.28 | 65.6 | 16.40 |
| | | 376.5 | 79.6 | 22.75 | 76.1 | 21.52 | 73.6 | 19.97 | 72.1 | 19.03 | 68.9 | 18.34 | 65.6 | 16.47 |
| | 10 | 100.4 | 79.0 | 19.48 | 76.2 | 18.53 | 73.6 | 17.44 | 72.1 | 16.73 | 68.9 | 16.05 | 65.6 | 14.46 |
| | | 125.5 | 79.0 | 19.49 | 76.2 | 18.54 | 73.6 | 17.46 | 72.1 | 16.74 | 68.9 | 16.03 | 65.6 | 14.48 |
| | | 251.0 | 78.8 | 19.54 | 75.8 | 18.62 | 73.6 | 17.54 | 72.1 | 16.82 | 68.9 | 15.98 | 65.6 | 14.53 |
| | | 313.8 | 79.3 | 19.49 | 76.0 | 18.56 | 73.6 | 17.49 | 72.1 | 16.77 | 68.9 | 16.03 | 65.6 | 14.58 |
| | | 376.5 | 79.6 | 19.46 | 76.2 | 18.54 | 73.6 | 17.46 | 72.1 | 16.74 | 68.9 | 16.06 | 65.6 | 14.61 |
| | 15 | 100.4 | 79.3 | 16.87 | 76.5 | 16.25 | 73.6 | 15.65 | 72.1 | 15.11 | 68.9 | 14.42 | 65.6 | 13.09 |
| | | 125.5 | 79.3 | 16.80 | 76.4 | 16.19 | 73.6 | 15.59 | 72.1 | 15.05 | 68.9 | 14.29 | 65.6 | 13.03 |
| | | 251.0 | 78.7 | 16.54 | 75.9 | 15.92 | 73.6 | 15.32 | 72.1 | 14.82 | 68.9 | 13.79 | 65.6 | 12.76 |
| | | 313.8 | 79.3 | 16.30 | 76.1 | 15.69 | 73.6 | 15.05 | 72.1 | 14.56 | 68.9 | 13.79 | 65.6 | 12.76 |
| | | 376.5 | 79.5 | 16.18 | 76.2 | 15.57 | 73.6 | 14.92 | 72.1 | 14.42 | 68.9 | 13.79 | 65.6 | 12.76 |
| | 20 | 100.4 | 79.8 | 14.24 | 76.9 | 13.83 | 73.6 | 13.36 | 72.1 | 12.82 | 68.9 | 12.38 | 65.6 | 11.62 |
| | | 125.5 | 79.8 | 14.24 | 76.7 | 13.79 | 73.6 | 13.28 | 72.1 | 12.76 | 68.9 | 12.25 | 65.6 | 11.49 |
| | | 251.0 | 79.5 | 14.24 | 76.1 | 13.63 | 73.6 | 13.03 | 72.1 | 12.52 | 68.9 | 11.75 | 65.6 | 10.99 |
| | | 313.8 | 79.7 | 13.99 | 76.4 | 13.52 | 73.6 | 13.03 | 72.1 | 12.52 | 68.9 | 11.75 | 65.6 | 10.99 |
| | | 376.5 | 79.8 | 13.88 | 76.4 | 13.47 | 73.6 | 13.03 | 72.1 | 12.52 | 68.9 | 11.75 | 65.6 | 10.99 |
| | 25 | 100.4 | 81.2 | 12.44 | 77.8 | 11.78 | 73.6 | 11.29 | 72.1 | 10.72 | 68.9 | 10.29 | 65.6 | 9.52 |
| | | 125.5 | 81.4 | 12.41 | 77.8 | 11.75 | 73.6 | 11.23 | 72.1 | 10.72 | 68.9 | 10.23 | 65.6 | 9.46 |
| | | 251.0 | 82.1 | 12.31 | 77.8 | 11.65 | 73.6 | 10.99 | 72.1 | 10.72 | 68.9 | 9.96 | 65.6 | 9.19 |
| | | 313.8 | 82.4 | 11.99 | 77.8 | 11.38 | 73.6 | 10.99 | 72.1 | 10.46 | 68.9 | 9.96 | 65.6 | 9.19 |
| | | 376.5 | 82.6 | 11.83 | 77.8 | 11.25 | 73.6 | 10.99 | 72.1 | 10.33 | 68.9 | 9.96 | 65.6 | 9.19 |
| | 30 | 100.4 | 82.4 | 11.29 | 77.8 | 10.52 | 73.6 | 9.75 | 72.1 | 9.52 | 68.9 | 8.98 | 65.6 | 8.16 |
| | | 125.5 | 82.4 | 11.23 | 77.8 | 10.46 | 73.6 | 9.69 | 72.1 | 9.46 | 68.9 | 8.93 | 65.6 | 8.16 |
| | | 251.0 | 82.4 | 10.99 | 77.8 | 10.23 | 73.6 | 9.46 | 72.1 | 9.19 | 68.9 | 8.69 | 65.6 | 8.16 |
| | | 313.8 | 82.4 | 10.72 | 77.8 | 9.96 | 73.6 | 9.46 | 72.1 | 9.19 | 68.9 | 8.69 | 65.6 | 7.92 |
| | | 376.5 | 82.4 | 10.59 | 77.8 | 9.82 | 73.6 | 9.46 | 72.1 | 9.19 | 68.9 | 8.69 | 65.6 | 7.81 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 100.4 | 82.4 | 10.29 | 77.8 | 9.52 | 73.6 | 8.76 | 72.1 | 8.49 | 68.9 | 7.99 | 65.6 | 7.46 |
| | | 125.5 | 82.4 | 10.23 | 77.8 | 9.46 | 73.6 | 8.69 | 72.1 | 8.43 | 68.9 | 7.92 | 65.6 | 7.40 |
| | | 251.0 | 82.4 | 9.96 | 77.8 | 9.19 | 73.6 | 8.43 | 72.1 | 8.16 | 68.9 | 7.67 | 65.6 | 7.16 |
| | | 313.8 | 82.4 | 9.69 | 77.8 | 8.93 | 73.6 | 8.16 | 72.1 | 7.92 | 68.9 | 7.67 | 65.6 | 7.16 |
| | | 376.5 | 82.4 | 9.56 | 77.8 | 8.79 | 73.6 | 8.03 | 72.1 | 7.81 | 68.9 | 7.67 | 65.6 | 7.16 |
| | 40 | 100.4 | 82.4 | 9.59 | 77.8 | 8.76 | 73.6 | 7.73 | 72.1 | 7.46 | 68.9 | 7.23 | 65.6 | 6.69 |
| | | 125.5 | 82.4 | 9.46 | 77.8 | 8.69 | 73.6 | 7.67 | 72.1 | 7.40 | 68.9 | 7.16 | 65.6 | 6.63 |
| | | 251.0 | 82.4 | 8.93 | 77.8 | 8.43 | 73.6 | 7.40 | 72.1 | 7.16 | 68.9 | 6.89 | 65.6 | 6.39 |
| | | 313.8 | 82.4 | 8.93 | 77.8 | 8.43 | 73.6 | 7.40 | 72.1 | 7.16 | 68.9 | 6.89 | 65.6 | 6.39 |
| | | 376.5 | 82.4 | 8.93 | 77.8 | 8.43 | 73.6 | 7.40 | 72.1 | 7.16 | 68.9 | 6.89 | 65.6 | 6.39 |
| | 45 | 100.4 | 82.4 | 8.88 | 77.8 | 7.99 | 73.6 | 6.69 | 72.1 | 6.46 | 68.9 | 6.46 | 65.6 | 5.93 |
| | | 125.5 | 82.4 | 8.69 | 77.8 | 7.92 | 73.6 | 6.63 | 72.1 | 6.39 | 68.9 | 6.39 | 65.6 | 5.86 |
| | | 251.0 | 82.4 | 7.92 | 77.8 | 7.67 | 73.6 | 6.39 | 72.1 | 6.13 | 68.9 | 6.13 | 65.6 | 5.63 |
| | | 313.8 | 82.4 | 8.16 | 77.8 | 7.92 | 73.6 | 6.63 | 72.1 | 6.39 | 68.9 | 6.13 | 65.6 | 5.63 |
| | | 376.5 | 82.4 | 8.28 | 77.8 | 8.06 | 73.6 | 6.75 | 72.1 | 6.53 | 68.9 | 6.13 | 65.6 | 5.63 |
| 80 | -5 | 100.4 | 29.4 | 10.75 | 27.6 | 10.34 | 26.1 | 9.90 | 25.8 | 9.57 | 25.7 | 9.12 | 25.2 | 8.41 |
| | | 125.5 | 30.4 | 10.99 | 28.5 | 10.56 | 27.0 | 10.12 | 26.7 | 9.77 | 26.5 | 9.33 | 26.0 | 8.58 |
| | | 251.0 | 34.3 | 11.94 | 32.2 | 11.46 | 30.5 | 10.96 | 30.2 | 10.59 | 30.0 | 10.12 | 29.4 | 9.30 |
| | | 313.8 | 38.0 | 12.87 | 35.6 | 12.36 | 33.7 | 11.83 | 33.3 | 11.43 | 33.1 | 10.91 | 32.5 | 10.04 |
| | | 376.5 | 39.8 | 13.33 | 37.2 | 12.82 | 35.3 | 12.27 | 34.9 | 11.86 | 34.8 | 11.31 | 34.0 | 10.41 |
| | 0 | 100.4 | 52.5 | 15.78 | 48.4 | 15.14 | 45.0 | 14.51 | 44.2 | 14.01 | 43.6 | 13.36 | 41.9 | 12.30 |
| | | 125.5 | 52.8 | 15.82 | 48.7 | 15.19 | 45.3 | 14.56 | 44.5 | 14.05 | 43.9 | 13.39 | 42.2 | 12.33 |
| | | 251.0 | 54.1 | 16.00 | 49.9 | 15.37 | 46.4 | 14.72 | 45.5 | 14.21 | 45.0 | 13.55 | 43.2 | 12.47 |
| | | 313.8 | 54.9 | 16.00 | 50.6 | 15.37 | 47.1 | 14.72 | 46.3 | 14.21 | 45.7 | 13.55 | 43.9 | 12.47 |
| | | 376.5 | 55.2 | 16.00 | 51.0 | 15.37 | 47.6 | 14.72 | 46.6 | 14.21 | 46.0 | 13.55 | 44.2 | 12.47 |
| | 5 | 100.4 | 72.6 | 17.15 | 68.5 | 16.51 | 65.5 | 15.76 | 64.0 | 15.24 | 61.3 | 14.53 | 58.3 | 13.37 |
| | | 125.5 | 72.8 | 17.25 | 68.6 | 16.59 | 65.5 | 15.84 | 64.0 | 15.32 | 61.3 | 14.61 | 58.3 | 13.44 |
| | | 251.0 | 73.3 | 17.61 | 69.2 | 16.90 | 65.6 | 16.19 | 64.0 | 15.64 | 61.3 | 14.89 | 58.3 | 13.74 |
| | | 313.8 | 73.3 | 17.72 | 69.1 | 17.04 | 65.6 | 16.30 | 64.0 | 15.75 | 61.3 | 15.00 | 58.3 | 13.82 |
| | | 376.5 | 73.3 | 17.77 | 69.1 | 17.11 | 65.6 | 16.35 | 64.0 | 15.79 | 61.3 | 15.05 | 58.3 | 13.85 |
| | 10 | 100.4 | 73.0 | 15.79 | 68.8 | 15.08 | 65.5 | 14.31 | 64.0 | 13.91 | 61.3 | 13.17 | 58.3 | 12.19 |
| | | 125.5 | 73.1 | 15.77 | 68.9 | 15.05 | 65.5 | 14.32 | 64.0 | 13.92 | 61.3 | 13.18 | 58.3 | 12.20 |
| | | 251.0 | 73.3 | 15.69 | 69.2 | 14.97 | 65.6 | 14.34 | 64.0 | 13.95 | 61.3 | 13.20 | 58.3 | 12.23 |
| | | 313.8 | 73.3 | 15.64 | 69.1 | 15.03 | 65.6 | 14.40 | 64.0 | 13.87 | 61.3 | 13.12 | 58.3 | 12.16 |
| | | 376.5 | 73.3 | 15.61 | 69.1 | 15.05 | 65.6 | 14.42 | 64.0 | 13.83 | 61.3 | 13.09 | 58.3 | 12.11 |
| | 15 | 100.4 | 73.3 | 14.42 | 69.1 | 13.65 | 65.6 | 12.82 | 64.0 | 12.59 | 61.3 | 11.82 | 58.3 | 11.05 |
| | | 125.5 | 73.3 | 14.29 | 69.1 | 13.52 | 65.6 | 12.76 | 64.0 | 12.52 | 61.3 | 11.75 | 58.3 | 10.99 |
| | | 251.0 | 73.3 | 13.79 | 69.1 | 13.03 | 65.6 | 12.52 | 64.0 | 12.25 | 61.3 | 11.49 | 58.3 | 10.72 |
| | | 313.8 | 73.3 | 13.52 | 69.1 | 13.03 | 65.6 | 12.52 | 64.0 | 11.99 | 61.3 | 11.23 | 58.3 | 10.46 |
| | | 376.5 | 73.3 | 13.39 | 69.1 | 13.03 | 65.6 | 12.52 | 64.0 | 11.86 | 61.3 | 11.10 | 58.3 | 10.33 |
| | 20 | 100.4 | 73.3 | 12.05 | 69.1 | 11.56 | 65.6 | 10.99 | 64.0 | 10.80 | 61.3 | 10.29 | 58.3 | 9.52 |
| | | 125.5 | 73.3 | 11.99 | 69.1 | 11.49 | 65.6 | 10.99 | 64.0 | 10.72 | 61.3 | 10.23 | 58.3 | 9.46 |
| | | 251.0 | 73.3 | 11.75 | 69.1 | 11.23 | 65.6 | 10.99 | 64.0 | 10.46 | 61.3 | 9.96 | 58.3 | 9.19 |
| | | 313.8 | 73.3 | 11.49 | 69.1 | 10.99 | 65.6 | 10.72 | 64.0 | 10.46 | 61.3 | 9.69 | 58.3 | 9.19 |
| | | 376.5 | 73.3 | 11.35 | 69.1 | 10.86 | 65.6 | 10.59 | 64.0 | 10.46 | 61.3 | 9.56 | 58.3 | 9.19 |
| | 25 | 100.4 | 73.3 | 10.80 | 69.1 | 10.02 | 65.6 | 9.46 | 64.0 | 9.26 | 61.3 | 8.76 | 58.3 | 8.22 |
| | | 125.5 | 73.3 | 10.72 | 69.1 | 9.96 | 65.6 | 9.46 | 64.0 | 9.19 | 61.3 | 8.69 | 58.3 | 8.16 |
| | | 251.0 | 73.3 | 10.46 | 69.1 | 9.69 | 65.6 | 9.46 | 64.0 | 8.93 | 61.3 | 8.43 | 58.3 | 7.92 |
| | | 313.8 | 73.3 | 10.23 | 69.1 | 9.69 | 65.6 | 9.19 | 64.0 | 8.93 | 61.3 | 8.43 | 58.3 | 7.92 |
| | | 376.5 | 73.3 | 10.10 | 69.1 | 9.69 | 65.6 | 9.06 | 64.0 | 8.93 | 61.3 | 8.43 | 58.3 | 7.92 |
| | 30 | 100.4 | 73.3 | 9.52 | 69.1 | 8.98 | 65.6 | 8.49 | 64.0 | 8.22 | 61.3 | 7.73 | 58.3 | 7.23 |
| | | 125.5 | 73.3 | 9.46 | 69.1 | 8.93 | 65.6 | 8.43 | 64.0 | 8.16 | 61.3 | 7.67 | 58.3 | 7.16 |
| | | 251.0 | 73.3 | 9.19 | 69.1 | 8.69 | 65.6 | 8.16 | 64.0 | 7.92 | 61.3 | 7.40 | 58.3 | 6.89 |
| | | 313.8 | 73.3 | 9.19 | 69.1 | 8.69 | 65.6 | 8.16 | 64.0 | 7.92 | 61.3 | 7.40 | 58.3 | 6.89 |
| | | 376.5 | 73.3 | 9.19 | 69.1 | 8.69 | 65.6 | 8.16 | 64.0 | 7.92 | 61.3 | 7.40 | 58.3 | 6.89 |
| | 35 | 100.4 | 73.3 | 8.76 | 69.1 | 8.22 | 65.6 | 7.46 | 64.0 | 7.16 | 61.3 | 6.96 | 58.3 | 6.39 |
| | | 125.5 | 73.3 | 8.69 | 69.1 | 8.16 | 65.6 | 7.40 | 64.0 | 7.16 | 61.3 | 6.89 | 58.3 | 6.39 |
| | | 251.0 | 73.3 | 8.43 | 69.1 | 7.92 | 65.6 | 7.16 | 64.0 | 7.16 | 61.3 | 6.63 | 58.3 | 6.39 |
| | | 313.8 | 73.3 | 8.43 | 69.1 | 7.67 | 65.6 | 7.16 | 64.0 | 6.89 | 61.3 | 6.63 | 58.3 | 6.13 |
| | | 376.5 | 73.3 | 8.43 | 69.1 | 7.53 | 65.6 | 7.16 | 64.0 | 6.76 | 61.3 | 6.63 | 58.3 | 5.99 |
| | 40 | 100.4 | 73.3 | 8.29 | 69.1 | 7.46 | 65.6 | 6.63 | 64.0 | 6.69 | 61.3 | 6.13 | 58.3 | 5.93 |
| | | 125.5 | 73.3 | 8.16 | 69.1 | 7.40 | 65.6 | 6.63 | 64.0 | 6.63 | 61.3 | 6.13 | 58.3 | 5.86 |
| | | 251.0 | 73.3 | 7.67 | 69.1 | 7.16 | 65.6 | 6.63 | 64.0 | 6.39 | 61.3 | 6.13 | 58.3 | 5.63 |
| | | 313.8 | 73.3 | 7.67 | 69.1 | 7.16 | 65.6 | 6.39 | 64.0 | 6.39 | 61.3 | 6.13 | 58.3 | 5.63 |
| | | 376.5 | 73.3 | 7.67 | 69.1 | 7.16 | 65.6 | 6.28 | 64.0 | 6.39 | 61.3 | 6.13 | 58.3 | 5.63 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 100.4 | 73.3 | 7.86 | 69.1 | 6.69 | 65.6 | 5.80 | 64.0 | 6.26 | 61.3 | 5.30 | 58.3 | 5.49 |
| | | 125.5 | 73.3 | 7.67 | 69.1 | 6.63 | 65.6 | 5.86 | 64.0 | 6.13 | 61.3 | 5.36 | 58.3 | 5.36 |
| | | 251.0 | 73.3 | 6.89 | 69.1 | 6.39 | 65.6 | 6.13 | 64.0 | 5.63 | 61.3 | 5.63 | 58.3 | 4.86 |
| | | 313.8 | 73.3 | 6.89 | 69.1 | 6.63 | 65.6 | 5.63 | 64.0 | 5.86 | 61.3 | 5.63 | 58.3 | 5.09 |
| | | 376.5 | 73.3 | 6.89 | 69.1 | 6.75 | 65.6 | 5.37 | 64.0 | 5.98 | 61.3 | 5.63 | 58.3 | 5.22 |
| 70 | -5 | 100.4 | 25.7 | 9.23 | 24.1 | 8.79 | 22.8 | 8.50 | 22.6 | 8.02 | 22.4 | 7.73 | 22.1 | 7.03 |
| | | 125.5 | 26.5 | 9.43 | 24.9 | 8.98 | 23.6 | 8.69 | 23.3 | 8.19 | 23.2 | 7.90 | 22.8 | 7.18 |
| | | 251.0 | 30.0 | 10.23 | 28.1 | 9.74 | 26.6 | 9.43 | 26.3 | 8.87 | 26.2 | 8.56 | 25.7 | 7.79 |
| | | 313.8 | 33.2 | 11.04 | 31.2 | 10.51 | 29.4 | 10.17 | 29.2 | 9.56 | 28.9 | 9.25 | 28.4 | 8.40 |
| | | 376.5 | 34.8 | 11.45 | 32.7 | 10.90 | 30.9 | 10.54 | 30.6 | 9.91 | 30.4 | 9.59 | 29.7 | 8.71 |
| | 0 | 100.4 | 45.9 | 13.51 | 42.4 | 12.88 | 39.3 | 12.46 | 38.7 | 11.72 | 38.1 | 11.32 | 36.7 | 10.31 |
| | | 125.5 | 46.2 | 13.55 | 42.7 | 12.92 | 39.6 | 12.49 | 39.0 | 11.75 | 38.3 | 11.35 | 36.9 | 10.33 |
| | | 251.0 | 47.3 | 13.71 | 43.7 | 13.05 | 40.5 | 12.65 | 39.8 | 11.89 | 39.2 | 11.49 | 37.8 | 10.43 |
| | | 313.8 | 47.9 | 13.71 | 44.4 | 13.05 | 41.1 | 12.65 | 40.5 | 11.89 | 39.8 | 11.49 | 38.4 | 10.43 |
| | | 376.5 | 48.3 | 13.71 | 44.7 | 13.05 | 41.4 | 12.65 | 40.8 | 11.89 | 40.1 | 11.49 | 38.7 | 10.43 |
| | 5 | 100.4 | 63.4 | 14.72 | 60.1 | 14.01 | 57.2 | 13.55 | 56.0 | 12.78 | 53.5 | 12.32 | 51.0 | 11.19 |
| | | 125.5 | 63.5 | 14.80 | 60.1 | 14.07 | 57.2 | 13.63 | 56.0 | 12.84 | 53.5 | 12.39 | 51.0 | 11.26 |
| | | 251.0 | 64.0 | 15.08 | 60.6 | 14.37 | 57.3 | 13.92 | 56.0 | 13.07 | 53.5 | 12.65 | 51.0 | 11.49 |
| | | 313.8 | 64.0 | 15.19 | 60.6 | 14.48 | 57.3 | 14.02 | 56.0 | 13.18 | 53.5 | 12.73 | 51.0 | 11.57 |
| | | 376.5 | 64.0 | 15.24 | 60.5 | 14.53 | 57.3 | 14.08 | 56.0 | 13.23 | 53.5 | 12.77 | 51.0 | 11.61 |
| | 10 | 100.4 | 63.7 | 13.55 | 60.3 | 12.81 | 57.3 | 12.33 | 56.0 | 11.65 | 53.5 | 11.18 | 51.0 | 10.23 |
| | | 125.5 | 63.7 | 13.52 | 60.3 | 12.79 | 57.3 | 12.31 | 56.0 | 11.65 | 53.5 | 11.18 | 51.0 | 10.23 |
| | | 251.0 | 64.0 | 13.42 | 60.6 | 12.68 | 57.3 | 12.20 | 56.0 | 11.65 | 53.5 | 11.18 | 51.0 | 10.23 |
| | | 313.8 | 64.0 | 13.47 | 60.6 | 12.73 | 57.3 | 12.25 | 56.0 | 11.70 | 53.5 | 11.10 | 51.0 | 10.25 |
| | | 376.5 | 64.0 | 13.50 | 60.6 | 12.76 | 57.3 | 12.28 | 56.0 | 11.73 | 53.5 | 11.05 | 51.0 | 10.26 |
| | 15 | 100.4 | 64.0 | 12.38 | 60.6 | 11.62 | 57.3 | 11.12 | 56.0 | 10.52 | 53.5 | 10.02 | 51.0 | 9.26 |
| | | 125.5 | 64.0 | 12.25 | 60.6 | 11.49 | 57.3 | 10.99 | 56.0 | 10.46 | 53.5 | 9.96 | 51.0 | 9.19 |
| | | 251.0 | 64.0 | 11.75 | 60.6 | 10.99 | 57.3 | 10.46 | 56.0 | 10.23 | 53.5 | 9.69 | 51.0 | 8.93 |
| | | 313.8 | 64.0 | 11.75 | 60.6 | 10.99 | 57.3 | 10.46 | 56.0 | 10.23 | 53.5 | 9.46 | 51.0 | 8.93 |
| | | 376.5 | 64.0 | 11.75 | 60.6 | 10.99 | 57.3 | 10.46 | 56.0 | 10.23 | 53.5 | 9.34 | 51.0 | 8.93 |
| | 20 | 100.4 | 64.0 | 10.29 | 60.6 | 9.75 | 57.3 | 9.52 | 56.0 | 9.26 | 53.5 | 8.76 | 51.0 | 8.22 |
| | | 125.5 | 64.0 | 10.23 | 60.6 | 9.69 | 57.3 | 9.46 | 56.0 | 9.19 | 53.5 | 8.69 | 51.0 | 8.16 |
| | | 251.0 | 64.0 | 9.96 | 60.6 | 9.46 | 57.3 | 9.19 | 56.0 | 8.93 | 53.5 | 8.43 | 51.0 | 7.92 |
| | | 313.8 | 64.0 | 9.96 | 60.6 | 9.46 | 57.3 | 9.19 | 56.0 | 8.69 | 53.5 | 8.43 | 51.0 | 7.67 |
| | | 376.5 | 64.0 | 9.96 | 60.6 | 9.46 | 57.3 | 9.19 | 56.0 | 8.57 | 53.5 | 8.43 | 51.0 | 7.53 |
| | 25 | 100.4 | 64.0 | 9.26 | 60.6 | 8.76 | 57.3 | 8.22 | 56.0 | 7.99 | 53.5 | 7.40 | 51.0 | 6.89 |
| | | 125.5 | 64.0 | 9.19 | 60.6 | 8.69 | 57.3 | 8.16 | 56.0 | 7.92 | 53.5 | 7.40 | 51.0 | 6.89 |
| | | 251.0 | 64.0 | 8.93 | 60.6 | 8.43 | 57.3 | 7.92 | 56.0 | 7.67 | 53.5 | 7.40 | 51.0 | 6.89 |
| | | 313.8 | 64.0 | 8.69 | 60.6 | 8.16 | 57.3 | 7.92 | 56.0 | 7.67 | 53.5 | 7.16 | 51.0 | 6.89 |
| | | 376.5 | 64.0 | 8.57 | 60.6 | 8.03 | 57.3 | 7.92 | 56.0 | 7.67 | 53.5 | 7.04 | 51.0 | 6.89 |
| | 30 | 100.4 | 64.0 | 8.22 | 60.6 | 7.73 | 57.3 | 7.23 | 56.0 | 6.89 | 53.5 | 6.69 | 51.0 | 6.13 |
| | | 125.5 | 64.0 | 8.16 | 60.6 | 7.67 | 57.3 | 7.16 | 56.0 | 6.89 | 53.5 | 6.63 | 51.0 | 6.13 |
| | | 251.0 | 64.0 | 7.92 | 60.6 | 7.40 | 57.3 | 6.89 | 56.0 | 6.89 | 53.5 | 6.39 | 51.0 | 6.13 |
| | | 313.8 | 64.0 | 7.92 | 60.6 | 7.40 | 57.3 | 6.89 | 56.0 | 6.63 | 53.5 | 6.39 | 51.0 | 6.13 |
| | | 376.5 | 64.0 | 7.92 | 60.6 | 7.40 | 57.3 | 6.89 | 56.0 | 6.50 | 53.5 | 6.39 | 51.0 | 6.13 |
| | 35 | 100.4 | 64.0 | 7.46 | 60.6 | 6.96 | 57.3 | 6.39 | 56.0 | 6.46 | 53.5 | 5.86 | 51.0 | 5.69 |
| | | 125.5 | 64.0 | 7.40 | 60.6 | 6.89 | 57.3 | 6.39 | 56.0 | 6.39 | 53.5 | 5.86 | 51.0 | 5.63 |
| | | 251.0 | 64.0 | 7.16 | 60.6 | 6.63 | 57.3 | 6.39 | 56.0 | 6.13 | 53.5 | 5.86 | 51.0 | 5.36 |
| | | 313.8 | 64.0 | 7.16 | 60.6 | 6.63 | 57.3 | 6.13 | 56.0 | 6.13 | 53.5 | 5.86 | 51.0 | 5.36 |
| | | 376.5 | 64.0 | 7.16 | 60.6 | 6.63 | 57.3 | 5.99 | 56.0 | 6.13 | 53.5 | 5.86 | 51.0 | 5.36 |
| | 40 | 100.4 | 64.0 | 6.96 | 60.6 | 6.46 | 57.3 | 5.93 | 56.0 | 5.63 | 53.5 | 5.36 | 51.0 | 5.16 |
| | | 125.5 | 64.0 | 6.89 | 60.6 | 6.39 | 57.3 | 5.86 | 56.0 | 5.63 | 53.5 | 5.36 | 51.0 | 5.09 |
| | | 251.0 | 64.0 | 6.63 | 60.6 | 6.13 | 57.3 | 5.63 | 56.0 | 5.63 | 53.5 | 5.36 | 51.0 | 4.86 |
| | | 313.8 | 64.0 | 6.63 | 60.6 | 6.13 | 57.3 | 5.63 | 56.0 | 5.36 | 53.5 | 5.09 | 51.0 | 4.86 |
| | | 376.5 | 64.0 | 6.63 | 60.6 | 6.13 | 57.3 | 5.63 | 56.0 | 5.23 | 53.5 | 4.96 | 51.0 | 4.86 |
| | 45 | 100.4 | 64.0 | 6.46 | 60.6 | 5.93 | 57.3 | 5.49 | 56.0 | 4.80 | 53.5 | 4.86 | 51.0 | 4.66 |
| | | 125.5 | 64.0 | 6.39 | 60.6 | 5.86 | 57.3 | 5.36 | 56.0 | 4.86 | 53.5 | 4.86 | 51.0 | 4.60 |
| | | 251.0 | 64.0 | 6.13 | 60.6 | 5.63 | 57.3 | 4.86 | 56.0 | 5.09 | 53.5 | 4.86 | 51.0 | 4.33 |
| | | 313.8 | 64.0 | 6.13 | 60.6 | 5.63 | 57.3 | 5.09 | 56.0 | 4.60 | 53.5 | 4.33 | 51.0 | 4.33 |
| | | 376.5 | 64.0 | 6.13 | 60.6 | 5.63 | 57.3 | 5.22 | 56.0 | 4.35 | 53.5 | 4.06 | 51.0 | 4.33 |
| 60 | -5 | 100.4 | 22.0 | 7.49 | 20.6 | 7.21 | 19.5 | 6.93 | 19.3 | 6.44 | 19.2 | 6.33 | 18.8 | 5.66 |
| | | 125.5 | 22.8 | 7.67 | 21.3 | 7.37 | 20.2 | 7.08 | 20.0 | 6.58 | 19.8 | 6.47 | 19.5 | 5.79 |
| | | 251.0 | 25.8 | 8.32 | 24.2 | 8.00 | 22.9 | 7.68 | 22.6 | 7.13 | 22.6 | 7.02 | 22.1 | 6.29 |
| | | 313.8 | 28.5 | 8.95 | 26.7 | 8.63 | 25.3 | 8.30 | 25.0 | 7.71 | 24.9 | 7.58 | 24.4 | 6.76 |
| | | 376.5 | 29.9 | 9.28 | 27.9 | 8.96 | 26.5 | 8.60 | 26.2 | 8.00 | 26.1 | 7.86 | 25.5 | 7.00 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 100.4 | 39.3 | 10.99 | 36.3 | 10.59 | 33.8 | 10.13 | 33.2 | 9.43 | 32.7 | 9.30 | 31.5 | 8.30 |
| | | 125.5 | 39.6 | 11.02 | 36.5 | 10.62 | 34.1 | 10.17 | 33.3 | 9.46 | 33.0 | 9.33 | 31.7 | 8.32 |
| | | 251.0 | 40.5 | 11.15 | 37.4 | 10.72 | 34.9 | 10.31 | 34.1 | 9.56 | 33.7 | 9.43 | 32.4 | 8.40 |
| | | 313.8 | 41.1 | 11.15 | 37.9 | 10.72 | 35.4 | 10.31 | 34.6 | 9.56 | 34.3 | 9.43 | 33.0 | 8.40 |
| | | 376.5 | 41.4 | 11.15 | 38.2 | 10.72 | 35.7 | 10.31 | 34.9 | 9.56 | 34.5 | 9.43 | 33.2 | 8.40 |
| | 5 | 100.4 | 54.4 | 11.95 | 51.3 | 11.51 | 49.2 | 11.03 | 48.0 | 10.28 | 46.0 | 10.12 | 43.7 | 9.01 |
| | | 125.5 | 54.6 | 12.02 | 51.4 | 11.57 | 49.2 | 11.10 | 48.0 | 10.33 | 46.0 | 10.17 | 43.7 | 9.06 |
| | | 251.0 | 55.1 | 12.25 | 51.8 | 11.81 | 49.2 | 11.33 | 48.0 | 10.54 | 46.0 | 10.38 | 43.7 | 9.25 |
| | | 313.8 | 55.1 | 12.36 | 51.7 | 11.89 | 49.2 | 11.41 | 48.0 | 10.62 | 46.0 | 10.43 | 43.7 | 9.33 |
| | | 376.5 | 55.1 | 12.41 | 51.7 | 11.92 | 49.2 | 11.45 | 48.0 | 10.66 | 46.0 | 10.46 | 43.7 | 9.36 |
| | 10 | 100.4 | 54.7 | 10.99 | 51.5 | 10.51 | 49.2 | 10.01 | 48.0 | 9.35 | 46.0 | 9.17 | 43.7 | 8.22 |
| | | 125.5 | 54.8 | 10.99 | 51.5 | 10.51 | 49.2 | 10.01 | 48.0 | 9.38 | 46.0 | 9.17 | 43.7 | 8.24 |
| | | 251.0 | 55.1 | 10.99 | 51.8 | 10.51 | 49.2 | 10.01 | 48.0 | 9.48 | 46.0 | 9.14 | 43.7 | 8.32 |
| | | 313.8 | 55.1 | 11.02 | 51.7 | 10.40 | 49.2 | 9.91 | 48.0 | 9.38 | 46.0 | 9.06 | 43.7 | 8.24 |
| | | 376.5 | 55.1 | 11.03 | 51.7 | 10.35 | 49.2 | 9.85 | 48.0 | 9.33 | 46.0 | 9.02 | 43.7 | 8.20 |
| | 15 | 100.4 | 55.1 | 10.02 | 51.7 | 9.52 | 49.2 | 8.98 | 48.0 | 8.43 | 46.0 | 8.22 | 43.7 | 7.40 |
| | | 125.5 | 55.1 | 9.96 | 51.7 | 9.46 | 49.2 | 8.93 | 48.0 | 8.43 | 46.0 | 8.16 | 43.7 | 7.40 |
| | | 251.0 | 55.1 | 9.69 | 51.7 | 9.19 | 49.2 | 8.69 | 48.0 | 8.43 | 46.0 | 7.92 | 43.7 | 7.40 |
| | | 313.8 | 55.1 | 9.69 | 51.7 | 8.93 | 49.2 | 8.43 | 48.0 | 8.16 | 46.0 | 7.67 | 43.7 | 7.16 |
| | | 376.5 | 55.1 | 9.69 | 51.7 | 8.79 | 49.2 | 8.30 | 48.0 | 8.03 | 46.0 | 7.53 | 43.7 | 7.04 |
| | 20 | 100.4 | 55.1 | 8.76 | 51.7 | 8.22 | 49.2 | 7.73 | 48.0 | 7.46 | 46.0 | 7.23 | 43.7 | 6.69 |
| | | 125.5 | 55.1 | 8.69 | 51.7 | 8.16 | 49.2 | 7.67 | 48.0 | 7.40 | 46.0 | 7.16 | 43.7 | 6.63 |
| | | 251.0 | 55.1 | 8.43 | 51.7 | 7.92 | 49.2 | 7.40 | 48.0 | 7.16 | 46.0 | 6.89 | 43.7 | 6.39 |
| | | 313.8 | 55.1 | 8.43 | 51.7 | 7.92 | 49.2 | 7.40 | 48.0 | 7.16 | 46.0 | 6.89 | 43.7 | 6.39 |
| | | 376.5 | 55.1 | 8.43 | 51.7 | 7.92 | 49.2 | 7.40 | 48.0 | 7.16 | 46.0 | 6.89 | 43.7 | 6.39 |
| | 25 | 100.4 | 55.1 | 7.73 | 51.7 | 7.23 | 49.2 | 6.63 | 48.0 | 6.69 | 46.0 | 6.13 | 43.7 | 5.93 |
| | | 125.5 | 55.1 | 7.67 | 51.7 | 7.16 | 49.2 | 6.63 | 48.0 | 6.63 | 46.0 | 6.13 | 43.7 | 5.86 |
| | | 251.0 | 55.1 | 7.40 | 51.7 | 6.89 | 49.2 | 6.63 | 48.0 | 6.39 | 46.0 | 6.13 | 43.7 | 5.63 |
| | | 313.8 | 55.1 | 7.40 | 51.7 | 6.89 | 49.2 | 6.39 | 48.0 | 6.39 | 46.0 | 6.13 | 43.7 | 5.63 |
| | | 376.5 | 55.1 | 7.40 | 51.7 | 6.89 | 49.2 | 6.28 | 48.0 | 6.39 | 46.0 | 6.13 | 43.7 | 5.63 |
| | 30 | 100.4 | 55.1 | 6.96 | 51.7 | 6.46 | 49.2 | 6.20 | 48.0 | 5.93 | 46.0 | 5.69 | 43.7 | 5.43 |
| | | 125.5 | 55.1 | 6.89 | 51.7 | 6.39 | 49.2 | 6.13 | 48.0 | 5.86 | 46.0 | 5.63 | 43.7 | 5.36 |
| | | 251.0 | 55.1 | 6.63 | 51.7 | 6.13 | 49.2 | 5.86 | 48.0 | 5.63 | 46.0 | 5.36 | 43.7 | 5.09 |
| | | 313.8 | 55.1 | 6.63 | 51.7 | 6.13 | 49.2 | 5.86 | 48.0 | 5.63 | 46.0 | 5.36 | 43.7 | 5.09 |
| | | 376.5 | 55.1 | 6.63 | 51.7 | 6.13 | 49.2 | 5.86 | 48.0 | 5.63 | 46.0 | 5.36 | 43.7 | 5.09 |
| | 35 | 100.4 | 55.1 | 6.13 | 51.7 | 5.93 | 49.2 | 5.36 | 48.0 | 5.43 | 46.0 | 5.16 | 43.7 | 4.93 |
| | | 125.5 | 55.1 | 6.13 | 51.7 | 5.86 | 49.2 | 5.36 | 48.0 | 5.36 | 46.0 | 5.09 | 43.7 | 4.86 |
| | | 251.0 | 55.1 | 6.13 | 51.7 | 5.63 | 49.2 | 5.36 | 48.0 | 5.09 | 46.0 | 4.86 | 43.7 | 4.60 |
| | | 313.8 | 55.1 | 6.13 | 51.7 | 5.63 | 49.2 | 5.09 | 48.0 | 5.09 | 46.0 | 4.86 | 43.7 | 4.60 |
| | | 376.5 | 55.1 | 6.13 | 51.7 | 5.63 | 49.2 | 4.96 | 48.0 | 5.09 | 46.0 | 4.86 | 43.7 | 4.60 |
| | 40 | 100.4 | 55.1 | 5.63 | 51.7 | 5.43 | 49.2 | 4.86 | 48.0 | 4.93 | 46.0 | 4.66 | 43.7 | 4.33 |
| | | 125.5 | 55.1 | 5.63 | 51.7 | 5.36 | 49.2 | 4.86 | 48.0 | 4.86 | 46.0 | 4.60 | 43.7 | 4.33 |
| | | 251.0 | 55.1 | 5.63 | 51.7 | 5.09 | 49.2 | 4.86 | 48.0 | 4.60 | 46.0 | 4.33 | 43.7 | 4.33 |
| | | 313.8 | 55.1 | 5.63 | 51.7 | 5.09 | 49.2 | 4.86 | 48.0 | 4.60 | 46.0 | 4.33 | 43.7 | 4.33 |
| | | 376.5 | 55.1 | 5.63 | 51.7 | 5.09 | 49.2 | 4.86 | 48.0 | 4.60 | 46.0 | 4.33 | 43.7 | 4.33 |
| | 45 | 100.4 | 55.1 | 5.09 | 51.7 | 4.93 | 49.2 | 4.33 | 48.0 | 4.39 | 46.0 | 4.16 | 43.7 | 3.76 |
| | | 125.5 | 55.1 | 5.09 | 51.7 | 4.86 | 49.2 | 4.33 | 48.0 | 4.33 | 46.0 | 4.09 | 43.7 | 3.83 |
| | | 251.0 | 55.1 | 5.09 | 51.7 | 4.60 | 49.2 | 4.33 | 48.0 | 4.09 | 46.0 | 3.83 | 43.7 | 4.09 |
| | | 313.8 | 55.1 | 5.09 | 51.7 | 4.60 | 49.2 | 4.60 | 48.0 | 4.09 | 46.0 | 3.83 | 43.7 | 4.09 |
| | | 376.5 | 55.1 | 5.09 | 51.7 | 4.60 | 49.2 | 4.73 | 48.0 | 4.09 | 46.0 | 3.83 | 43.7 | 4.09 |
| 50 | -5 | 100.4 | 18.4 | 5.98 | 17.2 | 5.66 | 16.3 | 5.36 | 16.1 | 5.06 | 15.9 | 4.76 | 15.7 | 4.50 |
| | | 125.5 | 19.0 | 6.10 | 17.9 | 5.79 | 16.9 | 5.47 | 16.6 | 5.17 | 16.6 | 4.86 | 16.2 | 4.60 |
| | | 251.0 | 21.4 | 6.61 | 20.1 | 6.29 | 19.0 | 5.91 | 18.8 | 5.63 | 18.7 | 5.28 | 18.4 | 4.96 |
| | | 313.8 | 23.7 | 7.13 | 22.3 | 6.76 | 21.0 | 6.39 | 20.8 | 6.07 | 20.6 | 5.68 | 20.3 | 5.36 |
| | | 376.5 | 24.9 | 7.40 | 23.4 | 7.00 | 22.1 | 6.63 | 21.8 | 6.31 | 21.6 | 5.88 | 21.3 | 5.56 |
| | 0 | 100.4 | 32.7 | 8.75 | 30.3 | 8.30 | 28.1 | 7.82 | 27.6 | 7.42 | 27.2 | 6.97 | 26.2 | 6.58 |
| | | 125.5 | 33.0 | 8.77 | 30.5 | 8.32 | 28.3 | 7.84 | 27.8 | 7.45 | 27.3 | 7.00 | 26.3 | 6.61 |
| | | 251.0 | 33.7 | 8.85 | 31.2 | 8.40 | 29.1 | 7.95 | 28.4 | 7.56 | 28.1 | 7.08 | 27.0 | 6.69 |
| | | 313.8 | 34.3 | 8.85 | 31.7 | 8.40 | 29.4 | 7.95 | 28.9 | 7.56 | 28.4 | 7.08 | 27.4 | 6.69 |
| | | 376.5 | 34.5 | 8.85 | 31.8 | 8.40 | 29.6 | 7.95 | 29.1 | 7.56 | 28.6 | 7.08 | 27.6 | 6.69 |
| | 5 | 100.4 | 45.2 | 9.52 | 42.9 | 9.01 | 40.9 | 8.51 | 40.0 | 8.10 | 38.2 | 7.60 | 36.4 | 7.15 |
| | | 125.5 | 45.3 | 9.56 | 42.9 | 9.06 | 40.9 | 8.56 | 40.0 | 8.14 | 38.2 | 7.64 | 36.4 | 7.18 |
| | | 251.0 | 45.7 | 9.74 | 43.2 | 9.25 | 41.0 | 8.74 | 40.0 | 8.30 | 38.2 | 7.76 | 36.4 | 7.34 |
| | | 313.8 | 45.7 | 9.82 | 43.2 | 9.33 | 41.0 | 8.79 | 40.0 | 8.35 | 38.2 | 7.84 | 36.4 | 7.40 |
| | | 376.5 | 45.7 | 9.87 | 43.2 | 9.36 | 41.0 | 8.82 | 40.0 | 8.38 | 38.2 | 7.89 | 36.4 | 7.42 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(26HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 100.4 | 45.5 | 8.76 | 43.0 | 8.25 | 40.9 | 7.75 | 40.0 | 7.41 | 38.2 | 6.85 | 36.4 | 6.54 |
| | | 125.5 | 45.5 | 8.74 | 43.1 | 8.24 | 40.9 | 7.74 | 40.0 | 7.40 | 38.2 | 6.86 | 36.4 | 6.53 |
| | | 251.0 | 45.7 | 8.69 | 43.2 | 8.22 | 41.0 | 7.68 | 40.0 | 7.34 | 38.2 | 6.94 | 36.4 | 6.47 |
| | | 313.8 | 45.7 | 8.74 | 43.2 | 8.24 | 41.0 | 7.71 | 40.0 | 7.37 | 38.2 | 6.84 | 36.4 | 6.50 |
| | | 376.5 | 45.7 | 8.77 | 43.2 | 8.25 | 41.0 | 7.73 | 40.0 | 7.38 | 38.2 | 6.78 | 36.4 | 6.51 |
| | 15 | 100.4 | 45.7 | 7.99 | 43.2 | 7.46 | 41.0 | 6.96 | 40.0 | 6.69 | 38.2 | 6.13 | 36.4 | 5.93 |
| | | 125.5 | 45.7 | 7.92 | 43.2 | 7.40 | 41.0 | 6.89 | 40.0 | 6.63 | 38.2 | 6.13 | 36.4 | 5.86 |
| | | 251.0 | 45.7 | 7.67 | 43.2 | 7.16 | 41.0 | 6.63 | 40.0 | 6.39 | 38.2 | 6.13 | 36.4 | 5.63 |
| | | 313.8 | 45.7 | 7.67 | 43.2 | 7.16 | 41.0 | 6.63 | 40.0 | 6.39 | 38.2 | 5.86 | 36.4 | 5.63 |
| | | 376.5 | 45.7 | 7.67 | 43.2 | 7.16 | 41.0 | 6.63 | 40.0 | 6.39 | 38.2 | 5.73 | 36.4 | 5.63 |
| | 20 | 100.4 | 45.7 | 6.96 | 43.2 | 6.46 | 41.0 | 6.20 | 40.0 | 5.93 | 38.2 | 5.69 | 36.4 | 5.09 |
| | | 125.5 | 45.7 | 6.89 | 43.2 | 6.39 | 41.0 | 6.13 | 40.0 | 5.86 | 38.2 | 5.63 | 36.4 | 5.09 |
| | | 251.0 | 45.7 | 6.63 | 43.2 | 6.13 | 41.0 | 5.86 | 40.0 | 5.63 | 38.2 | 5.36 | 36.4 | 5.09 |
| | | 313.8 | 45.7 | 6.63 | 43.2 | 6.13 | 41.0 | 5.86 | 40.0 | 5.63 | 38.2 | 5.36 | 36.4 | 5.09 |
| | | 376.5 | 45.7 | 6.63 | 43.2 | 6.13 | 41.0 | 5.86 | 40.0 | 5.63 | 38.2 | 5.36 | 36.4 | 5.09 |
| | 25 | 100.4 | 45.7 | 6.20 | 43.2 | 5.63 | 41.0 | 5.43 | 40.0 | 5.09 | 38.2 | 4.86 | 36.4 | 4.60 |
| | | 125.5 | 45.7 | 6.13 | 43.2 | 5.63 | 41.0 | 5.36 | 40.0 | 5.09 | 38.2 | 4.86 | 36.4 | 4.60 |
| | | 251.0 | 45.7 | 5.86 | 43.2 | 5.63 | 41.0 | 5.09 | 40.0 | 5.09 | 38.2 | 4.86 | 36.4 | 4.60 |
| | | 313.8 | 45.7 | 5.86 | 43.2 | 5.63 | 41.0 | 5.09 | 40.0 | 5.09 | 38.2 | 4.86 | 36.4 | 4.60 |
| | | 376.5 | 45.7 | 5.86 | 43.2 | 5.63 | 41.0 | 5.09 | 40.0 | 5.09 | 38.2 | 4.86 | 36.4 | 4.60 |
| | 30 | 100.4 | 45.7 | 5.69 | 43.2 | 5.16 | 41.0 | 4.93 | 40.0 | 4.60 | 38.2 | 4.66 | 36.4 | 4.39 |
| | | 125.5 | 45.7 | 5.63 | 43.2 | 5.09 | 41.0 | 4.86 | 40.0 | 4.60 | 38.2 | 4.60 | 36.4 | 4.33 |
| | | 251.0 | 45.7 | 5.36 | 43.2 | 4.86 | 41.0 | 4.60 | 40.0 | 4.60 | 38.2 | 4.33 | 36.4 | 4.09 |
| | | 313.8 | 45.7 | 5.36 | 43.2 | 4.86 | 41.0 | 4.60 | 40.0 | 4.60 | 38.2 | 4.33 | 36.4 | 4.09 |
| | | 376.5 | 45.7 | 5.36 | 43.2 | 4.86 | 41.0 | 4.60 | 40.0 | 4.60 | 38.2 | 4.33 | 36.4 | 4.09 |
| | 35 | 100.4 | 45.7 | 5.16 | 43.2 | 4.60 | 41.0 | 4.33 | 40.0 | 4.39 | 38.2 | 4.09 | 36.4 | 3.83 |
| | | 125.5 | 45.7 | 5.09 | 43.2 | 4.60 | 41.0 | 4.33 | 40.0 | 4.33 | 38.2 | 4.09 | 36.4 | 3.83 |
| | | 251.0 | 45.7 | 4.86 | 43.2 | 4.60 | 41.0 | 4.33 | 40.0 | 4.09 | 38.2 | 4.09 | 36.4 | 3.83 |
| | | 313.8 | 45.7 | 4.86 | 43.2 | 4.60 | 41.0 | 4.33 | 40.0 | 4.09 | 38.2 | 4.09 | 36.4 | 3.83 |
| | | 376.5 | 45.7 | 4.86 | 43.2 | 4.60 | 41.0 | 4.33 | 40.0 | 4.09 | 38.2 | 4.09 | 36.4 | 3.83 |
| | 40 | 100.4 | 45.7 | 4.66 | 43.2 | 4.39 | 41.0 | 4.16 | 40.0 | 3.83 | 38.2 | 3.89 | 36.4 | 3.57 |
| | | 125.5 | 45.7 | 4.60 | 43.2 | 4.33 | 41.0 | 4.09 | 40.0 | 3.83 | 38.2 | 3.83 | 36.4 | 3.57 |
| | | 251.0 | 45.7 | 4.33 | 43.2 | 4.09 | 41.0 | 3.83 | 40.0 | 3.83 | 38.2 | 3.57 | 36.4 | 3.57 |
| | | 313.8 | 45.7 | 4.33 | 43.2 | 4.09 | 41.0 | 3.83 | 40.0 | 3.83 | 38.2 | 3.57 | 36.4 | 3.57 |
| | | 376.5 | 45.7 | 4.33 | 43.2 | 4.09 | 41.0 | 3.83 | 40.0 | 3.83 | 38.2 | 3.57 | 36.4 | 3.57 |
| | 45 | 100.4 | 45.7 | 4.16 | 43.2 | 4.22 | 41.0 | 3.95 | 40.0 | 3.27 | 38.2 | 3.70 | 36.4 | 3.33 |
| | | 125.5 | 45.7 | 4.09 | 43.2 | 4.09 | 41.0 | 3.83 | 40.0 | 3.33 | 38.2 | 3.57 | 36.4 | 3.33 |
| | | 251.0 | 45.7 | 3.83 | 43.2 | 3.57 | 41.0 | 3.33 | 40.0 | 3.57 | 38.2 | 3.07 | 36.4 | 3.33 |
| | | 313.8 | 45.7 | 3.83 | 43.2 | 3.57 | 41.0 | 3.33 | 40.0 | 3.57 | 38.2 | 3.07 | 36.4 | 3.33 |
| | | 376.5 | 45.7 | 3.83 | 43.2 | 3.57 | 41.0 | 3.33 | 40.0 | 3.57 | 38.2 | 3.07 | 36.4 | 3.33 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN280BAS4

**Heating Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 108.0 | 41.8 | 17.76 | 41.4 | 16.72 | 41.2 | 15.56 | 40.6 | 15.10 | 41.0 | 14.72 | 40.0 | 13.20 |
| | | 135.0 | 43.2 | 18.08 | 42.8 | 17.04 | 42.6 | 15.90 | 42.0 | 15.44 | 42.6 | 15.04 | 41.4 | 13.48 |
| | | 270.0 | 48.8 | 19.30 | 48.4 | 18.34 | 48.2 | 17.26 | 47.6 | 16.76 | 48.0 | 16.28 | 46.8 | 14.62 |
| | | 337.5 | 54.0 | 20.52 | 53.4 | 19.60 | 53.2 | 18.60 | 52.6 | 18.10 | 53.2 | 17.58 | 51.8 | 15.76 |
| | | 405.0 | 56.6 | 21.14 | 56.0 | 20.22 | 55.6 | 19.28 | 55.0 | 18.78 | 55.8 | 18.22 | 54.2 | 16.34 |
| | 0 | 108.0 | 74.6 | 24.30 | 72.8 | 23.56 | 71.2 | 22.80 | 69.8 | 22.16 | 70.0 | 21.56 | 66.8 | 19.30 |
| | | 135.0 | 75.0 | 24.36 | 73.2 | 23.62 | 71.8 | 22.86 | 70.2 | 22.22 | 70.4 | 21.60 | 67.2 | 19.36 |
| | | 270.0 | 76.8 | 24.62 | 75.0 | 23.86 | 73.4 | 23.12 | 71.8 | 22.48 | 72.0 | 21.84 | 68.8 | 19.60 |
| | | 337.5 | 78.0 | 24.62 | 76.0 | 23.86 | 74.4 | 23.12 | 72.8 | 22.48 | 73.2 | 21.84 | 69.8 | 19.60 |
| | | 405.0 | 78.6 | 24.62 | 76.6 | 23.86 | 75.0 | 23.12 | 73.4 | 22.48 | 73.6 | 21.84 | 70.4 | 19.60 |
| | 5 | 108.0 | 107.4 | 26.12 | 105.8 | 25.46 | 103.6 | 24.82 | 101.0 | 24.12 | 98.2 | 23.46 | 92.8 | 21.00 |
| | | 135.0 | 107.8 | 26.22 | 106.0 | 25.58 | 103.6 | 24.94 | 101.0 | 24.24 | 98.2 | 23.56 | 92.8 | 21.12 |
| | | 270.0 | 109.2 | 26.70 | 106.6 | 26.06 | 103.6 | 25.44 | 101.0 | 24.74 | 98.2 | 24.04 | 92.8 | 21.56 |
| | | 337.5 | 109.8 | 26.88 | 107.0 | 26.22 | 103.6 | 25.62 | 101.0 | 24.92 | 98.2 | 24.22 | 92.8 | 21.70 |
| | | 405.0 | 110.2 | 26.96 | 107.2 | 26.32 | 103.6 | 25.70 | 101.0 | 25.00 | 98.2 | 24.30 | 92.8 | 21.78 |
| | 10 | 108.0 | 107.4 | 23.76 | 105.8 | 22.96 | 103.2 | 22.54 | 100.6 | 22.02 | 97.8 | 21.28 | 92.4 | 19.20 |
| | | 135.0 | 108.2 | 23.72 | 106.2 | 22.98 | 103.6 | 22.58 | 101.0 | 22.02 | 98.2 | 21.26 | 92.8 | 19.18 |
| | | 270.0 | 110.6 | 23.54 | 108.2 | 23.08 | 105.2 | 22.74 | 102.6 | 21.98 | 99.6 | 21.20 | 94.2 | 19.12 |
| | | 337.5 | 111.2 | 23.86 | 109.0 | 23.40 | 106.0 | 22.84 | 103.0 | 22.08 | 100.4 | 21.56 | 94.8 | 20.04 |
| | | 405.0 | 111.6 | 24.02 | 109.4 | 23.56 | 106.2 | 22.88 | 103.2 | 22.12 | 100.6 | 21.72 | 95.2 | 20.48 |
| | 15 | 108.0 | 107.6 | 21.42 | 105.8 | 20.50 | 102.8 | 20.28 | 100.0 | 19.94 | 97.4 | 19.10 | 92.0 | 17.40 |
| | | 135.0 | 108.6 | 21.20 | 106.6 | 20.42 | 103.6 | 20.24 | 101.0 | 19.80 | 98.2 | 18.94 | 92.8 | 17.26 |
| | | 270.0 | 112.0 | 20.36 | 109.8 | 20.06 | 107.0 | 20.06 | 104.2 | 19.22 | 101.2 | 18.36 | 95.8 | 16.66 |
| | | 337.5 | 112.6 | 20.84 | 110.8 | 20.52 | 108.2 | 20.06 | 105.2 | 19.22 | 102.6 | 18.88 | 96.8 | 18.36 |
| | | 405.0 | 113.0 | 21.10 | 111.4 | 20.76 | 108.8 | 20.06 | 105.8 | 19.22 | 103.2 | 19.16 | 97.4 | 19.22 |
| | 20 | 108.0 | 111.8 | 19.64 | 109.8 | 18.72 | 106.8 | 18.32 | 103.8 | 17.74 | 100.8 | 17.34 | 94.8 | 16.80 |
| | | 135.0 | 112.6 | 19.50 | 110.6 | 18.72 | 107.6 | 18.30 | 104.6 | 17.80 | 101.8 | 17.46 | 95.8 | 16.66 |
| | | 270.0 | 116.2 | 18.94 | 114.2 | 18.66 | 111.0 | 18.24 | 108.0 | 18.10 | 105.2 | 17.92 | 99.2 | 16.12 |
| | | 337.5 | 116.6 | 18.94 | 115.0 | 18.66 | 112.2 | 18.36 | 109.0 | 18.10 | 106.0 | 17.92 | 100.0 | 17.14 |
| | | 405.0 | 117.0 | 18.94 | 115.4 | 18.66 | 113.0 | 18.42 | 109.6 | 18.10 | 106.4 | 17.92 | 100.6 | 17.66 |
| | 25 | 108.0 | 118.0 | 18.72 | 115.0 | 18.18 | 112.2 | 17.88 | 110.2 | 17.58 | 107.6 | 17.32 | 101.4 | 16.18 |
| | | 135.0 | 118.0 | 18.66 | 115.0 | 18.16 | 112.2 | 17.80 | 110.2 | 17.52 | 107.6 | 17.26 | 101.4 | 16.12 |
| | | 270.0 | 118.0 | 18.36 | 115.0 | 18.04 | 112.2 | 17.52 | 110.2 | 17.26 | 107.6 | 16.96 | 101.4 | 15.82 |
| | | 337.5 | 118.0 | 18.10 | 115.0 | 17.58 | 112.2 | 17.26 | 110.2 | 16.96 | 107.6 | 16.66 | 101.4 | 15.56 |
| | | 405.0 | 118.0 | 17.96 | 115.0 | 17.34 | 112.2 | 17.12 | 110.2 | 16.82 | 107.6 | 16.52 | 101.4 | 15.42 |
| | 30 | 108.0 | 118.0 | 18.24 | 115.0 | 17.34 | 112.2 | 17.18 | 110.2 | 16.74 | 107.6 | 16.56 | 101.4 | 15.40 |
| | | 135.0 | 118.0 | 18.10 | 115.0 | 17.32 | 112.2 | 17.08 | 110.2 | 16.66 | 107.6 | 16.40 | 101.4 | 15.26 |
| | | 270.0 | 118.0 | 17.52 | 115.0 | 17.20 | 112.2 | 16.66 | 110.2 | 16.40 | 107.6 | 15.82 | 101.4 | 14.70 |
| | | 337.5 | 118.0 | 17.26 | 115.0 | 16.72 | 112.2 | 16.40 | 110.2 | 16.12 | 107.6 | 15.82 | 101.4 | 14.70 |
| | | 405.0 | 118.0 | 17.12 | 115.0 | 16.50 | 112.2 | 16.28 | 110.2 | 15.96 | 107.6 | 15.82 | 101.4 | 14.70 |
| | 35 | 108.0 | 118.0 | 17.40 | 115.0 | 16.82 | 112.2 | 16.48 | 110.2 | 15.88 | 107.6 | 15.34 | 101.4 | 14.26 |
| | | 135.0 | 118.0 | 17.26 | 115.0 | 16.72 | 112.2 | 16.40 | 110.2 | 15.82 | 107.6 | 15.26 | 101.4 | 14.12 |
| | | 270.0 | 118.0 | 16.66 | 115.0 | 16.34 | 112.2 | 16.12 | 110.2 | 15.56 | 107.6 | 14.98 | 101.4 | 13.56 |
| | | 337.5 | 118.0 | 16.66 | 115.0 | 16.18 | 112.2 | 15.82 | 110.2 | 15.26 | 107.6 | 14.70 | 101.4 | 13.56 |
| | | 405.0 | 118.0 | 16.66 | 115.0 | 16.08 | 112.2 | 15.68 | 110.2 | 15.12 | 107.6 | 14.58 | 101.4 | 13.56 |
| | 40 | 108.0 | 118.0 | 16.80 | 115.0 | 16.28 | 112.2 | 15.96 | 110.2 | 15.40 | 107.6 | 14.86 | 101.4 | 13.42 |
| | | 135.0 | 118.0 | 16.66 | 115.0 | 16.18 | 112.2 | 15.82 | 110.2 | 15.26 | 107.6 | 14.70 | 101.4 | 13.28 |
| | | 270.0 | 118.0 | 16.12 | 115.0 | 15.76 | 112.2 | 15.26 | 110.2 | 14.70 | 107.6 | 14.12 | 101.4 | 12.72 |
| | | 337.5 | 118.0 | 15.82 | 115.0 | 15.50 | 112.2 | 15.26 | 110.2 | 14.70 | 107.6 | 14.12 | 101.4 | 12.72 |
| | | 405.0 | 118.0 | 15.68 | 115.0 | 15.36 | 112.2 | 15.26 | 110.2 | 14.70 | 107.6 | 14.12 | 101.4 | 12.72 |
| | 45 | 108.0 | 118.0 | 16.26 | 115.0 | 15.72 | 112.2 | 15.48 | 110.2 | 14.92 | 107.6 | 14.34 | 101.4 | 12.56 |
| | | 135.0 | 118.0 | 16.12 | 115.0 | 15.62 | 112.2 | 15.26 | 110.2 | 14.70 | 107.6 | 14.12 | 101.4 | 12.42 |
| | | 270.0 | 118.0 | 15.56 | 115.0 | 15.20 | 112.2 | 14.42 | 110.2 | 13.86 | 107.6 | 13.28 | 101.4 | 11.88 |
| | | 337.5 | 118.0 | 14.98 | 115.0 | 14.82 | 112.2 | 14.70 | 110.2 | 14.12 | 107.6 | 13.56 | 101.4 | 11.88 |
| | | 405.0 | 118.0 | 14.68 | 115.0 | 14.64 | 112.2 | 14.86 | 110.2 | 14.26 | 107.6 | 13.72 | 101.4 | 11.88 |
| 120 | -5 | 108.0 | 39.6 | 17.76 | 39.4 | 16.72 | 39.2 | 15.56 | 38.6 | 14.90 | 39.0 | 14.48 | 38.0 | 12.96 |
| | | 135.0 | 41.0 | 18.08 | 40.6 | 17.04 | 40.4 | 15.90 | 40.0 | 15.24 | 40.2 | 14.80 | 39.2 | 13.24 |
| | | 270.0 | 46.4 | 19.30 | 46.0 | 18.34 | 45.8 | 17.26 | 45.2 | 16.52 | 45.6 | 16.06 | 44.4 | 14.38 |
| | | 337.5 | 51.2 | 20.52 | 50.8 | 19.60 | 50.6 | 18.60 | 50.0 | 17.84 | 50.4 | 17.32 | 49.0 | 15.50 |
| | | 405.0 | 53.8 | 21.14 | 53.4 | 20.22 | 53.0 | 19.28 | 52.4 | 18.50 | 52.8 | 17.94 | 51.2 | 16.06 |
| | 0 | 108.0 | 70.8 | 24.30 | 69.2 | 23.56 | 67.6 | 22.80 | 66.4 | 21.84 | 66.4 | 21.22 | 63.2 | 18.98 |
| | | 135.0 | 71.2 | 24.36 | 69.6 | 23.62 | 68.0 | 22.86 | 66.8 | 21.90 | 66.8 | 21.28 | 63.6 | 19.04 |
| | | 270.0 | 73.0 | 24.62 | 71.2 | 23.86 | 69.8 | 23.12 | 68.2 | 22.16 | 68.2 | 21.52 | 65.2 | 19.28 |
| | | 337.5 | 74.0 | 24.62 | 72.4 | 23.86 | 70.8 | 23.12 | 69.4 | 22.16 | 69.2 | 21.52 | 66.2 | 19.28 |
| | | 405.0 | 74.6 | 24.62 | 73.0 | 23.86 | 71.4 | 23.12 | 69.8 | 22.16 | 69.8 | 21.52 | 66.8 | 19.28 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 108.0 | 102.2 | 26.12 | 100.6 | 25.46 | 98.4 | 24.82 | 96.0 | 23.76 | 93.0 | 23.10 | 88.0 | 20.68 |
| | | 135.0 | 102.6 | 26.22 | 100.8 | 25.58 | 98.4 | 24.94 | 96.0 | 23.90 | 93.0 | 23.22 | 88.0 | 20.80 |
| | | 270.0 | 104.0 | 26.70 | 101.6 | 26.06 | 98.4 | 25.44 | 96.0 | 24.38 | 93.0 | 23.68 | 88.0 | 21.20 |
| | | 337.5 | 104.6 | 26.88 | 101.0 | 26.22 | 98.4 | 25.62 | 96.0 | 24.56 | 93.0 | 23.86 | 88.0 | 21.34 |
| | | 405.0 | 104.8 | 26.96 | 100.8 | 26.32 | 98.4 | 25.70 | 96.0 | 24.66 | 93.0 | 23.94 | 88.0 | 21.42 |
| | 10 | 108.0 | 102.6 | 23.46 | 100.6 | 22.80 | 98.2 | 22.34 | 95.8 | 21.66 | 92.8 | 20.96 | 87.8 | 18.84 |
| | | 135.0 | 103.0 | 23.54 | 101.0 | 22.90 | 98.4 | 22.42 | 96.0 | 21.70 | 93.0 | 20.94 | 88.0 | 18.86 |
| | | 270.0 | 105.0 | 23.86 | 102.8 | 23.24 | 99.6 | 22.74 | 97.2 | 21.82 | 94.0 | 20.88 | 88.8 | 18.94 |
| | | 337.5 | 105.6 | 23.78 | 102.4 | 23.24 | 100.0 | 22.84 | 97.6 | 21.90 | 94.4 | 20.96 | 89.2 | 19.60 |
| | | 405.0 | 105.8 | 23.72 | 102.2 | 23.24 | 100.2 | 22.88 | 97.8 | 21.94 | 94.6 | 21.02 | 89.4 | 19.92 |
| | 15 | 108.0 | 102.8 | 20.80 | 100.8 | 20.20 | 97.8 | 19.88 | 95.6 | 19.58 | 92.6 | 18.80 | 87.4 | 17.04 |
| | | 135.0 | 103.4 | 20.84 | 101.4 | 20.24 | 98.4 | 19.92 | 96.0 | 19.50 | 93.0 | 18.66 | 88.0 | 16.96 |
| | | 270.0 | 105.8 | 21.02 | 103.8 | 20.42 | 100.6 | 20.06 | 98.2 | 19.22 | 95.0 | 18.10 | 89.8 | 16.66 |
| | | 337.5 | 106.4 | 20.70 | 103.8 | 20.24 | 101.4 | 20.06 | 99.0 | 19.22 | 95.8 | 18.10 | 90.6 | 17.80 |
| | | 405.0 | 106.8 | 20.54 | 103.8 | 20.14 | 102.0 | 20.06 | 99.4 | 19.22 | 96.2 | 18.10 | 91.0 | 18.38 |
| | 20 | 108.0 | 105.8 | 18.72 | 103.8 | 17.92 | 100.6 | 17.44 | 97.8 | 17.18 | 94.6 | 16.98 | 89.6 | 16.12 |
| | | 135.0 | 106.4 | 18.72 | 104.4 | 17.98 | 101.2 | 17.52 | 98.4 | 17.26 | 95.2 | 16.96 | 90.0 | 16.06 |
| | | 270.0 | 109.2 | 18.72 | 106.8 | 18.24 | 103.4 | 17.80 | 101.0 | 17.52 | 97.6 | 16.90 | 92.2 | 15.82 |
| | | 337.5 | 109.6 | 18.54 | 106.8 | 18.10 | 104.2 | 17.80 | 101.4 | 17.52 | 98.2 | 16.96 | 92.8 | 16.40 |
| | | 405.0 | 109.8 | 18.46 | 106.8 | 18.02 | 104.6 | 17.80 | 101.8 | 17.52 | 98.4 | 16.98 | 93.0 | 16.70 |
| | 25 | 108.0 | 110.8 | 17.70 | 107.6 | 16.88 | 104.2 | 16.56 | 102.0 | 16.18 | 99.2 | 15.88 | 93.8 | 14.78 |
| | | 135.0 | 111.0 | 17.64 | 107.6 | 16.84 | 104.2 | 16.52 | 102.0 | 16.12 | 99.2 | 15.82 | 93.8 | 14.70 |
| | | 270.0 | 111.2 | 17.36 | 107.6 | 16.72 | 104.2 | 16.40 | 102.0 | 15.82 | 99.2 | 15.56 | 93.8 | 14.42 |
| | | 337.5 | 111.6 | 16.72 | 107.6 | 16.28 | 104.2 | 16.12 | 102.0 | 15.82 | 99.2 | 15.26 | 93.8 | 14.42 |
| | | 405.0 | 111.6 | 16.40 | 107.6 | 16.06 | 104.2 | 15.96 | 102.0 | 15.82 | 99.2 | 15.12 | 93.8 | 14.42 |
| | 30 | 108.0 | 111.6 | 16.92 | 107.6 | 16.10 | 104.2 | 15.64 | 102.0 | 15.04 | 99.2 | 14.86 | 93.8 | 13.64 |
| | | 135.0 | 111.6 | 16.78 | 107.6 | 16.00 | 104.2 | 15.56 | 102.0 | 14.98 | 99.2 | 14.70 | 93.8 | 13.56 |
| | | 270.0 | 111.6 | 16.22 | 107.6 | 15.62 | 104.2 | 15.26 | 102.0 | 14.70 | 99.2 | 14.12 | 93.8 | 13.28 |
| | | 337.5 | 111.6 | 15.70 | 107.6 | 15.26 | 104.2 | 14.98 | 102.0 | 14.70 | 99.2 | 14.12 | 93.8 | 13.02 |
| | | 405.0 | 111.6 | 15.44 | 107.6 | 15.08 | 104.2 | 14.82 | 102.0 | 14.70 | 99.2 | 14.12 | 93.8 | 12.88 |
| | 35 | 108.0 | 111.6 | 16.16 | 107.6 | 15.28 | 104.2 | 14.86 | 102.0 | 14.26 | 99.2 | 13.70 | 93.8 | 12.50 |
| | | 135.0 | 111.6 | 15.94 | 107.6 | 15.14 | 104.2 | 14.70 | 102.0 | 14.12 | 99.2 | 13.56 | 93.8 | 12.42 |
| | | 270.0 | 111.6 | 15.04 | 107.6 | 14.60 | 104.2 | 14.12 | 102.0 | 13.56 | 99.2 | 13.02 | 93.8 | 12.16 |
| | | 337.5 | 111.6 | 14.86 | 107.6 | 14.48 | 104.2 | 14.12 | 102.0 | 13.56 | 99.2 | 13.02 | 93.8 | 11.88 |
| | | 405.0 | 111.6 | 14.76 | 107.6 | 14.42 | 104.2 | 14.12 | 102.0 | 13.56 | 99.2 | 13.02 | 93.8 | 11.72 |
| | 40 | 108.0 | 111.6 | 15.68 | 107.6 | 14.58 | 104.2 | 14.00 | 102.0 | 13.42 | 99.2 | 12.86 | 93.8 | 11.64 |
| | | 135.0 | 111.6 | 15.38 | 107.6 | 14.42 | 104.2 | 13.86 | 102.0 | 13.28 | 99.2 | 12.72 | 93.8 | 11.58 |
| | | 270.0 | 111.6 | 14.18 | 107.6 | 13.74 | 104.2 | 13.28 | 102.0 | 12.72 | 99.2 | 12.16 | 93.8 | 11.32 |
| | | 337.5 | 111.6 | 14.00 | 107.6 | 13.56 | 104.2 | 13.28 | 102.0 | 12.72 | 99.2 | 12.16 | 93.8 | 11.02 |
| | | 405.0 | 111.6 | 13.92 | 107.6 | 13.48 | 104.2 | 13.28 | 102.0 | 12.72 | 99.2 | 12.16 | 93.8 | 10.88 |
| | 45 | 108.0 | 111.6 | 15.20 | 107.6 | 13.88 | 104.2 | 13.16 | 102.0 | 12.56 | 99.2 | 12.02 | 93.8 | 10.80 |
| | | 135.0 | 111.6 | 14.82 | 107.6 | 13.68 | 104.2 | 13.02 | 102.0 | 12.42 | 99.2 | 11.88 | 93.8 | 10.74 |
| | | 270.0 | 111.6 | 13.34 | 107.6 | 12.90 | 104.2 | 12.42 | 102.0 | 11.88 | 99.2 | 11.32 | 93.8 | 10.46 |
| | | 337.5 | 111.6 | 13.16 | 107.6 | 12.66 | 104.2 | 12.42 | 102.0 | 11.88 | 99.2 | 11.32 | 93.8 | 10.18 |
| | | 405.0 | 111.6 | 13.08 | 107.6 | 12.54 | 104.2 | 12.42 | 102.0 | 11.88 | 99.2 | 11.32 | 93.8 | 10.02 |
| 110 | -5 | 108.0 | 37.6 | 18.00 | 37.2 | 16.72 | 37.0 | 15.56 | 36.6 | 14.90 | 36.8 | 14.48 | 36.0 | 12.96 |
| | | 135.0 | 38.8 | 18.30 | 38.6 | 17.04 | 38.4 | 15.90 | 38.0 | 15.24 | 38.0 | 14.80 | 37.2 | 13.24 |
| | | 270.0 | 43.8 | 19.54 | 43.6 | 18.34 | 43.4 | 17.26 | 43.0 | 16.52 | 43.0 | 16.06 | 42.0 | 14.38 |
| | | 337.5 | 48.4 | 20.80 | 48.2 | 19.60 | 48.0 | 18.60 | 47.4 | 17.84 | 47.4 | 17.32 | 46.4 | 15.50 |
| | | 405.0 | 50.8 | 21.42 | 50.4 | 20.22 | 50.2 | 19.28 | 49.6 | 18.50 | 49.6 | 17.94 | 48.6 | 16.06 |
| | 0 | 108.0 | 67.0 | 24.62 | 65.6 | 23.56 | 64.2 | 22.80 | 63.0 | 21.84 | 62.4 | 21.22 | 60.0 | 18.98 |
| | | 135.0 | 67.4 | 24.68 | 66.0 | 23.62 | 64.6 | 22.86 | 63.4 | 21.90 | 62.8 | 21.28 | 60.4 | 19.04 |
| | | 270.0 | 69.0 | 24.92 | 67.6 | 23.86 | 66.0 | 23.12 | 64.8 | 22.16 | 64.2 | 21.52 | 61.8 | 19.28 |
| | | 337.5 | 70.0 | 24.92 | 68.6 | 23.86 | 67.2 | 23.12 | 65.8 | 22.16 | 65.2 | 21.52 | 62.6 | 19.28 |
| | | 405.0 | 70.6 | 24.92 | 69.2 | 23.86 | 67.6 | 23.12 | 66.2 | 22.16 | 65.8 | 21.52 | 63.2 | 19.28 |
| | 5 | 108.0 | 97.8 | 26.46 | 95.4 | 25.46 | 93.2 | 24.82 | 91.2 | 23.76 | 87.6 | 23.10 | 83.4 | 20.68 |
| | | 135.0 | 98.2 | 26.58 | 95.6 | 25.58 | 93.2 | 24.94 | 91.2 | 23.90 | 87.6 | 23.22 | 83.4 | 20.80 |
| | | 270.0 | 99.4 | 27.04 | 96.4 | 26.06 | 93.4 | 25.44 | 91.2 | 24.38 | 87.6 | 23.68 | 83.4 | 21.20 |
| | | 337.5 | 100.0 | 27.22 | 96.6 | 26.22 | 93.4 | 25.62 | 91.2 | 24.56 | 87.6 | 23.86 | 83.4 | 21.34 |
| | | 405.0 | 100.4 | 27.32 | 96.8 | 26.32 | 93.4 | 25.70 | 91.2 | 24.66 | 87.6 | 23.94 | 83.4 | 21.42 |
| | 10 | 108.0 | 98.2 | 23.72 | 95.8 | 22.92 | 93.2 | 22.42 | 91.0 | 21.66 | 87.4 | 20.96 | 83.2 | 18.84 |
| | | 135.0 | 98.6 | 23.78 | 96.0 | 22.98 | 93.2 | 22.48 | 91.2 | 21.70 | 87.6 | 20.94 | 83.4 | 18.86 |
| | | 270.0 | 100.0 | 23.94 | 97.0 | 23.24 | 93.8 | 22.74 | 91.8 | 21.82 | 88.2 | 20.88 | 83.8 | 18.94 |
| | | 337.5 | 100.6 | 23.94 | 97.4 | 23.24 | 94.2 | 22.70 | 91.8 | 21.76 | 88.4 | 20.96 | 84.0 | 19.16 |
| | | 405.0 | 100.8 | 23.94 | 97.6 | 23.24 | 94.4 | 22.66 | 92.0 | 21.72 | 88.4 | 21.02 | 84.2 | 19.26 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 108.0 | 98.4 | 21.00 | 95.8 | 20.42 | 93.0 | 20.06 | 90.8 | 19.58 | 87.4 | 18.80 | 83.2 | 17.04 |
| | | 135.0 | 98.8 | 20.96 | 96.2 | 20.42 | 93.4 | 20.06 | 91.2 | 19.50 | 87.6 | 18.66 | 83.4 | 16.96 |
| | | 270.0 | 100.6 | 20.84 | 97.6 | 20.42 | 94.4 | 20.06 | 92.2 | 19.22 | 88.8 | 18.10 | 84.2 | 16.66 |
| | | 337.5 | 101.0 | 20.70 | 98.2 | 20.24 | 95.0 | 19.80 | 92.6 | 18.94 | 89.0 | 18.10 | 84.6 | 16.96 |
| | | 405.0 | 101.4 | 20.62 | 98.4 | 20.14 | 95.2 | 19.66 | 92.8 | 18.82 | 89.2 | 18.10 | 85.0 | 17.10 |
| | 20 | 108.0 | 100.2 | 18.12 | 97.6 | 17.70 | 94.4 | 17.26 | 91.8 | 16.96 | 88.6 | 16.48 | 83.8 | 15.42 |
| | | 135.0 | 100.8 | 18.16 | 97.8 | 17.70 | 94.6 | 17.26 | 92.2 | 16.96 | 88.8 | 16.40 | 84.2 | 15.38 |
| | | 270.0 | 103.0 | 18.30 | 99.2 | 17.70 | 95.8 | 17.26 | 93.6 | 16.96 | 89.8 | 16.12 | 85.4 | 15.26 |
| | | 337.5 | 103.6 | 18.30 | 100.0 | 17.70 | 96.4 | 17.26 | 93.8 | 16.66 | 90.4 | 16.12 | 85.8 | 15.26 |
| | | 405.0 | 103.8 | 18.30 | 100.4 | 17.70 | 96.6 | 17.26 | 94.0 | 16.52 | 90.6 | 16.12 | 85.8 | 15.26 |
| | 25 | 108.0 | 103.4 | 16.50 | 100.4 | 15.88 | 96.4 | 15.64 | 94.2 | 15.04 | 91.0 | 14.48 | 86.0 | 13.28 |
| | | 135.0 | 103.6 | 16.46 | 100.4 | 15.82 | 96.4 | 15.56 | 94.2 | 14.98 | 91.0 | 14.42 | 86.0 | 13.28 |
| | | 270.0 | 104.4 | 16.34 | 100.4 | 15.56 | 96.4 | 15.26 | 94.2 | 14.70 | 91.0 | 14.12 | 86.0 | 13.28 |
| | | 337.5 | 105.0 | 16.34 | 100.4 | 15.62 | 96.4 | 14.98 | 94.2 | 14.70 | 91.0 | 13.86 | 86.0 | 13.02 |
| | | 405.0 | 105.2 | 16.34 | 100.4 | 15.64 | 96.4 | 14.82 | 94.2 | 14.70 | 91.0 | 13.72 | 86.0 | 12.88 |
| | 30 | 108.0 | 105.0 | 15.04 | 100.4 | 14.48 | 96.4 | 13.94 | 94.2 | 13.64 | 91.0 | 12.80 | 86.0 | 11.94 |
| | | 135.0 | 105.0 | 14.98 | 100.4 | 14.42 | 96.4 | 13.86 | 94.2 | 13.56 | 91.0 | 12.72 | 86.0 | 11.88 |
| | | 270.0 | 105.0 | 14.70 | 100.4 | 14.12 | 96.4 | 13.56 | 94.2 | 13.28 | 91.0 | 12.42 | 86.0 | 11.58 |
| | | 337.5 | 105.0 | 14.60 | 100.4 | 13.86 | 96.4 | 13.28 | 94.2 | 13.02 | 91.0 | 12.42 | 86.0 | 11.58 |
| | | 405.0 | 105.0 | 14.54 | 100.4 | 13.72 | 96.4 | 13.12 | 94.2 | 12.88 | 91.0 | 12.42 | 86.0 | 11.58 |
| | 35 | 108.0 | 105.0 | 14.26 | 100.4 | 13.34 | 96.4 | 12.80 | 94.2 | 12.24 | 91.0 | 11.64 | 86.0 | 10.80 |
| | | 135.0 | 105.0 | 14.12 | 100.4 | 13.28 | 96.4 | 12.72 | 94.2 | 12.16 | 91.0 | 11.58 | 86.0 | 10.74 |
| | | 270.0 | 105.0 | 13.56 | 100.4 | 13.02 | 96.4 | 12.42 | 94.2 | 11.88 | 91.0 | 11.32 | 86.0 | 10.46 |
| | | 337.5 | 105.0 | 13.22 | 100.4 | 12.72 | 96.4 | 12.16 | 94.2 | 11.88 | 91.0 | 11.32 | 86.0 | 10.46 |
| | | 405.0 | 105.0 | 13.04 | 100.4 | 12.58 | 96.4 | 12.04 | 94.2 | 11.88 | 91.0 | 11.32 | 86.0 | 10.46 |
| | 40 | 108.0 | 105.0 | 13.42 | 100.4 | 12.86 | 96.4 | 12.02 | 94.2 | 11.40 | 91.0 | 10.80 | 86.0 | 9.96 |
| | | 135.0 | 105.0 | 13.28 | 100.4 | 12.72 | 96.4 | 11.88 | 94.2 | 11.32 | 91.0 | 10.74 | 86.0 | 9.88 |
| | | 270.0 | 105.0 | 12.72 | 100.4 | 12.16 | 96.4 | 11.32 | 94.2 | 11.02 | 91.0 | 10.46 | 86.0 | 9.62 |
| | | 337.5 | 105.0 | 12.54 | 100.4 | 11.88 | 96.4 | 11.32 | 94.2 | 10.74 | 91.0 | 10.18 | 86.0 | 9.32 |
| | | 405.0 | 105.0 | 12.46 | 100.4 | 11.72 | 96.4 | 11.32 | 94.2 | 10.58 | 91.0 | 10.02 | 86.0 | 9.18 |
| | 45 | 108.0 | 105.0 | 12.56 | 100.4 | 12.38 | 96.4 | 11.24 | 94.2 | 10.54 | 91.0 | 9.96 | 86.0 | 9.10 |
| | | 135.0 | 105.0 | 12.42 | 100.4 | 12.16 | 96.4 | 11.02 | 94.2 | 10.46 | 91.0 | 9.88 | 86.0 | 9.04 |
| | | 270.0 | 105.0 | 11.88 | 100.4 | 11.32 | 96.4 | 10.18 | 94.2 | 10.18 | 91.0 | 9.62 | 86.0 | 8.78 |
| | | 337.5 | 105.0 | 11.88 | 100.4 | 11.02 | 96.4 | 10.46 | 94.2 | 9.62 | 91.0 | 9.04 | 86.0 | 8.18 |
| | | 405.0 | 105.0 | 11.88 | 100.4 | 10.88 | 96.4 | 10.62 | 94.2 | 9.34 | 91.0 | 8.74 | 86.0 | 7.90 |
| 100 | -5 | 108.0 | 35.4 | 18.00 | 35.2 | 16.96 | 35.0 | 15.56 | 34.8 | 14.90 | 34.4 | 14.24 | 33.8 | 12.96 |
| | | 135.0 | 36.6 | 18.30 | 36.4 | 17.28 | 36.2 | 15.90 | 36.0 | 15.24 | 35.6 | 14.56 | 35.0 | 13.24 |
| | | 270.0 | 41.6 | 19.54 | 41.2 | 18.56 | 41.0 | 17.26 | 40.6 | 16.52 | 40.2 | 15.82 | 39.6 | 14.38 |
| | | 337.5 | 45.8 | 20.80 | 45.6 | 19.86 | 45.2 | 18.60 | 44.8 | 17.84 | 44.6 | 17.04 | 43.8 | 15.50 |
| | | 405.0 | 48.0 | 21.42 | 47.6 | 20.50 | 47.4 | 19.28 | 47.0 | 18.50 | 46.8 | 17.66 | 45.8 | 16.06 |
| | 0 | 108.0 | 63.4 | 24.62 | 62.0 | 23.88 | 60.6 | 22.80 | 59.6 | 21.84 | 58.6 | 20.90 | 56.6 | 18.98 |
| | | 135.0 | 63.8 | 24.68 | 62.4 | 23.94 | 61.0 | 22.86 | 60.0 | 21.90 | 59.0 | 20.96 | 56.8 | 19.04 |
| | | 270.0 | 65.2 | 24.92 | 63.8 | 24.18 | 62.4 | 23.12 | 61.4 | 22.16 | 60.4 | 21.20 | 58.2 | 19.28 |
| | | 337.5 | 66.2 | 24.92 | 64.8 | 24.18 | 63.4 | 23.12 | 62.2 | 22.16 | 61.2 | 21.20 | 59.0 | 19.28 |
| | | 405.0 | 66.8 | 24.92 | 65.4 | 24.18 | 64.0 | 23.12 | 62.8 | 22.16 | 61.6 | 21.20 | 59.6 | 19.28 |
| | 5 | 108.0 | 93.6 | 26.46 | 90.4 | 25.82 | 88.0 | 24.82 | 86.4 | 23.76 | 82.2 | 22.74 | 78.4 | 20.68 |
| | | 135.0 | 93.8 | 26.58 | 90.6 | 25.94 | 88.2 | 24.94 | 86.4 | 23.90 | 82.2 | 22.86 | 78.4 | 20.80 |
| | | 270.0 | 95.2 | 27.04 | 91.2 | 26.40 | 88.2 | 25.44 | 86.4 | 24.38 | 82.2 | 23.34 | 78.4 | 21.20 |
| | | 337.5 | 95.8 | 27.22 | 91.4 | 26.58 | 88.2 | 25.62 | 86.4 | 24.56 | 82.2 | 23.48 | 78.4 | 21.34 |
| | | 405.0 | 96.0 | 27.32 | 91.6 | 26.66 | 88.2 | 25.70 | 86.4 | 24.66 | 82.2 | 23.56 | 78.4 | 21.42 |
| | 10 | 108.0 | 94.0 | 23.66 | 90.8 | 23.14 | 88.2 | 22.42 | 86.4 | 21.66 | 82.2 | 20.60 | 78.4 | 18.84 |
| | | 135.0 | 94.2 | 23.78 | 90.8 | 23.22 | 88.2 | 22.48 | 86.4 | 21.70 | 82.2 | 20.62 | 78.4 | 18.86 |
| | | 270.0 | 95.2 | 24.22 | 91.4 | 23.52 | 88.2 | 22.74 | 86.4 | 21.82 | 82.2 | 20.70 | 78.4 | 18.94 |
| | | 337.5 | 95.8 | 24.12 | 91.8 | 23.52 | 88.2 | 22.70 | 86.4 | 21.76 | 82.2 | 20.64 | 78.4 | 18.86 |
| | | 405.0 | 96.2 | 24.08 | 92.0 | 23.52 | 88.2 | 22.66 | 86.4 | 21.72 | 82.2 | 20.62 | 78.4 | 18.82 |
| | 15 | 108.0 | 94.6 | 20.86 | 91.0 | 20.52 | 88.2 | 20.06 | 86.4 | 19.58 | 82.2 | 18.44 | 78.4 | 17.04 |
| | | 135.0 | 94.6 | 20.96 | 91.2 | 20.52 | 88.2 | 20.06 | 86.4 | 19.50 | 82.2 | 18.36 | 78.4 | 16.96 |
| | | 270.0 | 95.2 | 21.38 | 91.4 | 20.58 | 88.2 | 20.06 | 86.4 | 19.22 | 82.2 | 18.10 | 78.4 | 16.66 |
| | | 337.5 | 96.0 | 21.02 | 91.8 | 20.42 | 88.2 | 19.80 | 86.4 | 18.94 | 82.2 | 17.80 | 78.4 | 16.40 |
| | | 405.0 | 96.4 | 20.84 | 92.2 | 20.32 | 88.2 | 19.66 | 86.4 | 18.82 | 82.2 | 17.66 | 78.4 | 16.28 |
| | 20 | 108.0 | 95.0 | 17.84 | 91.6 | 17.38 | 88.2 | 16.96 | 86.4 | 16.74 | 82.2 | 15.64 | 78.4 | 14.86 |
| | | 135.0 | 95.4 | 17.92 | 91.6 | 17.40 | 88.2 | 16.96 | 86.4 | 16.66 | 82.2 | 15.56 | 78.4 | 14.70 |
| | | 270.0 | 96.8 | 18.24 | 91.8 | 17.46 | 88.2 | 16.96 | 86.4 | 16.40 | 82.2 | 15.26 | 78.4 | 14.12 |
| | | 337.5 | 97.4 | 17.92 | 92.8 | 17.32 | 88.2 | 16.66 | 86.4 | 16.12 | 82.2 | 14.98 | 78.4 | 13.86 |
| | | 405.0 | 97.6 | 17.76 | 93.2 | 17.24 | 88.2 | 16.52 | 86.4 | 15.96 | 82.2 | 14.82 | 78.4 | 13.72 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 108.0 | 96.2 | 15.60 | 93.0 | 15.12 | 88.2 | 14.48 | 86.4 | 13.94 | 82.2 | 13.08 | 78.4 | 11.88 |
| | | 135.0 | 96.6 | 15.62 | 93.0 | 15.04 | 88.2 | 14.42 | 86.4 | 13.86 | 82.2 | 13.02 | 78.4 | 11.88 |
| | | 270.0 | 98.0 | 15.68 | 93.0 | 14.70 | 88.2 | 14.12 | 86.4 | 13.56 | 82.2 | 12.72 | 78.4 | 11.88 |
| | | 337.5 | 98.4 | 15.32 | 93.0 | 14.60 | 88.2 | 13.86 | 86.4 | 13.28 | 82.2 | 12.72 | 78.4 | 11.58 |
| | | 405.0 | 98.8 | 15.14 | 93.0 | 14.54 | 88.2 | 13.72 | 86.4 | 13.12 | 82.2 | 12.72 | 78.4 | 11.44 |
| | 30 | 108.0 | 98.4 | 14.20 | 93.0 | 13.08 | 88.2 | 12.20 | 86.4 | 11.94 | 82.2 | 11.02 | 78.4 | 10.54 |
| | | 135.0 | 98.4 | 14.12 | 93.0 | 13.02 | 88.2 | 12.16 | 86.4 | 11.88 | 82.2 | 11.02 | 78.4 | 10.46 |
| | | 270.0 | 98.4 | 13.86 | 93.0 | 12.72 | 88.2 | 12.04 | 86.4 | 11.58 | 82.2 | 11.02 | 78.4 | 10.18 |
| | | 337.5 | 98.4 | 13.56 | 93.0 | 12.72 | 88.2 | 11.88 | 86.4 | 11.58 | 82.2 | 10.74 | 78.4 | 10.18 |
| | | 405.0 | 98.4 | 13.42 | 93.0 | 12.72 | 88.2 | 11.78 | 86.4 | 11.58 | 82.2 | 10.58 | 78.4 | 10.18 |
| | 35 | 108.0 | 98.4 | 13.16 | 93.0 | 12.02 | 88.2 | 10.76 | 86.4 | 10.54 | 82.2 | 9.96 | 78.4 | 9.10 |
| | | 135.0 | 98.4 | 13.02 | 93.0 | 11.88 | 88.2 | 10.74 | 86.4 | 10.46 | 82.2 | 9.88 | 78.4 | 9.04 |
| | | 270.0 | 98.4 | 12.42 | 93.0 | 11.32 | 88.2 | 10.62 | 86.4 | 10.18 | 82.2 | 9.62 | 78.4 | 8.78 |
| | | 337.5 | 98.4 | 12.42 | 93.0 | 11.32 | 88.2 | 10.46 | 86.4 | 10.18 | 82.2 | 9.62 | 78.4 | 8.78 |
| | | 405.0 | 98.4 | 12.42 | 93.0 | 11.32 | 88.2 | 10.40 | 86.4 | 10.18 | 82.2 | 9.62 | 78.4 | 8.78 |
| | 40 | 108.0 | 98.4 | 12.32 | 93.0 | 11.16 | 88.2 | 9.64 | 86.4 | 9.40 | 82.2 | 8.84 | 78.4 | 8.26 |
| | | 135.0 | 98.4 | 12.16 | 93.0 | 11.02 | 88.2 | 9.62 | 86.4 | 9.32 | 82.2 | 8.78 | 78.4 | 8.18 |
| | | 270.0 | 98.4 | 11.58 | 93.0 | 10.46 | 88.2 | 9.50 | 86.4 | 9.04 | 82.2 | 8.48 | 78.4 | 7.92 |
| | | 337.5 | 98.4 | 11.32 | 93.0 | 10.46 | 88.2 | 9.32 | 86.4 | 9.04 | 82.2 | 8.48 | 78.4 | 7.92 |
| | | 405.0 | 98.4 | 11.18 | 93.0 | 10.46 | 88.2 | 9.24 | 86.4 | 9.04 | 82.2 | 8.48 | 78.4 | 7.92 |
| | 45 | 108.0 | 98.4 | 11.46 | 93.0 | 10.32 | 88.2 | 8.50 | 86.4 | 8.26 | 82.2 | 7.70 | 78.4 | 7.40 |
| | | 135.0 | 98.4 | 11.32 | 93.0 | 10.18 | 88.2 | 8.48 | 86.4 | 8.18 | 82.2 | 7.64 | 78.4 | 7.34 |
| | | 270.0 | 98.4 | 10.74 | 93.0 | 9.62 | 88.2 | 8.36 | 86.4 | 7.92 | 82.2 | 7.34 | 78.4 | 7.08 |
| | | 337.5 | 98.4 | 10.18 | 93.0 | 9.62 | 88.2 | 8.18 | 86.4 | 7.92 | 82.2 | 7.34 | 78.4 | 7.08 |
| | | 405.0 | 98.4 | 9.90 | 93.0 | 9.62 | 88.2 | 8.10 | 86.4 | 7.92 | 82.2 | 7.34 | 78.4 | 7.08 |
| 90 | -5 | 108.0 | 33.4 | 16.70 | 32.4 | 15.20 | 31.4 | 13.36 | 31.2 | 12.74 | 31.0 | 12.28 | 30.4 | 11.02 |
| | | 135.0 | 34.6 | 16.98 | 33.6 | 15.50 | 32.6 | 13.66 | 32.4 | 13.02 | 32.0 | 12.54 | 31.6 | 11.26 |
| | | 270.0 | 39.2 | 18.12 | 38.0 | 16.64 | 36.8 | 14.82 | 36.6 | 14.12 | 36.4 | 13.62 | 35.6 | 12.22 |
| | | 337.5 | 43.4 | 19.28 | 42.0 | 17.80 | 40.6 | 16.00 | 40.4 | 15.24 | 40.2 | 14.68 | 39.4 | 13.18 |
| | | 405.0 | 45.4 | 19.84 | 44.0 | 18.40 | 42.6 | 16.58 | 42.2 | 15.80 | 42.0 | 15.20 | 41.2 | 13.68 |
| | 0 | 108.0 | 59.8 | 22.74 | 57.2 | 21.34 | 54.4 | 19.60 | 53.6 | 18.70 | 52.8 | 18.00 | 50.8 | 16.16 |
| | | 135.0 | 60.2 | 22.80 | 57.4 | 21.40 | 54.8 | 19.66 | 54.0 | 18.74 | 53.0 | 18.04 | 51.2 | 16.20 |
| | | 270.0 | 61.6 | 23.04 | 58.8 | 21.64 | 56.2 | 19.86 | 55.2 | 18.94 | 54.4 | 18.24 | 52.4 | 16.38 |
| | | 337.5 | 62.6 | 23.04 | 59.6 | 21.64 | 57.0 | 19.86 | 56.0 | 18.94 | 55.2 | 18.24 | 53.2 | 16.38 |
| | | 405.0 | 63.0 | 23.04 | 60.2 | 21.64 | 57.4 | 19.86 | 56.4 | 18.94 | 55.6 | 18.24 | 53.6 | 16.38 |
| | 5 | 108.0 | 84.6 | 24.42 | 81.8 | 23.04 | 79.2 | 21.34 | 77.6 | 20.34 | 74.2 | 19.58 | 70.6 | 17.58 |
| | | 135.0 | 84.6 | 24.54 | 81.8 | 23.16 | 79.2 | 21.44 | 77.6 | 20.44 | 74.2 | 19.68 | 70.6 | 17.66 |
| | | 270.0 | 85.0 | 24.98 | 81.6 | 23.60 | 79.2 | 21.84 | 77.6 | 20.84 | 74.2 | 20.08 | 70.6 | 18.02 |
| | | 337.5 | 85.4 | 25.12 | 81.8 | 23.74 | 79.2 | 22.02 | 77.6 | 21.00 | 74.2 | 20.24 | 70.6 | 18.16 |
| | | 405.0 | 85.8 | 25.20 | 82.0 | 23.82 | 79.2 | 22.10 | 77.6 | 21.06 | 74.2 | 20.30 | 70.6 | 18.24 |
| | 10 | 108.0 | 85.0 | 21.56 | 82.2 | 20.50 | 79.2 | 19.30 | 77.6 | 18.52 | 74.2 | 17.76 | 70.6 | 16.00 |
| | | 135.0 | 85.0 | 21.58 | 82.0 | 20.52 | 79.2 | 19.32 | 77.6 | 18.54 | 74.2 | 17.74 | 70.6 | 16.02 |
| | | 270.0 | 84.8 | 21.64 | 81.6 | 20.62 | 79.2 | 19.42 | 77.6 | 18.62 | 74.2 | 17.70 | 70.6 | 16.08 |
| | | 337.5 | 85.4 | 21.58 | 81.8 | 20.56 | 79.2 | 19.36 | 77.6 | 18.56 | 74.2 | 17.74 | 70.6 | 16.14 |
| | | 405.0 | 85.6 | 21.56 | 82.0 | 20.52 | 79.2 | 19.32 | 77.6 | 18.54 | 74.2 | 17.78 | 70.6 | 16.18 |
| | 15 | 108.0 | 85.4 | 18.68 | 82.4 | 18.00 | 79.2 | 17.32 | 77.6 | 16.74 | 74.2 | 15.96 | 70.6 | 14.48 |
| | | 135.0 | 85.4 | 18.60 | 82.2 | 17.92 | 79.2 | 17.26 | 77.6 | 16.66 | 74.2 | 15.82 | 70.6 | 14.42 |
| | | 270.0 | 84.8 | 18.30 | 81.8 | 17.64 | 79.2 | 16.96 | 77.6 | 16.40 | 74.2 | 15.26 | 70.6 | 14.12 |
| | | 337.5 | 85.4 | 18.04 | 82.0 | 17.36 | 79.2 | 16.66 | 77.6 | 16.12 | 74.2 | 15.26 | 70.6 | 14.12 |
| | | 405.0 | 85.6 | 17.90 | 82.0 | 17.24 | 79.2 | 16.52 | 77.6 | 15.96 | 74.2 | 15.26 | 70.6 | 14.12 |
| | 20 | 108.0 | 86.0 | 15.76 | 82.8 | 15.30 | 79.2 | 14.78 | 77.6 | 14.20 | 74.2 | 13.70 | 70.6 | 12.86 |
| | | 135.0 | 86.0 | 15.76 | 82.6 | 15.26 | 79.2 | 14.70 | 77.6 | 14.12 | 74.2 | 13.56 | 70.6 | 12.72 |
| | | 270.0 | 85.6 | 15.76 | 82.0 | 15.08 | 79.2 | 14.42 | 77.6 | 13.86 | 74.2 | 13.02 | 70.6 | 12.16 |
| | | 337.5 | 85.8 | 15.50 | 82.2 | 14.98 | 79.2 | 14.42 | 77.6 | 13.86 | 74.2 | 13.02 | 70.6 | 12.16 |
| | | 405.0 | 86.0 | 15.36 | 82.4 | 14.92 | 79.2 | 14.42 | 77.6 | 13.86 | 74.2 | 13.02 | 70.6 | 12.16 |
| | 25 | 108.0 | 87.4 | 13.78 | 83.8 | 13.04 | 79.2 | 12.50 | 77.6 | 11.88 | 74.2 | 11.40 | 70.6 | 10.54 |
| | | 135.0 | 87.6 | 13.74 | 83.8 | 13.02 | 79.2 | 12.42 | 77.6 | 11.88 | 74.2 | 11.32 | 70.6 | 10.46 |
| | | 270.0 | 88.4 | 13.62 | 83.8 | 12.90 | 79.2 | 12.16 | 77.6 | 11.88 | 74.2 | 11.02 | 70.6 | 10.18 |
| | | 337.5 | 88.8 | 13.28 | 83.8 | 12.60 | 79.2 | 12.16 | 77.6 | 11.58 | 74.2 | 11.02 | 70.6 | 10.18 |
| | | 405.0 | 89.0 | 13.10 | 83.8 | 12.46 | 79.2 | 12.16 | 77.6 | 11.44 | 74.2 | 11.02 | 70.6 | 10.18 |
| | 30 | 108.0 | 88.8 | 12.50 | 83.8 | 11.64 | 79.2 | 10.80 | 77.6 | 10.54 | 74.2 | 9.96 | 70.6 | 9.04 |
| | | 135.0 | 88.8 | 12.42 | 83.8 | 11.58 | 79.2 | 10.74 | 77.6 | 10.46 | 74.2 | 9.88 | 70.6 | 9.04 |
| | | 270.0 | 88.8 | 12.16 | 83.8 | 11.32 | 79.2 | 10.46 | 77.6 | 10.18 | 74.2 | 9.62 | 70.6 | 9.04 |
| | | 337.5 | 88.8 | 11.88 | 83.8 | 11.02 | 79.2 | 10.46 | 77.6 | 10.18 | 74.2 | 9.62 | 70.6 | 8.78 |
| | | 405.0 | 88.8 | 11.72 | 83.8 | 10.88 | 79.2 | 10.46 | 77.6 | 10.18 | 74.2 | 9.62 | 70.6 | 8.64 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Heating Capacity(28HP)

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 108.0 | 88.8 | 11.40 | 83.8 | 10.54 | 79.2 | 9.70 | 77.6 | 9.40 | 74.2 | 8.84 | 70.6 | 8.26 |
| | | 135.0 | 88.8 | 11.32 | 83.8 | 10.46 | 79.2 | 9.62 | 77.6 | 9.32 | 74.2 | 8.78 | 70.6 | 8.18 |
| | | 270.0 | 88.8 | 11.02 | 83.8 | 10.18 | 79.2 | 9.32 | 77.6 | 9.04 | 74.2 | 8.48 | 70.6 | 7.92 |
| | | 337.5 | 88.8 | 10.74 | 83.8 | 9.88 | 79.2 | 9.04 | 77.6 | 8.78 | 74.2 | 8.48 | 70.6 | 7.92 |
| | | 405.0 | 88.8 | 10.58 | 83.8 | 9.74 | 79.2 | 8.88 | 77.6 | 8.64 | 74.2 | 8.48 | 70.6 | 7.92 |
| | 40 | 108.0 | 88.8 | 10.62 | 83.8 | 9.70 | 79.2 | 8.56 | 77.6 | 8.26 | 74.2 | 8.00 | 70.6 | 7.40 |
| | | 135.0 | 88.8 | 10.46 | 83.8 | 9.62 | 79.2 | 8.48 | 77.6 | 8.18 | 74.2 | 7.92 | 70.6 | 7.34 |
| | | 270.0 | 88.8 | 9.88 | 83.8 | 9.32 | 79.2 | 8.18 | 77.6 | 7.92 | 74.2 | 7.64 | 70.6 | 7.08 |
| | | 337.5 | 88.8 | 9.88 | 83.8 | 9.32 | 79.2 | 8.18 | 77.6 | 7.92 | 74.2 | 7.64 | 70.6 | 7.08 |
| | | 405.0 | 88.8 | 9.88 | 83.8 | 9.32 | 79.2 | 8.18 | 77.6 | 7.92 | 74.2 | 7.64 | 70.6 | 7.08 |
| | 45 | 108.0 | 88.8 | 9.84 | 83.8 | 8.84 | 79.2 | 7.40 | 77.6 | 7.16 | 74.2 | 7.16 | 70.6 | 6.56 |
| | | 135.0 | 88.8 | 9.62 | 83.8 | 8.78 | 79.2 | 7.34 | 77.6 | 7.08 | 74.2 | 7.08 | 70.6 | 6.50 |
| | | 270.0 | 88.8 | 8.78 | 83.8 | 8.48 | 79.2 | 7.08 | 77.6 | 6.78 | 74.2 | 6.78 | 70.6 | 6.22 |
| | | 337.5 | 88.8 | 9.04 | 83.8 | 8.78 | 79.2 | 7.34 | 77.6 | 7.08 | 74.2 | 6.78 | 70.6 | 6.22 |
| | | 405.0 | 88.8 | 9.16 | 83.8 | 8.92 | 79.2 | 7.48 | 77.6 | 7.22 | 74.2 | 6.78 | 70.6 | 6.22 |
| 80 | -5 | 108.0 | 31.6 | 11.90 | 29.6 | 11.44 | 28.0 | 10.96 | 27.8 | 10.60 | 27.6 | 10.10 | 27.0 | 9.30 |
| | | 135.0 | 32.8 | 12.16 | 30.6 | 11.70 | 29.0 | 11.20 | 28.8 | 10.82 | 28.6 | 10.32 | 28.0 | 9.50 |
| | | 270.0 | 37.0 | 13.22 | 34.8 | 12.70 | 32.8 | 12.14 | 32.4 | 11.72 | 32.4 | 11.20 | 31.6 | 10.30 |
| | | 337.5 | 41.0 | 14.24 | 38.4 | 13.68 | 36.2 | 13.10 | 35.8 | 12.66 | 35.6 | 12.08 | 35.0 | 11.12 |
| | | 405.0 | 43.0 | 14.76 | 40.2 | 14.18 | 38.0 | 13.58 | 37.6 | 13.14 | 37.4 | 12.52 | 36.6 | 11.52 |
| | 0 | 108.0 | 56.6 | 17.46 | 52.2 | 16.76 | 48.6 | 16.06 | 47.6 | 15.52 | 47.0 | 14.78 | 45.2 | 13.62 |
| | | 135.0 | 56.8 | 17.52 | 52.4 | 16.82 | 48.8 | 16.12 | 48.0 | 15.56 | 47.2 | 14.82 | 45.4 | 13.66 |
| | | 270.0 | 58.2 | 17.72 | 53.6 | 17.02 | 50.0 | 16.28 | 49.0 | 15.74 | 48.4 | 15.00 | 46.6 | 13.80 |
| | | 337.5 | 59.0 | 17.72 | 54.4 | 17.02 | 50.8 | 16.28 | 49.8 | 15.74 | 49.2 | 15.00 | 47.2 | 13.80 |
| | | 405.0 | 59.4 | 17.72 | 54.8 | 17.02 | 51.2 | 16.28 | 50.2 | 15.74 | 49.6 | 15.00 | 47.6 | 13.80 |
| | 5 | 108.0 | 78.2 | 19.00 | 73.8 | 18.28 | 70.6 | 17.44 | 69.0 | 16.88 | 66.0 | 16.08 | 62.8 | 14.80 |
| | | 135.0 | 78.4 | 19.10 | 74.0 | 18.36 | 70.6 | 17.54 | 69.0 | 16.96 | 66.0 | 16.18 | 62.8 | 14.88 |
| | | 270.0 | 79.0 | 19.50 | 74.4 | 18.72 | 70.6 | 17.92 | 69.0 | 17.32 | 66.0 | 16.50 | 62.8 | 15.20 |
| | | 337.5 | 79.0 | 19.62 | 74.4 | 18.86 | 70.6 | 18.04 | 69.0 | 17.42 | 66.0 | 16.60 | 62.8 | 15.30 |
| | | 405.0 | 79.0 | 19.68 | 74.4 | 18.94 | 70.6 | 18.10 | 69.0 | 17.48 | 66.0 | 16.66 | 62.8 | 15.34 |
| | 10 | 108.0 | 78.6 | 17.48 | 74.0 | 16.68 | 70.6 | 15.84 | 69.0 | 15.40 | 66.0 | 14.58 | 62.8 | 13.50 |
| | | 135.0 | 78.6 | 17.46 | 74.2 | 16.66 | 70.6 | 15.84 | 69.0 | 15.42 | 66.0 | 14.60 | 62.8 | 13.50 |
| | | 270.0 | 79.0 | 17.36 | 74.4 | 16.58 | 70.6 | 15.88 | 69.0 | 15.44 | 66.0 | 14.62 | 62.8 | 13.54 |
| | | 337.5 | 79.0 | 17.32 | 74.4 | 16.64 | 70.6 | 15.94 | 69.0 | 15.36 | 66.0 | 14.54 | 62.8 | 13.46 |
| | | 405.0 | 79.0 | 17.28 | 74.4 | 16.66 | 70.6 | 15.96 | 69.0 | 15.30 | 66.0 | 14.48 | 62.8 | 13.40 |
| | 15 | 108.0 | 79.0 | 15.96 | 74.4 | 15.12 | 70.6 | 14.20 | 69.0 | 13.94 | 66.0 | 13.08 | 62.8 | 12.24 |
| | | 135.0 | 79.0 | 15.82 | 74.4 | 14.98 | 70.6 | 14.12 | 69.0 | 13.86 | 66.0 | 13.02 | 62.8 | 12.16 |
| | | 270.0 | 79.0 | 15.26 | 74.4 | 14.42 | 70.6 | 13.86 | 69.0 | 13.56 | 66.0 | 12.72 | 62.8 | 11.88 |
| | | 337.5 | 79.0 | 14.98 | 74.4 | 14.42 | 70.6 | 13.86 | 69.0 | 13.28 | 66.0 | 12.42 | 62.8 | 11.58 |
| | | 405.0 | 79.0 | 14.82 | 74.4 | 14.42 | 70.6 | 13.86 | 69.0 | 13.12 | 66.0 | 12.28 | 62.8 | 11.44 |
| | 20 | 108.0 | 79.0 | 13.34 | 74.4 | 12.80 | 70.6 | 12.16 | 69.0 | 11.94 | 66.0 | 11.40 | 62.8 | 10.54 |
| | | 135.0 | 79.0 | 13.28 | 74.4 | 12.72 | 70.6 | 12.16 | 69.0 | 11.88 | 66.0 | 11.32 | 62.8 | 10.46 |
| | | 270.0 | 79.0 | 13.02 | 74.4 | 12.42 | 70.6 | 12.16 | 69.0 | 11.58 | 66.0 | 11.02 | 62.8 | 10.18 |
| | | 337.5 | 79.0 | 12.72 | 74.4 | 12.16 | 70.6 | 11.88 | 69.0 | 11.58 | 66.0 | 10.74 | 62.8 | 10.18 |
| | | 405.0 | 79.0 | 12.58 | 74.4 | 12.04 | 70.6 | 11.72 | 69.0 | 11.58 | 66.0 | 10.58 | 62.8 | 10.18 |
| | 25 | 108.0 | 79.0 | 11.94 | 74.4 | 11.10 | 70.6 | 10.46 | 69.0 | 10.24 | 66.0 | 9.70 | 62.8 | 9.10 |
| | | 135.0 | 79.0 | 11.88 | 74.4 | 11.02 | 70.6 | 10.46 | 69.0 | 10.18 | 66.0 | 9.62 | 62.8 | 9.04 |
| | | 270.0 | 79.0 | 11.58 | 74.4 | 10.74 | 70.6 | 10.46 | 69.0 | 9.88 | 66.0 | 9.32 | 62.8 | 8.78 |
| | | 337.5 | 79.0 | 11.32 | 74.4 | 10.74 | 70.6 | 10.18 | 69.0 | 9.88 | 66.0 | 9.32 | 62.8 | 8.78 |
| | | 405.0 | 79.0 | 11.18 | 74.4 | 10.74 | 70.6 | 10.02 | 69.0 | 9.88 | 66.0 | 9.32 | 62.8 | 8.78 |
| | 30 | 108.0 | 79.0 | 10.54 | 74.4 | 9.96 | 70.6 | 9.40 | 69.0 | 9.10 | 66.0 | 8.56 | 62.8 | 8.00 |
| | | 135.0 | 79.0 | 10.46 | 74.4 | 9.88 | 70.6 | 9.32 | 69.0 | 9.04 | 66.0 | 8.48 | 62.8 | 7.92 |
| | | 270.0 | 79.0 | 10.18 | 74.4 | 9.62 | 70.6 | 9.04 | 69.0 | 8.78 | 66.0 | 8.18 | 62.8 | 7.64 |
| | | 337.5 | 79.0 | 10.18 | 74.4 | 9.62 | 70.6 | 9.04 | 69.0 | 8.78 | 66.0 | 8.18 | 62.8 | 7.64 |
| | | 405.0 | 79.0 | 10.18 | 74.4 | 9.62 | 70.6 | 9.04 | 69.0 | 8.78 | 66.0 | 8.18 | 62.8 | 7.64 |
| | 35 | 108.0 | 79.0 | 9.70 | 74.4 | 9.10 | 70.6 | 8.26 | 69.0 | 7.92 | 66.0 | 7.70 | 62.8 | 7.08 |
| | | 135.0 | 79.0 | 9.62 | 74.4 | 9.04 | 70.6 | 8.18 | 69.0 | 7.92 | 66.0 | 7.64 | 62.8 | 7.08 |
| | | 270.0 | 79.0 | 9.32 | 74.4 | 8.78 | 70.6 | 7.92 | 69.0 | 7.92 | 66.0 | 7.34 | 62.8 | 7.08 |
| | | 337.5 | 79.0 | 9.32 | 74.4 | 8.48 | 70.6 | 7.92 | 69.0 | 7.64 | 66.0 | 7.34 | 62.8 | 6.78 |
| | | 405.0 | 79.0 | 9.32 | 74.4 | 8.34 | 70.6 | 7.92 | 69.0 | 7.48 | 66.0 | 7.34 | 62.8 | 6.64 |
| | 40 | 108.0 | 79.0 | 9.18 | 74.4 | 8.26 | 70.6 | 7.34 | 69.0 | 7.40 | 66.0 | 6.78 | 62.8 | 6.56 |
| | | 135.0 | 79.0 | 9.04 | 74.4 | 8.18 | 70.6 | 7.34 | 69.0 | 7.34 | 66.0 | 6.78 | 62.8 | 6.50 |
| | | 270.0 | 79.0 | 8.48 | 74.4 | 7.92 | 70.6 | 7.34 | 69.0 | 7.08 | 66.0 | 6.78 | 62.8 | 6.22 |
| | | 337.5 | 79.0 | 8.48 | 74.4 | 7.92 | 70.6 | 7.08 | 69.0 | 7.08 | 66.0 | 6.78 | 62.8 | 6.22 |
| | | 405.0 | 79.0 | 8.48 | 74.4 | 7.92 | 70.6 | 6.94 | 69.0 | 7.08 | 66.0 | 6.78 | 62.8 | 6.22 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 108.0 | 79.0 | 8.70 | 74.4 | 7.40 | 70.6 | 6.42 | 69.0 | 6.92 | 66.0 | 5.86 | 62.8 | 6.08 |
| | | 135.0 | 79.0 | 8.48 | 74.4 | 7.34 | 70.6 | 6.50 | 69.0 | 6.78 | 66.0 | 5.94 | 62.8 | 5.94 |
| | | 270.0 | 79.0 | 7.64 | 74.4 | 7.08 | 70.6 | 6.78 | 69.0 | 6.22 | 66.0 | 6.22 | 62.8 | 5.38 |
| | | 337.5 | 79.0 | 7.64 | 74.4 | 7.34 | 70.6 | 6.22 | 69.0 | 6.50 | 66.0 | 6.22 | 62.8 | 5.64 |
| | | 405.0 | 79.0 | 7.64 | 74.4 | 7.48 | 70.6 | 5.94 | 69.0 | 6.62 | 66.0 | 6.22 | 62.8 | 5.78 |
| 70 | -5 | 108.0 | 27.6 | 10.22 | 26.0 | 9.72 | 24.6 | 9.42 | 24.2 | 8.88 | 24.2 | 8.56 | 23.8 | 7.78 |
| | | 135.0 | 28.6 | 10.44 | 26.8 | 9.94 | 25.4 | 9.62 | 25.2 | 9.06 | 25.0 | 8.74 | 24.6 | 7.96 |
| | | 270.0 | 32.4 | 11.32 | 30.4 | 10.80 | 28.6 | 10.44 | 28.4 | 9.82 | 28.2 | 9.48 | 27.8 | 8.62 |
| | | 337.5 | 35.8 | 12.22 | 33.6 | 11.64 | 31.6 | 11.26 | 31.4 | 10.58 | 31.2 | 10.24 | 30.6 | 9.30 |
| | | 405.0 | 37.6 | 12.68 | 35.2 | 12.06 | 33.2 | 11.68 | 33.0 | 10.96 | 32.6 | 10.62 | 32.0 | 9.64 |
| | 0 | 108.0 | 49.4 | 14.96 | 45.6 | 14.26 | 42.4 | 13.78 | 41.6 | 12.98 | 41.0 | 12.54 | 39.6 | 11.40 |
| | | 135.0 | 49.8 | 15.00 | 46.0 | 14.30 | 42.6 | 13.84 | 42.0 | 13.02 | 41.2 | 12.58 | 39.8 | 11.44 |
| | | 270.0 | 50.8 | 15.18 | 47.0 | 14.44 | 43.6 | 14.00 | 43.0 | 13.16 | 42.2 | 12.72 | 40.6 | 11.56 |
| | | 337.5 | 51.6 | 15.18 | 47.8 | 14.44 | 44.4 | 14.00 | 43.6 | 13.16 | 43.0 | 12.72 | 41.4 | 11.56 |
| | | 405.0 | 52.0 | 15.18 | 48.2 | 14.44 | 44.6 | 14.00 | 43.8 | 13.16 | 43.2 | 12.72 | 41.6 | 11.56 |
| | 5 | 108.0 | 68.2 | 16.30 | 64.6 | 15.50 | 61.6 | 15.00 | 60.4 | 14.14 | 57.6 | 13.64 | 54.8 | 12.40 |
| | | 135.0 | 68.4 | 16.38 | 64.8 | 15.58 | 61.6 | 15.08 | 60.4 | 14.22 | 57.6 | 13.72 | 54.8 | 12.46 |
| | | 270.0 | 69.0 | 16.70 | 65.4 | 15.90 | 61.6 | 15.42 | 60.4 | 14.48 | 57.6 | 14.00 | 54.8 | 12.72 |
| | | 337.5 | 69.0 | 16.82 | 65.2 | 16.02 | 61.6 | 15.52 | 60.4 | 14.60 | 57.6 | 14.10 | 54.8 | 12.80 |
| | | 405.0 | 69.0 | 16.88 | 65.2 | 16.08 | 61.6 | 15.58 | 60.4 | 14.66 | 57.6 | 14.14 | 54.8 | 12.86 |
| | 10 | 108.0 | 68.6 | 15.00 | 65.0 | 14.18 | 61.6 | 13.66 | 60.4 | 12.90 | 57.6 | 12.36 | 54.8 | 11.32 |
| | | 135.0 | 68.6 | 14.98 | 65.0 | 14.16 | 61.6 | 13.62 | 60.4 | 12.90 | 57.6 | 12.36 | 54.8 | 11.32 |
| | | 270.0 | 69.0 | 14.86 | 65.2 | 14.04 | 61.6 | 13.50 | 60.4 | 12.90 | 57.6 | 12.36 | 54.8 | 11.32 |
| | | 337.5 | 69.0 | 14.92 | 65.2 | 14.10 | 61.6 | 13.56 | 60.4 | 12.96 | 57.6 | 12.28 | 54.8 | 11.34 |
| | | 405.0 | 69.0 | 14.94 | 65.2 | 14.12 | 61.6 | 13.60 | 60.4 | 12.98 | 57.6 | 12.24 | 54.8 | 11.36 |
| | 15 | 108.0 | 69.0 | 13.70 | 65.2 | 12.86 | 61.6 | 12.32 | 60.4 | 11.64 | 57.6 | 11.10 | 54.8 | 10.24 |
| | | 135.0 | 69.0 | 13.56 | 65.2 | 12.72 | 61.6 | 12.16 | 60.4 | 11.58 | 57.6 | 11.02 | 54.8 | 10.18 |
| | | 270.0 | 69.0 | 13.02 | 65.2 | 12.16 | 61.6 | 11.58 | 60.4 | 11.32 | 57.6 | 10.74 | 54.8 | 9.88 |
| | | 337.5 | 69.0 | 13.02 | 65.2 | 12.16 | 61.6 | 11.58 | 60.4 | 11.32 | 57.6 | 10.46 | 54.8 | 9.88 |
| | | 405.0 | 69.0 | 13.02 | 65.2 | 12.16 | 61.6 | 11.58 | 60.4 | 11.32 | 57.6 | 10.34 | 54.8 | 9.88 |
| | 20 | 108.0 | 69.0 | 11.40 | 65.2 | 10.80 | 61.6 | 10.54 | 60.4 | 10.24 | 57.6 | 9.70 | 54.8 | 9.10 |
| | | 135.0 | 69.0 | 11.32 | 65.2 | 10.74 | 61.6 | 10.46 | 60.4 | 10.18 | 57.6 | 9.62 | 54.8 | 9.04 |
| | | 270.0 | 69.0 | 11.02 | 65.2 | 10.46 | 61.6 | 10.18 | 60.4 | 9.88 | 57.6 | 9.32 | 54.8 | 8.78 |
| | | 337.5 | 69.0 | 11.02 | 65.2 | 10.46 | 61.6 | 10.18 | 60.4 | 9.62 | 57.6 | 9.32 | 54.8 | 8.48 |
| | | 405.0 | 69.0 | 11.02 | 65.2 | 10.46 | 61.6 | 10.18 | 60.4 | 9.48 | 57.6 | 9.32 | 54.8 | 8.34 |
| | 25 | 108.0 | 69.0 | 10.24 | 65.2 | 9.70 | 61.6 | 9.10 | 60.4 | 8.84 | 57.6 | 8.18 | 54.8 | 7.64 |
| | | 135.0 | 69.0 | 10.18 | 65.2 | 9.62 | 61.6 | 9.04 | 60.4 | 8.78 | 57.6 | 8.18 | 54.8 | 7.64 |
| | | 270.0 | 69.0 | 9.88 | 65.2 | 9.32 | 61.6 | 8.78 | 60.4 | 8.48 | 57.6 | 8.18 | 54.8 | 7.64 |
| | | 337.5 | 69.0 | 9.62 | 65.2 | 9.04 | 61.6 | 8.78 | 60.4 | 8.48 | 57.6 | 7.92 | 54.8 | 7.64 |
| | | 405.0 | 69.0 | 9.48 | 65.2 | 8.88 | 61.6 | 8.78 | 60.4 | 8.48 | 57.6 | 7.80 | 54.8 | 7.64 |
| | 30 | 108.0 | 69.0 | 9.10 | 65.2 | 8.56 | 61.6 | 8.00 | 60.4 | 7.64 | 57.6 | 7.40 | 54.8 | 6.78 |
| | | 135.0 | 69.0 | 9.04 | 65.2 | 8.48 | 61.6 | 7.92 | 60.4 | 7.64 | 57.6 | 7.34 | 54.8 | 6.78 |
| | | 270.0 | 69.0 | 8.78 | 65.2 | 8.18 | 61.6 | 7.64 | 60.4 | 7.64 | 57.6 | 7.08 | 54.8 | 6.78 |
| | | 337.5 | 69.0 | 8.78 | 65.2 | 8.18 | 61.6 | 7.64 | 60.4 | 7.34 | 57.6 | 7.08 | 54.8 | 6.78 |
| | | 405.0 | 69.0 | 8.78 | 65.2 | 8.18 | 61.6 | 7.64 | 60.4 | 7.20 | 57.6 | 7.08 | 54.8 | 6.78 |
| | 35 | 108.0 | 69.0 | 8.26 | 65.2 | 7.70 | 61.6 | 7.08 | 60.4 | 7.16 | 57.6 | 6.50 | 54.8 | 6.30 |
| | | 135.0 | 69.0 | 8.18 | 65.2 | 7.64 | 61.6 | 7.08 | 60.4 | 7.08 | 57.6 | 6.50 | 54.8 | 6.22 |
| | | 270.0 | 69.0 | 7.92 | 65.2 | 7.34 | 61.6 | 7.08 | 60.4 | 6.78 | 57.6 | 6.50 | 54.8 | 5.94 |
| | | 337.5 | 69.0 | 7.92 | 65.2 | 7.34 | 61.6 | 6.78 | 60.4 | 6.78 | 57.6 | 6.50 | 54.8 | 5.94 |
| | | 405.0 | 69.0 | 7.92 | 65.2 | 7.34 | 61.6 | 6.64 | 60.4 | 6.78 | 57.6 | 6.50 | 54.8 | 5.94 |
| | 40 | 108.0 | 69.0 | 7.70 | 65.2 | 7.16 | 61.6 | 6.56 | 60.4 | 6.22 | 57.6 | 5.94 | 54.8 | 5.72 |
| | | 135.0 | 69.0 | 7.64 | 65.2 | 7.08 | 61.6 | 6.50 | 60.4 | 6.22 | 57.6 | 5.94 | 54.8 | 5.64 |
| | | 270.0 | 69.0 | 7.34 | 65.2 | 6.78 | 61.6 | 6.22 | 60.4 | 6.22 | 57.6 | 5.94 | 54.8 | 5.38 |
| | | 337.5 | 69.0 | 7.34 | 65.2 | 6.78 | 61.6 | 6.22 | 60.4 | 5.94 | 57.6 | 5.64 | 54.8 | 5.38 |
| | | 405.0 | 69.0 | 7.34 | 65.2 | 6.78 | 61.6 | 6.22 | 60.4 | 5.78 | 57.6 | 5.50 | 54.8 | 5.38 |
| | 45 | 108.0 | 69.0 | 7.16 | 65.2 | 6.56 | 61.6 | 6.08 | 60.4 | 5.32 | 57.6 | 5.38 | 54.8 | 5.16 |
| | | 135.0 | 69.0 | 7.08 | 65.2 | 6.50 | 61.6 | 5.94 | 60.4 | 5.38 | 57.6 | 5.38 | 54.8 | 5.08 |
| | | 270.0 | 69.0 | 6.78 | 65.2 | 6.22 | 61.6 | 5.38 | 60.4 | 5.64 | 57.6 | 5.38 | 54.8 | 4.80 |
| | | 337.5 | 69.0 | 6.78 | 65.2 | 6.22 | 61.6 | 5.64 | 60.4 | 5.08 | 57.6 | 4.80 | 54.8 | 4.80 |
| | | 405.0 | 69.0 | 6.78 | 65.2 | 6.22 | 61.6 | 5.78 | 60.4 | 4.80 | 57.6 | 4.50 | 54.8 | 4.80 |
| 60 | -5 | 108.0 | 23.8 | 8.30 | 22.2 | 7.98 | 21.0 | 7.66 | 20.8 | 7.12 | 20.6 | 7.00 | 20.2 | 6.26 |
| | | 135.0 | 24.6 | 8.48 | 23.0 | 8.16 | 21.8 | 7.84 | 21.4 | 7.28 | 21.4 | 7.16 | 21.0 | 6.40 |
| | | 270.0 | 27.8 | 9.22 | 26.0 | 8.86 | 24.6 | 8.50 | 24.4 | 7.90 | 24.2 | 7.78 | 23.8 | 6.96 |
| | | 337.5 | 30.6 | 9.92 | 28.8 | 9.56 | 27.2 | 9.18 | 27.0 | 8.54 | 26.8 | 8.40 | 26.2 | 7.48 |
| | | 405.0 | 32.2 | 10.26 | 30.0 | 9.92 | 28.6 | 9.52 | 28.2 | 8.86 | 28.2 | 8.70 | 27.4 | 7.76 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 108.0 | 42.4 | 12.16 | 39.0 | 11.72 | 36.4 | 11.22 | 35.8 | 10.44 | 35.2 | 10.30 | 34.0 | 9.18 |
| | | 135.0 | 42.6 | 12.20 | 39.4 | 11.76 | 36.6 | 11.26 | 36.0 | 10.46 | 35.4 | 10.32 | 34.2 | 9.22 |
| | | 270.0 | 43.6 | 12.34 | 40.2 | 11.88 | 37.6 | 11.40 | 36.8 | 10.58 | 36.2 | 10.44 | 34.8 | 9.30 |
| | | 337.5 | 44.4 | 12.34 | 40.8 | 11.88 | 38.2 | 11.40 | 37.4 | 10.58 | 36.8 | 10.44 | 35.4 | 9.30 |
| | | 405.0 | 44.6 | 12.34 | 41.2 | 11.88 | 38.4 | 11.40 | 37.6 | 10.58 | 37.2 | 10.44 | 35.8 | 9.30 |
| | 5 | 108.0 | 58.6 | 13.24 | 55.2 | 12.74 | 53.0 | 12.22 | 51.6 | 11.38 | 49.4 | 11.20 | 47.0 | 9.98 |
| | | 135.0 | 58.8 | 13.30 | 55.4 | 12.80 | 53.0 | 12.28 | 51.6 | 11.44 | 49.4 | 11.26 | 47.0 | 10.02 |
| | | 270.0 | 59.2 | 13.56 | 55.8 | 13.08 | 53.0 | 12.54 | 51.6 | 11.66 | 49.4 | 11.50 | 47.0 | 10.24 |
| | | 337.5 | 59.2 | 13.68 | 55.8 | 13.16 | 53.0 | 12.64 | 51.6 | 11.76 | 49.4 | 11.56 | 47.0 | 10.32 |
| | | 405.0 | 59.2 | 13.74 | 55.6 | 13.20 | 53.0 | 12.68 | 51.6 | 11.80 | 49.4 | 11.58 | 47.0 | 10.36 |
| | 10 | 108.0 | 59.0 | 12.16 | 55.4 | 11.64 | 53.0 | 11.08 | 51.6 | 10.36 | 49.4 | 10.16 | 47.0 | 9.10 |
| | | 135.0 | 59.0 | 12.16 | 55.6 | 11.64 | 53.0 | 11.08 | 51.6 | 10.38 | 49.4 | 10.14 | 47.0 | 9.12 |
| | | 270.0 | 59.2 | 12.16 | 55.8 | 11.64 | 53.0 | 11.08 | 51.6 | 10.50 | 49.4 | 10.12 | 47.0 | 9.22 |
| | | 337.5 | 59.2 | 12.20 | 55.8 | 11.52 | 53.0 | 10.96 | 51.6 | 10.38 | 49.4 | 10.02 | 47.0 | 9.12 |
| | | 405.0 | 59.2 | 12.20 | 55.6 | 11.46 | 53.0 | 10.90 | 51.6 | 10.32 | 49.4 | 9.98 | 47.0 | 9.08 |
| | 15 | 108.0 | 59.2 | 11.10 | 55.8 | 10.54 | 53.0 | 9.96 | 51.6 | 9.32 | 49.4 | 9.10 | 47.0 | 8.18 |
| | | 135.0 | 59.2 | 11.02 | 55.8 | 10.46 | 53.0 | 9.88 | 51.6 | 9.32 | 49.4 | 9.04 | 47.0 | 8.18 |
| | | 270.0 | 59.2 | 10.74 | 55.8 | 10.18 | 53.0 | 9.62 | 51.6 | 9.32 | 49.4 | 8.78 | 47.0 | 8.18 |
| | | 337.5 | 59.2 | 10.74 | 55.8 | 9.88 | 53.0 | 9.32 | 51.6 | 9.04 | 49.4 | 8.48 | 47.0 | 7.92 |
| | | 405.0 | 59.2 | 10.74 | 55.8 | 9.74 | 53.0 | 9.18 | 51.6 | 8.88 | 49.4 | 8.34 | 47.0 | 7.80 |
| | 20 | 108.0 | 59.2 | 9.70 | 55.8 | 9.10 | 53.0 | 8.56 | 51.6 | 8.26 | 49.4 | 8.00 | 47.0 | 7.40 |
| | | 135.0 | 59.2 | 9.62 | 55.8 | 9.04 | 53.0 | 8.48 | 51.6 | 8.18 | 49.4 | 7.92 | 47.0 | 7.34 |
| | | 270.0 | 59.2 | 9.32 | 55.8 | 8.78 | 53.0 | 8.18 | 51.6 | 7.92 | 49.4 | 7.64 | 47.0 | 7.08 |
| | | 337.5 | 59.2 | 9.32 | 55.8 | 8.78 | 53.0 | 8.18 | 51.6 | 7.92 | 49.4 | 7.64 | 47.0 | 7.08 |
| | | 405.0 | 59.2 | 9.32 | 55.8 | 8.78 | 53.0 | 8.18 | 51.6 | 7.92 | 49.4 | 7.64 | 47.0 | 7.08 |
| | 25 | 108.0 | 59.2 | 8.56 | 55.8 | 8.00 | 53.0 | 7.34 | 51.6 | 7.40 | 49.4 | 6.78 | 47.0 | 6.56 |
| | | 135.0 | 59.2 | 8.48 | 55.8 | 7.92 | 53.0 | 7.34 | 51.6 | 7.34 | 49.4 | 6.78 | 47.0 | 6.50 |
| | | 270.0 | 59.2 | 8.18 | 55.8 | 7.64 | 53.0 | 7.34 | 51.6 | 7.08 | 49.4 | 6.78 | 47.0 | 6.22 |
| | | 337.5 | 59.2 | 8.18 | 55.8 | 7.64 | 53.0 | 7.08 | 51.6 | 7.08 | 49.4 | 6.78 | 47.0 | 6.22 |
| | | 405.0 | 59.2 | 8.18 | 55.8 | 7.64 | 53.0 | 6.94 | 51.6 | 7.08 | 49.4 | 6.78 | 47.0 | 6.22 |
| | 30 | 108.0 | 59.2 | 7.70 | 55.8 | 7.16 | 53.0 | 6.86 | 51.6 | 6.56 | 49.4 | 6.30 | 47.0 | 6.00 |
| | | 135.0 | 59.2 | 7.64 | 55.8 | 7.08 | 53.0 | 6.78 | 51.6 | 6.50 | 49.4 | 6.22 | 47.0 | 5.94 |
| | | 270.0 | 59.2 | 7.34 | 55.8 | 6.78 | 53.0 | 6.50 | 51.6 | 6.22 | 49.4 | 5.94 | 47.0 | 5.64 |
| | | 337.5 | 59.2 | 7.34 | 55.8 | 6.78 | 53.0 | 6.50 | 51.6 | 6.22 | 49.4 | 5.94 | 47.0 | 5.64 |
| | | 405.0 | 59.2 | 7.34 | 55.8 | 6.78 | 53.0 | 6.50 | 51.6 | 6.22 | 49.4 | 5.94 | 47.0 | 5.64 |
| | 35 | 108.0 | 59.2 | 6.78 | 55.8 | 6.56 | 53.0 | 5.94 | 51.6 | 6.00 | 49.4 | 5.72 | 47.0 | 5.46 |
| | | 135.0 | 59.2 | 6.78 | 55.8 | 6.50 | 53.0 | 5.94 | 51.6 | 5.94 | 49.4 | 5.64 | 47.0 | 5.38 |
| | | 270.0 | 59.2 | 6.78 | 55.8 | 6.22 | 53.0 | 5.94 | 51.6 | 5.64 | 49.4 | 5.38 | 47.0 | 5.08 |
| | | 337.5 | 59.2 | 6.78 | 55.8 | 6.22 | 53.0 | 5.64 | 51.6 | 5.64 | 49.4 | 5.38 | 47.0 | 5.08 |
| | | 405.0 | 59.2 | 6.78 | 55.8 | 6.22 | 53.0 | 5.50 | 51.6 | 5.64 | 49.4 | 5.38 | 47.0 | 5.08 |
| | 40 | 108.0 | 59.2 | 6.22 | 55.8 | 6.00 | 53.0 | 5.38 | 51.6 | 5.46 | 49.4 | 5.16 | 47.0 | 4.80 |
| | | 135.0 | 59.2 | 6.22 | 55.8 | 5.94 | 53.0 | 5.38 | 51.6 | 5.38 | 49.4 | 5.08 | 47.0 | 4.80 |
| | | 270.0 | 59.2 | 6.22 | 55.8 | 5.64 | 53.0 | 5.38 | 51.6 | 5.08 | 49.4 | 4.80 | 47.0 | 4.80 |
| | | 337.5 | 59.2 | 6.22 | 55.8 | 5.64 | 53.0 | 5.38 | 51.6 | 5.08 | 49.4 | 4.80 | 47.0 | 4.80 |
| | | 405.0 | 59.2 | 6.22 | 55.8 | 5.64 | 53.0 | 5.38 | 51.6 | 5.08 | 49.4 | 4.80 | 47.0 | 4.80 |
| | 45 | 108.0 | 59.2 | 5.64 | 55.8 | 5.46 | 53.0 | 4.80 | 51.6 | 4.86 | 49.4 | 4.60 | 47.0 | 4.16 |
| | | 135.0 | 59.2 | 5.64 | 55.8 | 5.38 | 53.0 | 4.80 | 51.6 | 4.80 | 49.4 | 4.54 | 47.0 | 4.24 |
| | | 270.0 | 59.2 | 5.64 | 55.8 | 5.08 | 53.0 | 4.80 | 51.6 | 4.54 | 49.4 | 4.24 | 47.0 | 4.54 |
| | | 337.5 | 59.2 | 5.64 | 55.8 | 5.08 | 53.0 | 5.08 | 51.6 | 4.54 | 49.4 | 4.24 | 47.0 | 4.54 |
| | | 405.0 | 59.2 | 5.64 | 55.8 | 5.08 | 53.0 | 5.24 | 51.6 | 4.54 | 49.4 | 4.24 | 47.0 | 4.54 |
| 50 | -5 | 108.0 | 19.8 | 6.62 | 18.6 | 6.26 | 17.6 | 5.92 | 17.2 | 5.60 | 17.2 | 5.26 | 16.8 | 4.98 |
| | | 135.0 | 20.4 | 6.76 | 19.2 | 6.40 | 18.2 | 6.06 | 17.8 | 5.74 | 17.8 | 5.38 | 17.4 | 5.08 |
| | | 270.0 | 23.0 | 7.32 | 21.6 | 6.96 | 20.6 | 6.56 | 20.2 | 6.22 | 20.2 | 5.84 | 19.8 | 5.50 |
| | | 337.5 | 25.6 | 7.90 | 24.0 | 7.48 | 22.6 | 7.08 | 22.4 | 6.72 | 22.2 | 6.28 | 22.0 | 5.94 |
| | | 405.0 | 26.8 | 8.18 | 25.2 | 7.76 | 23.8 | 7.34 | 23.4 | 6.98 | 23.2 | 6.50 | 23.0 | 6.16 |
| | 0 | 108.0 | 35.2 | 9.68 | 32.6 | 9.18 | 30.4 | 8.66 | 29.6 | 8.22 | 29.2 | 7.72 | 28.2 | 7.28 |
| | | 135.0 | 35.4 | 9.70 | 32.8 | 9.22 | 30.6 | 8.68 | 29.8 | 8.24 | 29.4 | 7.74 | 28.4 | 7.32 |
| | | 270.0 | 36.2 | 9.80 | 33.6 | 9.30 | 31.2 | 8.80 | 30.6 | 8.36 | 30.2 | 7.84 | 29.0 | 7.40 |
| | | 337.5 | 36.8 | 9.80 | 34.0 | 9.30 | 31.6 | 8.80 | 31.0 | 8.36 | 30.6 | 7.84 | 29.6 | 7.40 |
| | | 405.0 | 37.2 | 9.80 | 34.2 | 9.30 | 31.8 | 8.80 | 31.4 | 8.36 | 30.8 | 7.84 | 29.8 | 7.40 |
| | 5 | 108.0 | 48.8 | 10.54 | 46.2 | 9.98 | 44.0 | 9.42 | 43.0 | 8.96 | 41.2 | 8.42 | 39.2 | 7.90 |
| | | 135.0 | 48.8 | 10.58 | 46.2 | 10.02 | 44.0 | 9.48 | 43.0 | 9.00 | 41.2 | 8.46 | 39.2 | 7.96 |
| | | 270.0 | 49.2 | 10.80 | 46.6 | 10.24 | 44.2 | 9.68 | 43.0 | 9.18 | 41.2 | 8.60 | 39.2 | 8.12 |
| | | 337.5 | 49.2 | 10.88 | 46.6 | 10.32 | 44.2 | 9.74 | 43.0 | 9.24 | 41.2 | 8.68 | 39.2 | 8.18 |
| | | 405.0 | 49.2 | 10.92 | 46.4 | 10.36 | 44.2 | 9.76 | 43.0 | 9.26 | 41.2 | 8.72 | 39.2 | 8.22 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(28HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 108.0 | 49.0 | 9.70 | 46.2 | 9.14 | 44.0 | 8.58 | 43.0 | 8.20 | 41.2 | 7.58 | 39.2 | 7.24 |
| | | 135.0 | 49.0 | 9.68 | 46.4 | 9.12 | 44.0 | 8.56 | 43.0 | 8.18 | 41.2 | 7.60 | 39.2 | 7.22 |
| | | 270.0 | 49.2 | 9.62 | 46.6 | 9.10 | 44.2 | 8.50 | 43.0 | 8.12 | 41.2 | 7.70 | 39.2 | 7.16 |
| | | 337.5 | 49.2 | 9.68 | 46.6 | 9.12 | 44.2 | 8.54 | 43.0 | 8.16 | 41.2 | 7.58 | 39.2 | 7.20 |
| | | 405.0 | 49.2 | 9.70 | 46.4 | 9.14 | 44.2 | 8.56 | 43.0 | 8.18 | 41.2 | 7.52 | 39.2 | 7.20 |
| | 15 | 108.0 | 49.2 | 8.84 | 46.6 | 8.26 | 44.2 | 7.70 | 43.0 | 7.40 | 41.2 | 6.78 | 39.2 | 6.56 |
| | | 135.0 | 49.2 | 8.78 | 46.6 | 8.18 | 44.2 | 7.64 | 43.0 | 7.34 | 41.2 | 6.78 | 39.2 | 6.50 |
| | | 270.0 | 49.2 | 8.48 | 46.6 | 7.92 | 44.2 | 7.34 | 43.0 | 7.08 | 41.2 | 6.78 | 39.2 | 6.22 |
| | | 337.5 | 49.2 | 8.48 | 46.6 | 7.92 | 44.2 | 7.34 | 43.0 | 7.08 | 41.2 | 6.50 | 39.2 | 6.22 |
| | | 405.0 | 49.2 | 8.48 | 46.6 | 7.92 | 44.2 | 7.34 | 43.0 | 7.08 | 41.2 | 6.34 | 39.2 | 6.22 |
| | 20 | 108.0 | 49.2 | 7.70 | 46.6 | 7.16 | 44.2 | 6.86 | 43.0 | 6.56 | 41.2 | 6.30 | 39.2 | 5.64 |
| | | 135.0 | 49.2 | 7.64 | 46.6 | 7.08 | 44.2 | 6.78 | 43.0 | 6.50 | 41.2 | 6.22 | 39.2 | 5.64 |
| | | 270.0 | 49.2 | 7.34 | 46.6 | 6.78 | 44.2 | 6.50 | 43.0 | 6.22 | 41.2 | 5.94 | 39.2 | 5.64 |
| | | 337.5 | 49.2 | 7.34 | 46.6 | 6.78 | 44.2 | 6.50 | 43.0 | 6.22 | 41.2 | 5.94 | 39.2 | 5.64 |
| | | 405.0 | 49.2 | 7.34 | 46.6 | 6.78 | 44.2 | 6.50 | 43.0 | 6.22 | 41.2 | 5.94 | 39.2 | 5.64 |
| | 25 | 108.0 | 49.2 | 6.86 | 46.6 | 6.22 | 44.2 | 6.00 | 43.0 | 5.64 | 41.2 | 5.38 | 39.2 | 5.08 |
| | | 135.0 | 49.2 | 6.78 | 46.6 | 6.22 | 44.2 | 5.94 | 43.0 | 5.64 | 41.2 | 5.38 | 39.2 | 5.08 |
| | | 270.0 | 49.2 | 6.50 | 46.6 | 6.22 | 44.2 | 5.64 | 43.0 | 5.64 | 41.2 | 5.38 | 39.2 | 5.08 |
| | | 337.5 | 49.2 | 6.50 | 46.6 | 6.22 | 44.2 | 5.64 | 43.0 | 5.64 | 41.2 | 5.38 | 39.2 | 5.08 |
| | | 405.0 | 49.2 | 6.50 | 46.6 | 6.22 | 44.2 | 5.64 | 43.0 | 5.64 | 41.2 | 5.38 | 39.2 | 5.08 |
| | 30 | 108.0 | 49.2 | 6.30 | 46.6 | 5.72 | 44.2 | 5.46 | 43.0 | 5.08 | 41.2 | 5.16 | 39.2 | 4.86 |
| | | 135.0 | 49.2 | 6.22 | 46.6 | 5.64 | 44.2 | 5.38 | 43.0 | 5.08 | 41.2 | 5.08 | 39.2 | 4.80 |
| | | 270.0 | 49.2 | 5.94 | 46.6 | 5.38 | 44.2 | 5.08 | 43.0 | 5.08 | 41.2 | 4.80 | 39.2 | 4.54 |
| | | 337.5 | 49.2 | 5.94 | 46.6 | 5.38 | 44.2 | 5.08 | 43.0 | 5.08 | 41.2 | 4.80 | 39.2 | 4.54 |
| | | 405.0 | 49.2 | 5.94 | 46.6 | 5.38 | 44.2 | 5.08 | 43.0 | 5.08 | 41.2 | 4.80 | 39.2 | 4.54 |
| | 35 | 108.0 | 49.2 | 5.72 | 46.6 | 5.08 | 44.2 | 4.80 | 43.0 | 4.86 | 41.2 | 4.54 | 39.2 | 4.24 |
| | | 135.0 | 49.2 | 5.64 | 46.6 | 5.08 | 44.2 | 4.80 | 43.0 | 4.80 | 41.2 | 4.54 | 39.2 | 4.24 |
| | | 270.0 | 49.2 | 5.38 | 46.6 | 5.08 | 44.2 | 4.80 | 43.0 | 4.54 | 41.2 | 4.54 | 39.2 | 4.24 |
| | | 337.5 | 49.2 | 5.38 | 46.6 | 5.08 | 44.2 | 4.80 | 43.0 | 4.54 | 41.2 | 4.54 | 39.2 | 4.24 |
| | | 405.0 | 49.2 | 5.38 | 46.6 | 5.08 | 44.2 | 4.80 | 43.0 | 4.54 | 41.2 | 4.54 | 39.2 | 4.24 |
| | 40 | 108.0 | 49.2 | 5.16 | 46.6 | 4.86 | 44.2 | 4.60 | 43.0 | 4.24 | 41.2 | 4.32 | 39.2 | 3.94 |
| | | 135.0 | 49.2 | 5.08 | 46.6 | 4.80 | 44.2 | 4.54 | 43.0 | 4.24 | 41.2 | 4.24 | 39.2 | 3.94 |
| | | 270.0 | 49.2 | 4.80 | 46.6 | 4.54 | 44.2 | 4.24 | 43.0 | 4.24 | 41.2 | 3.94 | 39.2 | 3.94 |
| | | 337.5 | 49.2 | 4.80 | 46.6 | 4.54 | 44.2 | 4.24 | 43.0 | 4.24 | 41.2 | 3.94 | 39.2 | 3.94 |
| | | 405.0 | 49.2 | 4.80 | 46.6 | 4.54 | 44.2 | 4.24 | 43.0 | 4.24 | 41.2 | 3.94 | 39.2 | 3.94 |
| | 45 | 108.0 | 49.2 | 4.60 | 46.6 | 4.68 | 44.2 | 4.38 | 43.0 | 3.62 | 41.2 | 4.08 | 39.2 | 3.68 |
| | | 135.0 | 49.2 | 4.54 | 46.6 | 4.54 | 44.2 | 4.24 | 43.0 | 3.68 | 41.2 | 3.94 | 39.2 | 3.68 |
| | | 270.0 | 49.2 | 4.24 | 46.6 | 3.94 | 44.2 | 3.68 | 43.0 | 3.94 | 41.2 | 3.40 | 39.2 | 3.68 |
| | | 337.5 | 49.2 | 4.24 | 46.6 | 3.94 | 44.2 | 3.68 | 43.0 | 3.94 | 41.2 | 3.40 | 39.2 | 3.68 |
| | | 405.0 | 49.2 | 4.24 | 46.6 | 3.94 | 44.2 | 3.68 | 43.0 | 3.94 | 41.2 | 3.40 | 39.2 | 3.68 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN300BAS4

**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 115.6 | 44.7 | 19.03 | 44.4 | 17.91 | 44.1 | 16.67 | 43.5 | 16.18 | 44.0 | 15.77 | 42.8 | 14.14 |
| | | 144.5 | 46.3 | 19.36 | 45.9 | 18.26 | 45.6 | 17.04 | 45.0 | 16.54 | 45.6 | 16.11 | 44.3 | 14.44 |
| | | 289.0 | 52.3 | 20.68 | 51.9 | 19.65 | 51.6 | 18.49 | 50.9 | 17.95 | 51.5 | 17.45 | 50.2 | 15.66 |
| | | 361.3 | 57.8 | 21.99 | 57.3 | 20.99 | 57.0 | 19.93 | 56.3 | 19.39 | 57.0 | 18.83 | 55.5 | 16.89 |
| | | 433.5 | 60.6 | 22.65 | 60.0 | 21.67 | 59.6 | 20.65 | 58.9 | 20.12 | 59.7 | 19.52 | 58.1 | 17.50 |
| | 0 | 115.6 | 79.9 | 26.03 | 78.0 | 25.25 | 76.3 | 24.43 | 74.7 | 23.74 | 75.0 | 23.09 | 71.6 | 20.68 |
| | | 144.5 | 80.4 | 26.10 | 78.5 | 25.31 | 76.9 | 24.49 | 75.2 | 23.81 | 75.4 | 23.15 | 72.0 | 20.74 |
| | | 289.0 | 82.3 | 26.38 | 80.3 | 25.56 | 78.6 | 24.78 | 76.9 | 24.09 | 77.2 | 23.40 | 73.7 | 20.99 |
| | | 361.3 | 83.5 | 26.38 | 81.5 | 25.56 | 79.8 | 24.78 | 78.0 | 24.09 | 78.4 | 23.40 | 74.8 | 20.99 |
| | | 433.5 | 84.2 | 26.38 | 82.1 | 25.56 | 80.4 | 24.78 | 78.6 | 24.09 | 78.9 | 23.40 | 75.4 | 20.99 |
| | 5 | 115.6 | 115.0 | 27.98 | 113.3 | 27.28 | 111.0 | 26.59 | 108.2 | 25.84 | 105.2 | 25.13 | 99.4 | 22.50 |
| | | 144.5 | 115.5 | 28.10 | 113.5 | 27.41 | 111.0 | 26.72 | 108.2 | 25.97 | 105.2 | 25.25 | 99.4 | 22.62 |
| | | 289.0 | 117.0 | 28.60 | 114.2 | 27.92 | 111.0 | 27.26 | 108.2 | 26.50 | 105.2 | 25.75 | 99.4 | 23.09 |
| | | 361.3 | 117.7 | 28.79 | 114.6 | 28.10 | 111.0 | 27.45 | 108.2 | 26.69 | 105.2 | 25.94 | 99.4 | 23.25 |
| | | 433.5 | 118.1 | 28.88 | 114.8 | 28.20 | 111.0 | 27.54 | 108.2 | 26.78 | 105.2 | 26.03 | 99.4 | 23.33 |
| | 10 | 115.6 | 115.1 | 25.45 | 113.3 | 24.60 | 110.6 | 24.14 | 107.7 | 23.59 | 104.8 | 22.79 | 99.0 | 20.57 |
| | | 144.5 | 115.9 | 25.41 | 113.8 | 24.62 | 111.0 | 24.19 | 108.2 | 23.59 | 105.2 | 22.78 | 99.4 | 20.55 |
| | | 289.0 | 118.5 | 25.22 | 115.9 | 24.72 | 112.8 | 24.37 | 109.9 | 23.55 | 106.8 | 22.71 | 101.0 | 20.49 |
| | | 361.3 | 119.2 | 25.56 | 116.8 | 25.07 | 113.5 | 24.47 | 110.4 | 23.65 | 107.5 | 23.09 | 101.6 | 21.46 |
| | | 433.5 | 119.5 | 25.74 | 117.2 | 25.24 | 113.8 | 24.51 | 110.6 | 23.70 | 107.8 | 23.27 | 102.0 | 21.95 |
| | 15 | 115.6 | 115.3 | 22.94 | 113.3 | 21.96 | 110.1 | 21.73 | 107.2 | 21.36 | 104.4 | 20.46 | 98.6 | 18.64 |
| | | 144.5 | 116.3 | 22.71 | 114.2 | 21.87 | 111.0 | 21.68 | 108.2 | 21.21 | 105.2 | 20.30 | 99.4 | 18.49 |
| | | 289.0 | 120.0 | 21.81 | 117.6 | 21.49 | 114.6 | 21.49 | 111.6 | 20.59 | 108.4 | 19.67 | 102.6 | 17.85 |
| | | 361.3 | 120.7 | 22.33 | 118.7 | 21.99 | 115.9 | 21.49 | 112.8 | 20.59 | 109.9 | 20.23 | 103.8 | 19.67 |
| | | 433.5 | 121.0 | 22.61 | 119.3 | 22.24 | 116.6 | 21.49 | 113.4 | 20.59 | 110.6 | 20.52 | 104.4 | 20.59 |
| | 20 | 115.6 | 119.8 | 21.04 | 117.6 | 20.06 | 114.4 | 19.63 | 111.2 | 19.00 | 108.0 | 18.58 | 101.6 | 18.00 |
| | | 144.5 | 120.7 | 20.89 | 118.5 | 20.05 | 115.3 | 19.61 | 112.1 | 19.07 | 109.0 | 18.70 | 102.6 | 17.85 |
| | | 289.0 | 124.5 | 20.30 | 122.3 | 19.99 | 118.9 | 19.55 | 115.7 | 19.39 | 112.8 | 19.20 | 106.3 | 17.27 |
| | | 361.3 | 125.0 | 20.30 | 123.2 | 19.99 | 120.2 | 19.67 | 116.8 | 19.39 | 113.6 | 19.20 | 107.2 | 18.36 |
| | | 433.5 | 125.3 | 20.30 | 123.6 | 19.99 | 121.0 | 19.74 | 117.4 | 19.39 | 114.1 | 19.20 | 107.7 | 18.91 |
| | 25 | 115.6 | 126.4 | 20.06 | 123.2 | 19.48 | 120.2 | 19.16 | 118.0 | 18.84 | 115.3 | 18.56 | 108.7 | 17.34 |
| | | 144.5 | 126.4 | 19.99 | 123.2 | 19.45 | 120.2 | 19.07 | 118.0 | 18.77 | 115.3 | 18.49 | 108.7 | 17.27 |
| | | 289.0 | 126.4 | 19.67 | 123.2 | 19.33 | 120.2 | 18.77 | 118.0 | 18.49 | 115.3 | 18.17 | 108.7 | 16.95 |
| | | 361.3 | 126.4 | 19.39 | 123.2 | 18.83 | 120.2 | 18.49 | 118.0 | 18.17 | 115.3 | 17.85 | 108.7 | 16.67 |
| | | 433.5 | 126.4 | 19.25 | 123.2 | 18.58 | 120.2 | 18.34 | 118.0 | 18.02 | 115.3 | 17.70 | 108.7 | 16.52 |
| | 30 | 115.6 | 126.4 | 19.55 | 123.2 | 18.58 | 120.2 | 18.41 | 118.0 | 17.93 | 115.3 | 17.74 | 108.7 | 16.50 |
| | | 144.5 | 126.4 | 19.39 | 123.2 | 18.55 | 120.2 | 18.30 | 118.0 | 17.85 | 115.3 | 17.57 | 108.7 | 16.35 |
| | | 289.0 | 126.4 | 18.77 | 123.2 | 18.42 | 120.2 | 17.85 | 118.0 | 17.57 | 115.3 | 16.95 | 108.7 | 15.75 |
| | | 361.3 | 126.4 | 18.49 | 123.2 | 17.92 | 120.2 | 17.57 | 118.0 | 17.27 | 115.3 | 16.95 | 108.7 | 15.75 |
| | | 433.5 | 126.4 | 18.34 | 123.2 | 17.67 | 120.2 | 17.44 | 118.0 | 17.10 | 115.3 | 16.95 | 108.7 | 15.75 |
| | 35 | 115.6 | 126.4 | 18.64 | 123.2 | 18.02 | 120.2 | 17.65 | 118.0 | 17.02 | 115.3 | 16.43 | 108.7 | 15.28 |
| | | 144.5 | 126.4 | 18.49 | 123.2 | 17.92 | 120.2 | 17.57 | 118.0 | 16.95 | 115.3 | 16.35 | 108.7 | 15.13 |
| | | 289.0 | 126.4 | 17.85 | 123.2 | 17.51 | 120.2 | 17.27 | 118.0 | 16.67 | 115.3 | 16.04 | 108.7 | 14.53 |
| | | 361.3 | 126.4 | 17.85 | 123.2 | 17.33 | 120.2 | 16.95 | 118.0 | 16.35 | 115.3 | 15.75 | 108.7 | 14.53 |
| | | 433.5 | 126.4 | 17.85 | 123.2 | 17.23 | 120.2 | 16.79 | 118.0 | 16.20 | 115.3 | 15.62 | 108.7 | 14.53 |
| | 40 | 115.6 | 126.4 | 18.00 | 123.2 | 17.44 | 120.2 | 17.10 | 118.0 | 16.50 | 115.3 | 15.92 | 108.7 | 14.38 |
| | | 144.5 | 126.4 | 17.85 | 123.2 | 17.33 | 120.2 | 16.95 | 118.0 | 16.35 | 115.3 | 15.75 | 108.7 | 14.22 |
| | | 289.0 | 126.4 | 17.27 | 123.2 | 16.89 | 120.2 | 16.35 | 118.0 | 15.75 | 115.3 | 15.13 | 108.7 | 13.63 |
| | | 361.3 | 126.4 | 16.95 | 123.2 | 16.60 | 120.2 | 16.35 | 118.0 | 15.75 | 115.3 | 15.13 | 108.7 | 13.63 |
| | | 433.5 | 126.4 | 16.79 | 123.2 | 16.46 | 120.2 | 16.35 | 118.0 | 15.75 | 115.3 | 15.13 | 108.7 | 13.63 |
| | 45 | 115.6 | 126.4 | 17.42 | 123.2 | 16.84 | 120.2 | 16.58 | 118.0 | 15.99 | 115.3 | 15.36 | 108.7 | 13.46 |
| | | 144.5 | 126.4 | 17.27 | 123.2 | 16.73 | 120.2 | 16.35 | 118.0 | 15.75 | 115.3 | 15.13 | 108.7 | 13.31 |
| | | 289.0 | 126.4 | 16.67 | 123.2 | 16.29 | 120.2 | 15.45 | 118.0 | 14.85 | 115.3 | 14.22 | 108.7 | 12.72 |
| | | 361.3 | 126.4 | 16.04 | 123.2 | 15.88 | 120.2 | 15.75 | 118.0 | 15.13 | 115.3 | 14.53 | 108.7 | 12.72 |
| | | 433.5 | 126.4 | 15.73 | 123.2 | 15.68 | 120.2 | 15.92 | 118.0 | 15.28 | 115.3 | 14.70 | 108.7 | 12.72 |
| 120 | -5 | 115.6 | 42.5 | 19.03 | 42.2 | 17.91 | 41.9 | 16.67 | 41.4 | 15.97 | 41.8 | 15.51 | 40.7 | 13.88 |
| | | 144.5 | 43.9 | 19.36 | 43.6 | 18.26 | 43.3 | 17.04 | 42.8 | 16.32 | 43.1 | 15.85 | 42.0 | 14.19 |
| | | 289.0 | 49.7 | 20.68 | 49.3 | 19.65 | 49.1 | 18.49 | 48.4 | 17.70 | 48.9 | 17.20 | 47.6 | 15.41 |
| | | 361.3 | 54.9 | 21.99 | 54.5 | 20.99 | 54.2 | 19.93 | 53.6 | 19.11 | 54.0 | 18.55 | 52.5 | 16.60 |
| | | 433.5 | 57.6 | 22.65 | 57.2 | 21.67 | 56.8 | 20.65 | 56.1 | 19.82 | 56.6 | 19.22 | 54.9 | 17.20 |
| | 0 | 115.6 | 75.9 | 26.03 | 74.1 | 25.25 | 72.5 | 24.43 | 71.1 | 23.40 | 71.1 | 22.74 | 67.8 | 20.33 |
| | | 144.5 | 76.3 | 26.10 | 74.6 | 25.31 | 72.9 | 24.49 | 71.5 | 23.46 | 71.5 | 22.80 | 68.2 | 20.40 |
| | | 289.0 | 78.2 | 26.38 | 76.3 | 25.56 | 74.8 | 24.78 | 73.1 | 23.74 | 73.1 | 23.06 | 69.9 | 20.65 |
| | | 361.3 | 79.3 | 26.38 | 77.6 | 25.56 | 75.9 | 24.78 | 74.3 | 23.74 | 74.2 | 23.06 | 70.9 | 20.65 |
| | | 433.5 | 80.0 | 26.38 | 78.2 | 25.56 | 76.5 | 24.78 | 74.8 | 23.74 | 74.8 | 23.06 | 71.5 | 20.65 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 115.6 | 109.5 | 27.98 | 107.8 | 27.28 | 105.5 | 26.59 | 102.9 | 25.46 | 99.7 | 24.75 | 94.3 | 22.16 |
| | | 144.5 | 109.9 | 28.10 | 108.0 | 27.41 | 105.5 | 26.72 | 102.9 | 25.60 | 99.7 | 24.88 | 94.3 | 22.28 |
| | | 289.0 | 111.4 | 28.60 | 108.8 | 27.92 | 105.5 | 27.26 | 102.9 | 26.12 | 99.7 | 25.37 | 94.3 | 22.71 |
| | | 361.3 | 112.1 | 28.79 | 108.2 | 28.10 | 105.5 | 27.45 | 102.9 | 26.31 | 99.7 | 25.56 | 94.3 | 22.87 |
| | | 433.5 | 112.3 | 28.88 | 107.9 | 28.20 | 105.5 | 27.54 | 102.9 | 26.41 | 99.7 | 25.65 | 94.3 | 22.95 |
| | 10 | 115.6 | 109.9 | 25.13 | 107.8 | 24.43 | 105.2 | 23.94 | 102.6 | 23.21 | 99.4 | 22.45 | 94.0 | 20.18 |
| | | 144.5 | 110.4 | 25.22 | 108.3 | 24.53 | 105.5 | 24.02 | 102.9 | 23.25 | 99.7 | 22.43 | 94.3 | 20.21 |
| | | 289.0 | 112.5 | 25.56 | 110.1 | 24.90 | 106.7 | 24.37 | 104.1 | 23.37 | 100.7 | 22.37 | 95.2 | 20.30 |
| | | 361.3 | 113.1 | 25.47 | 109.7 | 24.90 | 107.1 | 24.47 | 104.5 | 23.46 | 101.2 | 22.46 | 95.6 | 20.99 |
| | | 433.5 | 113.4 | 25.42 | 109.5 | 24.90 | 107.3 | 24.51 | 104.8 | 23.51 | 101.4 | 22.51 | 95.8 | 21.34 |
| | 15 | 115.6 | 110.2 | 22.29 | 108.0 | 21.64 | 104.8 | 21.30 | 102.4 | 20.98 | 99.2 | 20.14 | 93.7 | 18.25 |
| | | 144.5 | 110.8 | 22.33 | 108.6 | 21.68 | 105.5 | 21.34 | 102.9 | 20.89 | 99.7 | 19.99 | 94.3 | 18.17 |
| | | 289.0 | 113.4 | 22.52 | 111.3 | 21.87 | 107.8 | 21.49 | 105.2 | 20.59 | 101.7 | 19.39 | 96.2 | 17.85 |
| | | 361.3 | 114.0 | 22.18 | 111.2 | 21.68 | 108.7 | 21.49 | 106.1 | 20.59 | 102.6 | 19.39 | 97.1 | 19.07 |
| | | 433.5 | 114.4 | 22.01 | 111.2 | 21.58 | 109.2 | 21.49 | 106.5 | 20.59 | 103.0 | 19.39 | 97.5 | 19.69 |
| | 20 | 115.6 | 113.3 | 20.05 | 111.2 | 19.20 | 107.8 | 18.69 | 104.8 | 18.41 | 101.4 | 18.19 | 96.0 | 17.27 |
| | | 144.5 | 114.0 | 20.05 | 111.8 | 19.26 | 108.4 | 18.77 | 105.5 | 18.49 | 102.0 | 18.17 | 96.5 | 17.20 |
| | | 289.0 | 117.0 | 20.05 | 114.4 | 19.55 | 110.8 | 19.07 | 108.2 | 18.77 | 104.6 | 18.11 | 98.8 | 16.95 |
| | | 361.3 | 117.4 | 19.86 | 114.4 | 19.39 | 111.6 | 19.07 | 108.7 | 18.77 | 105.2 | 18.17 | 99.4 | 17.57 |
| | | 433.5 | 117.7 | 19.77 | 114.4 | 19.31 | 112.1 | 19.07 | 109.1 | 18.77 | 105.5 | 18.20 | 99.7 | 17.89 |
| | 25 | 115.6 | 118.8 | 18.96 | 115.3 | 18.08 | 111.6 | 17.74 | 109.3 | 17.34 | 106.3 | 17.02 | 100.5 | 15.84 |
| | | 144.5 | 118.9 | 18.89 | 115.3 | 18.04 | 111.6 | 17.70 | 109.3 | 17.27 | 106.3 | 16.95 | 100.5 | 15.75 |
| | | 289.0 | 119.1 | 18.60 | 115.3 | 17.92 | 111.6 | 17.57 | 109.3 | 16.95 | 106.3 | 16.67 | 100.5 | 15.45 |
| | | 361.3 | 119.5 | 17.92 | 115.3 | 17.45 | 111.6 | 17.27 | 109.3 | 16.95 | 106.3 | 16.35 | 100.5 | 15.45 |
| | | 433.5 | 119.6 | 17.57 | 115.3 | 17.21 | 111.6 | 17.10 | 109.3 | 16.95 | 106.3 | 16.20 | 100.5 | 15.45 |
| | 30 | 115.6 | 119.5 | 18.13 | 115.3 | 17.24 | 111.6 | 16.75 | 109.3 | 16.11 | 106.3 | 15.92 | 100.5 | 14.61 |
| | | 144.5 | 119.5 | 17.98 | 115.3 | 17.14 | 111.6 | 16.67 | 109.3 | 16.04 | 106.3 | 15.75 | 100.5 | 14.53 |
| | | 289.0 | 119.5 | 17.38 | 115.3 | 16.73 | 111.6 | 16.35 | 109.3 | 15.75 | 106.3 | 15.13 | 100.5 | 14.22 |
| | | 361.3 | 119.5 | 16.82 | 115.3 | 16.35 | 111.6 | 16.04 | 109.3 | 15.75 | 106.3 | 15.13 | 100.5 | 13.94 |
| | | 433.5 | 119.5 | 16.54 | 115.3 | 16.16 | 111.6 | 15.88 | 109.3 | 15.75 | 106.3 | 15.13 | 100.5 | 13.80 |
| | 35 | 115.6 | 119.5 | 17.32 | 115.3 | 16.37 | 111.6 | 15.92 | 109.3 | 15.28 | 106.3 | 14.68 | 100.5 | 13.39 |
| | | 144.5 | 119.5 | 17.08 | 115.3 | 16.22 | 111.6 | 15.75 | 109.3 | 15.13 | 106.3 | 14.53 | 100.5 | 13.31 |
| | | 289.0 | 119.5 | 16.11 | 115.3 | 15.64 | 111.6 | 15.13 | 109.3 | 14.53 | 106.3 | 13.94 | 100.5 | 13.03 |
| | | 361.3 | 119.5 | 15.92 | 115.3 | 15.51 | 111.6 | 15.13 | 109.3 | 14.53 | 106.3 | 13.94 | 100.5 | 12.72 |
| | | 433.5 | 119.5 | 15.82 | 115.3 | 15.45 | 111.6 | 15.13 | 109.3 | 14.53 | 106.3 | 13.94 | 100.5 | 12.56 |
| | 40 | 115.6 | 119.5 | 16.80 | 115.3 | 15.62 | 111.6 | 15.00 | 109.3 | 14.38 | 106.3 | 13.78 | 100.5 | 12.47 |
| | | 144.5 | 119.5 | 16.48 | 115.3 | 15.45 | 111.6 | 14.85 | 109.3 | 14.22 | 106.3 | 13.63 | 100.5 | 12.41 |
| | | 289.0 | 119.5 | 15.19 | 115.3 | 14.72 | 111.6 | 14.22 | 109.3 | 13.63 | 106.3 | 13.03 | 100.5 | 12.13 |
| | | 361.3 | 119.5 | 15.00 | 115.3 | 14.53 | 111.6 | 14.22 | 109.3 | 13.63 | 106.3 | 13.03 | 100.5 | 11.81 |
| | | 433.5 | 119.5 | 14.91 | 115.3 | 14.44 | 111.6 | 14.22 | 109.3 | 13.63 | 106.3 | 13.03 | 100.5 | 11.65 |
| | 45 | 115.6 | 119.5 | 16.29 | 115.3 | 14.87 | 111.6 | 14.10 | 109.3 | 13.46 | 106.3 | 12.87 | 100.5 | 11.57 |
| | | 144.5 | 119.5 | 15.88 | 115.3 | 14.66 | 111.6 | 13.94 | 109.3 | 13.31 | 106.3 | 12.72 | 100.5 | 11.50 |
| | | 289.0 | 119.5 | 14.29 | 115.3 | 13.82 | 111.6 | 13.31 | 109.3 | 12.72 | 106.3 | 12.13 | 100.5 | 11.21 |
| | | 361.3 | 119.5 | 14.10 | 115.3 | 13.56 | 111.6 | 13.31 | 109.3 | 12.72 | 106.3 | 12.13 | 100.5 | 10.90 |
| | | 433.5 | 119.5 | 14.01 | 115.3 | 13.44 | 111.6 | 13.31 | 109.3 | 12.72 | 106.3 | 12.13 | 100.5 | 10.74 |
| 110 | -5 | 115.6 | 40.2 | 19.28 | 39.9 | 17.91 | 39.7 | 16.67 | 39.2 | 15.97 | 39.4 | 15.51 | 38.5 | 13.88 |
| | | 144.5 | 41.6 | 19.61 | 41.3 | 18.26 | 41.1 | 17.04 | 40.7 | 16.32 | 40.7 | 15.85 | 39.8 | 14.19 |
| | | 289.0 | 47.0 | 20.93 | 46.7 | 19.65 | 46.5 | 18.49 | 46.0 | 17.70 | 46.0 | 17.20 | 45.1 | 15.41 |
| | | 361.3 | 51.9 | 22.28 | 51.6 | 20.99 | 51.4 | 19.93 | 50.8 | 19.11 | 50.8 | 18.55 | 49.7 | 16.60 |
| | | 433.5 | 54.4 | 22.95 | 54.0 | 21.67 | 53.8 | 20.65 | 53.2 | 19.82 | 53.2 | 19.22 | 52.1 | 17.20 |
| | 0 | 115.6 | 71.8 | 26.38 | 70.3 | 25.25 | 68.8 | 24.43 | 67.5 | 23.40 | 66.9 | 22.74 | 64.3 | 20.33 |
| | | 144.5 | 72.2 | 26.44 | 70.7 | 25.31 | 69.2 | 24.49 | 67.9 | 23.46 | 67.3 | 22.80 | 64.7 | 20.40 |
| | | 289.0 | 73.9 | 26.69 | 72.4 | 25.56 | 70.7 | 24.78 | 69.4 | 23.74 | 68.8 | 23.06 | 66.2 | 20.65 |
| | | 361.3 | 75.0 | 26.69 | 73.5 | 25.56 | 72.0 | 24.78 | 70.5 | 23.74 | 69.9 | 23.06 | 67.1 | 20.65 |
| | | 433.5 | 75.6 | 26.69 | 74.1 | 25.56 | 72.5 | 24.78 | 71.0 | 23.74 | 70.5 | 23.06 | 67.7 | 20.65 |
| | 5 | 115.6 | 104.8 | 28.35 | 102.3 | 27.28 | 99.9 | 26.59 | 97.7 | 25.46 | 93.9 | 24.75 | 89.3 | 22.16 |
| | | 144.5 | 105.2 | 28.48 | 102.5 | 27.41 | 99.9 | 26.72 | 97.7 | 25.60 | 93.9 | 24.88 | 89.3 | 22.28 |
| | | 289.0 | 106.5 | 28.97 | 103.3 | 27.92 | 100.1 | 27.26 | 97.7 | 26.12 | 93.9 | 25.37 | 89.3 | 22.71 |
| | | 361.3 | 107.2 | 29.16 | 103.5 | 28.10 | 100.1 | 27.45 | 97.7 | 26.31 | 93.9 | 25.56 | 89.3 | 22.87 |
| | | 433.5 | 107.5 | 29.26 | 103.7 | 28.20 | 100.1 | 27.54 | 97.7 | 26.41 | 93.9 | 25.65 | 89.3 | 22.95 |
| | 10 | 115.6 | 105.2 | 25.42 | 102.6 | 24.55 | 99.8 | 24.02 | 97.5 | 23.21 | 93.7 | 22.45 | 89.2 | 20.18 |
| | | 144.5 | 105.6 | 25.47 | 102.9 | 24.62 | 99.9 | 24.09 | 97.7 | 23.25 | 93.9 | 22.43 | 89.3 | 20.21 |
| | | 289.0 | 107.2 | 25.65 | 103.9 | 24.90 | 100.5 | 24.37 | 98.3 | 23.37 | 94.5 | 22.37 | 89.8 | 20.30 |
| | | 361.3 | 107.8 | 25.65 | 104.4 | 24.90 | 100.9 | 24.31 | 98.4 | 23.31 | 94.7 | 22.46 | 90.0 | 20.52 |
| | | 433.5 | 108.0 | 25.65 | 104.6 | 24.90 | 101.1 | 24.28 | 98.6 | 23.27 | 94.7 | 22.51 | 90.2 | 20.63 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 115.6 | 105.5 | 22.50 | 102.7 | 21.87 | 99.7 | 21.49 | 97.3 | 20.98 | 93.6 | 20.14 | 89.1 | 18.25 |
| | | 144.5 | 105.9 | 22.46 | 103.1 | 21.87 | 100.1 | 21.49 | 97.7 | 20.89 | 93.9 | 19.99 | 89.3 | 18.17 |
| | | 289.0 | 107.7 | 22.33 | 104.6 | 21.87 | 101.2 | 21.49 | 98.8 | 20.59 | 95.1 | 19.39 | 90.2 | 17.85 |
| | | 361.3 | 108.3 | 22.18 | 105.2 | 21.68 | 101.7 | 21.21 | 99.2 | 20.30 | 95.4 | 19.39 | 90.7 | 18.17 |
| | | 433.5 | 108.6 | 22.10 | 105.4 | 21.58 | 102.0 | 21.06 | 99.4 | 20.16 | 95.5 | 19.39 | 91.0 | 18.32 |
| | 20 | 115.6 | 107.4 | 19.41 | 104.5 | 18.96 | 101.1 | 18.49 | 98.4 | 18.17 | 94.9 | 17.65 | 89.8 | 16.51 |
| | | 144.5 | 108.0 | 19.45 | 104.8 | 18.96 | 101.4 | 18.49 | 98.8 | 18.17 | 95.1 | 17.57 | 90.2 | 16.48 |
| | | 289.0 | 110.3 | 19.61 | 106.3 | 18.96 | 102.6 | 18.49 | 100.3 | 18.17 | 96.2 | 17.27 | 91.6 | 16.35 |
| | | 361.3 | 111.0 | 19.61 | 107.2 | 18.96 | 103.2 | 18.49 | 100.5 | 17.85 | 96.8 | 17.27 | 91.9 | 16.35 |
| | | 433.5 | 111.2 | 19.61 | 107.6 | 18.96 | 103.5 | 18.49 | 100.7 | 17.70 | 97.1 | 17.27 | 92.0 | 16.35 |
| | 25 | 115.6 | 110.8 | 17.67 | 107.5 | 17.02 | 103.2 | 16.75 | 100.9 | 16.11 | 97.4 | 15.52 | 92.2 | 14.22 |
| | | 144.5 | 111.0 | 17.64 | 107.5 | 16.95 | 103.2 | 16.67 | 100.9 | 16.04 | 97.4 | 15.45 | 92.2 | 14.22 |
| | | 289.0 | 111.9 | 17.51 | 107.5 | 16.67 | 103.2 | 16.35 | 100.9 | 15.75 | 97.4 | 15.13 | 92.2 | 14.22 |
| | | 361.3 | 112.5 | 17.51 | 107.5 | 16.73 | 103.2 | 16.04 | 100.9 | 15.75 | 97.4 | 14.85 | 92.2 | 13.94 |
| | | 433.5 | 112.7 | 17.51 | 107.5 | 16.76 | 103.2 | 15.88 | 100.9 | 15.75 | 97.4 | 14.70 | 92.2 | 13.80 |
| | 30 | 115.6 | 112.5 | 16.11 | 107.5 | 15.52 | 103.2 | 14.93 | 100.9 | 14.61 | 97.4 | 13.71 | 92.2 | 12.80 |
| | | 144.5 | 112.5 | 16.04 | 107.5 | 15.45 | 103.2 | 14.85 | 100.9 | 14.53 | 97.4 | 13.63 | 92.2 | 12.72 |
| | | 289.0 | 112.5 | 15.75 | 107.5 | 15.13 | 103.2 | 14.53 | 100.9 | 14.22 | 97.4 | 13.31 | 92.2 | 12.41 |
| | | 361.3 | 112.5 | 15.64 | 107.5 | 14.85 | 103.2 | 14.22 | 100.9 | 13.94 | 97.4 | 13.31 | 92.2 | 12.41 |
| | | 433.5 | 112.5 | 15.57 | 107.5 | 14.70 | 103.2 | 14.06 | 100.9 | 13.80 | 97.4 | 13.31 | 92.2 | 12.41 |
| | 35 | 115.6 | 112.5 | 15.28 | 107.5 | 14.29 | 103.2 | 13.71 | 100.9 | 13.11 | 97.4 | 12.47 | 92.2 | 11.57 |
| | | 144.5 | 112.5 | 15.13 | 107.5 | 14.22 | 103.2 | 13.63 | 100.9 | 13.03 | 97.4 | 12.41 | 92.2 | 11.50 |
| | | 289.0 | 112.5 | 14.53 | 107.5 | 13.94 | 103.2 | 13.31 | 100.9 | 12.72 | 97.4 | 12.13 | 92.2 | 11.21 |
| | | 361.3 | 112.5 | 14.16 | 107.5 | 13.63 | 103.2 | 13.03 | 100.9 | 12.72 | 97.4 | 12.13 | 92.2 | 11.21 |
| | | 433.5 | 112.5 | 13.97 | 107.5 | 13.47 | 103.2 | 12.89 | 100.9 | 12.72 | 97.4 | 12.13 | 92.2 | 11.21 |
| | 40 | 115.6 | 112.5 | 14.38 | 107.5 | 13.78 | 103.2 | 12.87 | 100.9 | 12.21 | 97.4 | 11.57 | 92.2 | 10.66 |
| | | 144.5 | 112.5 | 14.22 | 107.5 | 13.63 | 103.2 | 12.72 | 100.9 | 12.13 | 97.4 | 11.50 | 92.2 | 10.59 |
| | | 289.0 | 112.5 | 13.63 | 107.5 | 13.03 | 103.2 | 12.13 | 100.9 | 11.81 | 97.4 | 11.21 | 92.2 | 10.31 |
| | | 361.3 | 112.5 | 13.44 | 107.5 | 12.72 | 103.2 | 12.13 | 100.9 | 11.50 | 97.4 | 10.90 | 92.2 | 9.99 |
| | | 433.5 | 112.5 | 13.35 | 107.5 | 12.56 | 103.2 | 12.13 | 100.9 | 11.34 | 97.4 | 10.74 | 92.2 | 9.84 |
| | 45 | 115.6 | 112.5 | 13.46 | 107.5 | 13.26 | 103.2 | 12.04 | 100.9 | 11.29 | 97.4 | 10.66 | 92.2 | 9.75 |
| | | 144.5 | 112.5 | 13.31 | 107.5 | 13.03 | 103.2 | 11.81 | 100.9 | 11.21 | 97.4 | 10.59 | 92.2 | 9.68 |
| | | 289.0 | 112.5 | 12.72 | 107.5 | 12.13 | 103.2 | 10.90 | 100.9 | 10.90 | 97.4 | 10.31 | 92.2 | 9.40 |
| | | 361.3 | 112.5 | 12.72 | 107.5 | 11.81 | 103.2 | 11.21 | 100.9 | 10.31 | 97.4 | 9.68 | 92.2 | 8.77 |
| | | 433.5 | 112.5 | 12.72 | 107.5 | 11.65 | 103.2 | 11.38 | 100.9 | 10.01 | 97.4 | 9.36 | 92.2 | 8.46 |
| 100 | -5 | 115.6 | 38.0 | 19.28 | 37.7 | 18.17 | 37.5 | 16.67 | 37.3 | 15.97 | 36.9 | 15.26 | 36.2 | 13.88 |
| | | 144.5 | 39.3 | 19.61 | 39.0 | 18.51 | 38.8 | 17.04 | 38.5 | 16.32 | 38.1 | 15.60 | 37.5 | 14.19 |
| | | 289.0 | 44.5 | 20.93 | 44.2 | 19.89 | 43.9 | 18.49 | 43.5 | 17.70 | 43.1 | 16.95 | 42.4 | 15.41 |
| | | 361.3 | 49.1 | 22.28 | 48.8 | 21.27 | 48.5 | 19.93 | 48.0 | 19.11 | 47.8 | 18.26 | 46.9 | 16.60 |
| | | 433.5 | 51.5 | 22.95 | 51.0 | 21.96 | 50.8 | 20.65 | 50.4 | 19.82 | 50.1 | 18.92 | 49.1 | 17.20 |
| | 0 | 115.6 | 67.9 | 26.38 | 66.4 | 25.59 | 65.0 | 24.43 | 63.9 | 23.40 | 62.8 | 22.40 | 60.6 | 20.33 |
| | | 144.5 | 68.3 | 26.44 | 66.8 | 25.65 | 65.4 | 24.49 | 64.3 | 23.46 | 63.2 | 22.46 | 60.9 | 20.40 |
| | | 289.0 | 69.9 | 26.69 | 68.4 | 25.91 | 66.9 | 24.78 | 65.8 | 23.74 | 64.7 | 22.71 | 62.3 | 20.65 |
| | | 361.3 | 70.9 | 26.69 | 69.4 | 25.91 | 67.9 | 24.78 | 66.7 | 23.74 | 65.6 | 22.71 | 63.3 | 20.65 |
| | | 433.5 | 71.5 | 26.69 | 70.0 | 25.91 | 68.5 | 24.78 | 67.2 | 23.74 | 66.0 | 22.71 | 63.8 | 20.65 |
| | 5 | 115.6 | 100.2 | 28.35 | 96.9 | 27.66 | 94.3 | 26.59 | 92.5 | 25.46 | 88.1 | 24.37 | 84.0 | 22.16 |
| | | 144.5 | 100.5 | 28.48 | 97.1 | 27.79 | 94.5 | 26.72 | 92.5 | 25.60 | 88.1 | 24.49 | 84.0 | 22.28 |
| | | 289.0 | 102.0 | 28.97 | 97.7 | 28.29 | 94.5 | 27.26 | 92.5 | 26.12 | 88.1 | 25.00 | 84.0 | 22.71 |
| | | 361.3 | 102.6 | 29.16 | 98.0 | 28.48 | 94.5 | 27.45 | 92.5 | 26.31 | 88.1 | 25.16 | 84.0 | 22.87 |
| | | 433.5 | 102.9 | 29.26 | 98.1 | 28.57 | 94.5 | 27.54 | 92.5 | 26.41 | 88.1 | 25.24 | 84.0 | 22.95 |
| | 10 | 115.6 | 100.7 | 25.35 | 97.2 | 24.79 | 94.5 | 24.02 | 92.5 | 23.21 | 88.1 | 22.07 | 84.0 | 20.18 |
| | | 144.5 | 101.0 | 25.47 | 97.3 | 24.88 | 94.5 | 24.09 | 92.5 | 23.25 | 88.1 | 22.09 | 84.0 | 20.21 |
| | | 289.0 | 102.0 | 25.94 | 97.9 | 25.19 | 94.5 | 24.37 | 92.5 | 23.37 | 88.1 | 22.18 | 84.0 | 20.30 |
| | | 361.3 | 102.7 | 25.84 | 98.3 | 25.19 | 94.5 | 24.31 | 92.5 | 23.31 | 88.1 | 22.12 | 84.0 | 20.21 |
| | | 433.5 | 103.0 | 25.80 | 98.5 | 25.19 | 94.5 | 24.28 | 92.5 | 23.27 | 88.1 | 22.09 | 84.0 | 20.16 |
| | 15 | 115.6 | 101.3 | 22.35 | 97.6 | 21.98 | 94.5 | 21.49 | 92.5 | 20.98 | 88.1 | 19.75 | 84.0 | 18.25 |
| | | 144.5 | 101.4 | 22.46 | 97.7 | 21.99 | 94.5 | 21.49 | 92.5 | 20.89 | 88.1 | 19.67 | 84.0 | 18.17 |
| | | 289.0 | 102.0 | 22.90 | 97.9 | 22.05 | 94.5 | 21.49 | 92.5 | 20.59 | 88.1 | 19.39 | 84.0 | 17.85 |
| | | 361.3 | 102.9 | 22.52 | 98.4 | 21.87 | 94.5 | 21.21 | 92.5 | 20.30 | 88.1 | 19.07 | 84.0 | 17.57 |
| | | 433.5 | 103.3 | 22.33 | 98.8 | 21.77 | 94.5 | 21.06 | 92.5 | 20.16 | 88.1 | 18.92 | 84.0 | 17.44 |
| | 20 | 115.6 | 101.8 | 19.11 | 98.1 | 18.62 | 94.5 | 18.17 | 92.5 | 17.93 | 88.1 | 16.75 | 84.0 | 15.92 |
| | | 144.5 | 102.2 | 19.20 | 98.2 | 18.64 | 94.5 | 18.17 | 92.5 | 17.85 | 88.1 | 16.67 | 84.0 | 15.75 |
| | | 289.0 | 103.7 | 19.55 | 98.4 | 18.70 | 94.5 | 18.17 | 92.5 | 17.57 | 88.1 | 16.35 | 84.0 | 15.13 |
| | | 361.3 | 104.4 | 19.20 | 99.4 | 18.55 | 94.5 | 17.85 | 92.5 | 17.27 | 88.1 | 16.04 | 84.0 | 14.85 |
| | | 433.5 | 104.6 | 19.03 | 99.8 | 18.47 | 94.5 | 17.70 | 92.5 | 17.10 | 88.1 | 15.88 | 84.0 | 14.70 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 115.6 | 103.1 | 16.71 | 99.7 | 16.19 | 94.5 | 15.52 | 92.5 | 14.93 | 88.1 | 14.02 | 84.0 | 12.72 |
| | | 144.5 | 103.5 | 16.73 | 99.7 | 16.11 | 94.5 | 15.45 | 92.5 | 14.85 | 88.1 | 13.94 | 84.0 | 12.72 |
| | | 289.0 | 105.0 | 16.79 | 99.7 | 15.75 | 94.5 | 15.13 | 92.5 | 14.53 | 88.1 | 13.63 | 84.0 | 12.72 |
| | | 361.3 | 105.5 | 16.41 | 99.7 | 15.64 | 94.5 | 14.85 | 92.5 | 14.22 | 88.1 | 13.63 | 84.0 | 12.41 |
| | | 433.5 | 105.8 | 16.22 | 99.7 | 15.57 | 94.5 | 14.70 | 92.5 | 14.06 | 88.1 | 13.63 | 84.0 | 12.25 |
| | 30 | 115.6 | 105.5 | 15.21 | 99.7 | 14.02 | 94.5 | 13.07 | 92.5 | 12.80 | 88.1 | 11.81 | 84.0 | 11.29 |
| | | 144.5 | 105.5 | 15.13 | 99.7 | 13.94 | 94.5 | 13.03 | 92.5 | 12.72 | 88.1 | 11.81 | 84.0 | 11.21 |
| | | 289.0 | 105.5 | 14.85 | 99.7 | 13.63 | 94.5 | 12.90 | 92.5 | 12.41 | 88.1 | 11.81 | 84.0 | 10.90 |
| | | 361.3 | 105.5 | 14.53 | 99.7 | 13.63 | 94.5 | 12.72 | 92.5 | 12.41 | 88.1 | 11.50 | 84.0 | 10.90 |
| | | 433.5 | 105.5 | 14.38 | 99.7 | 13.63 | 94.5 | 12.62 | 92.5 | 12.41 | 88.1 | 11.34 | 84.0 | 10.90 |
| | 35 | 115.6 | 105.5 | 14.10 | 99.7 | 12.87 | 94.5 | 11.53 | 92.5 | 11.29 | 88.1 | 10.66 | 84.0 | 9.75 |
| | | 144.5 | 105.5 | 13.94 | 99.7 | 12.72 | 94.5 | 11.50 | 92.5 | 11.21 | 88.1 | 10.59 | 84.0 | 9.68 |
| | | 289.0 | 105.5 | 13.31 | 99.7 | 12.13 | 94.5 | 11.37 | 92.5 | 10.90 | 88.1 | 10.31 | 84.0 | 9.40 |
| | | 361.3 | 105.5 | 13.31 | 99.7 | 12.13 | 94.5 | 11.21 | 92.5 | 10.90 | 88.1 | 10.31 | 84.0 | 9.40 |
| | | 433.5 | 105.5 | 13.31 | 99.7 | 12.13 | 94.5 | 11.14 | 92.5 | 10.90 | 88.1 | 10.31 | 84.0 | 9.40 |
| | 40 | 115.6 | 105.5 | 13.19 | 99.7 | 11.96 | 94.5 | 10.33 | 92.5 | 10.07 | 88.1 | 9.47 | 84.0 | 8.85 |
| | | 144.5 | 105.5 | 13.03 | 99.7 | 11.81 | 94.5 | 10.31 | 92.5 | 9.99 | 88.1 | 9.40 | 84.0 | 8.77 |
| | | 289.0 | 105.5 | 12.41 | 99.7 | 11.21 | 94.5 | 10.18 | 92.5 | 9.68 | 88.1 | 9.09 | 84.0 | 8.49 |
| | | 361.3 | 105.5 | 12.13 | 99.7 | 11.21 | 94.5 | 9.99 | 92.5 | 9.68 | 88.1 | 9.09 | 84.0 | 8.49 |
| | | 433.5 | 105.5 | 11.98 | 99.7 | 11.21 | 94.5 | 9.90 | 92.5 | 9.68 | 88.1 | 9.09 | 84.0 | 8.49 |
| | 45 | 115.6 | 105.5 | 12.28 | 99.7 | 11.05 | 94.5 | 9.11 | 92.5 | 8.85 | 88.1 | 8.25 | 84.0 | 7.93 |
| | | 144.5 | 105.5 | 12.13 | 99.7 | 10.90 | 94.5 | 9.09 | 92.5 | 8.77 | 88.1 | 8.18 | 84.0 | 7.86 |
| | | 289.0 | 105.5 | 11.50 | 99.7 | 10.31 | 94.5 | 8.96 | 92.5 | 8.49 | 88.1 | 7.86 | 84.0 | 7.58 |
| | | 361.3 | 105.5 | 10.90 | 99.7 | 10.31 | 94.5 | 8.77 | 92.5 | 8.49 | 88.1 | 7.86 | 84.0 | 7.58 |
| | | 433.5 | 105.5 | 10.60 | 99.7 | 10.31 | 94.5 | 8.68 | 92.5 | 8.49 | 88.1 | 7.86 | 84.0 | 7.58 |
| 90 | -5 | 115.6 | 35.8 | 17.89 | 34.7 | 16.29 | 33.7 | 14.31 | 33.5 | 13.64 | 33.2 | 13.15 | 32.6 | 11.80 |
| | | 144.5 | 37.1 | 18.20 | 36.0 | 16.60 | 34.9 | 14.63 | 34.7 | 13.94 | 34.3 | 13.44 | 33.8 | 12.06 |
| | | 289.0 | 42.0 | 19.42 | 40.7 | 17.83 | 39.5 | 15.88 | 39.2 | 15.13 | 39.0 | 14.60 | 38.1 | 13.09 |
| | | 361.3 | 46.5 | 20.65 | 45.0 | 19.07 | 43.6 | 17.14 | 43.3 | 16.32 | 43.0 | 15.73 | 42.2 | 14.12 |
| | | 433.5 | 48.6 | 21.26 | 47.1 | 19.71 | 45.7 | 17.77 | 45.3 | 16.92 | 45.0 | 16.29 | 44.2 | 14.65 |
| | 0 | 115.6 | 64.1 | 24.37 | 61.2 | 22.87 | 58.3 | 21.00 | 57.5 | 20.03 | 56.6 | 19.28 | 54.4 | 17.31 |
| | | 144.5 | 64.5 | 24.43 | 61.5 | 22.93 | 58.7 | 21.06 | 57.8 | 20.08 | 56.8 | 19.33 | 54.8 | 17.36 |
| | | 289.0 | 66.0 | 24.69 | 63.0 | 23.18 | 60.2 | 21.27 | 59.2 | 20.30 | 58.2 | 19.55 | 56.1 | 17.55 |
| | | 361.3 | 67.0 | 24.69 | 63.9 | 23.18 | 61.1 | 21.27 | 60.0 | 20.30 | 59.2 | 19.55 | 57.0 | 17.55 |
| | | 433.5 | 67.5 | 24.69 | 64.4 | 23.18 | 61.5 | 21.27 | 60.5 | 20.30 | 59.6 | 19.55 | 57.4 | 17.55 |
| | 5 | 115.6 | 90.6 | 26.16 | 87.7 | 24.69 | 84.9 | 22.86 | 83.2 | 21.79 | 79.5 | 20.97 | 75.7 | 18.83 |
| | | 144.5 | 90.7 | 26.29 | 87.6 | 24.81 | 84.9 | 22.97 | 83.2 | 21.90 | 79.5 | 21.08 | 75.7 | 18.92 |
| | | 289.0 | 91.1 | 26.76 | 87.4 | 25.28 | 84.9 | 23.40 | 83.2 | 22.33 | 79.5 | 21.52 | 75.7 | 19.30 |
| | | 361.3 | 91.6 | 26.91 | 87.6 | 25.44 | 84.9 | 23.59 | 83.2 | 22.50 | 79.5 | 21.68 | 75.7 | 19.45 |
| | | 433.5 | 91.9 | 26.99 | 87.8 | 25.52 | 84.9 | 23.68 | 83.2 | 22.57 | 79.5 | 21.75 | 75.7 | 19.54 |
| | 10 | 115.6 | 91.1 | 23.10 | 88.0 | 21.97 | 84.9 | 20.68 | 83.2 | 19.84 | 79.5 | 19.03 | 75.7 | 17.15 |
| | | 144.5 | 91.1 | 23.12 | 87.9 | 21.99 | 84.9 | 20.70 | 83.2 | 19.86 | 79.5 | 19.01 | 75.7 | 17.17 |
| | | 289.0 | 90.9 | 23.18 | 87.4 | 22.09 | 84.9 | 20.80 | 83.2 | 19.95 | 79.5 | 18.96 | 75.7 | 17.23 |
| | | 361.3 | 91.5 | 23.12 | 87.7 | 22.02 | 84.9 | 20.74 | 83.2 | 19.89 | 79.5 | 19.01 | 75.7 | 17.29 |
| | | 433.5 | 91.8 | 23.09 | 87.9 | 21.99 | 84.9 | 20.70 | 83.2 | 19.86 | 79.5 | 19.05 | 75.7 | 17.33 |
| | 15 | 115.6 | 91.5 | 20.01 | 88.3 | 19.28 | 84.9 | 18.56 | 83.2 | 17.93 | 79.5 | 17.10 | 75.7 | 15.52 |
| | | 144.5 | 91.5 | 19.93 | 88.1 | 19.20 | 84.9 | 18.49 | 83.2 | 17.85 | 79.5 | 16.95 | 75.7 | 15.45 |
| | | 289.0 | 90.8 | 19.61 | 87.6 | 18.89 | 84.9 | 18.17 | 83.2 | 17.57 | 79.5 | 16.35 | 75.7 | 15.13 |
| | | 361.3 | 91.5 | 19.33 | 87.8 | 18.60 | 84.9 | 17.85 | 83.2 | 17.27 | 79.5 | 16.35 | 75.7 | 15.13 |
| | | 433.5 | 91.7 | 19.18 | 87.9 | 18.47 | 84.9 | 17.70 | 83.2 | 17.10 | 79.5 | 16.35 | 75.7 | 15.13 |
| | 20 | 115.6 | 92.1 | 16.89 | 88.7 | 16.40 | 84.9 | 15.84 | 83.2 | 15.21 | 79.5 | 14.68 | 75.7 | 13.78 |
| | | 144.5 | 92.1 | 16.89 | 88.5 | 16.35 | 84.9 | 15.75 | 83.2 | 15.13 | 79.5 | 14.53 | 75.7 | 13.63 |
| | | 289.0 | 91.7 | 16.89 | 87.8 | 16.16 | 84.9 | 15.45 | 83.2 | 14.85 | 79.5 | 13.94 | 75.7 | 13.03 |
| | | 361.3 | 91.9 | 16.60 | 88.1 | 16.04 | 84.9 | 15.45 | 83.2 | 14.85 | 79.5 | 13.94 | 75.7 | 13.03 |
| | | 433.5 | 92.1 | 16.46 | 88.2 | 15.98 | 84.9 | 15.45 | 83.2 | 14.85 | 79.5 | 13.94 | 75.7 | 13.03 |
| | 25 | 115.6 | 93.7 | 14.76 | 89.8 | 13.97 | 84.9 | 13.39 | 83.2 | 12.72 | 79.5 | 12.21 | 75.7 | 11.29 |
| | | 144.5 | 93.9 | 14.72 | 89.8 | 13.94 | 84.9 | 13.31 | 83.2 | 12.72 | 79.5 | 12.13 | 75.7 | 11.21 |
| | | 289.0 | 94.7 | 14.60 | 89.8 | 13.82 | 84.9 | 13.03 | 83.2 | 12.72 | 79.5 | 11.81 | 75.7 | 10.90 |
| | | 361.3 | 95.1 | 14.22 | 89.8 | 13.50 | 84.9 | 13.03 | 83.2 | 12.41 | 79.5 | 11.81 | 75.7 | 10.90 |
| | | 433.5 | 95.3 | 14.03 | 89.8 | 13.35 | 84.9 | 13.03 | 83.2 | 12.25 | 79.5 | 11.81 | 75.7 | 10.90 |
| | 30 | 115.6 | 95.1 | 13.39 | 89.8 | 12.47 | 84.9 | 11.57 | 83.2 | 11.29 | 79.5 | 10.66 | 75.7 | 9.68 |
| | | 144.5 | 95.1 | 13.31 | 89.8 | 12.41 | 84.9 | 11.50 | 83.2 | 11.21 | 79.5 | 10.59 | 75.7 | 9.68 |
| | | 289.0 | 95.1 | 13.03 | 89.8 | 12.13 | 84.9 | 11.21 | 83.2 | 10.90 | 79.5 | 10.31 | 75.7 | 9.68 |
| | | 361.3 | 95.1 | 12.72 | 89.8 | 11.81 | 84.9 | 11.21 | 83.2 | 10.90 | 79.5 | 10.31 | 75.7 | 9.40 |
| | | 433.5 | 95.1 | 12.56 | 89.8 | 11.65 | 84.9 | 11.21 | 83.2 | 10.90 | 79.5 | 10.31 | 75.7 | 9.26 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 115.6 | 95.1 | 12.21 | 89.8 | 11.29 | 84.9 | 10.39 | 83.2 | 10.07 | 79.5 | 9.47 | 75.7 | 8.85 |
| | | 144.5 | 95.1 | 12.13 | 89.8 | 11.21 | 84.9 | 10.31 | 83.2 | 9.99 | 79.5 | 9.40 | 75.7 | 8.77 |
| | | 289.0 | 95.1 | 11.81 | 89.8 | 10.90 | 84.9 | 9.99 | 83.2 | 9.68 | 79.5 | 9.09 | 75.7 | 8.49 |
| | | 361.3 | 95.1 | 11.50 | 89.8 | 10.59 | 84.9 | 9.68 | 83.2 | 9.40 | 79.5 | 9.09 | 75.7 | 8.49 |
| | | 433.5 | 95.1 | 11.34 | 89.8 | 10.43 | 84.9 | 9.52 | 83.2 | 9.26 | 79.5 | 9.09 | 75.7 | 8.49 |
| | 40 | 115.6 | 95.1 | 11.38 | 89.8 | 10.39 | 84.9 | 9.17 | 83.2 | 8.85 | 79.5 | 8.57 | 75.7 | 7.93 |
| | | 144.5 | 95.1 | 11.21 | 89.8 | 10.31 | 84.9 | 9.09 | 83.2 | 8.77 | 79.5 | 8.49 | 75.7 | 7.86 |
| | | 289.0 | 95.1 | 10.59 | 89.8 | 9.99 | 84.9 | 8.77 | 83.2 | 8.49 | 79.5 | 8.18 | 75.7 | 7.58 |
| | | 361.3 | 95.1 | 10.59 | 89.8 | 9.99 | 84.9 | 8.77 | 83.2 | 8.49 | 79.5 | 8.18 | 75.7 | 7.58 |
| | | 433.5 | 95.1 | 10.59 | 89.8 | 9.99 | 84.9 | 8.77 | 83.2 | 8.49 | 79.5 | 8.18 | 75.7 | 7.58 |
| | 45 | 115.6 | 95.1 | 10.54 | 89.8 | 9.47 | 84.9 | 7.93 | 83.2 | 7.67 | 79.5 | 7.67 | 75.7 | 7.03 |
| | | 144.5 | 95.1 | 10.31 | 89.8 | 9.40 | 84.9 | 7.86 | 83.2 | 7.58 | 79.5 | 7.58 | 75.7 | 6.96 |
| | | 289.0 | 95.1 | 9.40 | 89.8 | 9.09 | 84.9 | 7.58 | 83.2 | 7.27 | 79.5 | 7.27 | 75.7 | 6.67 |
| | | 361.3 | 95.1 | 9.68 | 89.8 | 9.40 | 84.9 | 7.86 | 83.2 | 7.58 | 79.5 | 7.27 | 75.7 | 6.67 |
| | | 433.5 | 95.1 | 9.82 | 89.8 | 9.56 | 84.9 | 8.01 | 83.2 | 7.74 | 79.5 | 7.27 | 75.7 | 6.67 |
| 80 | -5 | 115.6 | 33.9 | 12.75 | 31.8 | 12.26 | 30.1 | 11.74 | 29.8 | 11.35 | 29.6 | 10.82 | 29.0 | 9.97 |
| | | 144.5 | 35.1 | 13.03 | 32.8 | 12.53 | 31.1 | 12.00 | 30.8 | 11.59 | 30.6 | 11.06 | 30.0 | 10.18 |
| | | 289.0 | 39.6 | 14.16 | 37.2 | 13.60 | 35.2 | 13.00 | 34.8 | 12.56 | 34.7 | 12.00 | 33.9 | 11.03 |
| | | 361.3 | 43.9 | 15.26 | 41.1 | 14.66 | 38.8 | 14.03 | 38.4 | 13.56 | 38.2 | 12.94 | 37.5 | 11.91 |
| | | 433.5 | 46.0 | 15.81 | 43.0 | 15.20 | 40.7 | 14.55 | 40.3 | 14.07 | 40.1 | 13.41 | 39.2 | 12.34 |
| | 0 | 115.6 | 60.6 | 18.71 | 55.9 | 17.96 | 52.0 | 17.21 | 51.0 | 16.62 | 50.3 | 15.84 | 48.4 | 14.59 |
| | | 144.5 | 60.9 | 18.77 | 56.2 | 18.02 | 52.3 | 17.27 | 51.4 | 16.67 | 50.6 | 15.88 | 48.7 | 14.63 |
| | | 289.0 | 62.4 | 18.98 | 57.5 | 18.23 | 53.6 | 17.45 | 52.5 | 16.86 | 51.9 | 16.07 | 49.9 | 14.79 |
| | | 361.3 | 63.3 | 18.98 | 58.3 | 18.23 | 54.4 | 17.45 | 53.4 | 16.86 | 52.7 | 16.07 | 50.6 | 14.79 |
| | | 433.5 | 63.7 | 18.98 | 58.8 | 18.23 | 54.9 | 17.45 | 53.8 | 16.86 | 53.1 | 16.07 | 51.0 | 14.79 |
| | 5 | 115.6 | 83.8 | 20.35 | 79.1 | 19.58 | 75.6 | 18.69 | 73.9 | 18.08 | 70.7 | 17.23 | 67.3 | 15.86 |
| | | 144.5 | 84.0 | 20.46 | 79.2 | 19.67 | 75.6 | 18.79 | 73.9 | 18.17 | 70.7 | 17.33 | 67.3 | 15.94 |
| | | 289.0 | 84.6 | 20.89 | 79.8 | 20.05 | 75.7 | 19.20 | 73.9 | 18.55 | 70.7 | 17.67 | 67.3 | 16.29 |
| | | 361.3 | 84.6 | 21.02 | 79.7 | 20.21 | 75.7 | 19.33 | 73.9 | 18.67 | 70.7 | 17.79 | 67.3 | 16.39 |
| | | 433.5 | 84.6 | 21.08 | 79.7 | 20.29 | 75.7 | 19.39 | 73.9 | 18.73 | 70.7 | 17.85 | 67.3 | 16.43 |
| | 10 | 115.6 | 84.2 | 18.73 | 79.3 | 17.88 | 75.6 | 16.97 | 73.9 | 16.50 | 70.7 | 15.62 | 67.3 | 14.46 |
| | | 144.5 | 84.3 | 18.70 | 79.5 | 17.85 | 75.6 | 16.98 | 73.9 | 16.51 | 70.7 | 15.64 | 67.3 | 14.47 |
| | | 289.0 | 84.6 | 18.60 | 79.8 | 17.76 | 75.7 | 17.01 | 73.9 | 16.54 | 70.7 | 15.66 | 67.3 | 14.51 |
| | | 361.3 | 84.6 | 18.55 | 79.7 | 17.83 | 75.7 | 17.08 | 73.9 | 16.45 | 70.7 | 15.57 | 67.3 | 14.42 |
| | | 433.5 | 84.6 | 18.51 | 79.7 | 17.85 | 75.7 | 17.10 | 73.9 | 16.40 | 70.7 | 15.52 | 67.3 | 14.36 |
| | 15 | 115.6 | 84.6 | 17.10 | 79.7 | 16.19 | 75.7 | 15.21 | 73.9 | 14.93 | 70.7 | 14.02 | 67.3 | 13.11 |
| | | 144.5 | 84.6 | 16.95 | 79.7 | 16.04 | 75.7 | 15.13 | 73.9 | 14.85 | 70.7 | 13.94 | 67.3 | 13.03 |
| | | 289.0 | 84.6 | 16.35 | 79.7 | 15.45 | 75.7 | 14.85 | 73.9 | 14.53 | 70.7 | 13.63 | 67.3 | 12.72 |
| | | 361.3 | 84.6 | 16.04 | 79.7 | 15.45 | 75.7 | 14.85 | 73.9 | 14.22 | 70.7 | 13.31 | 67.3 | 12.41 |
| | | 433.5 | 84.6 | 15.88 | 79.7 | 15.45 | 75.7 | 14.85 | 73.9 | 14.06 | 70.7 | 13.16 | 67.3 | 12.25 |
| | 20 | 115.6 | 84.6 | 14.29 | 79.7 | 13.71 | 75.7 | 13.03 | 73.9 | 12.80 | 70.7 | 12.21 | 67.3 | 11.29 |
| | | 144.5 | 84.6 | 14.22 | 79.7 | 13.63 | 75.7 | 13.03 | 73.9 | 12.72 | 70.7 | 12.13 | 67.3 | 11.21 |
| | | 289.0 | 84.6 | 13.94 | 79.7 | 13.31 | 75.7 | 13.03 | 73.9 | 12.41 | 70.7 | 11.81 | 67.3 | 10.90 |
| | | 361.3 | 84.6 | 13.63 | 79.7 | 13.03 | 75.7 | 12.72 | 73.9 | 12.41 | 70.7 | 11.50 | 67.3 | 10.90 |
| | | 433.5 | 84.6 | 13.47 | 79.7 | 12.89 | 75.7 | 12.56 | 73.9 | 12.41 | 70.7 | 11.34 | 67.3 | 10.90 |
| | 25 | 115.6 | 84.6 | 12.80 | 79.7 | 11.89 | 75.7 | 11.21 | 73.9 | 10.98 | 70.7 | 10.39 | 67.3 | 9.75 |
| | | 144.5 | 84.6 | 12.72 | 79.7 | 11.81 | 75.7 | 11.21 | 73.9 | 10.90 | 70.7 | 10.31 | 67.3 | 9.68 |
| | | 289.0 | 84.6 | 12.41 | 79.7 | 11.50 | 75.7 | 11.21 | 73.9 | 10.59 | 70.7 | 9.99 | 67.3 | 9.40 |
| | | 361.3 | 84.6 | 12.13 | 79.7 | 11.50 | 75.7 | 10.90 | 73.9 | 10.59 | 70.7 | 9.99 | 67.3 | 9.40 |
| | | 433.5 | 84.6 | 11.98 | 79.7 | 11.50 | 75.7 | 10.74 | 73.9 | 10.59 | 70.7 | 9.99 | 67.3 | 9.40 |
| | 30 | 115.6 | 84.6 | 11.29 | 79.7 | 10.66 | 75.7 | 10.07 | 73.9 | 9.75 | 70.7 | 9.17 | 67.3 | 8.57 |
| | | 144.5 | 84.6 | 11.21 | 79.7 | 10.59 | 75.7 | 9.99 | 73.9 | 9.68 | 70.7 | 9.09 | 67.3 | 8.49 |
| | | 289.0 | 84.6 | 10.90 | 79.7 | 10.31 | 75.7 | 9.68 | 73.9 | 9.40 | 70.7 | 8.77 | 67.3 | 8.18 |
| | | 361.3 | 84.6 | 10.90 | 79.7 | 10.31 | 75.7 | 9.68 | 73.9 | 9.40 | 70.7 | 8.77 | 67.3 | 8.18 |
| | | 433.5 | 84.6 | 10.90 | 79.7 | 10.31 | 75.7 | 9.68 | 73.9 | 9.40 | 70.7 | 8.77 | 67.3 | 8.18 |
| | 35 | 115.6 | 84.6 | 10.39 | 79.7 | 9.75 | 75.7 | 8.85 | 73.9 | 8.49 | 70.7 | 8.25 | 67.3 | 7.58 |
| | | 144.5 | 84.6 | 10.31 | 79.7 | 9.68 | 75.7 | 8.77 | 73.9 | 8.49 | 70.7 | 8.18 | 67.3 | 7.58 |
| | | 289.0 | 84.6 | 9.99 | 79.7 | 9.40 | 75.7 | 8.49 | 73.9 | 8.49 | 70.7 | 7.86 | 67.3 | 7.58 |
| | | 361.3 | 84.6 | 9.99 | 79.7 | 9.09 | 75.7 | 8.49 | 73.9 | 8.18 | 70.7 | 7.86 | 67.3 | 7.27 |
| | | 433.5 | 84.6 | 9.99 | 79.7 | 8.93 | 75.7 | 8.49 | 73.9 | 8.02 | 70.7 | 7.86 | 67.3 | 7.11 |
| | 40 | 115.6 | 84.6 | 9.83 | 79.7 | 8.85 | 75.7 | 7.86 | 73.9 | 7.93 | 70.7 | 7.27 | 67.3 | 7.03 |
| | | 144.5 | 84.6 | 9.68 | 79.7 | 8.77 | 75.7 | 7.86 | 73.9 | 7.86 | 70.7 | 7.27 | 67.3 | 6.96 |
| | | 289.0 | 84.6 | 9.09 | 79.7 | 8.49 | 75.7 | 7.86 | 73.9 | 7.58 | 70.7 | 7.27 | 67.3 | 6.67 |
| | | 361.3 | 84.6 | 9.09 | 79.7 | 8.49 | 75.7 | 7.58 | 73.9 | 7.58 | 70.7 | 7.27 | 67.3 | 6.67 |
| | | 433.5 | 84.6 | 9.09 | 79.7 | 8.49 | 75.7 | 7.44 | 73.9 | 7.58 | 70.7 | 7.27 | 67.3 | 6.67 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 115.6 | 84.6 | 9.32 | 79.7 | 7.93 | 75.7 | 6.88 | 73.9 | 7.42 | 70.7 | 6.28 | 67.3 | 6.51 |
| | | 144.5 | 84.6 | 9.09 | 79.7 | 7.86 | 75.7 | 6.96 | 73.9 | 7.27 | 70.7 | 6.36 | 67.3 | 6.36 |
| | | 289.0 | 84.6 | 8.18 | 79.7 | 7.58 | 75.7 | 7.27 | 73.9 | 6.67 | 70.7 | 6.67 | 67.3 | 5.76 |
| | | 361.3 | 84.6 | 8.18 | 79.7 | 7.86 | 75.7 | 6.67 | 73.9 | 6.96 | 70.7 | 6.67 | 67.3 | 6.04 |
| | | 433.5 | 84.6 | 8.18 | 79.7 | 8.01 | 75.7 | 6.37 | 73.9 | 7.09 | 70.7 | 6.67 | 67.3 | 6.19 |
| 70 | -5 | 115.6 | 29.6 | 10.95 | 27.8 | 10.42 | 26.3 | 10.09 | 26.0 | 9.51 | 25.9 | 9.17 | 25.5 | 8.34 |
| | | 144.5 | 30.6 | 11.18 | 28.7 | 10.65 | 27.2 | 10.31 | 26.9 | 9.71 | 26.8 | 9.37 | 26.3 | 8.52 |
| | | 289.0 | 34.7 | 12.13 | 32.5 | 11.56 | 30.7 | 11.18 | 30.4 | 10.52 | 30.2 | 10.15 | 29.7 | 9.24 |
| | | 361.3 | 38.3 | 13.09 | 36.0 | 12.47 | 33.9 | 12.06 | 33.7 | 11.34 | 33.4 | 10.97 | 32.8 | 9.96 |
| | | 433.5 | 40.2 | 13.58 | 37.7 | 12.92 | 35.6 | 12.51 | 35.3 | 11.75 | 35.0 | 11.38 | 34.3 | 10.33 |
| | 0 | 115.6 | 52.9 | 16.03 | 48.9 | 15.28 | 45.4 | 14.77 | 44.6 | 13.90 | 43.9 | 13.43 | 42.4 | 12.22 |
| | | 144.5 | 53.3 | 16.07 | 49.3 | 15.32 | 45.7 | 14.82 | 45.0 | 13.94 | 44.2 | 13.47 | 42.6 | 12.25 |
| | | 289.0 | 54.5 | 16.26 | 50.4 | 15.47 | 46.7 | 15.00 | 46.0 | 14.10 | 45.2 | 13.63 | 43.6 | 12.38 |
| | | 361.3 | 55.3 | 16.26 | 51.2 | 15.47 | 47.5 | 15.00 | 46.7 | 14.10 | 46.0 | 13.63 | 44.3 | 12.38 |
| | | 433.5 | 55.7 | 16.26 | 51.6 | 15.47 | 47.8 | 15.00 | 47.0 | 14.10 | 46.3 | 13.63 | 44.6 | 12.38 |
| | 5 | 115.6 | 73.1 | 17.46 | 69.3 | 16.61 | 66.0 | 16.07 | 64.7 | 15.15 | 61.7 | 14.61 | 58.8 | 13.28 |
| | | 144.5 | 73.3 | 17.55 | 69.4 | 16.69 | 66.0 | 16.16 | 64.7 | 15.23 | 61.7 | 14.70 | 58.8 | 13.35 |
| | | 289.0 | 73.9 | 17.89 | 70.0 | 17.04 | 66.1 | 16.51 | 64.7 | 15.51 | 61.7 | 15.00 | 58.8 | 13.63 |
| | | 361.3 | 73.9 | 18.02 | 69.9 | 17.17 | 66.1 | 16.63 | 64.7 | 15.64 | 61.7 | 15.10 | 58.8 | 13.72 |
| | | 433.5 | 73.9 | 18.08 | 69.8 | 17.23 | 66.1 | 16.70 | 64.7 | 15.70 | 61.7 | 15.15 | 58.8 | 13.77 |
| | 10 | 115.6 | 73.5 | 16.07 | 69.6 | 15.19 | 66.1 | 14.63 | 64.7 | 13.82 | 61.7 | 13.25 | 58.8 | 12.13 |
| | | 144.5 | 73.5 | 16.04 | 69.6 | 15.17 | 66.1 | 14.60 | 64.7 | 13.82 | 61.7 | 13.25 | 58.8 | 12.13 |
| | | 289.0 | 73.9 | 15.92 | 69.9 | 15.04 | 66.1 | 14.47 | 64.7 | 13.82 | 61.7 | 13.25 | 58.8 | 12.13 |
| | | 361.3 | 73.9 | 15.98 | 69.9 | 15.10 | 66.1 | 14.53 | 64.7 | 13.88 | 61.7 | 13.16 | 58.8 | 12.15 |
| | | 433.5 | 73.9 | 16.01 | 69.9 | 15.13 | 66.1 | 14.57 | 64.7 | 13.91 | 61.7 | 13.11 | 58.8 | 12.17 |
| | 15 | 115.6 | 73.9 | 14.68 | 69.9 | 13.78 | 66.1 | 13.19 | 64.7 | 12.47 | 61.7 | 11.89 | 58.8 | 10.98 |
| | | 144.5 | 73.9 | 14.53 | 69.9 | 13.63 | 66.1 | 13.03 | 64.7 | 12.41 | 61.7 | 11.81 | 58.8 | 10.90 |
| | | 289.0 | 73.9 | 13.94 | 69.9 | 13.03 | 66.1 | 12.41 | 64.7 | 12.13 | 61.7 | 11.50 | 58.8 | 10.59 |
| | | 361.3 | 73.9 | 13.94 | 69.9 | 13.03 | 66.1 | 12.41 | 64.7 | 12.13 | 61.7 | 11.21 | 58.8 | 10.59 |
| | | 433.5 | 73.9 | 13.94 | 69.9 | 13.03 | 66.1 | 12.41 | 64.7 | 12.13 | 61.7 | 11.08 | 58.8 | 10.59 |
| | 20 | 115.6 | 73.9 | 12.21 | 69.9 | 11.57 | 66.1 | 11.29 | 64.7 | 10.98 | 61.7 | 10.39 | 58.8 | 9.75 |
| | | 144.5 | 73.9 | 12.13 | 69.9 | 11.50 | 66.1 | 11.21 | 64.7 | 10.90 | 61.7 | 10.31 | 58.8 | 9.68 |
| | | 289.0 | 73.9 | 11.81 | 69.9 | 11.21 | 66.1 | 10.90 | 64.7 | 10.59 | 61.7 | 9.99 | 58.8 | 9.40 |
| | | 361.3 | 73.9 | 11.81 | 69.9 | 11.21 | 66.1 | 10.90 | 64.7 | 10.31 | 61.7 | 9.99 | 58.8 | 9.09 |
| | | 433.5 | 73.9 | 11.81 | 69.9 | 11.21 | 66.1 | 10.90 | 64.7 | 10.16 | 61.7 | 9.99 | 58.8 | 8.93 |
| | 25 | 115.6 | 73.9 | 10.98 | 69.9 | 10.39 | 66.1 | 9.75 | 64.7 | 9.47 | 61.7 | 8.77 | 58.8 | 8.18 |
| | | 144.5 | 73.9 | 10.90 | 69.9 | 10.31 | 66.1 | 9.68 | 64.7 | 9.40 | 61.7 | 8.77 | 58.8 | 8.18 |
| | | 289.0 | 73.9 | 10.59 | 69.9 | 9.99 | 66.1 | 9.40 | 64.7 | 9.09 | 61.7 | 8.77 | 58.8 | 8.18 |
| | | 361.3 | 73.9 | 10.31 | 69.9 | 9.68 | 66.1 | 9.40 | 64.7 | 9.09 | 61.7 | 8.49 | 58.8 | 8.18 |
| | | 433.5 | 73.9 | 10.16 | 69.9 | 9.52 | 66.1 | 9.40 | 64.7 | 9.09 | 61.7 | 8.35 | 58.8 | 8.18 |
| | 30 | 115.6 | 73.9 | 9.75 | 69.9 | 9.17 | 66.1 | 8.57 | 64.7 | 8.18 | 61.7 | 7.93 | 58.8 | 7.27 |
| | | 144.5 | 73.9 | 9.68 | 69.9 | 9.09 | 66.1 | 8.49 | 64.7 | 8.18 | 61.7 | 7.86 | 58.8 | 7.27 |
| | | 289.0 | 73.9 | 9.40 | 69.9 | 8.77 | 66.1 | 8.18 | 64.7 | 8.18 | 61.7 | 7.58 | 58.8 | 7.27 |
| | | 361.3 | 73.9 | 9.40 | 69.9 | 8.77 | 66.1 | 8.18 | 64.7 | 7.86 | 61.7 | 7.58 | 58.8 | 7.27 |
| | | 433.5 | 73.9 | 9.40 | 69.9 | 8.77 | 66.1 | 8.18 | 64.7 | 7.71 | 61.7 | 7.58 | 58.8 | 7.27 |
| | 35 | 115.6 | 73.9 | 8.85 | 69.9 | 8.25 | 66.1 | 7.58 | 64.7 | 7.67 | 61.7 | 6.96 | 58.8 | 6.75 |
| | | 144.5 | 73.9 | 8.77 | 69.9 | 8.18 | 66.1 | 7.58 | 64.7 | 7.58 | 61.7 | 6.96 | 58.8 | 6.67 |
| | | 289.0 | 73.9 | 8.49 | 69.9 | 7.86 | 66.1 | 7.58 | 64.7 | 7.27 | 61.7 | 6.96 | 58.8 | 6.36 |
| | | 361.3 | 73.9 | 8.49 | 69.9 | 7.86 | 66.1 | 7.27 | 64.7 | 7.27 | 61.7 | 6.96 | 58.8 | 6.36 |
| | | 433.5 | 73.9 | 8.49 | 69.9 | 7.86 | 66.1 | 7.11 | 64.7 | 7.27 | 61.7 | 6.96 | 58.8 | 6.36 |
| | 40 | 115.6 | 73.9 | 8.25 | 69.9 | 7.67 | 66.1 | 7.03 | 64.7 | 6.67 | 61.7 | 6.36 | 58.8 | 6.12 |
| | | 144.5 | 73.9 | 8.18 | 69.9 | 7.58 | 66.1 | 6.96 | 64.7 | 6.67 | 61.7 | 6.36 | 58.8 | 6.04 |
| | | 289.0 | 73.9 | 7.86 | 69.9 | 7.27 | 66.1 | 6.67 | 64.7 | 6.67 | 61.7 | 6.36 | 58.8 | 5.76 |
| | | 361.3 | 73.9 | 7.86 | 69.9 | 7.27 | 66.1 | 6.67 | 64.7 | 6.36 | 61.7 | 6.04 | 58.8 | 5.76 |
| | | 433.5 | 73.9 | 7.86 | 69.9 | 7.27 | 66.1 | 6.67 | 64.7 | 6.20 | 61.7 | 5.89 | 58.8 | 5.76 |
| | 45 | 115.6 | 73.9 | 7.67 | 69.9 | 7.03 | 66.1 | 6.51 | 64.7 | 5.70 | 61.7 | 5.76 | 58.8 | 5.53 |
| | | 144.5 | 73.9 | 7.58 | 69.9 | 6.96 | 66.1 | 6.36 | 64.7 | 5.76 | 61.7 | 5.76 | 58.8 | 5.45 |
| | | 289.0 | 73.9 | 7.27 | 69.9 | 6.67 | 66.1 | 5.76 | 64.7 | 6.04 | 61.7 | 5.76 | 58.8 | 5.14 |
| | | 361.3 | 73.9 | 7.27 | 69.9 | 6.67 | 66.1 | 6.04 | 64.7 | 5.45 | 61.7 | 5.14 | 58.8 | 5.14 |
| | | 433.5 | 73.9 | 7.27 | 69.9 | 6.67 | 66.1 | 6.19 | 64.7 | 5.15 | 61.7 | 4.82 | 58.8 | 5.14 |
| 60 | -5 | 115.6 | 25.4 | 8.89 | 23.8 | 8.55 | 22.5 | 8.21 | 22.3 | 7.63 | 22.1 | 7.50 | 21.7 | 6.71 |
| | | 144.5 | 26.3 | 9.09 | 24.6 | 8.74 | 23.3 | 8.40 | 23.0 | 7.80 | 22.9 | 7.67 | 22.5 | 6.86 |
| | | 289.0 | 29.8 | 9.87 | 27.9 | 9.49 | 26.4 | 9.11 | 26.1 | 8.46 | 26.0 | 8.33 | 25.5 | 7.46 |
| | | 361.3 | 32.8 | 10.62 | 30.8 | 10.24 | 29.2 | 9.84 | 28.9 | 9.15 | 28.7 | 8.99 | 28.1 | 8.02 |
| | | 433.5 | 34.5 | 11.00 | 32.2 | 10.63 | 30.6 | 10.20 | 30.2 | 9.49 | 30.2 | 9.32 | 29.4 | 8.31 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 115.6 | 45.4 | 13.03 | 41.8 | 12.56 | 39.0 | 12.02 | 38.3 | 11.18 | 37.7 | 11.03 | 36.4 | 9.84 |
| | | 144.5 | 45.7 | 13.07 | 42.2 | 12.60 | 39.3 | 12.06 | 38.5 | 11.21 | 38.0 | 11.06 | 36.6 | 9.87 |
| | | 289.0 | 46.7 | 13.22 | 43.1 | 12.72 | 40.3 | 12.22 | 39.4 | 11.34 | 38.8 | 11.18 | 37.3 | 9.96 |
| | | 361.3 | 47.5 | 13.22 | 43.7 | 12.72 | 40.9 | 12.22 | 40.0 | 11.34 | 39.5 | 11.18 | 38.0 | 9.96 |
| | | 433.5 | 47.8 | 13.22 | 44.1 | 12.72 | 41.2 | 12.22 | 40.3 | 11.34 | 39.8 | 11.18 | 38.3 | 9.96 |
| | 5 | 115.6 | 62.8 | 14.18 | 59.2 | 13.65 | 56.8 | 13.09 | 55.3 | 12.19 | 53.0 | 12.00 | 50.4 | 10.69 |
| | | 144.5 | 63.0 | 14.25 | 59.3 | 13.72 | 56.8 | 13.16 | 55.3 | 12.25 | 53.0 | 12.06 | 50.4 | 10.74 |
| | | 289.0 | 63.5 | 14.53 | 59.8 | 14.01 | 56.8 | 13.44 | 55.3 | 12.50 | 53.0 | 12.32 | 50.4 | 10.97 |
| | | 361.3 | 63.5 | 14.66 | 59.7 | 14.10 | 56.8 | 13.54 | 55.3 | 12.60 | 53.0 | 12.38 | 50.4 | 11.06 |
| | | 433.5 | 63.5 | 14.72 | 59.6 | 14.14 | 56.8 | 13.58 | 55.3 | 12.64 | 53.0 | 12.41 | 50.4 | 11.10 |
| | 10 | 115.6 | 63.2 | 13.03 | 59.4 | 12.47 | 56.8 | 11.87 | 55.3 | 11.09 | 53.0 | 10.88 | 50.4 | 9.75 |
| | | 144.5 | 63.2 | 13.03 | 59.5 | 12.47 | 56.8 | 11.87 | 55.3 | 11.12 | 53.0 | 10.87 | 50.4 | 9.77 |
| | | 289.0 | 63.5 | 13.03 | 59.8 | 12.47 | 56.8 | 11.87 | 55.3 | 11.25 | 53.0 | 10.84 | 50.4 | 9.87 |
| | | 361.3 | 63.5 | 13.07 | 59.7 | 12.34 | 56.8 | 11.75 | 55.3 | 11.12 | 53.0 | 10.74 | 50.4 | 9.77 |
| | | 433.5 | 63.5 | 13.08 | 59.6 | 12.28 | 56.8 | 11.68 | 55.3 | 11.06 | 53.0 | 10.70 | 50.4 | 9.73 |
| | 15 | 115.6 | 63.5 | 11.89 | 59.7 | 11.29 | 56.8 | 10.66 | 55.3 | 9.99 | 53.0 | 9.75 | 50.4 | 8.77 |
| | | 144.5 | 63.5 | 11.81 | 59.7 | 11.21 | 56.8 | 10.59 | 55.3 | 9.99 | 53.0 | 9.68 | 50.4 | 8.77 |
| | | 289.0 | 63.5 | 11.50 | 59.7 | 10.90 | 56.8 | 10.31 | 55.3 | 9.99 | 53.0 | 9.40 | 50.4 | 8.77 |
| | | 361.3 | 63.5 | 11.50 | 59.7 | 10.59 | 56.8 | 9.99 | 55.3 | 9.68 | 53.0 | 9.09 | 50.4 | 8.49 |
| | | 433.5 | 63.5 | 11.50 | 59.7 | 10.43 | 56.8 | 9.84 | 55.3 | 9.52 | 53.0 | 8.93 | 50.4 | 8.35 |
| | 20 | 115.6 | 63.5 | 10.39 | 59.7 | 9.75 | 56.8 | 9.17 | 55.3 | 8.85 | 53.0 | 8.57 | 50.4 | 7.93 |
| | | 144.5 | 63.5 | 10.31 | 59.7 | 9.68 | 56.8 | 9.09 | 55.3 | 8.77 | 53.0 | 8.49 | 50.4 | 7.86 |
| | | 289.0 | 63.5 | 9.99 | 59.7 | 9.40 | 56.8 | 8.77 | 55.3 | 8.49 | 53.0 | 8.18 | 50.4 | 7.58 |
| | | 361.3 | 63.5 | 9.99 | 59.7 | 9.40 | 56.8 | 8.77 | 55.3 | 8.49 | 53.0 | 8.18 | 50.4 | 7.58 |
| | | 433.5 | 63.5 | 9.99 | 59.7 | 9.40 | 56.8 | 8.77 | 55.3 | 8.49 | 53.0 | 8.18 | 50.4 | 7.58 |
| | 25 | 115.6 | 63.5 | 9.17 | 59.7 | 8.57 | 56.8 | 7.86 | 55.3 | 7.93 | 53.0 | 7.27 | 50.4 | 7.03 |
| | | 144.5 | 63.5 | 9.09 | 59.7 | 8.49 | 56.8 | 7.86 | 55.3 | 7.86 | 53.0 | 7.27 | 50.4 | 6.96 |
| | | 289.0 | 63.5 | 8.77 | 59.7 | 8.18 | 56.8 | 7.86 | 55.3 | 7.58 | 53.0 | 7.27 | 50.4 | 6.67 |
| | | 361.3 | 63.5 | 8.77 | 59.7 | 8.18 | 56.8 | 7.58 | 55.3 | 7.58 | 53.0 | 7.27 | 50.4 | 6.67 |
| | | 433.5 | 63.5 | 8.77 | 59.7 | 8.18 | 56.8 | 7.44 | 55.3 | 7.58 | 53.0 | 7.27 | 50.4 | 6.67 |
| | 30 | 115.6 | 63.5 | 8.25 | 59.7 | 7.67 | 56.8 | 7.35 | 55.3 | 7.03 | 53.0 | 6.75 | 50.4 | 6.43 |
| | | 144.5 | 63.5 | 8.18 | 59.7 | 7.58 | 56.8 | 7.27 | 55.3 | 6.96 | 53.0 | 6.67 | 50.4 | 6.36 |
| | | 289.0 | 63.5 | 7.86 | 59.7 | 7.27 | 56.8 | 6.96 | 55.3 | 6.67 | 53.0 | 6.36 | 50.4 | 6.04 |
| | | 361.3 | 63.5 | 7.86 | 59.7 | 7.27 | 56.8 | 6.96 | 55.3 | 6.67 | 53.0 | 6.36 | 50.4 | 6.04 |
| | | 433.5 | 63.5 | 7.86 | 59.7 | 7.27 | 56.8 | 6.96 | 55.3 | 6.67 | 53.0 | 6.36 | 50.4 | 6.04 |
| | 35 | 115.6 | 63.5 | 7.27 | 59.7 | 7.03 | 56.8 | 6.36 | 55.3 | 6.43 | 53.0 | 6.12 | 50.4 | 5.85 |
| | | 144.5 | 63.5 | 7.27 | 59.7 | 6.96 | 56.8 | 6.36 | 55.3 | 6.36 | 53.0 | 6.04 | 50.4 | 5.76 |
| | | 289.0 | 63.5 | 7.27 | 59.7 | 6.67 | 56.8 | 6.36 | 55.3 | 6.04 | 53.0 | 5.76 | 50.4 | 5.45 |
| | | 361.3 | 63.5 | 7.27 | 59.7 | 6.67 | 56.8 | 6.04 | 55.3 | 6.04 | 53.0 | 5.76 | 50.4 | 5.45 |
| | | 433.5 | 63.5 | 7.27 | 59.7 | 6.67 | 56.8 | 5.89 | 55.3 | 6.04 | 53.0 | 5.76 | 50.4 | 5.45 |
| | 40 | 115.6 | 63.5 | 6.67 | 59.7 | 6.43 | 56.8 | 5.76 | 55.3 | 5.85 | 53.0 | 5.53 | 50.4 | 5.14 |
| | | 144.5 | 63.5 | 6.67 | 59.7 | 6.36 | 56.8 | 5.76 | 55.3 | 5.76 | 53.0 | 5.45 | 50.4 | 5.14 |
| | | 289.0 | 63.5 | 6.67 | 59.7 | 6.04 | 56.8 | 5.76 | 55.3 | 5.45 | 53.0 | 5.14 | 50.4 | 5.14 |
| | | 361.3 | 63.5 | 6.67 | 59.7 | 6.04 | 56.8 | 5.76 | 55.3 | 5.45 | 53.0 | 5.14 | 50.4 | 5.14 |
| | | 433.5 | 63.5 | 6.67 | 59.7 | 6.04 | 56.8 | 5.76 | 55.3 | 5.45 | 53.0 | 5.14 | 50.4 | 5.14 |
| | 45 | 115.6 | 63.5 | 6.04 | 59.7 | 5.85 | 56.8 | 5.14 | 55.3 | 5.21 | 53.0 | 4.93 | 50.4 | 4.46 |
| | | 144.5 | 63.5 | 6.04 | 59.7 | 5.76 | 56.8 | 5.14 | 55.3 | 5.14 | 53.0 | 4.86 | 50.4 | 4.54 |
| | | 289.0 | 63.5 | 6.04 | 59.7 | 5.45 | 56.8 | 5.14 | 55.3 | 4.86 | 53.0 | 4.54 | 50.4 | 4.86 |
| | | 361.3 | 63.5 | 6.04 | 59.7 | 5.45 | 56.8 | 5.45 | 55.3 | 4.86 | 53.0 | 4.54 | 50.4 | 4.86 |
| | | 433.5 | 63.5 | 6.04 | 59.7 | 5.45 | 56.8 | 5.61 | 55.3 | 4.86 | 53.0 | 4.54 | 50.4 | 4.86 |
| 50 | -5 | 115.6 | 21.2 | 7.09 | 19.9 | 6.71 | 18.8 | 6.35 | 18.5 | 6.00 | 18.4 | 5.64 | 18.1 | 5.34 |
| | | 144.5 | 21.9 | 7.24 | 20.6 | 6.86 | 19.5 | 6.49 | 19.1 | 6.14 | 19.1 | 5.76 | 18.7 | 5.45 |
| | | 289.0 | 24.7 | 7.84 | 23.2 | 7.46 | 22.0 | 7.02 | 21.7 | 6.67 | 21.6 | 6.26 | 21.2 | 5.89 |
| | | 361.3 | 27.4 | 8.46 | 25.7 | 8.02 | 24.2 | 7.58 | 24.0 | 7.20 | 23.8 | 6.73 | 23.5 | 6.36 |
| | | 433.5 | 28.7 | 8.77 | 27.0 | 8.31 | 25.5 | 7.86 | 25.1 | 7.48 | 24.9 | 6.97 | 24.6 | 6.60 |
| | 0 | 115.6 | 37.7 | 10.37 | 34.9 | 9.84 | 32.5 | 9.28 | 31.8 | 8.80 | 31.3 | 8.27 | 30.2 | 7.80 |
| | | 144.5 | 38.0 | 10.40 | 35.2 | 9.87 | 32.7 | 9.30 | 32.0 | 8.83 | 31.5 | 8.30 | 30.4 | 7.84 |
| | | 289.0 | 38.8 | 10.50 | 36.0 | 9.96 | 33.5 | 9.43 | 32.8 | 8.96 | 32.4 | 8.40 | 31.1 | 7.93 |
| | | 361.3 | 39.5 | 10.50 | 36.5 | 9.96 | 33.9 | 9.43 | 33.3 | 8.96 | 32.8 | 8.40 | 31.7 | 7.93 |
| | | 433.5 | 39.8 | 10.50 | 36.7 | 9.96 | 34.1 | 9.43 | 33.6 | 8.96 | 33.0 | 8.40 | 31.9 | 7.93 |
| | 5 | 115.6 | 52.2 | 11.29 | 49.5 | 10.69 | 47.2 | 10.09 | 46.1 | 9.60 | 44.1 | 9.02 | 42.0 | 8.47 |
| | | 144.5 | 52.3 | 11.34 | 49.5 | 10.74 | 47.2 | 10.15 | 46.1 | 9.65 | 44.1 | 9.06 | 42.0 | 8.52 |
| | | 289.0 | 52.7 | 11.56 | 49.9 | 10.97 | 47.3 | 10.37 | 46.1 | 9.84 | 44.1 | 9.21 | 42.0 | 8.70 |
| | | 361.3 | 52.7 | 11.65 | 49.9 | 11.06 | 47.3 | 10.43 | 46.1 | 9.90 | 44.1 | 9.30 | 42.0 | 8.77 |
| | | 433.5 | 52.7 | 11.70 | 49.8 | 11.10 | 47.3 | 10.46 | 46.1 | 9.93 | 44.1 | 9.35 | 42.0 | 8.80 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(30HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 115.6 | 52.5 | 10.39 | 49.6 | 9.79 | 47.2 | 9.19 | 46.1 | 8.79 | 44.1 | 8.12 | 42.0 | 7.76 |
| | | 144.5 | 52.5 | 10.37 | 49.7 | 9.77 | 47.2 | 9.18 | 46.1 | 8.77 | 44.1 | 8.14 | 42.0 | 7.74 |
| | | 289.0 | 52.7 | 10.31 | 49.9 | 9.75 | 47.3 | 9.11 | 46.1 | 8.70 | 44.1 | 8.24 | 42.0 | 7.67 |
| | | 361.3 | 52.7 | 10.37 | 49.9 | 9.77 | 47.3 | 9.15 | 46.1 | 8.74 | 44.1 | 8.12 | 42.0 | 7.71 |
| | | 433.5 | 52.7 | 10.40 | 49.8 | 9.79 | 47.3 | 9.17 | 46.1 | 8.76 | 44.1 | 8.05 | 42.0 | 7.72 |
| | 15 | 115.6 | 52.7 | 9.47 | 49.9 | 8.85 | 47.3 | 8.25 | 46.1 | 7.93 | 44.1 | 7.27 | 42.0 | 7.03 |
| | | 144.5 | 52.7 | 9.40 | 49.9 | 8.77 | 47.3 | 8.18 | 46.1 | 7.86 | 44.1 | 7.27 | 42.0 | 6.96 |
| | | 289.0 | 52.7 | 9.09 | 49.9 | 8.49 | 47.3 | 7.86 | 46.1 | 7.58 | 44.1 | 7.27 | 42.0 | 6.67 |
| | | 361.3 | 52.7 | 9.09 | 49.9 | 8.49 | 47.3 | 7.86 | 46.1 | 7.58 | 44.1 | 6.96 | 42.0 | 6.67 |
| | | 433.5 | 52.7 | 9.09 | 49.9 | 8.49 | 47.3 | 7.86 | 46.1 | 7.58 | 44.1 | 6.79 | 42.0 | 6.67 |
| | 20 | 115.6 | 52.7 | 8.25 | 49.9 | 7.67 | 47.3 | 7.35 | 46.1 | 7.03 | 44.1 | 6.75 | 42.0 | 6.04 |
| | | 144.5 | 52.7 | 8.18 | 49.9 | 7.58 | 47.3 | 7.27 | 46.1 | 6.96 | 44.1 | 6.67 | 42.0 | 6.04 |
| | | 289.0 | 52.7 | 7.86 | 49.9 | 7.27 | 47.3 | 6.96 | 46.1 | 6.67 | 44.1 | 6.36 | 42.0 | 6.04 |
| | | 361.3 | 52.7 | 7.86 | 49.9 | 7.27 | 47.3 | 6.96 | 46.1 | 6.67 | 44.1 | 6.36 | 42.0 | 6.04 |
| | | 433.5 | 52.7 | 7.86 | 49.9 | 7.27 | 47.3 | 6.96 | 46.1 | 6.67 | 44.1 | 6.36 | 42.0 | 6.04 |
| | 25 | 115.6 | 52.7 | 7.35 | 49.9 | 6.67 | 47.3 | 6.43 | 46.1 | 6.04 | 44.1 | 5.76 | 42.0 | 5.45 |
| | | 144.5 | 52.7 | 7.27 | 49.9 | 6.67 | 47.3 | 6.36 | 46.1 | 6.04 | 44.1 | 5.76 | 42.0 | 5.45 |
| | | 289.0 | 52.7 | 6.96 | 49.9 | 6.67 | 47.3 | 6.04 | 46.1 | 6.04 | 44.1 | 5.76 | 42.0 | 5.45 |
| | | 361.3 | 52.7 | 6.96 | 49.9 | 6.67 | 47.3 | 6.04 | 46.1 | 6.04 | 44.1 | 5.76 | 42.0 | 5.45 |
| | | 433.5 | 52.7 | 6.96 | 49.9 | 6.67 | 47.3 | 6.04 | 46.1 | 6.04 | 44.1 | 5.76 | 42.0 | 5.45 |
| | 30 | 115.6 | 52.7 | 6.75 | 49.9 | 6.12 | 47.3 | 5.85 | 46.1 | 5.45 | 44.1 | 5.53 | 42.0 | 5.21 |
| | | 144.5 | 52.7 | 6.67 | 49.9 | 6.04 | 47.3 | 5.76 | 46.1 | 5.45 | 44.1 | 5.45 | 42.0 | 5.14 |
| | | 289.0 | 52.7 | 6.36 | 49.9 | 5.76 | 47.3 | 5.45 | 46.1 | 5.45 | 44.1 | 5.14 | 42.0 | 4.86 |
| | | 361.3 | 52.7 | 6.36 | 49.9 | 5.76 | 47.3 | 5.45 | 46.1 | 5.45 | 44.1 | 5.14 | 42.0 | 4.86 |
| | | 433.5 | 52.7 | 6.36 | 49.9 | 5.76 | 47.3 | 5.45 | 46.1 | 5.45 | 44.1 | 5.14 | 42.0 | 4.86 |
| | 35 | 115.6 | 52.7 | 6.12 | 49.9 | 5.45 | 47.3 | 5.14 | 46.1 | 5.21 | 44.1 | 4.86 | 42.0 | 4.54 |
| | | 144.5 | 52.7 | 6.04 | 49.9 | 5.45 | 47.3 | 5.14 | 46.1 | 5.14 | 44.1 | 4.86 | 42.0 | 4.54 |
| | | 289.0 | 52.7 | 5.76 | 49.9 | 5.45 | 47.3 | 5.14 | 46.1 | 4.86 | 44.1 | 4.86 | 42.0 | 4.54 |
| | | 361.3 | 52.7 | 5.76 | 49.9 | 5.45 | 47.3 | 5.14 | 46.1 | 4.86 | 44.1 | 4.86 | 42.0 | 4.54 |
| | | 433.5 | 52.7 | 5.76 | 49.9 | 5.45 | 47.3 | 5.14 | 46.1 | 4.86 | 44.1 | 4.86 | 42.0 | 4.54 |
| | 40 | 115.6 | 52.7 | 5.53 | 49.9 | 5.21 | 47.3 | 4.93 | 46.1 | 4.54 | 44.1 | 4.62 | 42.0 | 4.23 |
| | | 144.5 | 52.7 | 5.45 | 49.9 | 5.14 | 47.3 | 4.86 | 46.1 | 4.54 | 44.1 | 4.54 | 42.0 | 4.23 |
| | | 289.0 | 52.7 | 5.14 | 49.9 | 4.86 | 47.3 | 4.54 | 46.1 | 4.54 | 44.1 | 4.23 | 42.0 | 4.23 |
| | | 361.3 | 52.7 | 5.14 | 49.9 | 4.86 | 47.3 | 4.54 | 46.1 | 4.54 | 44.1 | 4.23 | 42.0 | 4.23 |
| | | 433.5 | 52.7 | 5.14 | 49.9 | 4.86 | 47.3 | 4.54 | 46.1 | 4.54 | 44.1 | 4.23 | 42.0 | 4.23 |
| | 45 | 115.6 | 52.7 | 4.93 | 49.9 | 5.01 | 47.3 | 4.69 | 46.1 | 3.88 | 44.1 | 4.38 | 42.0 | 3.95 |
| | | 144.5 | 52.7 | 4.86 | 49.9 | 4.86 | 47.3 | 4.54 | 46.1 | 3.95 | 44.1 | 4.23 | 42.0 | 3.95 |
| | | 289.0 | 52.7 | 4.54 | 49.9 | 4.23 | 47.3 | 3.95 | 46.1 | 4.23 | 44.1 | 3.64 | 42.0 | 3.95 |
| | | 361.3 | 52.7 | 4.54 | 49.9 | 4.23 | 47.3 | 3.95 | 46.1 | 4.23 | 44.1 | 3.64 | 42.0 | 3.95 |
| | | 433.5 | 52.7 | 4.54 | 49.9 | 4.23 | 47.3 | 3.95 | 46.1 | 4.23 | 44.1 | 3.64 | 42.0 | 3.95 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN320BAS4

**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 123.2 | 47.6 | 20.30 | 47.4 | 19.10 | 47.0 | 17.78 | 46.4 | 17.26 | 47.0 | 16.82 | 45.6 | 15.08 |
| | | 154.0 | 49.4 | 20.64 | 49.0 | 19.48 | 48.6 | 18.18 | 48.0 | 17.64 | 48.6 | 17.18 | 47.2 | 15.40 |
| | | 308.0 | 55.8 | 22.06 | 55.4 | 20.96 | 55.0 | 19.72 | 54.2 | 19.14 | 55.0 | 18.62 | 53.6 | 16.70 |
| | | 385.0 | 61.6 | 23.46 | 61.2 | 22.38 | 60.8 | 21.26 | 60.0 | 20.68 | 60.8 | 20.08 | 59.2 | 18.02 |
| | | 462.0 | 64.6 | 24.16 | 64.0 | 23.12 | 63.6 | 22.02 | 62.8 | 21.46 | 63.6 | 20.82 | 62.0 | 18.66 |
| | 0 | 123.2 | 85.2 | 27.76 | 83.2 | 26.94 | 81.4 | 26.06 | 79.6 | 25.32 | 80.0 | 24.62 | 76.4 | 22.06 |
| | | 154.0 | 85.8 | 27.84 | 83.8 | 27.00 | 82.0 | 26.12 | 80.2 | 25.40 | 80.4 | 24.70 | 76.8 | 22.12 |
| | | 308.0 | 87.8 | 28.14 | 85.6 | 27.26 | 83.8 | 26.44 | 82.0 | 25.70 | 82.4 | 24.96 | 78.6 | 22.38 |
| | | 385.0 | 89.0 | 28.14 | 87.0 | 27.26 | 85.2 | 26.44 | 83.2 | 25.70 | 83.6 | 24.96 | 79.8 | 22.38 |
| | | 462.0 | 89.8 | 28.14 | 87.6 | 27.26 | 85.8 | 26.44 | 83.8 | 25.70 | 84.2 | 24.96 | 80.4 | 22.38 |
| | 5 | 123.2 | 122.6 | 29.84 | 120.8 | 29.10 | 118.4 | 28.36 | 115.4 | 27.56 | 112.2 | 26.80 | 106.0 | 24.00 |
| | | 154.0 | 123.2 | 29.98 | 121.0 | 29.24 | 118.4 | 28.50 | 115.4 | 27.70 | 112.2 | 26.94 | 106.0 | 24.12 |
| | | 308.0 | 124.8 | 30.50 | 121.8 | 29.78 | 118.4 | 29.08 | 115.4 | 28.26 | 112.2 | 27.46 | 106.0 | 24.62 |
| | | 385.0 | 125.6 | 30.70 | 122.2 | 29.98 | 118.4 | 29.28 | 115.4 | 28.46 | 112.2 | 27.66 | 106.0 | 24.80 |
| | | 462.0 | 126.0 | 30.80 | 122.4 | 30.08 | 118.4 | 29.38 | 115.4 | 28.56 | 112.2 | 27.76 | 106.0 | 24.88 |
| | 10 | 123.2 | 122.8 | 27.14 | 120.8 | 26.24 | 118.0 | 25.74 | 114.8 | 25.16 | 111.8 | 24.30 | 105.6 | 21.94 |
| | | 154.0 | 123.6 | 27.10 | 121.4 | 26.26 | 118.4 | 25.80 | 115.4 | 25.16 | 112.2 | 24.30 | 106.0 | 21.92 |
| | | 308.0 | 126.4 | 26.90 | 123.6 | 26.36 | 120.4 | 26.00 | 117.2 | 25.12 | 114.0 | 24.22 | 107.8 | 21.86 |
| | | 385.0 | 127.2 | 27.26 | 124.6 | 26.74 | 121.0 | 26.10 | 117.8 | 25.22 | 114.6 | 24.62 | 108.4 | 22.88 |
| | | 462.0 | 127.4 | 27.46 | 125.0 | 26.92 | 121.4 | 26.14 | 118.0 | 25.28 | 115.0 | 24.82 | 108.8 | 23.42 |
| | 15 | 123.2 | 123.0 | 24.46 | 120.8 | 23.42 | 117.4 | 23.18 | 114.4 | 22.78 | 111.4 | 21.82 | 105.2 | 19.88 |
| | | 154.0 | 124.0 | 24.22 | 121.8 | 23.32 | 118.4 | 23.12 | 115.4 | 22.62 | 112.2 | 21.66 | 106.0 | 19.72 |
| | | 308.0 | 128.0 | 23.26 | 125.4 | 22.92 | 122.2 | 22.92 | 119.0 | 21.96 | 115.6 | 20.98 | 109.4 | 19.04 |
| | | 385.0 | 128.8 | 23.82 | 126.6 | 23.46 | 123.6 | 22.92 | 120.4 | 21.96 | 117.2 | 21.58 | 110.8 | 20.98 |
| | | 462.0 | 129.0 | 24.12 | 127.2 | 23.72 | 124.4 | 22.92 | 121.0 | 21.96 | 118.0 | 21.88 | 111.4 | 21.96 |
| | 20 | 123.2 | 127.8 | 22.44 | 125.4 | 21.40 | 122.0 | 20.94 | 118.6 | 20.26 | 115.2 | 19.82 | 108.4 | 19.20 |
| | | 154.0 | 128.8 | 22.28 | 126.4 | 21.38 | 123.0 | 20.92 | 119.6 | 20.34 | 116.2 | 19.94 | 109.4 | 19.04 |
| | | 308.0 | 132.8 | 21.66 | 130.4 | 21.32 | 126.8 | 20.86 | 123.4 | 20.68 | 120.4 | 20.48 | 113.4 | 18.42 |
| | | 385.0 | 133.4 | 21.66 | 131.4 | 21.32 | 128.2 | 20.98 | 124.6 | 20.68 | 121.2 | 20.48 | 114.4 | 19.58 |
| | | 462.0 | 133.6 | 21.66 | 131.8 | 21.32 | 129.0 | 21.06 | 125.2 | 20.68 | 121.8 | 20.48 | 114.8 | 20.16 |
| | 25 | 123.2 | 134.8 | 21.40 | 131.4 | 20.78 | 128.2 | 20.44 | 125.8 | 20.10 | 123.0 | 19.80 | 116.0 | 18.50 |
| | | 154.0 | 134.8 | 21.32 | 131.4 | 20.74 | 128.2 | 20.34 | 125.8 | 20.02 | 123.0 | 19.72 | 116.0 | 18.42 |
| | | 308.0 | 134.8 | 20.98 | 131.4 | 20.62 | 128.2 | 20.02 | 125.8 | 19.72 | 123.0 | 19.38 | 116.0 | 18.08 |
| | | 385.0 | 134.8 | 20.68 | 131.4 | 20.08 | 128.2 | 19.72 | 125.8 | 19.38 | 123.0 | 19.04 | 116.0 | 17.78 |
| | | 462.0 | 134.8 | 20.54 | 131.4 | 19.82 | 128.2 | 19.56 | 125.8 | 19.22 | 123.0 | 18.88 | 116.0 | 17.62 |
| | 30 | 123.2 | 134.8 | 20.86 | 131.4 | 19.82 | 128.2 | 19.64 | 125.8 | 19.12 | 123.0 | 18.92 | 116.0 | 17.60 |
| | | 154.0 | 134.8 | 20.68 | 131.4 | 19.78 | 128.2 | 19.52 | 125.8 | 19.04 | 123.0 | 18.74 | 116.0 | 17.44 |
| | | 308.0 | 134.8 | 20.02 | 131.4 | 19.64 | 128.2 | 19.04 | 125.8 | 18.74 | 123.0 | 18.08 | 116.0 | 16.80 |
| | | 385.0 | 134.8 | 19.72 | 131.4 | 19.12 | 128.2 | 18.74 | 125.8 | 18.42 | 123.0 | 18.08 | 116.0 | 16.80 |
| | | 462.0 | 134.8 | 19.56 | 131.4 | 18.84 | 128.2 | 18.60 | 125.8 | 18.24 | 123.0 | 18.08 | 116.0 | 16.80 |
| | 35 | 123.2 | 134.8 | 19.88 | 131.4 | 19.22 | 128.2 | 18.82 | 125.8 | 18.16 | 123.0 | 17.52 | 116.0 | 16.30 |
| | | 154.0 | 134.8 | 19.72 | 131.4 | 19.12 | 128.2 | 18.74 | 125.8 | 18.08 | 123.0 | 17.44 | 116.0 | 16.14 |
| | | 308.0 | 134.8 | 19.04 | 131.4 | 18.68 | 128.2 | 18.42 | 125.8 | 17.78 | 123.0 | 17.10 | 116.0 | 15.50 |
| | | 385.0 | 134.8 | 19.04 | 131.4 | 18.48 | 128.2 | 18.08 | 125.8 | 17.44 | 123.0 | 16.80 | 116.0 | 15.50 |
| | | 462.0 | 134.8 | 19.04 | 131.4 | 18.38 | 128.2 | 17.90 | 125.8 | 17.28 | 123.0 | 16.66 | 116.0 | 15.50 |
| | 40 | 123.2 | 134.8 | 19.20 | 131.4 | 18.60 | 128.2 | 18.24 | 125.8 | 17.60 | 123.0 | 16.98 | 116.0 | 15.34 |
| | | 154.0 | 134.8 | 19.04 | 131.4 | 18.48 | 128.2 | 18.08 | 125.8 | 17.44 | 123.0 | 16.80 | 116.0 | 15.16 |
| | | 308.0 | 134.8 | 18.42 | 131.4 | 18.02 | 128.2 | 17.44 | 125.8 | 16.80 | 123.0 | 16.14 | 116.0 | 14.54 |
| | | 385.0 | 134.8 | 18.08 | 131.4 | 17.70 | 128.2 | 17.44 | 125.8 | 16.80 | 123.0 | 16.14 | 116.0 | 14.54 |
| | | 462.0 | 134.8 | 17.90 | 131.4 | 17.56 | 128.2 | 17.44 | 125.8 | 16.80 | 123.0 | 16.14 | 116.0 | 14.54 |
| | 45 | 123.2 | 134.8 | 18.58 | 131.4 | 17.96 | 128.2 | 17.68 | 125.8 | 17.06 | 123.0 | 16.38 | 116.0 | 14.36 |
| | | 154.0 | 134.8 | 18.42 | 131.4 | 17.84 | 128.2 | 17.44 | 125.8 | 16.80 | 123.0 | 16.14 | 116.0 | 14.20 |
| | | 308.0 | 134.8 | 17.78 | 131.4 | 17.38 | 128.2 | 16.48 | 125.8 | 15.84 | 123.0 | 15.16 | 116.0 | 13.56 |
| | | 385.0 | 134.8 | 17.10 | 131.4 | 16.94 | 128.2 | 16.80 | 125.8 | 16.14 | 123.0 | 15.50 | 116.0 | 13.56 |
| | | 462.0 | 134.8 | 16.78 | 131.4 | 16.72 | 128.2 | 16.98 | 125.8 | 16.30 | 123.0 | 15.68 | 116.0 | 13.56 |
| 120 | -5 | 123.2 | 45.4 | 20.30 | 45.0 | 19.10 | 44.6 | 17.78 | 44.2 | 17.04 | 44.6 | 16.54 | 43.4 | 14.80 |
| | | 154.0 | 46.8 | 20.64 | 46.6 | 19.48 | 46.2 | 18.18 | 45.6 | 17.40 | 46.0 | 16.90 | 44.8 | 15.14 |
| | | 308.0 | 53.0 | 22.06 | 52.6 | 20.96 | 52.4 | 19.72 | 51.6 | 18.88 | 52.2 | 18.34 | 50.8 | 16.44 |
| | | 385.0 | 58.6 | 23.46 | 58.2 | 22.38 | 57.8 | 21.26 | 57.2 | 20.38 | 57.6 | 19.78 | 56.0 | 17.70 |
| | | 462.0 | 61.4 | 24.16 | 61.0 | 23.12 | 60.6 | 22.02 | 59.8 | 21.14 | 60.4 | 20.50 | 58.6 | 18.34 |
| | 0 | 123.2 | 81.0 | 27.76 | 79.0 | 26.94 | 77.4 | 26.06 | 75.8 | 24.96 | 75.8 | 24.26 | 72.4 | 21.68 |
| | | 154.0 | 81.4 | 27.84 | 79.6 | 27.00 | 77.8 | 26.12 | 76.2 | 25.02 | 76.2 | 24.32 | 72.8 | 21.76 |
| | | 308.0 | 83.4 | 28.14 | 81.4 | 27.26 | 79.8 | 26.44 | 78.0 | 25.32 | 78.0 | 24.60 | 74.6 | 22.02 |
| | | 385.0 | 84.6 | 28.14 | 82.8 | 27.26 | 81.0 | 26.44 | 79.2 | 25.32 | 79.2 | 24.60 | 75.6 | 22.02 |
| | | 462.0 | 85.4 | 28.14 | 83.4 | 27.26 | 81.6 | 26.44 | 79.8 | 25.32 | 79.8 | 24.60 | 76.2 | 22.02 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 123.2 | 116.8 | 29.84 | 115.0 | 29.10 | 112.6 | 28.36 | 109.8 | 27.16 | 106.4 | 26.40 | 100.6 | 23.64 |
| | | 154.0 | 117.2 | 29.98 | 115.2 | 29.24 | 112.6 | 28.50 | 109.8 | 27.30 | 106.4 | 26.54 | 100.6 | 23.76 |
| | | 308.0 | 118.8 | 30.50 | 116.0 | 29.78 | 112.6 | 29.08 | 109.8 | 27.86 | 106.4 | 27.06 | 100.6 | 24.22 |
| | | 385.0 | 119.6 | 30.70 | 115.4 | 29.98 | 112.6 | 29.28 | 109.8 | 28.06 | 106.4 | 27.26 | 100.6 | 24.40 |
| | | 462.0 | 119.8 | 30.80 | 115.0 | 30.08 | 112.6 | 29.38 | 109.8 | 28.16 | 106.4 | 27.36 | 100.6 | 24.48 |
| | 10 | 123.2 | 117.2 | 26.80 | 115.0 | 26.06 | 112.2 | 25.54 | 109.4 | 24.76 | 106.0 | 23.94 | 100.2 | 21.52 |
| | | 154.0 | 117.8 | 26.90 | 115.6 | 26.16 | 112.6 | 25.62 | 109.8 | 24.80 | 106.4 | 23.92 | 100.6 | 21.56 |
| | | 308.0 | 120.0 | 27.26 | 117.4 | 26.56 | 113.8 | 26.00 | 111.0 | 24.92 | 107.4 | 23.86 | 101.6 | 21.66 |
| | | 385.0 | 120.6 | 27.16 | 117.0 | 26.56 | 114.2 | 26.10 | 111.4 | 25.02 | 108.0 | 23.96 | 102.0 | 22.38 |
| | | 462.0 | 121.0 | 27.12 | 116.8 | 26.56 | 114.4 | 26.14 | 111.8 | 25.08 | 108.2 | 24.00 | 102.2 | 22.76 |
| | 15 | 123.2 | 117.6 | 23.78 | 115.2 | 23.08 | 111.8 | 22.72 | 109.2 | 22.38 | 105.8 | 21.48 | 100.0 | 19.46 |
| | | 154.0 | 118.2 | 23.82 | 115.8 | 23.12 | 112.6 | 22.76 | 109.8 | 22.28 | 106.4 | 21.32 | 100.6 | 19.38 |
| | | 308.0 | 121.0 | 24.02 | 118.8 | 23.32 | 115.0 | 22.92 | 112.2 | 21.96 | 108.4 | 20.68 | 102.6 | 19.04 |
| | | 385.0 | 121.6 | 23.66 | 118.6 | 23.12 | 116.0 | 22.92 | 113.2 | 21.96 | 109.4 | 20.68 | 103.6 | 20.34 |
| | | 462.0 | 122.0 | 23.48 | 118.6 | 23.02 | 116.4 | 22.92 | 113.6 | 21.96 | 109.8 | 20.68 | 104.0 | 21.00 |
| | 20 | 123.2 | 120.8 | 21.38 | 118.6 | 20.48 | 115.0 | 19.94 | 111.8 | 19.64 | 108.2 | 19.40 | 102.4 | 18.42 |
| | | 154.0 | 121.6 | 21.38 | 119.2 | 20.54 | 115.6 | 20.02 | 112.6 | 19.72 | 108.8 | 19.38 | 103.0 | 18.34 |
| | | 308.0 | 124.8 | 21.38 | 122.0 | 20.86 | 118.2 | 20.34 | 115.4 | 20.02 | 111.6 | 19.32 | 105.4 | 18.08 |
| | | 385.0 | 125.2 | 21.18 | 122.0 | 20.68 | 119.0 | 20.34 | 116.0 | 20.02 | 112.2 | 19.38 | 106.0 | 18.74 |
| | | 462.0 | 125.6 | 21.08 | 122.0 | 20.60 | 119.6 | 20.34 | 116.4 | 20.02 | 112.6 | 19.42 | 106.4 | 19.08 |
| | 25 | 123.2 | 126.8 | 20.22 | 123.0 | 19.28 | 119.0 | 18.92 | 116.6 | 18.50 | 113.4 | 18.16 | 107.2 | 16.90 |
| | | 154.0 | 126.8 | 20.14 | 123.0 | 19.24 | 119.0 | 18.88 | 116.6 | 18.42 | 113.4 | 18.08 | 107.2 | 16.80 |
| | | 308.0 | 127.0 | 19.84 | 123.0 | 19.12 | 119.0 | 18.74 | 116.6 | 18.08 | 113.4 | 17.78 | 107.2 | 16.48 |
| | | 385.0 | 127.4 | 19.12 | 123.0 | 18.62 | 119.0 | 18.42 | 116.6 | 18.08 | 113.4 | 17.44 | 107.2 | 16.48 |
| | | 462.0 | 127.6 | 18.74 | 123.0 | 18.36 | 119.0 | 18.24 | 116.6 | 18.08 | 113.4 | 17.28 | 107.2 | 16.48 |
| | 30 | 123.2 | 127.4 | 19.34 | 123.0 | 18.38 | 119.0 | 17.86 | 116.6 | 17.18 | 113.4 | 16.98 | 107.2 | 15.58 |
| | | 154.0 | 127.4 | 19.18 | 123.0 | 18.28 | 119.0 | 17.78 | 116.6 | 17.10 | 113.4 | 16.80 | 107.2 | 15.50 |
| | | 308.0 | 127.4 | 18.54 | 123.0 | 17.84 | 119.0 | 17.44 | 116.6 | 16.80 | 113.4 | 16.14 | 107.2 | 15.16 |
| | | 385.0 | 127.4 | 17.94 | 123.0 | 17.44 | 119.0 | 17.10 | 116.6 | 16.80 | 113.4 | 16.14 | 107.2 | 14.86 |
| | | 462.0 | 127.4 | 17.64 | 123.0 | 17.24 | 119.0 | 16.94 | 116.6 | 16.80 | 113.4 | 16.14 | 107.2 | 14.72 |
| | 35 | 123.2 | 127.4 | 18.48 | 123.0 | 17.46 | 119.0 | 16.98 | 116.6 | 16.30 | 113.4 | 15.66 | 107.2 | 14.28 |
| | | 154.0 | 127.4 | 18.22 | 123.0 | 17.30 | 119.0 | 16.80 | 116.6 | 16.14 | 113.4 | 15.50 | 107.2 | 14.20 |
| | | 308.0 | 127.4 | 17.18 | 123.0 | 16.68 | 119.0 | 16.14 | 116.6 | 15.50 | 113.4 | 14.86 | 107.2 | 13.90 |
| | | 385.0 | 127.4 | 16.98 | 123.0 | 16.54 | 119.0 | 16.14 | 116.6 | 15.50 | 113.4 | 14.86 | 107.2 | 13.56 |
| | | 462.0 | 127.4 | 16.88 | 123.0 | 16.48 | 119.0 | 16.14 | 116.6 | 15.50 | 113.4 | 14.86 | 107.2 | 13.40 |
| | 40 | 123.2 | 127.4 | 17.92 | 123.0 | 16.66 | 119.0 | 16.00 | 116.6 | 15.34 | 113.4 | 14.70 | 107.2 | 13.30 |
| | | 154.0 | 127.4 | 17.58 | 123.0 | 16.48 | 119.0 | 15.84 | 116.6 | 15.16 | 113.4 | 14.54 | 107.2 | 13.24 |
| | | 308.0 | 127.4 | 16.20 | 123.0 | 15.70 | 119.0 | 15.16 | 116.6 | 14.54 | 113.4 | 13.90 | 107.2 | 12.94 |
| | | 385.0 | 127.4 | 16.00 | 123.0 | 15.50 | 119.0 | 15.16 | 116.6 | 14.54 | 113.4 | 13.90 | 107.2 | 12.60 |
| | | 462.0 | 127.4 | 15.90 | 123.0 | 15.40 | 119.0 | 15.16 | 116.6 | 14.54 | 113.4 | 13.90 | 107.2 | 12.42 |
| | 45 | 123.2 | 127.4 | 17.38 | 123.0 | 15.86 | 119.0 | 15.04 | 116.6 | 14.36 | 113.4 | 13.72 | 107.2 | 12.34 |
| | | 154.0 | 127.4 | 16.94 | 123.0 | 15.64 | 119.0 | 14.86 | 116.6 | 14.20 | 113.4 | 13.56 | 107.2 | 12.26 |
| | | 308.0 | 127.4 | 15.24 | 123.0 | 14.74 | 119.0 | 14.20 | 116.6 | 13.56 | 113.4 | 12.94 | 107.2 | 11.96 |
| | | 385.0 | 127.4 | 15.04 | 123.0 | 14.46 | 119.0 | 14.20 | 116.6 | 13.56 | 113.4 | 12.94 | 107.2 | 11.62 |
| | | 462.0 | 127.4 | 14.94 | 123.0 | 14.34 | 119.0 | 14.20 | 116.6 | 13.56 | 113.4 | 12.94 | 107.2 | 11.46 |
| 110 | -5 | 123.2 | 42.8 | 20.56 | 42.6 | 19.10 | 42.4 | 17.78 | 41.8 | 17.04 | 42.0 | 16.54 | 41.0 | 14.80 |
| | | 154.0 | 44.4 | 20.92 | 44.0 | 19.48 | 43.8 | 18.18 | 43.4 | 17.40 | 43.4 | 16.90 | 42.4 | 15.14 |
| | | 308.0 | 50.2 | 22.32 | 49.8 | 20.96 | 49.6 | 19.72 | 49.0 | 18.88 | 49.0 | 18.34 | 48.2 | 16.44 |
| | | 385.0 | 55.4 | 23.76 | 55.0 | 22.38 | 54.8 | 21.26 | 54.2 | 20.38 | 54.2 | 19.78 | 53.0 | 17.70 |
| | | 462.0 | 58.0 | 24.48 | 57.6 | 23.12 | 57.4 | 22.02 | 56.8 | 21.14 | 56.8 | 20.50 | 55.6 | 18.34 |
| | 0 | 123.2 | 76.6 | 28.14 | 75.0 | 26.94 | 73.4 | 26.06 | 72.0 | 24.96 | 71.4 | 24.26 | 68.6 | 21.68 |
| | | 154.0 | 77.0 | 28.20 | 75.4 | 27.00 | 73.8 | 26.12 | 72.4 | 25.02 | 71.8 | 24.32 | 69.0 | 21.76 |
| | | 308.0 | 78.8 | 28.46 | 77.2 | 27.26 | 75.4 | 26.44 | 74.0 | 25.32 | 73.4 | 24.60 | 70.6 | 22.02 |
| | | 385.0 | 80.0 | 28.46 | 78.4 | 27.26 | 76.8 | 26.44 | 75.2 | 25.32 | 74.6 | 24.60 | 71.6 | 22.02 |
| | | 462.0 | 80.6 | 28.46 | 79.0 | 27.26 | 77.4 | 26.44 | 75.8 | 25.32 | 75.2 | 24.60 | 72.2 | 22.02 |
| | 5 | 123.2 | 111.8 | 30.24 | 109.2 | 29.10 | 106.6 | 28.36 | 104.2 | 27.16 | 100.2 | 26.40 | 95.2 | 23.64 |
| | | 154.0 | 112.2 | 30.38 | 109.4 | 29.24 | 106.6 | 28.50 | 104.2 | 27.30 | 100.2 | 26.54 | 95.2 | 23.76 |
| | | 308.0 | 113.6 | 30.90 | 110.2 | 29.78 | 106.8 | 29.08 | 104.2 | 27.86 | 100.2 | 27.06 | 95.2 | 24.22 |
| | | 385.0 | 114.4 | 31.10 | 110.4 | 29.98 | 106.8 | 29.28 | 104.2 | 28.06 | 100.2 | 27.26 | 95.2 | 24.40 |
| | | 462.0 | 114.6 | 31.20 | 110.6 | 30.08 | 106.8 | 29.38 | 104.2 | 28.16 | 100.2 | 27.36 | 95.2 | 24.48 |
| | 10 | 123.2 | 112.2 | 27.12 | 109.4 | 26.18 | 106.4 | 25.62 | 104.0 | 24.76 | 100.0 | 23.94 | 95.2 | 21.52 |
| | | 154.0 | 112.6 | 27.16 | 109.8 | 26.26 | 106.6 | 25.70 | 104.2 | 24.80 | 100.2 | 23.92 | 95.2 | 21.56 |
| | | 308.0 | 114.4 | 27.36 | 110.8 | 26.56 | 107.2 | 26.00 | 104.8 | 24.92 | 100.8 | 23.86 | 95.8 | 21.66 |
| | | 385.0 | 115.0 | 27.36 | 111.4 | 26.56 | 107.6 | 25.92 | 105.0 | 24.86 | 101.0 | 23.96 | 96.0 | 21.88 |
| | | 462.0 | 115.2 | 27.36 | 111.6 | 26.56 | 107.8 | 25.90 | 105.2 | 24.82 | 101.0 | 24.00 | 96.2 | 22.00 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 123.2 | 112.6 | 24.00 | 109.6 | 23.32 | 106.4 | 22.92 | 103.8 | 22.38 | 99.8 | 21.48 | 95.0 | 19.46 |
| | | 154.0 | 113.0 | 23.96 | 110.0 | 23.32 | 106.8 | 22.92 | 104.2 | 22.28 | 100.2 | 21.32 | 95.2 | 19.38 |
| | | 308.0 | 114.8 | 23.82 | 111.6 | 23.32 | 108.0 | 22.92 | 105.4 | 21.96 | 101.4 | 20.68 | 96.2 | 19.04 |
| | | 385.0 | 115.6 | 23.66 | 112.2 | 23.12 | 108.4 | 22.62 | 105.8 | 21.66 | 101.8 | 20.68 | 96.8 | 19.38 |
| | | 462.0 | 115.8 | 23.58 | 112.4 | 23.02 | 108.8 | 22.46 | 106.0 | 21.50 | 101.8 | 20.68 | 97.0 | 19.54 |
| | 20 | 123.2 | 114.6 | 20.70 | 111.4 | 20.22 | 107.8 | 19.72 | 105.0 | 19.38 | 101.2 | 18.82 | 95.8 | 17.60 |
| | | 154.0 | 115.2 | 20.74 | 111.8 | 20.22 | 108.2 | 19.72 | 105.4 | 19.38 | 101.4 | 18.74 | 96.2 | 17.58 |
| | | 308.0 | 117.6 | 20.92 | 113.4 | 20.22 | 109.4 | 19.72 | 107.0 | 19.38 | 102.6 | 18.42 | 97.8 | 17.44 |
| | | 385.0 | 118.4 | 20.92 | 114.4 | 20.22 | 110.0 | 19.72 | 107.2 | 19.04 | 103.2 | 18.42 | 98.0 | 17.44 |
| | | 462.0 | 118.6 | 20.92 | 114.8 | 20.22 | 110.4 | 19.72 | 107.4 | 18.88 | 103.6 | 18.42 | 98.2 | 17.44 |
| | 25 | 123.2 | 118.2 | 18.84 | 114.6 | 18.16 | 110.0 | 17.86 | 107.6 | 17.18 | 103.8 | 16.56 | 98.4 | 15.16 |
| | | 154.0 | 118.4 | 18.82 | 114.6 | 18.08 | 110.0 | 17.78 | 107.6 | 17.10 | 103.8 | 16.48 | 98.4 | 15.16 |
| | | 308.0 | 119.4 | 18.68 | 114.6 | 17.78 | 110.0 | 17.44 | 107.6 | 16.80 | 103.8 | 16.14 | 98.4 | 15.16 |
| | | 385.0 | 120.0 | 18.68 | 114.6 | 17.84 | 110.0 | 17.10 | 107.6 | 16.80 | 103.8 | 15.84 | 98.4 | 14.86 |
| | | 462.0 | 120.2 | 18.68 | 114.6 | 17.88 | 110.0 | 16.94 | 107.6 | 16.80 | 103.8 | 15.68 | 98.4 | 14.72 |
| | 30 | 123.2 | 120.0 | 17.18 | 114.6 | 16.56 | 110.0 | 15.92 | 107.6 | 15.58 | 103.8 | 14.62 | 98.4 | 13.66 |
| | | 154.0 | 120.0 | 17.10 | 114.6 | 16.48 | 110.0 | 15.84 | 107.6 | 15.50 | 103.8 | 14.54 | 98.4 | 13.56 |
| | | 308.0 | 120.0 | 16.80 | 114.6 | 16.14 | 110.0 | 15.50 | 107.6 | 15.16 | 103.8 | 14.20 | 98.4 | 13.24 |
| | | 385.0 | 120.0 | 16.68 | 114.6 | 15.84 | 110.0 | 15.16 | 107.6 | 14.86 | 103.8 | 14.20 | 98.4 | 13.24 |
| | | 462.0 | 120.0 | 16.60 | 114.6 | 15.68 | 110.0 | 15.00 | 107.6 | 14.72 | 103.8 | 14.20 | 98.4 | 13.24 |
| | 35 | 123.2 | 120.0 | 16.30 | 114.6 | 15.24 | 110.0 | 14.62 | 107.6 | 13.98 | 103.8 | 13.30 | 98.4 | 12.34 |
| | | 154.0 | 120.0 | 16.14 | 114.6 | 15.16 | 110.0 | 14.54 | 107.6 | 13.90 | 103.8 | 13.24 | 98.4 | 12.26 |
| | | 308.0 | 120.0 | 15.50 | 114.6 | 14.86 | 110.0 | 14.20 | 107.6 | 13.56 | 103.8 | 12.94 | 98.4 | 11.96 |
| | | 385.0 | 120.0 | 15.10 | 114.6 | 14.54 | 110.0 | 13.90 | 107.6 | 13.56 | 103.8 | 12.94 | 98.4 | 11.96 |
| | | 462.0 | 120.0 | 14.90 | 114.6 | 14.36 | 110.0 | 13.74 | 107.6 | 13.56 | 103.8 | 12.94 | 98.4 | 11.96 |
| | 40 | 123.2 | 120.0 | 15.34 | 114.6 | 14.70 | 110.0 | 13.72 | 107.6 | 13.02 | 103.8 | 12.34 | 98.4 | 11.36 |
| | | 154.0 | 120.0 | 15.16 | 114.6 | 14.54 | 110.0 | 13.56 | 107.6 | 12.94 | 103.8 | 12.26 | 98.4 | 11.30 |
| | | 308.0 | 120.0 | 14.54 | 114.6 | 13.90 | 110.0 | 12.94 | 107.6 | 12.60 | 103.8 | 11.96 | 98.4 | 11.00 |
| | | 385.0 | 120.0 | 14.34 | 114.6 | 13.56 | 110.0 | 12.94 | 107.6 | 12.26 | 103.8 | 11.62 | 98.4 | 10.66 |
| | | 462.0 | 120.0 | 14.24 | 114.6 | 13.40 | 110.0 | 12.94 | 107.6 | 12.10 | 103.8 | 11.46 | 98.4 | 10.50 |
| | 45 | 123.2 | 120.0 | 14.36 | 114.6 | 14.14 | 110.0 | 12.84 | 107.6 | 12.04 | 103.8 | 11.36 | 98.4 | 10.40 |
| | | 154.0 | 120.0 | 14.20 | 114.6 | 13.90 | 110.0 | 12.60 | 107.6 | 11.96 | 103.8 | 11.30 | 98.4 | 10.32 |
| | | 308.0 | 120.0 | 13.56 | 114.6 | 12.94 | 110.0 | 11.62 | 107.6 | 11.62 | 103.8 | 11.00 | 98.4 | 10.02 |
| | | 385.0 | 120.0 | 13.56 | 114.6 | 12.60 | 110.0 | 11.96 | 107.6 | 11.00 | 103.8 | 10.32 | 98.4 | 9.36 |
| | | 462.0 | 120.0 | 13.56 | 114.6 | 12.42 | 110.0 | 12.14 | 107.6 | 10.68 | 103.8 | 9.98 | 98.4 | 9.02 |
| 100 | -5 | 123.2 | 40.6 | 20.56 | 40.2 | 19.38 | 40.0 | 17.78 | 39.8 | 17.04 | 39.4 | 16.28 | 38.6 | 14.80 |
| | | 154.0 | 42.0 | 20.92 | 41.6 | 19.74 | 41.4 | 18.18 | 41.0 | 17.40 | 40.6 | 16.64 | 40.0 | 15.14 |
| | | 308.0 | 47.4 | 22.32 | 47.2 | 21.22 | 46.8 | 19.72 | 46.4 | 18.88 | 46.0 | 18.08 | 45.2 | 16.44 |
| | | 385.0 | 52.4 | 23.76 | 52.0 | 22.68 | 51.8 | 21.26 | 51.2 | 20.38 | 51.0 | 19.48 | 50.0 | 17.70 |
| | | 462.0 | 55.0 | 24.48 | 54.4 | 23.42 | 54.2 | 22.02 | 53.8 | 21.14 | 53.4 | 20.18 | 52.4 | 18.34 |
| | 0 | 123.2 | 72.4 | 28.14 | 70.8 | 27.30 | 69.4 | 26.06 | 68.2 | 24.96 | 67.0 | 23.90 | 64.6 | 21.68 |
| | | 154.0 | 72.8 | 28.20 | 71.2 | 27.36 | 69.8 | 26.12 | 68.6 | 25.02 | 67.4 | 23.96 | 65.0 | 21.76 |
| | | 308.0 | 74.6 | 28.46 | 73.0 | 27.64 | 71.4 | 26.44 | 70.2 | 25.32 | 69.0 | 24.22 | 66.4 | 22.02 |
| | | 385.0 | 75.6 | 28.46 | 74.0 | 27.64 | 72.4 | 26.44 | 71.2 | 25.32 | 70.0 | 24.22 | 67.6 | 22.02 |
| | | 462.0 | 76.2 | 28.46 | 74.6 | 27.64 | 73.0 | 26.44 | 71.6 | 25.32 | 70.4 | 24.22 | 68.0 | 22.02 |
| | 5 | 123.2 | 106.8 | 30.24 | 103.4 | 29.50 | 100.6 | 28.36 | 98.6 | 27.16 | 94.0 | 26.00 | 89.6 | 23.64 |
| | | 154.0 | 107.2 | 30.38 | 103.6 | 29.64 | 100.8 | 28.50 | 98.6 | 27.30 | 94.0 | 26.12 | 89.6 | 23.76 |
| | | 308.0 | 108.8 | 30.90 | 104.2 | 30.18 | 100.8 | 29.08 | 98.6 | 27.86 | 94.0 | 26.66 | 89.6 | 24.22 |
| | | 385.0 | 109.4 | 31.10 | 104.6 | 30.38 | 100.8 | 29.28 | 98.6 | 28.06 | 94.0 | 26.84 | 89.6 | 24.40 |
| | | 462.0 | 109.8 | 31.20 | 104.6 | 30.48 | 100.8 | 29.38 | 98.6 | 28.16 | 94.0 | 26.92 | 89.6 | 24.48 |
| | 10 | 123.2 | 107.4 | 27.04 | 103.6 | 26.44 | 100.8 | 25.62 | 98.6 | 24.76 | 94.0 | 23.54 | 89.6 | 21.52 |
| | | 154.0 | 107.8 | 27.16 | 103.8 | 26.54 | 100.8 | 25.70 | 98.6 | 24.80 | 94.0 | 23.56 | 89.6 | 21.56 |
| | | 308.0 | 108.8 | 27.66 | 104.4 | 26.86 | 100.8 | 26.00 | 98.6 | 24.92 | 94.0 | 23.66 | 89.6 | 21.66 |
| | | 385.0 | 109.6 | 27.56 | 104.8 | 26.86 | 100.8 | 25.92 | 98.6 | 24.86 | 94.0 | 23.60 | 89.6 | 21.56 |
| | | 462.0 | 109.8 | 27.52 | 105.0 | 26.86 | 100.8 | 25.90 | 98.6 | 24.82 | 94.0 | 23.56 | 89.6 | 21.50 |
| | 15 | 123.2 | 108.0 | 23.84 | 104.2 | 23.44 | 100.8 | 22.92 | 98.6 | 22.38 | 94.0 | 21.06 | 89.6 | 19.46 |
| | | 154.0 | 108.2 | 23.96 | 104.2 | 23.46 | 100.8 | 22.92 | 98.6 | 22.28 | 94.0 | 20.98 | 89.6 | 19.38 |
| | | 308.0 | 108.8 | 24.42 | 104.4 | 23.52 | 100.8 | 22.92 | 98.6 | 21.96 | 94.0 | 20.68 | 89.6 | 19.04 |
| | | 385.0 | 109.8 | 24.02 | 105.0 | 23.32 | 100.8 | 22.62 | 98.6 | 21.66 | 94.0 | 20.34 | 89.6 | 18.74 |
| | | 462.0 | 110.2 | 23.82 | 105.4 | 23.22 | 100.8 | 22.46 | 98.6 | 21.50 | 94.0 | 20.18 | 89.6 | 18.60 |
| | 20 | 123.2 | 108.6 | 20.38 | 104.6 | 19.86 | 100.8 | 19.38 | 98.6 | 19.12 | 94.0 | 17.86 | 89.6 | 16.98 |
| | | 154.0 | 109.0 | 20.48 | 104.8 | 19.88 | 100.8 | 19.38 | 98.6 | 19.04 | 94.0 | 17.78 | 89.6 | 16.80 |
| | | 308.0 | 110.6 | 20.86 | 105.0 | 19.94 | 100.8 | 19.38 | 98.6 | 18.74 | 94.0 | 17.44 | 89.6 | 16.14 |
| | | 385.0 | 111.4 | 20.48 | 106.0 | 19.78 | 100.8 | 19.04 | 98.6 | 18.42 | 94.0 | 17.10 | 89.6 | 15.84 |
| | | 462.0 | 111.6 | 20.30 | 106.4 | 19.70 | 100.8 | 18.88 | 98.6 | 18.24 | 94.0 | 16.94 | 89.6 | 15.68 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 123.2 | 110.0 | 17.82 | 106.4 | 17.26 | 100.8 | 16.56 | 98.6 | 15.92 | 94.0 | 14.96 | 89.6 | 13.56 |
| | | 154.0 | 110.4 | 17.84 | 106.4 | 17.18 | 100.8 | 16.48 | 98.6 | 15.84 | 94.0 | 14.86 | 89.6 | 13.56 |
| | | 308.0 | 112.0 | 17.90 | 106.4 | 16.80 | 100.8 | 16.14 | 98.6 | 15.50 | 94.0 | 14.54 | 89.6 | 13.56 |
| | | 385.0 | 112.6 | 17.50 | 106.4 | 16.68 | 100.8 | 15.84 | 98.6 | 15.16 | 94.0 | 14.54 | 89.6 | 13.24 |
| | | 462.0 | 112.8 | 17.30 | 106.4 | 16.60 | 100.8 | 15.68 | 98.6 | 15.00 | 94.0 | 14.54 | 89.6 | 13.06 |
| | 30 | 123.2 | 112.6 | 16.22 | 106.4 | 14.96 | 100.8 | 13.94 | 98.6 | 13.66 | 94.0 | 12.60 | 89.6 | 12.04 |
| | | 154.0 | 112.6 | 16.14 | 106.4 | 14.86 | 100.8 | 13.90 | 98.6 | 13.56 | 94.0 | 12.60 | 89.6 | 11.96 |
| | | 308.0 | 112.6 | 15.84 | 106.4 | 14.54 | 100.8 | 13.76 | 98.6 | 13.24 | 94.0 | 12.60 | 89.6 | 11.62 |
| | | 385.0 | 112.6 | 15.50 | 106.4 | 14.54 | 100.8 | 13.56 | 98.6 | 13.24 | 94.0 | 12.26 | 89.6 | 11.62 |
| | | 462.0 | 112.6 | 15.34 | 106.4 | 14.54 | 100.8 | 13.46 | 98.6 | 13.24 | 94.0 | 12.10 | 89.6 | 11.62 |
| | 35 | 123.2 | 112.6 | 15.04 | 106.4 | 13.72 | 100.8 | 12.30 | 98.6 | 12.04 | 94.0 | 11.36 | 89.6 | 10.40 |
| | | 154.0 | 112.6 | 14.86 | 106.4 | 13.56 | 100.8 | 12.26 | 98.6 | 11.96 | 94.0 | 11.30 | 89.6 | 10.32 |
| | | 308.0 | 112.6 | 14.20 | 106.4 | 12.94 | 100.8 | 12.12 | 98.6 | 11.62 | 94.0 | 11.00 | 89.6 | 10.02 |
| | | 385.0 | 112.6 | 14.20 | 106.4 | 12.94 | 100.8 | 11.96 | 98.6 | 11.62 | 94.0 | 11.00 | 89.6 | 10.02 |
| | | 462.0 | 112.6 | 14.20 | 106.4 | 12.94 | 100.8 | 11.88 | 98.6 | 11.62 | 94.0 | 11.00 | 89.6 | 10.02 |
| | 40 | 123.2 | 112.6 | 14.06 | 106.4 | 12.76 | 100.8 | 11.02 | 98.6 | 10.74 | 94.0 | 10.10 | 89.6 | 9.44 |
| | | 154.0 | 112.6 | 13.90 | 106.4 | 12.60 | 100.8 | 11.00 | 98.6 | 10.66 | 94.0 | 10.02 | 89.6 | 9.36 |
| | | 308.0 | 112.6 | 13.24 | 106.4 | 11.96 | 100.8 | 10.86 | 98.6 | 10.32 | 94.0 | 9.70 | 89.6 | 9.06 |
| | | 385.0 | 112.6 | 12.94 | 106.4 | 11.96 | 100.8 | 10.66 | 98.6 | 10.32 | 94.0 | 9.70 | 89.6 | 9.06 |
| | | 462.0 | 112.6 | 12.78 | 106.4 | 11.96 | 100.8 | 10.56 | 98.6 | 10.32 | 94.0 | 9.70 | 89.6 | 9.06 |
| | 45 | 123.2 | 112.6 | 13.10 | 106.4 | 11.78 | 100.8 | 9.72 | 98.6 | 9.44 | 94.0 | 8.80 | 89.6 | 8.46 |
| | | 154.0 | 112.6 | 12.94 | 106.4 | 11.62 | 100.8 | 9.70 | 98.6 | 9.36 | 94.0 | 8.72 | 89.6 | 8.38 |
| | | 308.0 | 112.6 | 12.26 | 106.4 | 11.00 | 100.8 | 9.56 | 98.6 | 9.06 | 94.0 | 8.38 | 89.6 | 8.08 |
| | | 385.0 | 112.6 | 11.62 | 106.4 | 11.00 | 100.8 | 9.36 | 98.6 | 9.06 | 94.0 | 8.38 | 89.6 | 8.08 |
| | | 462.0 | 112.6 | 11.30 | 106.4 | 11.00 | 100.8 | 9.26 | 98.6 | 9.06 | 94.0 | 8.38 | 89.6 | 8.08 |
| 90 | -5 | 123.2 | 38.2 | 19.08 | 37.0 | 17.38 | 36.0 | 15.26 | 35.8 | 14.54 | 35.4 | 14.02 | 34.8 | 12.58 |
| | | 154.0 | 39.6 | 19.42 | 38.4 | 17.70 | 37.2 | 15.60 | 37.0 | 14.86 | 36.6 | 14.34 | 36.0 | 12.86 |
| | | 308.0 | 44.8 | 20.72 | 43.4 | 19.02 | 42.2 | 16.94 | 41.8 | 16.14 | 41.6 | 15.58 | 40.6 | 13.96 |
| | | 385.0 | 49.6 | 22.02 | 48.0 | 20.34 | 46.6 | 18.28 | 46.2 | 17.40 | 45.8 | 16.78 | 45.0 | 15.06 |
| | | 462.0 | 51.8 | 22.68 | 50.2 | 21.02 | 48.8 | 18.96 | 48.4 | 18.04 | 48.0 | 17.38 | 47.2 | 15.62 |
| | 0 | 123.2 | 68.4 | 26.00 | 65.2 | 24.40 | 62.2 | 22.40 | 61.4 | 21.36 | 60.4 | 20.56 | 58.0 | 18.46 |
| | | 154.0 | 68.8 | 26.06 | 65.6 | 24.46 | 62.6 | 22.46 | 61.6 | 21.42 | 60.6 | 20.62 | 58.4 | 18.52 |
| | | 308.0 | 70.4 | 26.34 | 67.2 | 24.72 | 64.2 | 22.68 | 63.2 | 21.66 | 62.0 | 20.86 | 59.8 | 18.72 |
| | | 385.0 | 71.4 | 26.34 | 68.2 | 24.72 | 65.2 | 22.68 | 64.0 | 21.66 | 63.2 | 20.86 | 60.8 | 18.72 |
| | | 462.0 | 72.0 | 26.34 | 68.6 | 24.72 | 65.6 | 22.68 | 64.6 | 21.66 | 63.6 | 20.86 | 61.2 | 18.72 |
| | 5 | 123.2 | 96.6 | 27.90 | 93.6 | 26.34 | 90.6 | 24.38 | 88.8 | 23.24 | 84.8 | 22.36 | 80.8 | 20.08 |
| | | 154.0 | 96.8 | 28.04 | 93.4 | 26.46 | 90.6 | 24.50 | 88.8 | 23.36 | 84.8 | 22.48 | 80.8 | 20.18 |
| | | 308.0 | 97.2 | 28.54 | 93.2 | 26.96 | 90.6 | 24.96 | 88.8 | 23.82 | 84.8 | 22.96 | 80.8 | 20.58 |
| | | 385.0 | 97.8 | 28.70 | 93.4 | 27.14 | 90.6 | 25.16 | 88.8 | 24.00 | 84.8 | 23.12 | 80.8 | 20.74 |
| | | 462.0 | 98.0 | 28.78 | 93.6 | 27.22 | 90.6 | 25.26 | 88.8 | 24.08 | 84.8 | 23.20 | 80.8 | 20.84 |
| | 10 | 123.2 | 97.2 | 24.64 | 93.8 | 23.44 | 90.6 | 22.06 | 88.8 | 21.16 | 84.8 | 20.30 | 80.8 | 18.30 |
| | | 154.0 | 97.2 | 24.66 | 93.8 | 23.46 | 90.6 | 22.08 | 88.8 | 21.18 | 84.8 | 20.28 | 80.8 | 18.32 |
| | | 308.0 | 97.0 | 24.72 | 93.2 | 23.56 | 90.6 | 22.18 | 88.8 | 21.28 | 84.8 | 20.22 | 80.8 | 18.38 |
| | | 385.0 | 97.6 | 24.66 | 93.6 | 23.48 | 90.6 | 22.12 | 88.8 | 21.22 | 84.8 | 20.28 | 80.8 | 18.44 |
| | | 462.0 | 98.0 | 24.62 | 93.8 | 23.46 | 90.6 | 22.08 | 88.8 | 21.18 | 84.8 | 20.32 | 80.8 | 18.48 |
| | 15 | 123.2 | 97.6 | 21.34 | 94.2 | 20.56 | 90.6 | 19.80 | 88.8 | 19.12 | 84.8 | 18.24 | 80.8 | 16.56 |
| | | 154.0 | 97.6 | 21.26 | 94.0 | 20.48 | 90.6 | 19.72 | 88.8 | 19.04 | 84.8 | 18.08 | 80.8 | 16.48 |
| | | 308.0 | 96.8 | 20.92 | 93.4 | 20.14 | 90.6 | 19.38 | 88.8 | 18.74 | 84.8 | 17.44 | 80.8 | 16.14 |
| | | 385.0 | 97.6 | 20.62 | 93.6 | 19.84 | 90.6 | 19.04 | 88.8 | 18.42 | 84.8 | 17.44 | 80.8 | 16.14 |
| | | 462.0 | 97.8 | 20.46 | 93.8 | 19.70 | 90.6 | 18.88 | 88.8 | 18.24 | 84.8 | 17.44 | 80.8 | 16.14 |
| | 20 | 123.2 | 98.2 | 18.02 | 94.6 | 17.50 | 90.6 | 16.90 | 88.8 | 16.22 | 84.8 | 15.66 | 80.8 | 14.70 |
| | | 154.0 | 98.2 | 18.02 | 94.4 | 17.44 | 90.6 | 16.80 | 88.8 | 16.14 | 84.8 | 15.50 | 80.8 | 14.54 |
| | | 308.0 | 97.8 | 18.02 | 93.6 | 17.24 | 90.6 | 16.48 | 88.8 | 15.84 | 84.8 | 14.86 | 80.8 | 13.90 |
| | | 385.0 | 98.0 | 17.70 | 94.0 | 17.10 | 90.6 | 16.48 | 88.8 | 15.84 | 84.8 | 14.86 | 80.8 | 13.90 |
| | | 462.0 | 98.2 | 17.56 | 94.0 | 17.04 | 90.6 | 16.48 | 88.8 | 15.84 | 84.8 | 14.86 | 80.8 | 13.90 |
| | 25 | 123.2 | 100.0 | 15.74 | 95.8 | 14.90 | 90.6 | 14.28 | 88.8 | 13.56 | 84.8 | 13.02 | 80.8 | 12.04 |
| | | 154.0 | 100.2 | 15.70 | 95.8 | 14.86 | 90.6 | 14.20 | 88.8 | 13.56 | 84.8 | 12.94 | 80.8 | 11.96 |
| | | 308.0 | 101.0 | 15.58 | 95.8 | 14.74 | 90.6 | 13.90 | 88.8 | 13.56 | 84.8 | 12.60 | 80.8 | 11.62 |
| | | 385.0 | 101.4 | 15.16 | 95.8 | 14.40 | 90.6 | 13.90 | 88.8 | 13.24 | 84.8 | 12.60 | 80.8 | 11.62 |
| | | 462.0 | 101.6 | 14.96 | 95.8 | 14.24 | 90.6 | 13.90 | 88.8 | 13.06 | 84.8 | 12.60 | 80.8 | 11.62 |
| | 30 | 123.2 | 101.4 | 14.28 | 95.8 | 13.30 | 90.6 | 12.34 | 88.8 | 12.04 | 84.8 | 11.36 | 80.8 | 10.32 |
| | | 154.0 | 101.4 | 14.20 | 95.8 | 13.24 | 90.6 | 12.26 | 88.8 | 11.96 | 84.8 | 11.30 | 80.8 | 10.32 |
| | | 308.0 | 101.4 | 13.90 | 95.8 | 12.94 | 90.6 | 11.96 | 88.8 | 11.62 | 84.8 | 11.00 | 80.8 | 10.32 |
| | | 385.0 | 101.4 | 13.56 | 95.8 | 12.60 | 90.6 | 11.96 | 88.8 | 11.62 | 84.8 | 11.00 | 80.8 | 10.02 |
| | | 462.0 | 101.4 | 13.40 | 95.8 | 12.42 | 90.6 | 11.96 | 88.8 | 11.62 | 84.8 | 11.00 | 80.8 | 9.88 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 123.2 | 101.4 | 13.02 | 95.8 | 12.04 | 90.6 | 11.08 | 88.8 | 10.74 | 84.8 | 10.10 | 80.8 | 9.44 |
| | | 154.0 | 101.4 | 12.94 | 95.8 | 11.96 | 90.6 | 11.00 | 88.8 | 10.66 | 84.8 | 10.02 | 80.8 | 9.36 |
| | | 308.0 | 101.4 | 12.60 | 95.8 | 11.62 | 90.6 | 10.66 | 88.8 | 10.32 | 84.8 | 9.70 | 80.8 | 9.06 |
| | | 385.0 | 101.4 | 12.26 | 95.8 | 11.30 | 90.6 | 10.32 | 88.8 | 10.02 | 84.8 | 9.70 | 80.8 | 9.06 |
| | | 462.0 | 101.4 | 12.10 | 95.8 | 11.12 | 90.6 | 10.16 | 88.8 | 9.88 | 84.8 | 9.70 | 80.8 | 9.06 |
| | 40 | 123.2 | 101.4 | 12.14 | 95.8 | 11.08 | 90.6 | 9.78 | 88.8 | 9.44 | 84.8 | 9.14 | 80.8 | 8.46 |
| | | 154.0 | 101.4 | 11.96 | 95.8 | 11.00 | 90.6 | 9.70 | 88.8 | 9.36 | 84.8 | 9.06 | 80.8 | 8.38 |
| | | 308.0 | 101.4 | 11.30 | 95.8 | 10.66 | 90.6 | 9.36 | 88.8 | 9.06 | 84.8 | 8.72 | 80.8 | 8.08 |
| | | 385.0 | 101.4 | 11.30 | 95.8 | 10.66 | 90.6 | 9.36 | 88.8 | 9.06 | 84.8 | 8.72 | 80.8 | 8.08 |
| | | 462.0 | 101.4 | 11.30 | 95.8 | 10.66 | 90.6 | 9.36 | 88.8 | 9.06 | 84.8 | 8.72 | 80.8 | 8.08 |
| | 45 | 123.2 | 101.4 | 11.24 | 95.8 | 10.10 | 90.6 | 8.46 | 88.8 | 8.18 | 84.8 | 8.18 | 80.8 | 7.50 |
| | | 154.0 | 101.4 | 11.00 | 95.8 | 10.02 | 90.6 | 8.38 | 88.8 | 8.08 | 84.8 | 8.08 | 80.8 | 7.42 |
| | | 308.0 | 101.4 | 10.02 | 95.8 | 9.70 | 90.6 | 8.08 | 88.8 | 7.76 | 84.8 | 7.76 | 80.8 | 7.12 |
| | | 385.0 | 101.4 | 10.32 | 95.8 | 10.02 | 90.6 | 8.38 | 88.8 | 8.08 | 84.8 | 7.76 | 80.8 | 7.12 |
| | | 462.0 | 101.4 | 10.48 | 95.8 | 10.20 | 90.6 | 8.54 | 88.8 | 8.26 | 84.8 | 7.76 | 80.8 | 7.12 |
| 80 | -5 | 123.2 | 36.2 | 13.60 | 34.0 | 13.08 | 32.2 | 12.52 | 31.8 | 12.10 | 31.6 | 11.54 | 31.0 | 10.64 |
| | | 154.0 | 37.4 | 13.90 | 35.0 | 13.36 | 33.2 | 12.80 | 32.8 | 12.36 | 32.6 | 11.80 | 32.0 | 10.86 |
| | | 308.0 | 42.2 | 15.10 | 39.6 | 14.50 | 37.6 | 13.86 | 37.2 | 13.40 | 37.0 | 12.80 | 36.2 | 11.76 |
| | | 385.0 | 46.8 | 16.28 | 43.8 | 15.64 | 41.4 | 14.96 | 41.0 | 14.46 | 40.8 | 13.80 | 40.0 | 12.70 |
| | | 462.0 | 49.0 | 16.86 | 45.8 | 16.22 | 43.4 | 15.52 | 43.0 | 15.00 | 42.8 | 14.30 | 41.8 | 13.16 |
| | 0 | 123.2 | 64.6 | 19.96 | 59.6 | 19.16 | 55.4 | 18.36 | 54.4 | 17.72 | 53.6 | 16.90 | 51.6 | 15.56 |
| | | 154.0 | 65.0 | 20.02 | 60.0 | 19.22 | 55.8 | 18.42 | 54.8 | 17.78 | 54.0 | 16.94 | 52.0 | 15.60 |
| | | 308.0 | 66.6 | 20.24 | 61.4 | 19.44 | 57.2 | 18.62 | 56.0 | 17.98 | 55.4 | 17.14 | 53.2 | 15.78 |
| | | 385.0 | 67.6 | 20.24 | 62.2 | 19.44 | 58.0 | 18.62 | 57.0 | 17.98 | 56.2 | 17.14 | 54.0 | 15.78 |
| | | 462.0 | 68.0 | 20.24 | 62.8 | 19.44 | 58.6 | 18.62 | 57.4 | 17.98 | 56.6 | 17.14 | 54.4 | 15.78 |
| | 5 | 123.2 | 89.4 | 21.70 | 84.4 | 20.88 | 80.6 | 19.94 | 78.8 | 19.28 | 75.4 | 18.38 | 71.8 | 16.92 |
| | | 154.0 | 89.6 | 21.82 | 84.4 | 20.98 | 80.6 | 20.04 | 78.8 | 19.38 | 75.4 | 18.48 | 71.8 | 17.00 |
| | | 308.0 | 90.2 | 22.28 | 85.2 | 21.38 | 80.8 | 20.48 | 78.8 | 19.78 | 75.4 | 18.84 | 71.8 | 17.38 |
| | | 385.0 | 90.2 | 22.42 | 85.0 | 21.56 | 80.8 | 20.62 | 78.8 | 19.92 | 75.4 | 18.98 | 71.8 | 17.48 |
| | | 462.0 | 90.2 | 22.48 | 85.0 | 21.64 | 80.8 | 20.68 | 78.8 | 19.98 | 75.4 | 19.04 | 71.8 | 17.52 |
| | 10 | 123.2 | 89.8 | 19.98 | 84.6 | 19.08 | 80.6 | 18.10 | 78.8 | 17.60 | 75.4 | 16.66 | 71.8 | 15.42 |
| | | 154.0 | 90.0 | 19.94 | 84.8 | 19.04 | 80.6 | 18.12 | 78.8 | 17.60 | 75.4 | 16.68 | 71.8 | 15.44 |
| | | 308.0 | 90.2 | 19.84 | 85.2 | 18.94 | 80.8 | 18.14 | 78.8 | 17.64 | 75.4 | 16.70 | 71.8 | 15.48 |
| | | 385.0 | 90.2 | 19.78 | 85.0 | 19.02 | 80.8 | 18.22 | 78.8 | 17.54 | 75.4 | 16.60 | 71.8 | 15.38 |
| | | 462.0 | 90.2 | 19.74 | 85.0 | 19.04 | 80.8 | 18.24 | 78.8 | 17.50 | 75.4 | 16.56 | 71.8 | 15.32 |
| | 15 | 123.2 | 90.2 | 18.24 | 85.0 | 17.26 | 80.8 | 16.22 | 78.8 | 15.92 | 75.4 | 14.96 | 71.8 | 13.98 |
| | | 154.0 | 90.2 | 18.08 | 85.0 | 17.10 | 80.8 | 16.14 | 78.8 | 15.84 | 75.4 | 14.86 | 71.8 | 13.90 |
| | | 308.0 | 90.2 | 17.44 | 85.0 | 16.48 | 80.8 | 15.84 | 78.8 | 15.50 | 75.4 | 14.54 | 71.8 | 13.56 |
| | | 385.0 | 90.2 | 17.10 | 85.0 | 16.48 | 80.8 | 15.84 | 78.8 | 15.16 | 75.4 | 14.20 | 71.8 | 13.24 |
| | | 462.0 | 90.2 | 16.94 | 85.0 | 16.48 | 80.8 | 15.84 | 78.8 | 15.00 | 75.4 | 14.04 | 71.8 | 13.06 |
| | 20 | 123.2 | 90.2 | 15.24 | 85.0 | 14.62 | 80.8 | 13.90 | 78.8 | 13.66 | 75.4 | 13.02 | 71.8 | 12.04 |
| | | 154.0 | 90.2 | 15.16 | 85.0 | 14.54 | 80.8 | 13.90 | 78.8 | 13.56 | 75.4 | 12.94 | 71.8 | 11.96 |
| | | 308.0 | 90.2 | 14.86 | 85.0 | 14.20 | 80.8 | 13.90 | 78.8 | 13.24 | 75.4 | 12.60 | 71.8 | 11.62 |
| | | 385.0 | 90.2 | 14.54 | 85.0 | 13.90 | 80.8 | 13.56 | 78.8 | 13.24 | 75.4 | 12.26 | 71.8 | 11.62 |
| | | 462.0 | 90.2 | 14.36 | 85.0 | 13.74 | 80.8 | 13.40 | 78.8 | 13.24 | 75.4 | 12.10 | 71.8 | 11.62 |
| | 25 | 123.2 | 90.2 | 13.66 | 85.0 | 12.68 | 80.8 | 11.96 | 78.8 | 11.72 | 75.4 | 11.08 | 71.8 | 10.40 |
| | | 154.0 | 90.2 | 13.56 | 85.0 | 12.60 | 80.8 | 11.96 | 78.8 | 11.62 | 75.4 | 11.00 | 71.8 | 10.32 |
| | | 308.0 | 90.2 | 13.24 | 85.0 | 12.26 | 80.8 | 11.96 | 78.8 | 11.30 | 75.4 | 10.66 | 71.8 | 10.02 |
| | | 385.0 | 90.2 | 12.94 | 85.0 | 12.26 | 80.8 | 11.62 | 78.8 | 11.30 | 75.4 | 10.66 | 71.8 | 10.02 |
| | | 462.0 | 90.2 | 12.78 | 85.0 | 12.26 | 80.8 | 11.46 | 78.8 | 11.30 | 75.4 | 10.66 | 71.8 | 10.02 |
| | 30 | 123.2 | 90.2 | 12.04 | 85.0 | 11.36 | 80.8 | 10.74 | 78.8 | 10.40 | 75.4 | 9.78 | 71.8 | 9.14 |
| | | 154.0 | 90.2 | 11.96 | 85.0 | 11.30 | 80.8 | 10.66 | 78.8 | 10.32 | 75.4 | 9.70 | 71.8 | 9.06 |
| | | 308.0 | 90.2 | 11.62 | 85.0 | 11.00 | 80.8 | 10.32 | 78.8 | 10.02 | 75.4 | 9.36 | 71.8 | 8.72 |
| | | 385.0 | 90.2 | 11.62 | 85.0 | 11.00 | 80.8 | 10.32 | 78.8 | 10.02 | 75.4 | 9.36 | 71.8 | 8.72 |
| | | 462.0 | 90.2 | 11.62 | 85.0 | 11.00 | 80.8 | 10.32 | 78.8 | 10.02 | 75.4 | 9.36 | 71.8 | 8.72 |
| | 35 | 123.2 | 90.2 | 11.08 | 85.0 | 10.40 | 80.8 | 9.44 | 78.8 | 9.06 | 75.4 | 8.80 | 71.8 | 8.08 |
| | | 154.0 | 90.2 | 11.00 | 85.0 | 10.32 | 80.8 | 9.36 | 78.8 | 9.06 | 75.4 | 8.72 | 71.8 | 8.08 |
| | | 308.0 | 90.2 | 10.66 | 85.0 | 10.02 | 80.8 | 9.06 | 78.8 | 9.06 | 75.4 | 8.38 | 71.8 | 8.08 |
| | | 385.0 | 90.2 | 10.66 | 85.0 | 9.70 | 80.8 | 9.06 | 78.8 | 8.72 | 75.4 | 8.38 | 71.8 | 7.76 |
| | | 462.0 | 90.2 | 10.66 | 85.0 | 9.52 | 80.8 | 9.06 | 78.8 | 8.56 | 75.4 | 8.38 | 71.8 | 7.58 |
| | 40 | 123.2 | 90.2 | 10.48 | 85.0 | 9.44 | 80.8 | 8.38 | 78.8 | 8.46 | 75.4 | 7.76 | 71.8 | 7.50 |
| | | 154.0 | 90.2 | 10.32 | 85.0 | 9.36 | 80.8 | 8.38 | 78.8 | 8.38 | 75.4 | 7.76 | 71.8 | 7.42 |
| | | 308.0 | 90.2 | 9.70 | 85.0 | 9.06 | 80.8 | 8.38 | 78.8 | 8.08 | 75.4 | 7.76 | 71.8 | 7.12 |
| | | 385.0 | 90.2 | 9.70 | 85.0 | 9.06 | 80.8 | 8.08 | 78.8 | 8.08 | 75.4 | 7.76 | 71.8 | 7.12 |
| | | 462.0 | 90.2 | 9.70 | 85.0 | 9.06 | 80.8 | 7.94 | 78.8 | 8.08 | 75.4 | 7.76 | 71.8 | 7.12 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 123.2 | 90.2 | 9.94 | 85.0 | 8.46 | 80.8 | 7.34 | 78.8 | 7.92 | 75.4 | 6.70 | 71.8 | 6.94 |
| | | 154.0 | 90.2 | 9.70 | 85.0 | 8.38 | 80.8 | 7.42 | 78.8 | 7.76 | 75.4 | 6.78 | 71.8 | 6.78 |
| | | 308.0 | 90.2 | 8.72 | 85.0 | 8.08 | 80.8 | 7.76 | 78.8 | 7.12 | 75.4 | 7.12 | 71.8 | 6.14 |
| | | 385.0 | 90.2 | 8.72 | 85.0 | 8.38 | 80.8 | 7.12 | 78.8 | 7.42 | 75.4 | 7.12 | 71.8 | 6.44 |
| | | 462.0 | 90.2 | 8.72 | 85.0 | 8.54 | 80.8 | 6.80 | 78.8 | 7.56 | 75.4 | 7.12 | 71.8 | 6.60 |
| 70 | -5 | 123.2 | 31.6 | 11.68 | 29.6 | 11.12 | 28.0 | 10.76 | 27.8 | 10.14 | 27.6 | 9.78 | 27.2 | 8.90 |
| | | 154.0 | 32.6 | 11.92 | 30.6 | 11.36 | 29.0 | 11.00 | 28.6 | 10.36 | 28.6 | 10.00 | 28.0 | 9.08 |
| | | 308.0 | 37.0 | 12.94 | 34.6 | 12.32 | 32.8 | 11.92 | 32.4 | 11.22 | 32.2 | 10.82 | 31.6 | 9.86 |
| | | 385.0 | 40.8 | 13.96 | 38.4 | 13.30 | 36.2 | 12.86 | 36.0 | 12.10 | 35.6 | 11.70 | 35.0 | 10.62 |
| | | 462.0 | 42.8 | 14.48 | 40.2 | 13.78 | 38.0 | 13.34 | 37.6 | 12.54 | 37.4 | 12.14 | 36.6 | 11.02 |
| | 0 | 123.2 | 56.4 | 17.10 | 52.2 | 16.30 | 48.4 | 15.76 | 47.6 | 14.82 | 46.8 | 14.32 | 45.2 | 13.04 |
| | | 154.0 | 56.8 | 17.14 | 52.6 | 16.34 | 48.8 | 15.80 | 48.0 | 14.86 | 47.2 | 14.36 | 45.4 | 13.06 |
| | | 308.0 | 58.2 | 17.34 | 53.8 | 16.50 | 49.8 | 16.00 | 49.0 | 15.04 | 48.2 | 14.54 | 46.6 | 13.20 |
| | | 385.0 | 59.0 | 17.34 | 54.6 | 16.50 | 50.6 | 16.00 | 49.8 | 15.04 | 49.0 | 14.54 | 47.2 | 13.20 |
| | | 462.0 | 59.4 | 17.34 | 55.0 | 16.50 | 51.0 | 16.00 | 50.2 | 15.04 | 49.4 | 14.54 | 47.6 | 13.20 |
| | 5 | 123.2 | 78.0 | 18.62 | 74.0 | 17.72 | 70.4 | 17.14 | 69.0 | 16.16 | 65.8 | 15.58 | 62.8 | 14.16 |
| | | 154.0 | 78.2 | 18.72 | 74.0 | 17.80 | 70.4 | 17.24 | 69.0 | 16.24 | 65.8 | 15.68 | 62.8 | 14.24 |
| | | 308.0 | 78.8 | 19.08 | 74.6 | 18.18 | 70.6 | 17.60 | 69.0 | 16.54 | 65.8 | 16.00 | 62.8 | 14.54 |
| | | 385.0 | 78.8 | 19.22 | 74.6 | 18.32 | 70.6 | 17.74 | 69.0 | 16.68 | 65.8 | 16.10 | 62.8 | 14.64 |
| | | 462.0 | 78.8 | 19.28 | 74.4 | 18.38 | 70.6 | 17.82 | 69.0 | 16.74 | 65.8 | 16.16 | 62.8 | 14.68 |
| | 10 | 123.2 | 78.4 | 17.14 | 74.2 | 16.20 | 70.6 | 15.60 | 69.0 | 14.74 | 65.8 | 14.14 | 62.8 | 12.94 |
| | | 154.0 | 78.4 | 17.10 | 74.2 | 16.18 | 70.6 | 15.58 | 69.0 | 14.74 | 65.8 | 14.14 | 62.8 | 12.94 |
| | | 308.0 | 78.8 | 16.98 | 74.6 | 16.04 | 70.6 | 15.44 | 69.0 | 14.74 | 65.8 | 14.14 | 62.8 | 12.94 |
| | | 385.0 | 78.8 | 17.04 | 74.6 | 16.10 | 70.6 | 15.50 | 69.0 | 14.80 | 65.8 | 14.04 | 62.8 | 12.96 |
| | | 462.0 | 78.8 | 17.08 | 74.6 | 16.14 | 70.6 | 15.54 | 69.0 | 14.84 | 65.8 | 13.98 | 62.8 | 12.98 |
| | 15 | 123.2 | 78.8 | 15.66 | 74.6 | 14.70 | 70.6 | 14.06 | 69.0 | 13.30 | 65.8 | 12.68 | 62.8 | 11.72 |
| | | 154.0 | 78.8 | 15.50 | 74.6 | 14.54 | 70.6 | 13.90 | 69.0 | 13.24 | 65.8 | 12.60 | 62.8 | 11.62 |
| | | 308.0 | 78.8 | 14.86 | 74.6 | 13.90 | 70.6 | 13.24 | 69.0 | 12.94 | 65.8 | 12.26 | 62.8 | 11.30 |
| | | 385.0 | 78.8 | 14.86 | 74.6 | 13.90 | 70.6 | 13.24 | 69.0 | 12.94 | 65.8 | 11.96 | 62.8 | 11.30 |
| | | 462.0 | 78.8 | 14.86 | 74.6 | 13.90 | 70.6 | 13.24 | 69.0 | 12.94 | 65.8 | 11.82 | 62.8 | 11.30 |
| | 20 | 123.2 | 78.8 | 13.02 | 74.6 | 12.34 | 70.6 | 12.04 | 69.0 | 11.72 | 65.8 | 11.08 | 62.8 | 10.40 |
| | | 154.0 | 78.8 | 12.94 | 74.6 | 12.26 | 70.6 | 11.96 | 69.0 | 11.62 | 65.8 | 11.00 | 62.8 | 10.32 |
| | | 308.0 | 78.8 | 12.60 | 74.6 | 11.96 | 70.6 | 11.62 | 69.0 | 11.30 | 65.8 | 10.66 | 62.8 | 10.02 |
| | | 385.0 | 78.8 | 12.60 | 74.6 | 11.96 | 70.6 | 11.62 | 69.0 | 11.00 | 65.8 | 10.66 | 62.8 | 9.70 |
| | | 462.0 | 78.8 | 12.60 | 74.6 | 11.96 | 70.6 | 11.62 | 69.0 | 10.84 | 65.8 | 10.66 | 62.8 | 9.52 |
| | 25 | 123.2 | 78.8 | 11.72 | 74.6 | 11.08 | 70.6 | 10.40 | 69.0 | 10.10 | 65.8 | 9.36 | 62.8 | 8.72 |
| | | 154.0 | 78.8 | 11.62 | 74.6 | 11.00 | 70.6 | 10.32 | 69.0 | 10.02 | 65.8 | 9.36 | 62.8 | 8.72 |
| | | 308.0 | 78.8 | 11.30 | 74.6 | 10.66 | 70.6 | 10.02 | 69.0 | 9.70 | 65.8 | 9.36 | 62.8 | 8.72 |
| | | 385.0 | 78.8 | 11.00 | 74.6 | 10.32 | 70.6 | 10.02 | 69.0 | 9.70 | 65.8 | 9.06 | 62.8 | 8.72 |
| | | 462.0 | 78.8 | 10.84 | 74.6 | 10.16 | 70.6 | 10.02 | 69.0 | 9.70 | 65.8 | 8.90 | 62.8 | 8.72 |
| | 30 | 123.2 | 78.8 | 10.40 | 74.6 | 9.78 | 70.6 | 9.14 | 69.0 | 8.72 | 65.8 | 8.46 | 62.8 | 7.76 |
| | | 154.0 | 78.8 | 10.32 | 74.6 | 9.70 | 70.6 | 9.06 | 69.0 | 8.72 | 65.8 | 8.38 | 62.8 | 7.76 |
| | | 308.0 | 78.8 | 10.02 | 74.6 | 9.36 | 70.6 | 8.72 | 69.0 | 8.72 | 65.8 | 8.08 | 62.8 | 7.76 |
| | | 385.0 | 78.8 | 10.02 | 74.6 | 9.36 | 70.6 | 8.72 | 69.0 | 8.38 | 65.8 | 8.08 | 62.8 | 7.76 |
| | | 462.0 | 78.8 | 10.02 | 74.6 | 9.36 | 70.6 | 8.72 | 69.0 | 8.22 | 65.8 | 8.08 | 62.8 | 7.76 |
| | 35 | 123.2 | 78.8 | 9.44 | 74.6 | 8.80 | 70.6 | 8.08 | 69.0 | 8.18 | 65.8 | 7.42 | 62.8 | 7.20 |
| | | 154.0 | 78.8 | 9.36 | 74.6 | 8.72 | 70.6 | 8.08 | 69.0 | 8.08 | 65.8 | 7.42 | 62.8 | 7.12 |
| | | 308.0 | 78.8 | 9.06 | 74.6 | 8.38 | 70.6 | 8.08 | 69.0 | 7.76 | 65.8 | 7.42 | 62.8 | 6.78 |
| | | 385.0 | 78.8 | 9.06 | 74.6 | 8.38 | 70.6 | 7.76 | 69.0 | 7.76 | 65.8 | 7.42 | 62.8 | 6.78 |
| | | 462.0 | 78.8 | 9.06 | 74.6 | 8.38 | 70.6 | 7.58 | 69.0 | 7.76 | 65.8 | 7.42 | 62.8 | 6.78 |
| | 40 | 123.2 | 78.8 | 8.80 | 74.6 | 8.18 | 70.6 | 7.50 | 69.0 | 7.12 | 65.8 | 6.78 | 62.8 | 6.52 |
| | | 154.0 | 78.8 | 8.72 | 74.6 | 8.08 | 70.6 | 7.42 | 69.0 | 7.12 | 65.8 | 6.78 | 62.8 | 6.44 |
| | | 308.0 | 78.8 | 8.38 | 74.6 | 7.76 | 70.6 | 7.12 | 69.0 | 7.12 | 65.8 | 6.78 | 62.8 | 6.14 |
| | | 385.0 | 78.8 | 8.38 | 74.6 | 7.76 | 70.6 | 7.12 | 69.0 | 6.78 | 65.8 | 6.44 | 62.8 | 6.14 |
| | | 462.0 | 78.8 | 8.38 | 74.6 | 7.76 | 70.6 | 7.12 | 69.0 | 6.62 | 65.8 | 6.28 | 62.8 | 6.14 |
| | 45 | 123.2 | 78.8 | 8.18 | 74.6 | 7.50 | 70.6 | 6.94 | 69.0 | 6.08 | 65.8 | 6.14 | 62.8 | 5.90 |
| | | 154.0 | 78.8 | 8.08 | 74.6 | 7.42 | 70.6 | 6.78 | 69.0 | 6.14 | 65.8 | 6.14 | 62.8 | 5.82 |
| | | 308.0 | 78.8 | 7.76 | 74.6 | 7.12 | 70.6 | 6.14 | 69.0 | 6.44 | 65.8 | 6.14 | 62.8 | 5.48 |
| | | 385.0 | 78.8 | 7.76 | 74.6 | 7.12 | 70.6 | 6.44 | 69.0 | 5.82 | 65.8 | 5.48 | 62.8 | 5.48 |
| | | 462.0 | 78.8 | 7.76 | 74.6 | 7.12 | 70.6 | 6.60 | 69.0 | 5.50 | 65.8 | 5.14 | 62.8 | 5.48 |
| 60 | -5 | 123.2 | 27.0 | 9.48 | 25.4 | 9.12 | 24.0 | 8.76 | 23.8 | 8.14 | 23.6 | 8.00 | 23.2 | 7.16 |
| | | 154.0 | 28.0 | 9.70 | 26.2 | 9.32 | 24.8 | 8.96 | 24.6 | 8.32 | 24.4 | 8.18 | 24.0 | 7.32 |
| | | 308.0 | 31.8 | 10.52 | 29.8 | 10.12 | 28.2 | 9.72 | 27.8 | 9.02 | 27.8 | 8.88 | 27.2 | 7.96 |
| | | 385.0 | 35.0 | 11.32 | 32.8 | 10.92 | 31.2 | 10.50 | 30.8 | 9.76 | 30.6 | 9.58 | 30.0 | 8.56 |
| | | 462.0 | 36.8 | 11.74 | 34.4 | 11.34 | 32.6 | 10.88 | 32.2 | 10.12 | 32.2 | 9.94 | 31.4 | 8.86 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 123.2 | 48.4 | 13.90 | 44.6 | 13.40 | 41.6 | 12.82 | 40.8 | 11.92 | 40.2 | 11.76 | 38.8 | 10.50 |
| | | 154.0 | 48.8 | 13.94 | 45.0 | 13.44 | 42.0 | 12.86 | 41.0 | 11.96 | 40.6 | 11.80 | 39.0 | 10.52 |
| | | 308.0 | 49.8 | 14.10 | 46.0 | 13.56 | 43.0 | 13.04 | 42.0 | 12.10 | 41.4 | 11.92 | 39.8 | 10.62 |
| | | 385.0 | 50.6 | 14.10 | 46.6 | 13.56 | 43.6 | 13.04 | 42.6 | 12.10 | 42.2 | 11.92 | 40.6 | 10.62 |
| | | 462.0 | 51.0 | 14.10 | 47.0 | 13.56 | 44.0 | 13.04 | 43.0 | 12.10 | 42.4 | 11.92 | 40.8 | 10.62 |
| | 5 | 123.2 | 67.0 | 15.12 | 63.2 | 14.56 | 60.6 | 13.96 | 59.0 | 13.00 | 56.6 | 12.80 | 53.8 | 11.40 |
| | | 154.0 | 67.2 | 15.20 | 63.2 | 14.64 | 60.6 | 14.04 | 59.0 | 13.06 | 56.6 | 12.86 | 53.8 | 11.46 |
| | | 308.0 | 67.8 | 15.50 | 63.8 | 14.94 | 60.6 | 14.34 | 59.0 | 13.34 | 56.6 | 13.14 | 53.8 | 11.70 |
| | | 385.0 | 67.8 | 15.64 | 63.6 | 15.04 | 60.6 | 14.44 | 59.0 | 13.44 | 56.6 | 13.20 | 53.8 | 11.80 |
| | | 462.0 | 67.8 | 15.70 | 63.6 | 15.08 | 60.6 | 14.48 | 59.0 | 13.48 | 56.6 | 13.24 | 53.8 | 11.84 |
| | 10 | 123.2 | 67.4 | 13.90 | 63.4 | 13.30 | 60.6 | 12.66 | 59.0 | 11.82 | 56.6 | 11.60 | 53.8 | 10.40 |
| | | 154.0 | 67.4 | 13.90 | 63.4 | 13.30 | 60.6 | 12.66 | 59.0 | 11.86 | 56.6 | 11.60 | 53.8 | 10.42 |
| | | 308.0 | 67.8 | 13.90 | 63.8 | 13.30 | 60.6 | 12.66 | 59.0 | 12.00 | 56.6 | 11.56 | 53.8 | 10.52 |
| | | 385.0 | 67.8 | 13.94 | 63.6 | 13.16 | 60.6 | 12.54 | 59.0 | 11.86 | 56.6 | 11.46 | 53.8 | 10.42 |
| | | 462.0 | 67.8 | 13.96 | 63.6 | 13.10 | 60.6 | 12.46 | 59.0 | 11.80 | 56.6 | 11.42 | 53.8 | 10.38 |
| | 15 | 123.2 | 67.8 | 12.68 | 63.6 | 12.04 | 60.6 | 11.36 | 59.0 | 10.66 | 56.6 | 10.40 | 53.8 | 9.36 |
| | | 154.0 | 67.8 | 12.60 | 63.6 | 11.96 | 60.6 | 11.30 | 59.0 | 10.66 | 56.6 | 10.32 | 53.8 | 9.36 |
| | | 308.0 | 67.8 | 12.26 | 63.6 | 11.62 | 60.6 | 11.00 | 59.0 | 10.66 | 56.6 | 10.02 | 53.8 | 9.36 |
| | | 385.0 | 67.8 | 12.26 | 63.6 | 11.30 | 60.6 | 10.66 | 59.0 | 10.32 | 56.6 | 9.70 | 53.8 | 9.06 |
| | | 462.0 | 67.8 | 12.26 | 63.6 | 11.12 | 60.6 | 10.50 | 59.0 | 10.16 | 56.6 | 9.52 | 53.8 | 8.90 |
| | 20 | 123.2 | 67.8 | 11.08 | 63.6 | 10.40 | 60.6 | 9.78 | 59.0 | 9.44 | 56.6 | 9.14 | 53.8 | 8.46 |
| | | 154.0 | 67.8 | 11.00 | 63.6 | 10.32 | 60.6 | 9.70 | 59.0 | 9.36 | 56.6 | 9.06 | 53.8 | 8.38 |
| | | 308.0 | 67.8 | 10.66 | 63.6 | 10.02 | 60.6 | 9.36 | 59.0 | 9.06 | 56.6 | 8.72 | 53.8 | 8.08 |
| | | 385.0 | 67.8 | 10.66 | 63.6 | 10.02 | 60.6 | 9.36 | 59.0 | 9.06 | 56.6 | 8.72 | 53.8 | 8.08 |
| | | 462.0 | 67.8 | 10.66 | 63.6 | 10.02 | 60.6 | 9.36 | 59.0 | 9.06 | 56.6 | 8.72 | 53.8 | 8.08 |
| | 25 | 123.2 | 67.8 | 9.78 | 63.6 | 9.14 | 60.6 | 8.38 | 59.0 | 8.46 | 56.6 | 7.76 | 53.8 | 7.50 |
| | | 154.0 | 67.8 | 9.70 | 63.6 | 9.06 | 60.6 | 8.38 | 59.0 | 8.38 | 56.6 | 7.76 | 53.8 | 7.42 |
| | | 308.0 | 67.8 | 9.36 | 63.6 | 8.72 | 60.6 | 8.38 | 59.0 | 8.08 | 56.6 | 7.76 | 53.8 | 7.12 |
| | | 385.0 | 67.8 | 9.36 | 63.6 | 8.72 | 60.6 | 8.08 | 59.0 | 8.08 | 56.6 | 7.76 | 53.8 | 7.12 |
| | | 462.0 | 67.8 | 9.36 | 63.6 | 8.72 | 60.6 | 7.94 | 59.0 | 8.08 | 56.6 | 7.76 | 53.8 | 7.12 |
| | 30 | 123.2 | 67.8 | 8.80 | 63.6 | 8.18 | 60.6 | 7.84 | 59.0 | 7.50 | 56.6 | 7.20 | 53.8 | 6.86 |
| | | 154.0 | 67.8 | 8.72 | 63.6 | 8.08 | 60.6 | 7.76 | 59.0 | 7.42 | 56.6 | 7.12 | 53.8 | 6.78 |
| | | 308.0 | 67.8 | 8.38 | 63.6 | 7.76 | 60.6 | 7.42 | 59.0 | 7.12 | 56.6 | 6.78 | 53.8 | 6.44 |
| | | 385.0 | 67.8 | 8.38 | 63.6 | 7.76 | 60.6 | 7.42 | 59.0 | 7.12 | 56.6 | 6.78 | 53.8 | 6.44 |
| | | 462.0 | 67.8 | 8.38 | 63.6 | 7.76 | 60.6 | 7.42 | 59.0 | 7.12 | 56.6 | 6.78 | 53.8 | 6.44 |
| | 35 | 123.2 | 67.8 | 7.76 | 63.6 | 7.50 | 60.6 | 6.78 | 59.0 | 6.86 | 56.6 | 6.52 | 53.8 | 6.24 |
| | | 154.0 | 67.8 | 7.76 | 63.6 | 7.42 | 60.6 | 6.78 | 59.0 | 6.78 | 56.6 | 6.44 | 53.8 | 6.14 |
| | | 308.0 | 67.8 | 7.76 | 63.6 | 7.12 | 60.6 | 6.78 | 59.0 | 6.44 | 56.6 | 6.14 | 53.8 | 5.82 |
| | | 385.0 | 67.8 | 7.76 | 63.6 | 7.12 | 60.6 | 6.44 | 59.0 | 6.44 | 56.6 | 6.14 | 53.8 | 5.82 |
| | | 462.0 | 67.8 | 7.76 | 63.6 | 7.12 | 60.6 | 6.28 | 59.0 | 6.44 | 56.6 | 6.14 | 53.8 | 5.82 |
| | 40 | 123.2 | 67.8 | 7.12 | 63.6 | 6.86 | 60.6 | 6.14 | 59.0 | 6.24 | 56.6 | 5.90 | 53.8 | 5.48 |
| | | 154.0 | 67.8 | 7.12 | 63.6 | 6.78 | 60.6 | 6.14 | 59.0 | 6.14 | 56.6 | 5.82 | 53.8 | 5.48 |
| | | 308.0 | 67.8 | 7.12 | 63.6 | 6.44 | 60.6 | 6.14 | 59.0 | 5.82 | 56.6 | 5.48 | 53.8 | 5.48 |
| | | 385.0 | 67.8 | 7.12 | 63.6 | 6.44 | 60.6 | 6.14 | 59.0 | 5.82 | 56.6 | 5.48 | 53.8 | 5.48 |
| | | 462.0 | 67.8 | 7.12 | 63.6 | 6.44 | 60.6 | 6.14 | 59.0 | 5.82 | 56.6 | 5.48 | 53.8 | 5.48 |
| | 45 | 123.2 | 67.8 | 6.44 | 63.6 | 6.24 | 60.6 | 5.48 | 59.0 | 5.56 | 56.6 | 5.26 | 53.8 | 4.76 |
| | | 154.0 | 67.8 | 6.44 | 63.6 | 6.14 | 60.6 | 5.48 | 59.0 | 5.48 | 56.6 | 5.18 | 53.8 | 4.84 |
| | | 308.0 | 67.8 | 6.44 | 63.6 | 5.82 | 60.6 | 5.48 | 59.0 | 5.18 | 56.6 | 4.84 | 53.8 | 5.18 |
| | | 385.0 | 67.8 | 6.44 | 63.6 | 5.82 | 60.6 | 5.82 | 59.0 | 5.18 | 56.6 | 4.84 | 53.8 | 5.18 |
| | | 462.0 | 67.8 | 6.44 | 63.6 | 5.82 | 60.6 | 5.98 | 59.0 | 5.18 | 56.6 | 4.84 | 53.8 | 5.18 |
| 50 | -5 | 123.2 | 22.6 | 7.56 | 21.2 | 7.16 | 20.0 | 6.78 | 19.8 | 6.40 | 19.6 | 6.02 | 19.4 | 5.70 |
| | | 154.0 | 23.4 | 7.72 | 22.0 | 7.32 | 20.8 | 6.92 | 20.4 | 6.54 | 20.4 | 6.14 | 20.0 | 5.82 |
| | | 308.0 | 26.4 | 8.36 | 24.8 | 7.96 | 23.4 | 7.48 | 23.2 | 7.12 | 23.0 | 6.68 | 22.6 | 6.28 |
| | | 385.0 | 29.2 | 9.02 | 27.4 | 8.56 | 25.8 | 8.08 | 25.6 | 7.68 | 25.4 | 7.18 | 25.0 | 6.78 |
| | | 462.0 | 30.6 | 9.36 | 28.8 | 8.86 | 27.2 | 8.38 | 26.8 | 7.98 | 26.6 | 7.44 | 26.2 | 7.04 |
| | 0 | 123.2 | 40.2 | 11.06 | 37.2 | 10.50 | 34.6 | 9.90 | 34.0 | 9.38 | 33.4 | 8.82 | 32.2 | 8.32 |
| | | 154.0 | 40.6 | 11.10 | 37.6 | 10.52 | 34.8 | 9.92 | 34.2 | 9.42 | 33.6 | 8.86 | 32.4 | 8.36 |
| | | 308.0 | 41.4 | 11.20 | 38.4 | 10.62 | 35.8 | 10.06 | 35.0 | 9.56 | 34.6 | 8.96 | 33.2 | 8.46 |
| | | 385.0 | 42.2 | 11.20 | 39.0 | 10.62 | 36.2 | 10.06 | 35.6 | 9.56 | 35.0 | 8.96 | 33.8 | 8.46 |
| | | 462.0 | 42.4 | 11.20 | 39.2 | 10.62 | 36.4 | 10.06 | 35.8 | 9.56 | 35.2 | 8.96 | 34.0 | 8.46 |
| | 5 | 123.2 | 55.6 | 12.04 | 52.8 | 11.40 | 50.4 | 10.76 | 49.2 | 10.24 | 47.0 | 9.62 | 44.8 | 9.04 |
| | | 154.0 | 55.8 | 12.10 | 52.8 | 11.46 | 50.4 | 10.82 | 49.2 | 10.30 | 47.0 | 9.66 | 44.8 | 9.08 |
| | | 308.0 | 56.2 | 12.32 | 53.2 | 11.70 | 50.4 | 11.06 | 49.2 | 10.50 | 47.0 | 9.82 | 44.8 | 9.28 |
| | | 385.0 | 56.2 | 12.42 | 53.2 | 11.80 | 50.4 | 11.12 | 49.2 | 10.56 | 47.0 | 9.92 | 44.8 | 9.36 |
| | | 462.0 | 56.2 | 12.48 | 53.2 | 11.84 | 50.4 | 11.16 | 49.2 | 10.60 | 47.0 | 9.98 | 44.8 | 9.38 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(32HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 123.2 | 56.0 | 11.08 | 53.0 | 10.44 | 50.4 | 9.80 | 49.2 | 9.38 | 47.0 | 8.66 | 44.8 | 8.28 |
| | | 154.0 | 56.0 | 11.06 | 53.0 | 10.42 | 50.4 | 9.80 | 49.2 | 9.36 | 47.0 | 8.68 | 44.8 | 8.26 |
| | | 308.0 | 56.2 | 11.00 | 53.2 | 10.40 | 50.4 | 9.72 | 49.2 | 9.28 | 47.0 | 8.78 | 44.8 | 8.18 |
| | | 385.0 | 56.2 | 11.06 | 53.2 | 10.42 | 50.4 | 9.76 | 49.2 | 9.32 | 47.0 | 8.66 | 44.8 | 8.22 |
| | | 462.0 | 56.2 | 11.10 | 53.2 | 10.44 | 50.4 | 9.78 | 49.2 | 9.34 | 47.0 | 8.58 | 44.8 | 8.24 |
| | 15 | 123.2 | 56.2 | 10.10 | 53.2 | 9.44 | 50.4 | 8.80 | 49.2 | 8.46 | 47.0 | 7.76 | 44.8 | 7.50 |
| | | 154.0 | 56.2 | 10.02 | 53.2 | 9.36 | 50.4 | 8.72 | 49.2 | 8.38 | 47.0 | 7.76 | 44.8 | 7.42 |
| | | 308.0 | 56.2 | 9.70 | 53.2 | 9.06 | 50.4 | 8.38 | 49.2 | 8.08 | 47.0 | 7.76 | 44.8 | 7.12 |
| | | 385.0 | 56.2 | 9.70 | 53.2 | 9.06 | 50.4 | 8.38 | 49.2 | 8.08 | 47.0 | 7.42 | 44.8 | 7.12 |
| | | 462.0 | 56.2 | 9.70 | 53.2 | 9.06 | 50.4 | 8.38 | 49.2 | 8.08 | 47.0 | 7.24 | 44.8 | 7.12 |
| | 20 | 123.2 | 56.2 | 8.80 | 53.2 | 8.18 | 50.4 | 7.84 | 49.2 | 7.50 | 47.0 | 7.20 | 44.8 | 6.44 |
| | | 154.0 | 56.2 | 8.72 | 53.2 | 8.08 | 50.4 | 7.76 | 49.2 | 7.42 | 47.0 | 7.12 | 44.8 | 6.44 |
| | | 308.0 | 56.2 | 8.38 | 53.2 | 7.76 | 50.4 | 7.42 | 49.2 | 7.12 | 47.0 | 6.78 | 44.8 | 6.44 |
| | | 385.0 | 56.2 | 8.38 | 53.2 | 7.76 | 50.4 | 7.42 | 49.2 | 7.12 | 47.0 | 6.78 | 44.8 | 6.44 |
| | | 462.0 | 56.2 | 8.38 | 53.2 | 7.76 | 50.4 | 7.42 | 49.2 | 7.12 | 47.0 | 6.78 | 44.8 | 6.44 |
| | 25 | 123.2 | 56.2 | 7.84 | 53.2 | 7.12 | 50.4 | 6.86 | 49.2 | 6.44 | 47.0 | 6.14 | 44.8 | 5.82 |
| | | 154.0 | 56.2 | 7.76 | 53.2 | 7.12 | 50.4 | 6.78 | 49.2 | 6.44 | 47.0 | 6.14 | 44.8 | 5.82 |
| | | 308.0 | 56.2 | 7.42 | 53.2 | 7.12 | 50.4 | 6.44 | 49.2 | 6.44 | 47.0 | 6.14 | 44.8 | 5.82 |
| | | 385.0 | 56.2 | 7.42 | 53.2 | 7.12 | 50.4 | 6.44 | 49.2 | 6.44 | 47.0 | 6.14 | 44.8 | 5.82 |
| | | 462.0 | 56.2 | 7.42 | 53.2 | 7.12 | 50.4 | 6.44 | 49.2 | 6.44 | 47.0 | 6.14 | 44.8 | 5.82 |
| | 30 | 123.2 | 56.2 | 7.20 | 53.2 | 6.52 | 50.4 | 6.24 | 49.2 | 5.82 | 47.0 | 5.90 | 44.8 | 5.56 |
| | | 154.0 | 56.2 | 7.12 | 53.2 | 6.44 | 50.4 | 6.14 | 49.2 | 5.82 | 47.0 | 5.82 | 44.8 | 5.48 |
| | | 308.0 | 56.2 | 6.78 | 53.2 | 6.14 | 50.4 | 5.82 | 49.2 | 5.82 | 47.0 | 5.48 | 44.8 | 5.18 |
| | | 385.0 | 56.2 | 6.78 | 53.2 | 6.14 | 50.4 | 5.82 | 49.2 | 5.82 | 47.0 | 5.48 | 44.8 | 5.18 |
| | | 462.0 | 56.2 | 6.78 | 53.2 | 6.14 | 50.4 | 5.82 | 49.2 | 5.82 | 47.0 | 5.48 | 44.8 | 5.18 |
| | 35 | 123.2 | 56.2 | 6.52 | 53.2 | 5.82 | 50.4 | 5.48 | 49.2 | 5.56 | 47.0 | 5.18 | 44.8 | 4.84 |
| | | 154.0 | 56.2 | 6.44 | 53.2 | 5.82 | 50.4 | 5.48 | 49.2 | 5.48 | 47.0 | 5.18 | 44.8 | 4.84 |
| | | 308.0 | 56.2 | 6.14 | 53.2 | 5.82 | 50.4 | 5.48 | 49.2 | 5.18 | 47.0 | 5.18 | 44.8 | 4.84 |
| | | 385.0 | 56.2 | 6.14 | 53.2 | 5.82 | 50.4 | 5.48 | 49.2 | 5.18 | 47.0 | 5.18 | 44.8 | 4.84 |
| | | 462.0 | 56.2 | 6.14 | 53.2 | 5.82 | 50.4 | 5.48 | 49.2 | 5.18 | 47.0 | 5.18 | 44.8 | 4.84 |
| | 40 | 123.2 | 56.2 | 5.90 | 53.2 | 5.56 | 50.4 | 5.26 | 49.2 | 4.84 | 47.0 | 4.92 | 44.8 | 4.52 |
| | | 154.0 | 56.2 | 5.82 | 53.2 | 5.48 | 50.4 | 5.18 | 49.2 | 4.84 | 47.0 | 4.84 | 44.8 | 4.52 |
| | | 308.0 | 56.2 | 5.48 | 53.2 | 5.18 | 50.4 | 4.84 | 49.2 | 4.84 | 47.0 | 4.52 | 44.8 | 4.52 |
| | | 385.0 | 56.2 | 5.48 | 53.2 | 5.18 | 50.4 | 4.84 | 49.2 | 4.84 | 47.0 | 4.52 | 44.8 | 4.52 |
| | | 462.0 | 56.2 | 5.48 | 53.2 | 5.18 | 50.4 | 4.84 | 49.2 | 4.84 | 47.0 | 4.52 | 44.8 | 4.52 |
| | 45 | 123.2 | 56.2 | 5.26 | 53.2 | 5.34 | 50.4 | 5.00 | 49.2 | 4.14 | 47.0 | 4.68 | 44.8 | 4.22 |
| | | 154.0 | 56.2 | 5.18 | 53.2 | 5.18 | 50.4 | 4.84 | 49.2 | 4.22 | 47.0 | 4.52 | 44.8 | 4.22 |
| | | 308.0 | 56.2 | 4.84 | 53.2 | 4.52 | 50.4 | 4.22 | 49.2 | 4.52 | 47.0 | 3.88 | 44.8 | 4.22 |
| | | 385.0 | 56.2 | 4.84 | 53.2 | 4.52 | 50.4 | 4.22 | 49.2 | 4.52 | 47.0 | 3.88 | 44.8 | 4.22 |
| | | 462.0 | 56.2 | 4.84 | 53.2 | 4.52 | 50.4 | 4.22 | 49.2 | 4.52 | 47.0 | 3.88 | 44.8 | 4.22 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN340BAS4

**Heating Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 130.8 | 50.7 | 20.68 | 50.3 | 19.46 | 50.0 | 18.12 | 49.3 | 17.57 | 49.9 | 17.12 | 48.6 | 15.36 |
| | | 163.5 | 52.4 | 21.04 | 52.0 | 19.84 | 51.7 | 18.51 | 51.0 | 17.98 | 51.7 | 17.50 | 50.3 | 15.68 |
| | | 327.0 | 59.2 | 22.47 | 58.8 | 21.35 | 58.5 | 20.09 | 57.8 | 19.50 | 58.4 | 18.96 | 56.8 | 17.01 |
| | | 408.8 | 65.6 | 23.88 | 64.9 | 22.80 | 64.6 | 21.64 | 63.9 | 21.07 | 64.6 | 20.45 | 62.9 | 18.34 |
| | | 490.5 | 68.7 | 24.61 | 68.0 | 23.53 | 67.6 | 22.44 | 66.9 | 21.85 | 67.7 | 21.21 | 65.9 | 19.01 |
| | 0 | 130.8 | 90.5 | 28.27 | 88.4 | 27.42 | 86.6 | 26.54 | 84.7 | 25.80 | 85.0 | 25.08 | 81.2 | 22.47 |
| | | 163.5 | 91.1 | 28.36 | 89.0 | 27.49 | 87.1 | 26.61 | 85.3 | 25.87 | 85.4 | 25.14 | 81.6 | 22.54 |
| | | 327.0 | 93.2 | 28.65 | 91.1 | 27.77 | 89.1 | 26.92 | 87.1 | 26.16 | 87.4 | 25.42 | 83.6 | 22.80 |
| | | 408.8 | 94.6 | 28.65 | 92.4 | 27.77 | 90.4 | 26.92 | 88.4 | 26.16 | 88.8 | 25.42 | 84.7 | 22.80 |
| | | 490.5 | 95.3 | 28.65 | 93.1 | 27.77 | 91.1 | 26.92 | 89.1 | 26.16 | 89.4 | 25.42 | 85.4 | 22.80 |
| | 5 | 130.8 | 130.3 | 30.40 | 128.5 | 29.63 | 125.8 | 28.89 | 122.5 | 28.08 | 119.3 | 27.29 | 112.6 | 24.44 |
| | | 163.5 | 130.9 | 30.53 | 128.6 | 29.77 | 125.8 | 29.03 | 122.5 | 28.22 | 119.3 | 27.42 | 112.6 | 24.58 |
| | | 327.0 | 132.6 | 31.07 | 129.5 | 30.33 | 125.8 | 29.62 | 122.5 | 28.79 | 119.3 | 27.98 | 112.6 | 25.08 |
| | | 408.8 | 133.3 | 31.28 | 129.9 | 30.53 | 125.8 | 29.81 | 122.5 | 29.00 | 119.3 | 28.19 | 112.6 | 25.25 |
| | | 490.5 | 133.9 | 31.38 | 130.2 | 30.64 | 125.8 | 29.91 | 122.5 | 29.10 | 119.3 | 28.29 | 112.6 | 25.35 |
| | 10 | 130.8 | 130.5 | 27.66 | 128.5 | 26.72 | 125.4 | 26.23 | 122.1 | 25.63 | 118.7 | 24.76 | 112.2 | 22.34 |
| | | 163.5 | 131.3 | 27.60 | 128.9 | 26.75 | 125.8 | 26.27 | 122.5 | 25.63 | 119.3 | 24.75 | 112.6 | 22.33 |
| | | 327.0 | 134.3 | 27.39 | 131.3 | 26.86 | 127.8 | 26.47 | 124.5 | 25.59 | 121.0 | 24.68 | 114.5 | 22.26 |
| | | 408.8 | 135.0 | 27.77 | 132.3 | 27.24 | 128.6 | 26.58 | 125.1 | 25.70 | 121.8 | 25.08 | 115.2 | 23.32 |
| | | 490.5 | 135.4 | 27.95 | 132.7 | 27.42 | 128.9 | 26.64 | 125.4 | 25.74 | 122.3 | 25.28 | 115.6 | 23.84 |
| | 15 | 130.8 | 130.6 | 24.93 | 128.5 | 23.85 | 124.8 | 23.60 | 121.4 | 23.21 | 118.3 | 22.23 | 111.8 | 20.26 |
| | | 163.5 | 131.9 | 24.68 | 129.5 | 23.77 | 125.8 | 23.56 | 122.5 | 23.04 | 119.3 | 22.05 | 112.6 | 20.09 |
| | | 327.0 | 136.0 | 23.70 | 133.3 | 23.35 | 129.9 | 23.35 | 126.5 | 22.37 | 122.8 | 21.38 | 116.3 | 19.39 |
| | | 408.8 | 136.7 | 24.26 | 134.6 | 23.88 | 131.3 | 23.35 | 127.8 | 22.37 | 124.5 | 21.98 | 117.6 | 21.38 |
| | | 490.5 | 137.1 | 24.55 | 135.3 | 24.16 | 132.2 | 23.35 | 128.5 | 22.37 | 125.4 | 22.30 | 118.3 | 22.37 |
| | 20 | 130.8 | 135.7 | 22.86 | 133.3 | 21.80 | 129.6 | 21.32 | 126.1 | 20.65 | 122.4 | 20.19 | 115.2 | 19.56 |
| | | 163.5 | 136.7 | 22.69 | 134.3 | 21.78 | 130.6 | 21.31 | 127.1 | 20.72 | 123.5 | 20.33 | 116.3 | 19.39 |
| | | 327.0 | 141.1 | 22.05 | 138.7 | 21.71 | 134.7 | 21.24 | 131.2 | 21.07 | 127.8 | 20.86 | 120.6 | 18.76 |
| | | 408.8 | 141.7 | 22.05 | 139.7 | 21.71 | 136.3 | 21.38 | 132.3 | 21.07 | 128.8 | 20.86 | 121.4 | 19.95 |
| | | 490.5 | 142.1 | 22.05 | 140.1 | 21.71 | 137.1 | 21.45 | 133.0 | 21.07 | 129.2 | 20.86 | 122.1 | 20.55 |
| | 25 | 130.8 | 143.2 | 21.80 | 139.7 | 21.17 | 136.3 | 20.82 | 133.7 | 20.47 | 130.6 | 20.16 | 123.1 | 18.83 |
| | | 163.5 | 143.2 | 21.71 | 139.7 | 21.14 | 136.3 | 20.72 | 133.7 | 20.38 | 130.6 | 20.09 | 123.1 | 18.76 |
| | | 327.0 | 143.2 | 21.38 | 139.7 | 21.00 | 136.3 | 20.38 | 133.7 | 20.09 | 130.6 | 19.74 | 123.1 | 18.41 |
| | | 408.8 | 143.2 | 21.07 | 139.7 | 20.45 | 136.3 | 20.09 | 133.7 | 19.74 | 130.6 | 19.39 | 123.1 | 18.10 |
| | | 490.5 | 143.2 | 20.90 | 139.7 | 20.19 | 136.3 | 19.92 | 133.7 | 19.57 | 130.6 | 19.22 | 123.1 | 17.95 |
| | 30 | 130.8 | 143.2 | 21.24 | 139.7 | 20.19 | 136.3 | 19.99 | 133.7 | 19.47 | 130.6 | 19.26 | 123.1 | 17.92 |
| | | 163.5 | 143.2 | 21.07 | 139.7 | 20.16 | 136.3 | 19.88 | 133.7 | 19.39 | 130.6 | 19.10 | 123.1 | 17.77 |
| | | 327.0 | 143.2 | 20.38 | 139.7 | 20.02 | 136.3 | 19.39 | 133.7 | 19.10 | 130.6 | 18.41 | 123.1 | 17.11 |
| | | 408.8 | 143.2 | 20.09 | 139.7 | 19.46 | 136.3 | 19.10 | 133.7 | 18.76 | 130.6 | 18.41 | 123.1 | 17.11 |
| | | 490.5 | 143.2 | 19.92 | 139.7 | 19.19 | 136.3 | 18.94 | 133.7 | 18.58 | 130.6 | 18.41 | 123.1 | 17.11 |
| | 35 | 130.8 | 143.2 | 20.26 | 139.7 | 19.57 | 136.3 | 19.18 | 133.7 | 18.48 | 130.6 | 17.85 | 123.1 | 16.61 |
| | | 163.5 | 143.2 | 20.09 | 139.7 | 19.46 | 136.3 | 19.10 | 133.7 | 18.41 | 130.6 | 17.77 | 123.1 | 16.44 |
| | | 327.0 | 143.2 | 19.39 | 139.7 | 19.03 | 136.3 | 18.76 | 133.7 | 18.10 | 130.6 | 17.43 | 123.1 | 15.78 |
| | | 408.8 | 143.2 | 19.39 | 139.7 | 18.83 | 136.3 | 18.41 | 133.7 | 17.77 | 130.6 | 17.11 | 123.1 | 15.78 |
| | | 490.5 | 143.2 | 19.39 | 139.7 | 18.72 | 136.3 | 18.24 | 133.7 | 17.60 | 130.6 | 16.97 | 123.1 | 15.78 |
| | 40 | 130.8 | 143.2 | 19.56 | 139.7 | 18.94 | 136.3 | 18.58 | 133.7 | 17.92 | 130.6 | 17.29 | 123.1 | 15.61 |
| | | 163.5 | 143.2 | 19.39 | 139.7 | 18.83 | 136.3 | 18.41 | 133.7 | 17.77 | 130.6 | 17.11 | 123.1 | 15.46 |
| | | 327.0 | 143.2 | 18.76 | 139.7 | 18.34 | 136.3 | 17.77 | 133.7 | 17.11 | 130.6 | 16.44 | 123.1 | 14.80 |
| | | 408.8 | 143.2 | 18.41 | 139.7 | 18.03 | 136.3 | 17.77 | 133.7 | 17.11 | 130.6 | 16.44 | 123.1 | 14.80 |
| | | 490.5 | 143.2 | 18.24 | 139.7 | 17.88 | 136.3 | 17.77 | 133.7 | 17.11 | 130.6 | 16.44 | 123.1 | 14.80 |
| | 45 | 130.8 | 143.2 | 18.93 | 139.7 | 18.30 | 136.3 | 18.02 | 133.7 | 17.36 | 130.6 | 16.69 | 123.1 | 14.62 |
| | | 163.5 | 143.2 | 18.76 | 139.7 | 18.17 | 136.3 | 17.77 | 133.7 | 17.11 | 130.6 | 16.44 | 123.1 | 14.47 |
| | | 327.0 | 143.2 | 18.10 | 139.7 | 17.70 | 136.3 | 16.79 | 133.7 | 16.13 | 130.6 | 15.46 | 123.1 | 13.82 |
| | | 408.8 | 143.2 | 17.43 | 139.7 | 17.25 | 136.3 | 17.11 | 133.7 | 16.44 | 130.6 | 15.78 | 123.1 | 13.82 |
| | | 490.5 | 143.2 | 17.08 | 139.7 | 17.04 | 136.3 | 17.29 | 133.7 | 16.59 | 130.6 | 15.96 | 123.1 | 13.82 |
| 120 | -5 | 130.8 | 48.2 | 20.68 | 47.9 | 19.46 | 47.6 | 18.12 | 46.9 | 17.35 | 47.3 | 16.86 | 46.0 | 15.08 |
| | | 163.5 | 49.9 | 21.04 | 49.3 | 19.84 | 49.0 | 18.51 | 48.6 | 17.74 | 48.9 | 17.22 | 47.6 | 15.42 |
| | | 327.0 | 56.4 | 22.47 | 55.8 | 21.35 | 55.7 | 20.09 | 54.8 | 19.22 | 55.4 | 18.69 | 54.0 | 16.75 |
| | | 408.8 | 62.2 | 23.88 | 61.8 | 22.80 | 61.5 | 21.64 | 60.6 | 20.76 | 61.2 | 20.16 | 59.5 | 18.03 |
| | | 490.5 | 65.3 | 24.61 | 64.7 | 23.53 | 64.3 | 22.44 | 63.6 | 21.53 | 64.0 | 20.89 | 62.2 | 18.69 |
| | 0 | 130.8 | 86.0 | 28.27 | 84.0 | 27.42 | 82.2 | 26.54 | 80.6 | 25.42 | 80.6 | 24.71 | 76.8 | 22.09 |
| | | 163.5 | 86.6 | 28.36 | 84.4 | 27.49 | 82.6 | 26.61 | 81.0 | 25.49 | 81.0 | 24.78 | 77.2 | 22.16 |
| | | 327.0 | 88.5 | 28.65 | 86.4 | 27.77 | 84.7 | 26.92 | 82.9 | 25.80 | 82.9 | 25.04 | 79.2 | 22.44 |
| | | 408.8 | 90.0 | 28.65 | 87.8 | 27.77 | 86.0 | 26.92 | 84.3 | 25.80 | 84.0 | 25.04 | 80.3 | 22.44 |
| | | 490.5 | 90.7 | 28.65 | 88.7 | 27.77 | 86.7 | 26.92 | 84.9 | 25.80 | 84.7 | 25.04 | 81.0 | 22.44 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 130.8 | 124.1 | 30.40 | 122.1 | 29.63 | 119.6 | 28.89 | 116.6 | 27.66 | 112.9 | 26.89 | 106.8 | 24.08 |
| | | 163.5 | 124.5 | 30.53 | 122.4 | 29.77 | 119.6 | 29.03 | 116.6 | 27.81 | 112.9 | 27.03 | 106.8 | 24.20 |
| | | 327.0 | 126.4 | 31.07 | 123.4 | 30.33 | 119.6 | 29.62 | 116.6 | 28.39 | 112.9 | 27.56 | 106.8 | 24.68 |
| | | 408.8 | 127.1 | 31.28 | 122.7 | 30.53 | 119.6 | 29.81 | 116.6 | 28.58 | 112.9 | 27.77 | 106.8 | 24.85 |
| | | 490.5 | 127.4 | 31.38 | 122.4 | 30.64 | 119.6 | 29.91 | 116.6 | 28.69 | 112.9 | 27.87 | 106.8 | 24.93 |
| | 10 | 130.8 | 124.5 | 27.31 | 122.3 | 26.54 | 119.3 | 26.01 | 116.3 | 25.21 | 112.6 | 24.40 | 106.5 | 21.92 |
| | | 163.5 | 125.1 | 27.39 | 122.7 | 26.65 | 119.6 | 26.11 | 116.6 | 25.25 | 112.9 | 24.37 | 106.8 | 21.95 |
| | | 327.0 | 127.5 | 27.77 | 124.8 | 27.06 | 120.8 | 26.47 | 118.0 | 25.39 | 114.2 | 24.30 | 107.8 | 22.05 |
| | | 408.8 | 128.2 | 27.67 | 124.4 | 27.06 | 121.4 | 26.58 | 118.4 | 25.49 | 114.6 | 24.40 | 108.4 | 22.80 |
| | | 490.5 | 128.5 | 27.62 | 124.1 | 27.06 | 121.7 | 26.64 | 118.7 | 25.55 | 114.9 | 24.45 | 108.7 | 23.18 |
| | 15 | 130.8 | 124.8 | 24.22 | 122.4 | 23.50 | 118.9 | 23.14 | 116.0 | 22.79 | 112.5 | 21.88 | 106.1 | 19.82 |
| | | 163.5 | 125.7 | 24.26 | 123.1 | 23.56 | 119.6 | 23.18 | 116.6 | 22.69 | 112.9 | 21.71 | 106.8 | 19.74 |
| | | 327.0 | 128.5 | 24.47 | 126.1 | 23.77 | 122.3 | 23.35 | 119.3 | 22.37 | 115.3 | 21.07 | 109.1 | 19.39 |
| | | 408.8 | 129.2 | 24.09 | 126.1 | 23.56 | 123.1 | 23.35 | 120.3 | 22.37 | 116.3 | 21.07 | 110.1 | 20.72 |
| | | 490.5 | 129.6 | 23.91 | 126.1 | 23.45 | 123.8 | 23.35 | 120.7 | 22.37 | 116.7 | 21.07 | 110.5 | 21.39 |
| | 20 | 130.8 | 128.5 | 21.78 | 126.1 | 20.86 | 122.1 | 20.30 | 118.7 | 20.01 | 114.9 | 19.75 | 108.8 | 18.76 |
| | | 163.5 | 129.2 | 21.78 | 126.8 | 20.93 | 122.8 | 20.38 | 119.6 | 20.09 | 115.6 | 19.74 | 109.4 | 18.69 |
| | | 327.0 | 132.6 | 21.78 | 129.8 | 21.24 | 125.5 | 20.72 | 122.5 | 20.38 | 118.6 | 19.67 | 111.9 | 18.41 |
| | | 408.8 | 133.0 | 21.57 | 129.6 | 21.07 | 126.5 | 20.72 | 123.1 | 20.38 | 119.3 | 19.74 | 112.6 | 19.10 |
| | | 490.5 | 133.3 | 21.47 | 129.6 | 20.97 | 127.1 | 20.72 | 123.7 | 20.38 | 119.6 | 19.77 | 112.9 | 19.43 |
| | 25 | 130.8 | 134.6 | 20.61 | 130.6 | 19.64 | 126.5 | 19.26 | 123.8 | 18.83 | 120.6 | 18.48 | 113.9 | 17.21 |
| | | 163.5 | 134.7 | 20.52 | 130.6 | 19.60 | 126.5 | 19.22 | 123.8 | 18.76 | 120.6 | 18.41 | 113.9 | 17.11 |
| | | 327.0 | 135.0 | 20.22 | 130.6 | 19.46 | 126.5 | 19.10 | 123.8 | 18.41 | 120.6 | 18.10 | 113.9 | 16.79 |
| | | 408.8 | 135.4 | 19.46 | 130.6 | 18.96 | 126.5 | 18.76 | 123.8 | 18.41 | 120.6 | 17.77 | 113.9 | 16.79 |
| | | 490.5 | 135.6 | 19.08 | 130.6 | 18.69 | 126.5 | 18.58 | 123.8 | 18.41 | 120.6 | 17.60 | 113.9 | 16.79 |
| | 30 | 130.8 | 135.4 | 19.70 | 130.6 | 18.73 | 126.5 | 18.20 | 123.8 | 17.50 | 120.6 | 17.29 | 113.9 | 15.88 |
| | | 163.5 | 135.4 | 19.53 | 130.6 | 18.62 | 126.5 | 18.10 | 123.8 | 17.43 | 120.6 | 17.11 | 113.9 | 15.78 |
| | | 327.0 | 135.4 | 18.89 | 130.6 | 18.17 | 126.5 | 17.77 | 123.8 | 17.11 | 120.6 | 16.44 | 113.9 | 15.46 |
| | | 408.8 | 135.4 | 18.27 | 130.6 | 17.77 | 126.5 | 17.43 | 123.8 | 17.11 | 120.6 | 16.44 | 113.9 | 15.15 |
| | | 490.5 | 135.4 | 17.96 | 130.6 | 17.56 | 126.5 | 17.25 | 123.8 | 17.11 | 120.6 | 16.44 | 113.9 | 15.00 |
| | 35 | 130.8 | 135.4 | 18.82 | 130.6 | 17.78 | 126.5 | 17.29 | 123.8 | 16.61 | 120.6 | 15.95 | 113.9 | 14.55 |
| | | 163.5 | 135.4 | 18.55 | 130.6 | 17.63 | 126.5 | 17.11 | 123.8 | 16.44 | 120.6 | 15.78 | 113.9 | 14.47 |
| | | 327.0 | 135.4 | 17.50 | 130.6 | 16.98 | 126.5 | 16.44 | 123.8 | 15.78 | 120.6 | 15.15 | 113.9 | 14.16 |
| | | 408.8 | 135.4 | 17.29 | 130.6 | 16.84 | 126.5 | 16.44 | 123.8 | 15.78 | 120.6 | 15.15 | 113.9 | 13.82 |
| | | 490.5 | 135.4 | 17.18 | 130.6 | 16.79 | 126.5 | 16.44 | 123.8 | 15.78 | 120.6 | 15.15 | 113.9 | 13.64 |
| | 40 | 130.8 | 135.4 | 18.26 | 130.6 | 16.97 | 126.5 | 16.30 | 123.8 | 15.61 | 120.6 | 14.97 | 113.9 | 13.56 |
| | | 163.5 | 135.4 | 17.91 | 130.6 | 16.79 | 126.5 | 16.13 | 123.8 | 15.46 | 120.6 | 14.80 | 113.9 | 13.47 |
| | | 327.0 | 135.4 | 16.51 | 130.6 | 15.99 | 126.5 | 15.46 | 123.8 | 14.80 | 120.6 | 14.16 | 113.9 | 13.18 |
| | | 408.8 | 135.4 | 16.30 | 130.6 | 15.78 | 126.5 | 15.46 | 123.8 | 14.80 | 120.6 | 14.16 | 113.9 | 12.83 |
| | | 490.5 | 135.4 | 16.20 | 130.6 | 15.68 | 126.5 | 15.46 | 123.8 | 14.80 | 120.6 | 14.16 | 113.9 | 12.66 |
| | 45 | 130.8 | 135.4 | 17.70 | 130.6 | 16.16 | 126.5 | 15.32 | 123.8 | 14.62 | 120.6 | 13.99 | 113.9 | 12.56 |
| | | 163.5 | 135.4 | 17.25 | 130.6 | 15.92 | 126.5 | 15.15 | 123.8 | 14.47 | 120.6 | 13.82 | 113.9 | 12.49 |
| | | 327.0 | 135.4 | 15.53 | 130.6 | 15.01 | 126.5 | 14.47 | 123.8 | 13.82 | 120.6 | 13.18 | 113.9 | 12.19 |
| | | 408.8 | 135.4 | 15.32 | 130.6 | 14.73 | 126.5 | 14.47 | 123.8 | 13.82 | 120.6 | 13.18 | 113.9 | 11.85 |
| | | 490.5 | 135.4 | 15.22 | 130.6 | 14.59 | 126.5 | 14.47 | 123.8 | 13.82 | 120.6 | 13.18 | 113.9 | 11.67 |
| 110 | -5 | 130.8 | 45.6 | 20.94 | 45.2 | 19.46 | 44.9 | 18.12 | 44.5 | 17.35 | 44.6 | 16.86 | 43.6 | 15.08 |
| | | 163.5 | 47.2 | 21.31 | 46.9 | 19.84 | 46.6 | 18.51 | 46.0 | 17.74 | 46.2 | 17.22 | 45.2 | 15.42 |
| | | 327.0 | 53.3 | 22.73 | 53.0 | 21.35 | 52.7 | 20.09 | 52.1 | 19.22 | 52.1 | 18.69 | 51.0 | 16.75 |
| | | 408.8 | 58.8 | 24.20 | 58.5 | 22.80 | 58.2 | 21.64 | 57.5 | 20.76 | 57.5 | 20.16 | 56.4 | 18.03 |
| | | 490.5 | 61.6 | 24.93 | 61.2 | 23.53 | 60.9 | 22.44 | 60.2 | 21.53 | 60.2 | 20.89 | 59.1 | 18.69 |
| | 0 | 130.8 | 81.3 | 28.65 | 79.6 | 27.42 | 77.9 | 26.54 | 76.5 | 25.42 | 75.8 | 24.71 | 72.8 | 22.09 |
| | | 163.5 | 81.9 | 28.72 | 80.2 | 27.49 | 78.5 | 26.61 | 76.9 | 25.49 | 76.2 | 24.78 | 73.4 | 22.16 |
| | | 327.0 | 83.7 | 29.00 | 82.0 | 27.77 | 80.2 | 26.92 | 78.6 | 25.80 | 77.9 | 25.04 | 75.1 | 22.44 |
| | | 408.8 | 85.0 | 29.00 | 83.3 | 27.77 | 81.6 | 26.92 | 79.9 | 25.80 | 79.2 | 25.04 | 76.1 | 22.44 |
| | | 490.5 | 85.7 | 29.00 | 84.0 | 27.77 | 82.2 | 26.92 | 80.5 | 25.80 | 79.9 | 25.04 | 76.6 | 22.44 |
| | 5 | 130.8 | 118.7 | 30.79 | 115.9 | 29.63 | 113.2 | 28.89 | 110.8 | 27.66 | 106.4 | 26.89 | 101.3 | 24.08 |
| | | 163.5 | 119.1 | 30.93 | 116.2 | 29.77 | 113.2 | 29.03 | 110.8 | 27.81 | 106.4 | 27.03 | 101.3 | 24.20 |
| | | 327.0 | 120.7 | 31.48 | 117.0 | 30.33 | 113.3 | 29.62 | 110.8 | 28.39 | 106.4 | 27.56 | 101.3 | 24.68 |
| | | 408.8 | 121.4 | 31.69 | 117.3 | 30.53 | 113.3 | 29.81 | 110.8 | 28.58 | 106.4 | 27.77 | 101.3 | 24.85 |
| | | 490.5 | 121.8 | 31.80 | 117.6 | 30.64 | 113.3 | 29.91 | 110.8 | 28.69 | 106.4 | 27.87 | 101.3 | 24.93 |
| | 10 | 130.8 | 119.3 | 27.62 | 116.3 | 26.68 | 113.2 | 26.09 | 110.5 | 25.21 | 106.1 | 24.40 | 101.0 | 21.92 |
| | | 163.5 | 119.7 | 27.67 | 116.6 | 26.75 | 113.2 | 26.16 | 110.8 | 25.25 | 106.4 | 24.37 | 101.3 | 21.95 |
| | | 327.0 | 121.4 | 27.87 | 117.7 | 27.06 | 113.9 | 26.47 | 111.5 | 25.39 | 107.1 | 24.30 | 101.7 | 22.05 |
| | | 408.8 | 122.1 | 27.87 | 118.3 | 27.06 | 114.3 | 26.41 | 111.5 | 25.32 | 107.4 | 24.40 | 102.0 | 22.30 |
| | | 490.5 | 122.4 | 27.87 | 118.6 | 27.06 | 114.6 | 26.37 | 111.6 | 25.28 | 107.4 | 24.45 | 102.1 | 22.41 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Heating Capacity(34HP)

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 130.8 | 119.6 | 24.44 | 116.3 | 23.77 | 112.9 | 23.35 | 110.4 | 22.79 | 106.1 | 21.88 | 101.0 | 19.82 |
| | | 163.5 | 120.0 | 24.40 | 116.9 | 23.77 | 113.3 | 23.35 | 110.8 | 22.69 | 106.4 | 21.71 | 101.3 | 19.74 |
| | | 327.0 | 122.1 | 24.26 | 118.6 | 23.77 | 114.6 | 23.35 | 111.9 | 22.37 | 107.8 | 21.07 | 102.3 | 19.39 |
| | | 408.8 | 122.7 | 24.09 | 119.1 | 23.56 | 115.3 | 23.04 | 112.5 | 22.05 | 108.1 | 21.07 | 102.7 | 19.74 |
| | | 490.5 | 123.1 | 24.01 | 119.4 | 23.45 | 115.6 | 22.89 | 112.6 | 21.91 | 108.2 | 21.07 | 103.1 | 19.91 |
| | 20 | 130.8 | 121.7 | 21.10 | 118.4 | 20.59 | 114.6 | 20.09 | 111.5 | 19.74 | 107.5 | 19.18 | 101.7 | 17.95 |
| | | 163.5 | 122.4 | 21.14 | 118.9 | 20.59 | 114.9 | 20.09 | 111.9 | 19.74 | 107.8 | 19.10 | 102.3 | 17.91 |
| | | 327.0 | 125.1 | 21.31 | 120.4 | 20.59 | 116.3 | 20.09 | 113.6 | 19.74 | 109.1 | 18.76 | 103.7 | 17.77 |
| | | 408.8 | 125.8 | 21.31 | 121.4 | 20.59 | 117.0 | 20.09 | 113.9 | 19.39 | 109.8 | 18.76 | 104.1 | 17.77 |
| | | 490.5 | 126.1 | 21.31 | 122.0 | 20.59 | 117.3 | 20.09 | 114.2 | 19.22 | 110.1 | 18.76 | 104.3 | 17.77 |
| | 25 | 130.8 | 125.5 | 19.19 | 121.8 | 18.48 | 117.0 | 18.20 | 114.3 | 17.50 | 110.5 | 16.86 | 104.4 | 15.46 |
| | | 163.5 | 125.8 | 19.15 | 121.8 | 18.41 | 117.0 | 18.10 | 114.3 | 17.43 | 110.5 | 16.79 | 104.4 | 15.46 |
| | | 327.0 | 126.8 | 19.03 | 121.8 | 18.10 | 117.0 | 17.77 | 114.3 | 17.11 | 110.5 | 16.44 | 104.4 | 15.46 |
| | | 408.8 | 127.5 | 19.03 | 121.8 | 18.17 | 117.0 | 17.43 | 114.3 | 17.11 | 110.5 | 16.13 | 104.4 | 15.15 |
| | | 490.5 | 127.8 | 19.03 | 121.8 | 18.20 | 117.0 | 17.25 | 114.3 | 17.11 | 110.5 | 15.98 | 104.4 | 15.00 |
| | 30 | 130.8 | 127.5 | 17.50 | 121.8 | 16.86 | 117.0 | 16.23 | 114.3 | 15.88 | 110.5 | 14.90 | 104.4 | 13.91 |
| | | 163.5 | 127.5 | 17.43 | 121.8 | 16.79 | 117.0 | 16.13 | 114.3 | 15.78 | 110.5 | 14.80 | 104.4 | 13.82 |
| | | 327.0 | 127.5 | 17.11 | 121.8 | 16.44 | 117.0 | 15.78 | 114.3 | 15.46 | 110.5 | 14.47 | 104.4 | 13.47 |
| | | 408.8 | 127.5 | 16.98 | 121.8 | 16.13 | 117.0 | 15.46 | 114.3 | 15.15 | 110.5 | 14.47 | 104.4 | 13.47 |
| | | 490.5 | 127.5 | 16.91 | 121.8 | 15.98 | 117.0 | 15.28 | 114.3 | 15.00 | 110.5 | 14.47 | 104.4 | 13.47 |
| | 35 | 130.8 | 127.5 | 16.61 | 121.8 | 15.53 | 117.0 | 14.90 | 114.3 | 14.24 | 110.5 | 13.56 | 104.4 | 12.56 |
| | | 163.5 | 127.5 | 16.44 | 121.8 | 15.46 | 117.0 | 14.80 | 114.3 | 14.16 | 110.5 | 13.47 | 104.4 | 12.49 |
| | | 327.0 | 127.5 | 15.78 | 121.8 | 15.15 | 117.0 | 14.47 | 114.3 | 13.82 | 110.5 | 13.18 | 104.4 | 12.19 |
| | | 408.8 | 127.5 | 15.39 | 121.8 | 14.80 | 117.0 | 14.16 | 114.3 | 13.82 | 110.5 | 13.18 | 104.4 | 12.19 |
| | | 490.5 | 127.5 | 15.18 | 121.8 | 14.63 | 117.0 | 14.00 | 114.3 | 13.82 | 110.5 | 13.18 | 104.4 | 12.19 |
| | 40 | 130.8 | 127.5 | 15.61 | 121.8 | 14.97 | 117.0 | 13.99 | 114.3 | 13.26 | 110.5 | 12.56 | 104.4 | 11.58 |
| | | 163.5 | 127.5 | 15.46 | 121.8 | 14.80 | 117.0 | 13.82 | 114.3 | 13.18 | 110.5 | 12.49 | 104.4 | 11.50 |
| | | 327.0 | 127.5 | 14.80 | 121.8 | 14.16 | 117.0 | 13.18 | 114.3 | 12.83 | 110.5 | 12.19 | 104.4 | 11.19 |
| | | 408.8 | 127.5 | 14.59 | 121.8 | 13.82 | 117.0 | 13.18 | 114.3 | 12.49 | 110.5 | 11.85 | 104.4 | 10.86 |
| | | 490.5 | 127.5 | 14.49 | 121.8 | 13.64 | 117.0 | 13.18 | 114.3 | 12.31 | 110.5 | 11.67 | 104.4 | 10.69 |
| | 45 | 130.8 | 127.5 | 14.62 | 121.8 | 14.41 | 117.0 | 13.08 | 114.3 | 12.27 | 110.5 | 11.58 | 104.4 | 10.59 |
| | | 163.5 | 127.5 | 14.47 | 121.8 | 14.16 | 117.0 | 12.83 | 114.3 | 12.19 | 110.5 | 11.50 | 104.4 | 10.52 |
| | | 327.0 | 127.5 | 13.82 | 121.8 | 13.18 | 117.0 | 11.85 | 114.3 | 11.85 | 110.5 | 11.19 | 104.4 | 10.21 |
| | | 408.8 | 127.5 | 13.82 | 121.8 | 12.83 | 117.0 | 12.19 | 114.3 | 11.19 | 110.5 | 10.52 | 104.4 | 9.53 |
| | | 490.5 | 127.5 | 13.82 | 121.8 | 12.66 | 117.0 | 12.35 | 114.3 | 10.87 | 110.5 | 10.17 | 104.4 | 9.19 |
| 100 | -5 | 130.8 | 43.1 | 20.94 | 42.8 | 19.74 | 42.5 | 18.12 | 42.2 | 17.35 | 41.8 | 16.58 | 41.1 | 15.08 |
| | | 163.5 | 44.5 | 21.31 | 44.2 | 20.12 | 44.1 | 18.51 | 43.6 | 17.74 | 43.2 | 16.94 | 42.5 | 15.42 |
| | | 327.0 | 50.4 | 22.73 | 50.0 | 21.60 | 49.9 | 20.09 | 49.3 | 19.22 | 48.9 | 18.41 | 48.2 | 16.75 |
| | | 408.8 | 55.7 | 24.20 | 55.4 | 23.11 | 55.0 | 21.64 | 54.4 | 20.76 | 54.1 | 19.84 | 53.1 | 18.03 |
| | | 490.5 | 58.4 | 24.93 | 57.8 | 23.87 | 57.5 | 22.44 | 57.1 | 21.53 | 56.8 | 20.55 | 55.7 | 18.69 |
| | 0 | 130.8 | 76.9 | 28.65 | 75.2 | 27.80 | 73.7 | 26.54 | 72.4 | 25.42 | 71.1 | 24.33 | 68.7 | 22.09 |
| | | 163.5 | 77.5 | 28.72 | 75.8 | 27.87 | 74.1 | 26.61 | 72.8 | 25.49 | 71.5 | 24.40 | 69.0 | 22.16 |
| | | 327.0 | 79.2 | 29.00 | 77.5 | 28.15 | 75.8 | 26.92 | 74.5 | 25.80 | 73.2 | 24.68 | 70.7 | 22.44 |
| | | 408.8 | 80.3 | 29.00 | 78.6 | 28.15 | 77.1 | 26.92 | 75.5 | 25.80 | 74.4 | 24.68 | 71.7 | 22.44 |
| | | 490.5 | 81.0 | 29.00 | 79.3 | 28.15 | 77.6 | 26.92 | 76.2 | 25.80 | 74.8 | 24.68 | 72.4 | 22.44 |
| | 5 | 130.8 | 113.6 | 30.79 | 109.8 | 30.05 | 107.0 | 28.89 | 104.8 | 27.66 | 99.9 | 26.47 | 95.2 | 24.08 |
| | | 163.5 | 113.9 | 30.93 | 109.9 | 30.19 | 107.1 | 29.03 | 104.8 | 27.81 | 99.9 | 26.61 | 95.2 | 24.20 |
| | | 327.0 | 115.6 | 31.48 | 110.8 | 30.74 | 107.1 | 29.62 | 104.8 | 28.39 | 99.9 | 27.17 | 95.2 | 24.68 |
| | | 408.8 | 116.3 | 31.69 | 111.1 | 30.93 | 107.1 | 29.81 | 104.8 | 28.58 | 99.9 | 27.32 | 95.2 | 24.85 |
| | | 490.5 | 116.6 | 31.80 | 111.2 | 31.03 | 107.1 | 29.91 | 104.8 | 28.69 | 99.9 | 27.42 | 95.2 | 24.93 |
| | 10 | 130.8 | 114.2 | 27.53 | 110.2 | 26.93 | 107.1 | 26.09 | 104.8 | 25.21 | 99.9 | 23.98 | 95.2 | 21.92 |
| | | 163.5 | 114.5 | 27.67 | 110.2 | 27.03 | 107.1 | 26.16 | 104.8 | 25.25 | 99.9 | 23.99 | 95.2 | 21.95 |
| | | 327.0 | 115.6 | 28.19 | 110.9 | 27.36 | 107.1 | 26.47 | 104.8 | 25.39 | 99.9 | 24.09 | 95.2 | 22.05 |
| | | 408.8 | 116.3 | 28.08 | 111.5 | 27.36 | 107.1 | 26.41 | 104.8 | 25.32 | 99.9 | 24.02 | 95.2 | 21.95 |
| | | 490.5 | 116.7 | 28.02 | 111.6 | 27.36 | 107.1 | 26.37 | 104.8 | 25.28 | 99.9 | 23.99 | 95.2 | 21.91 |
| | 15 | 130.8 | 114.9 | 24.29 | 110.5 | 23.88 | 107.1 | 23.35 | 104.8 | 22.79 | 99.9 | 21.46 | 95.2 | 19.82 |
| | | 163.5 | 114.9 | 24.40 | 110.8 | 23.88 | 107.1 | 23.35 | 104.8 | 22.69 | 99.9 | 21.38 | 95.2 | 19.74 |
| | | 327.0 | 115.6 | 24.89 | 110.9 | 23.95 | 107.1 | 23.35 | 104.8 | 22.37 | 99.9 | 21.07 | 95.2 | 19.39 |
| | | 408.8 | 116.6 | 24.47 | 111.5 | 23.77 | 107.1 | 23.04 | 104.8 | 22.05 | 99.9 | 20.72 | 95.2 | 19.10 |
| | | 490.5 | 117.0 | 24.26 | 111.9 | 23.66 | 107.1 | 22.89 | 104.8 | 21.91 | 99.9 | 20.55 | 95.2 | 18.94 |
| | 20 | 130.8 | 115.5 | 20.76 | 111.2 | 20.23 | 107.1 | 19.74 | 104.8 | 19.47 | 99.9 | 18.20 | 95.2 | 17.29 |
| | | 163.5 | 115.9 | 20.86 | 111.2 | 20.26 | 107.1 | 19.74 | 104.8 | 19.39 | 99.9 | 18.10 | 95.2 | 17.11 |
| | | 327.0 | 117.6 | 21.24 | 111.5 | 20.33 | 107.1 | 19.74 | 104.8 | 19.10 | 99.9 | 17.77 | 95.2 | 16.44 |
| | | 408.8 | 118.3 | 20.86 | 112.6 | 20.16 | 107.1 | 19.39 | 104.8 | 18.76 | 99.9 | 17.43 | 95.2 | 16.13 |
| | | 490.5 | 118.6 | 20.68 | 113.2 | 20.06 | 107.1 | 19.22 | 104.8 | 18.58 | 99.9 | 17.25 | 95.2 | 15.98 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 130.8 | 116.9 | 18.16 | 112.9 | 17.60 | 107.1 | 16.86 | 104.8 | 16.23 | 99.9 | 15.22 | 95.2 | 13.82 |
| | | 163.5 | 117.3 | 18.17 | 112.9 | 17.50 | 107.1 | 16.79 | 104.8 | 16.13 | 99.9 | 15.15 | 95.2 | 13.82 |
| | | 327.0 | 119.0 | 18.24 | 112.9 | 17.11 | 107.1 | 16.44 | 104.8 | 15.78 | 99.9 | 14.80 | 95.2 | 13.82 |
| | | 408.8 | 119.6 | 17.84 | 112.9 | 16.98 | 107.1 | 16.13 | 104.8 | 15.46 | 99.9 | 14.80 | 95.2 | 13.47 |
| | | 490.5 | 120.0 | 17.63 | 112.9 | 16.91 | 107.1 | 15.98 | 104.8 | 15.28 | 99.9 | 14.80 | 95.2 | 13.32 |
| | 30 | 130.8 | 119.6 | 16.52 | 112.9 | 15.22 | 107.1 | 14.20 | 104.8 | 13.91 | 99.9 | 12.83 | 95.2 | 12.27 |
| | | 163.5 | 119.6 | 16.44 | 112.9 | 15.15 | 107.1 | 14.16 | 104.8 | 13.82 | 99.9 | 12.83 | 95.2 | 12.19 |
| | | 327.0 | 119.6 | 16.13 | 112.9 | 14.80 | 107.1 | 14.02 | 104.8 | 13.47 | 99.9 | 12.83 | 95.2 | 11.85 |
| | | 408.8 | 119.6 | 15.78 | 112.9 | 14.80 | 107.1 | 13.82 | 104.8 | 13.47 | 99.9 | 12.49 | 95.2 | 11.85 |
| | | 490.5 | 119.6 | 15.63 | 112.9 | 14.80 | 107.1 | 13.71 | 104.8 | 13.47 | 99.9 | 12.31 | 95.2 | 11.85 |
| | 35 | 130.8 | 119.6 | 15.32 | 112.9 | 13.99 | 107.1 | 12.52 | 104.8 | 12.27 | 99.9 | 11.58 | 95.2 | 10.59 |
| | | 163.5 | 119.6 | 15.15 | 112.9 | 13.82 | 107.1 | 12.49 | 104.8 | 12.19 | 99.9 | 11.50 | 95.2 | 10.52 |
| | | 327.0 | 119.6 | 14.47 | 112.9 | 13.18 | 107.1 | 12.35 | 104.8 | 11.85 | 99.9 | 11.19 | 95.2 | 10.21 |
| | | 408.8 | 119.6 | 14.47 | 112.9 | 13.18 | 107.1 | 12.19 | 104.8 | 11.85 | 99.9 | 11.19 | 95.2 | 10.21 |
| | | 490.5 | 119.6 | 14.47 | 112.9 | 13.18 | 107.1 | 12.10 | 104.8 | 11.85 | 99.9 | 11.19 | 95.2 | 10.21 |
| | 40 | 130.8 | 119.6 | 14.34 | 112.9 | 13.00 | 107.1 | 11.22 | 104.8 | 10.94 | 99.9 | 10.30 | 95.2 | 9.61 |
| | | 163.5 | 119.6 | 14.16 | 112.9 | 12.83 | 107.1 | 11.19 | 104.8 | 10.86 | 99.9 | 10.21 | 95.2 | 9.53 |
| | | 327.0 | 119.6 | 13.47 | 112.9 | 12.19 | 107.1 | 11.05 | 104.8 | 10.52 | 99.9 | 9.88 | 95.2 | 9.22 |
| | | 408.8 | 119.6 | 13.18 | 112.9 | 12.19 | 107.1 | 10.86 | 104.8 | 10.52 | 99.9 | 9.88 | 95.2 | 9.22 |
| | | 490.5 | 119.6 | 13.01 | 112.9 | 12.19 | 107.1 | 10.76 | 104.8 | 10.52 | 99.9 | 9.88 | 95.2 | 9.22 |
| | 45 | 130.8 | 119.6 | 13.35 | 112.9 | 12.00 | 107.1 | 9.89 | 104.8 | 9.61 | 99.9 | 8.97 | 95.2 | 8.62 |
| | | 163.5 | 119.6 | 13.18 | 112.9 | 11.85 | 107.1 | 9.88 | 104.8 | 9.53 | 99.9 | 8.88 | 95.2 | 8.55 |
| | | 327.0 | 119.6 | 12.49 | 112.9 | 11.19 | 107.1 | 9.74 | 104.8 | 9.22 | 99.9 | 8.55 | 95.2 | 8.24 |
| | | 408.8 | 119.6 | 11.85 | 112.9 | 11.19 | 107.1 | 9.53 | 104.8 | 9.22 | 99.9 | 8.55 | 95.2 | 8.24 |
| | | 490.5 | 119.6 | 11.53 | 112.9 | 11.19 | 107.1 | 9.43 | 104.8 | 9.22 | 99.9 | 8.55 | 95.2 | 8.24 |
| 90 | -5 | 130.8 | 40.7 | 19.43 | 39.4 | 17.70 | 38.1 | 15.56 | 38.0 | 14.83 | 37.7 | 14.28 | 37.0 | 12.83 |
| | | 163.5 | 42.1 | 19.77 | 40.8 | 18.03 | 39.5 | 15.89 | 39.2 | 15.15 | 39.0 | 14.59 | 38.4 | 13.11 |
| | | 327.0 | 47.6 | 21.10 | 46.2 | 19.36 | 44.8 | 17.25 | 44.5 | 16.44 | 44.2 | 15.85 | 43.2 | 14.23 |
| | | 408.8 | 52.7 | 22.44 | 51.0 | 20.72 | 49.3 | 18.62 | 49.0 | 17.74 | 48.7 | 17.08 | 47.9 | 15.35 |
| | | 490.5 | 55.1 | 23.10 | 53.4 | 21.42 | 51.7 | 19.31 | 51.3 | 18.38 | 51.0 | 17.70 | 50.0 | 15.92 |
| | 0 | 130.8 | 72.7 | 26.47 | 69.4 | 24.85 | 66.2 | 22.82 | 65.2 | 21.75 | 64.0 | 20.94 | 61.6 | 18.80 |
| | | 163.5 | 73.1 | 26.54 | 69.7 | 24.92 | 66.6 | 22.87 | 65.6 | 21.81 | 64.5 | 21.00 | 62.2 | 18.86 |
| | | 327.0 | 74.8 | 26.82 | 71.4 | 25.18 | 68.1 | 23.11 | 67.0 | 22.05 | 66.0 | 21.24 | 63.6 | 19.07 |
| | | 408.8 | 75.9 | 26.82 | 72.4 | 25.18 | 69.3 | 23.11 | 68.0 | 22.05 | 67.0 | 21.24 | 64.6 | 19.07 |
| | | 490.5 | 76.5 | 26.82 | 73.1 | 25.18 | 69.7 | 23.11 | 68.6 | 22.05 | 67.6 | 21.24 | 65.0 | 19.07 |
| | 5 | 130.8 | 102.7 | 28.43 | 99.3 | 26.82 | 96.2 | 24.83 | 94.2 | 23.67 | 90.1 | 22.79 | 85.7 | 20.45 |
| | | 163.5 | 102.7 | 28.55 | 99.3 | 26.96 | 96.2 | 24.96 | 94.2 | 23.80 | 90.1 | 22.90 | 85.7 | 20.55 |
| | | 327.0 | 103.3 | 29.07 | 99.0 | 27.46 | 96.2 | 25.42 | 94.2 | 24.26 | 90.1 | 23.38 | 85.7 | 20.97 |
| | | 408.8 | 103.7 | 29.24 | 99.3 | 27.63 | 96.2 | 25.63 | 94.2 | 24.44 | 90.1 | 23.56 | 85.7 | 21.14 |
| | | 490.5 | 104.1 | 29.32 | 99.6 | 27.73 | 96.2 | 25.73 | 94.2 | 24.51 | 90.1 | 23.63 | 85.7 | 21.22 |
| | 10 | 130.8 | 103.3 | 25.10 | 99.7 | 23.87 | 96.2 | 22.47 | 94.2 | 21.56 | 90.1 | 20.68 | 85.7 | 18.62 |
| | | 163.5 | 103.3 | 25.11 | 99.6 | 23.88 | 96.2 | 22.50 | 94.2 | 21.57 | 90.1 | 20.65 | 85.7 | 18.65 |
| | | 327.0 | 103.0 | 25.18 | 99.2 | 23.99 | 96.2 | 22.61 | 94.2 | 21.67 | 90.1 | 20.59 | 85.7 | 18.72 |
| | | 408.8 | 103.7 | 25.11 | 99.3 | 23.92 | 96.2 | 22.54 | 94.2 | 21.60 | 90.1 | 20.65 | 85.7 | 18.79 |
| | | 490.5 | 104.0 | 25.08 | 99.6 | 23.88 | 96.2 | 22.50 | 94.2 | 21.57 | 90.1 | 20.69 | 85.7 | 18.83 |
| | 15 | 130.8 | 103.7 | 21.74 | 100.0 | 20.94 | 96.2 | 20.16 | 94.2 | 19.47 | 90.1 | 18.58 | 85.7 | 16.86 |
| | | 163.5 | 103.7 | 21.64 | 99.9 | 20.86 | 96.2 | 20.09 | 94.2 | 19.39 | 90.1 | 18.41 | 85.7 | 16.79 |
| | | 327.0 | 103.0 | 21.31 | 99.3 | 20.52 | 96.2 | 19.74 | 94.2 | 19.10 | 90.1 | 17.77 | 85.7 | 16.44 |
| | | 408.8 | 103.7 | 21.00 | 99.6 | 20.22 | 96.2 | 19.39 | 94.2 | 18.76 | 90.1 | 17.77 | 85.7 | 16.44 |
| | | 490.5 | 104.0 | 20.85 | 99.6 | 20.06 | 96.2 | 19.22 | 94.2 | 18.58 | 90.1 | 17.77 | 85.7 | 16.44 |
| | 20 | 130.8 | 104.4 | 18.34 | 100.6 | 17.81 | 96.2 | 17.21 | 94.2 | 16.52 | 90.1 | 15.95 | 85.7 | 14.97 |
| | | 163.5 | 104.4 | 18.34 | 100.3 | 17.77 | 96.2 | 17.11 | 94.2 | 16.44 | 90.1 | 15.78 | 85.7 | 14.80 |
| | | 327.0 | 104.0 | 18.34 | 99.6 | 17.56 | 96.2 | 16.79 | 94.2 | 16.13 | 90.1 | 15.15 | 85.7 | 14.16 |
| | | 408.8 | 104.3 | 18.03 | 99.9 | 17.43 | 96.2 | 16.79 | 94.2 | 16.13 | 90.1 | 15.15 | 85.7 | 14.16 |
| | | 490.5 | 104.4 | 17.88 | 100.0 | 17.36 | 96.2 | 16.79 | 94.2 | 16.13 | 90.1 | 15.15 | 85.7 | 14.16 |
| | 25 | 130.8 | 106.1 | 16.03 | 101.7 | 15.18 | 96.2 | 14.55 | 94.2 | 13.82 | 90.1 | 13.26 | 85.7 | 12.27 |
| | | 163.5 | 106.4 | 15.99 | 101.7 | 15.15 | 96.2 | 14.47 | 94.2 | 13.82 | 90.1 | 13.18 | 85.7 | 12.19 |
| | | 327.0 | 107.4 | 15.85 | 101.7 | 15.01 | 96.2 | 14.16 | 94.2 | 13.82 | 90.1 | 12.83 | 85.7 | 11.85 |
| | | 408.8 | 107.8 | 15.46 | 101.7 | 14.66 | 96.2 | 14.16 | 94.2 | 13.47 | 90.1 | 12.83 | 85.7 | 11.85 |
| | | 490.5 | 108.1 | 15.25 | 101.7 | 14.49 | 96.2 | 14.16 | 94.2 | 13.32 | 90.1 | 12.83 | 85.7 | 11.85 |
| | 30 | 130.8 | 107.8 | 14.55 | 101.7 | 13.56 | 96.2 | 12.56 | 94.2 | 12.27 | 90.1 | 11.58 | 85.7 | 10.52 |
| | | 163.5 | 107.8 | 14.47 | 101.7 | 13.47 | 96.2 | 12.49 | 94.2 | 12.19 | 90.1 | 11.50 | 85.7 | 10.52 |
| | | 327.0 | 107.8 | 14.16 | 101.7 | 13.18 | 96.2 | 12.19 | 94.2 | 11.85 | 90.1 | 11.19 | 85.7 | 10.52 |
| | | 408.8 | 107.8 | 13.82 | 101.7 | 12.83 | 96.2 | 12.19 | 94.2 | 11.85 | 90.1 | 11.19 | 85.7 | 10.21 |
| | | 490.5 | 107.8 | 13.64 | 101.7 | 12.66 | 96.2 | 12.19 | 94.2 | 11.85 | 90.1 | 11.19 | 85.7 | 10.06 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 130.8 | 107.8 | 13.26 | 101.7 | 12.27 | 96.2 | 11.29 | 94.2 | 10.94 | 90.1 | 10.30 | 85.7 | 9.61 |
| | | 163.5 | 107.8 | 13.18 | 101.7 | 12.19 | 96.2 | 11.19 | 94.2 | 10.86 | 90.1 | 10.21 | 85.7 | 9.53 |
| | | 327.0 | 107.8 | 12.83 | 101.7 | 11.85 | 96.2 | 10.86 | 94.2 | 10.52 | 90.1 | 9.88 | 85.7 | 9.22 |
| | | 408.8 | 107.8 | 12.49 | 101.7 | 11.50 | 96.2 | 10.52 | 94.2 | 10.21 | 90.1 | 9.88 | 85.7 | 9.22 |
| | | 490.5 | 107.8 | 12.31 | 101.7 | 11.33 | 96.2 | 10.34 | 94.2 | 10.06 | 90.1 | 9.88 | 85.7 | 9.22 |
| | 40 | 130.8 | 107.8 | 12.35 | 101.7 | 11.29 | 96.2 | 9.96 | 94.2 | 9.61 | 90.1 | 9.32 | 85.7 | 8.62 |
| | | 163.5 | 107.8 | 12.19 | 101.7 | 11.19 | 96.2 | 9.88 | 94.2 | 9.53 | 90.1 | 9.22 | 85.7 | 8.55 |
| | | 327.0 | 107.8 | 11.50 | 101.7 | 10.86 | 96.2 | 9.53 | 94.2 | 9.22 | 90.1 | 8.88 | 85.7 | 8.24 |
| | | 408.8 | 107.8 | 11.50 | 101.7 | 10.86 | 96.2 | 9.53 | 94.2 | 9.22 | 90.1 | 8.88 | 85.7 | 8.24 |
| | | 490.5 | 107.8 | 11.50 | 101.7 | 10.86 | 96.2 | 9.53 | 94.2 | 9.22 | 90.1 | 8.88 | 85.7 | 8.24 |
| | 45 | 130.8 | 107.8 | 11.44 | 101.7 | 10.30 | 96.2 | 8.62 | 94.2 | 8.32 | 90.1 | 8.32 | 85.7 | 7.64 |
| | | 163.5 | 107.8 | 11.19 | 101.7 | 10.21 | 96.2 | 8.55 | 94.2 | 8.24 | 90.1 | 8.24 | 85.7 | 7.55 |
| | | 327.0 | 107.8 | 10.21 | 101.7 | 9.88 | 96.2 | 8.24 | 94.2 | 7.89 | 90.1 | 7.89 | 85.7 | 7.25 |
| | | 408.8 | 107.8 | 10.52 | 101.7 | 10.21 | 96.2 | 8.55 | 94.2 | 8.24 | 90.1 | 7.89 | 85.7 | 7.25 |
| | | 490.5 | 107.8 | 10.66 | 101.7 | 10.38 | 96.2 | 8.70 | 94.2 | 8.41 | 90.1 | 7.89 | 85.7 | 7.25 |
| 80 | -5 | 130.8 | 38.4 | 13.85 | 36.0 | 13.32 | 34.0 | 12.76 | 33.7 | 12.34 | 33.6 | 11.75 | 32.9 | 10.83 |
| | | 163.5 | 39.8 | 14.16 | 37.3 | 13.61 | 35.3 | 13.04 | 35.0 | 12.59 | 34.7 | 12.02 | 34.0 | 11.05 |
| | | 327.0 | 44.9 | 15.39 | 42.2 | 14.77 | 39.8 | 14.13 | 39.4 | 13.64 | 39.2 | 13.04 | 38.4 | 11.99 |
| | | 408.8 | 49.7 | 16.58 | 46.6 | 15.92 | 44.1 | 15.25 | 43.5 | 14.73 | 43.2 | 14.06 | 42.5 | 12.94 |
| | | 490.5 | 52.1 | 17.18 | 48.7 | 16.51 | 46.2 | 15.81 | 45.6 | 15.29 | 45.5 | 14.58 | 44.5 | 13.42 |
| | 0 | 130.8 | 68.7 | 20.33 | 63.3 | 19.50 | 58.9 | 18.69 | 57.8 | 18.06 | 57.1 | 17.21 | 54.8 | 15.85 |
| | | 163.5 | 69.0 | 20.38 | 63.6 | 19.57 | 59.2 | 18.76 | 58.2 | 18.10 | 57.4 | 17.25 | 55.1 | 15.89 |
| | | 327.0 | 70.7 | 20.62 | 65.2 | 19.81 | 60.6 | 18.96 | 59.5 | 18.31 | 58.8 | 17.46 | 56.5 | 16.06 |
| | | 408.8 | 71.7 | 20.62 | 66.2 | 19.81 | 61.6 | 18.96 | 60.5 | 18.31 | 59.8 | 17.46 | 57.4 | 16.06 |
| | | 490.5 | 72.1 | 20.62 | 66.6 | 19.81 | 62.2 | 18.96 | 60.9 | 18.31 | 60.2 | 17.46 | 57.8 | 16.06 |
| | 5 | 130.8 | 94.9 | 22.10 | 89.5 | 21.28 | 85.7 | 20.30 | 83.7 | 19.64 | 80.2 | 18.72 | 76.2 | 17.22 |
| | | 163.5 | 95.2 | 22.23 | 89.8 | 21.38 | 85.7 | 20.41 | 83.7 | 19.74 | 80.2 | 18.83 | 76.2 | 17.32 |
| | | 327.0 | 95.9 | 22.69 | 90.4 | 21.78 | 85.7 | 20.86 | 83.7 | 20.16 | 80.2 | 19.19 | 76.2 | 17.70 |
| | | 408.8 | 95.9 | 22.83 | 90.4 | 21.95 | 85.7 | 21.00 | 83.7 | 20.29 | 80.2 | 19.32 | 76.2 | 17.81 |
| | | 490.5 | 95.9 | 22.90 | 90.4 | 22.05 | 85.7 | 21.07 | 83.7 | 20.34 | 80.2 | 19.39 | 76.2 | 17.85 |
| | 10 | 130.8 | 95.5 | 20.34 | 90.0 | 19.42 | 85.7 | 18.44 | 83.7 | 17.92 | 80.2 | 16.97 | 76.2 | 15.71 |
| | | 163.5 | 95.5 | 20.33 | 90.1 | 19.39 | 85.7 | 18.44 | 83.7 | 17.95 | 80.2 | 16.98 | 76.2 | 15.71 |
| | | 327.0 | 95.9 | 20.22 | 90.4 | 19.29 | 85.7 | 18.48 | 83.7 | 17.98 | 80.2 | 17.01 | 76.2 | 15.75 |
| | | 408.8 | 95.9 | 20.16 | 90.4 | 19.36 | 85.7 | 18.55 | 83.7 | 17.88 | 80.2 | 16.91 | 76.2 | 15.67 |
| | | 490.5 | 95.9 | 20.12 | 90.4 | 19.39 | 85.7 | 18.58 | 83.7 | 17.81 | 80.2 | 16.86 | 76.2 | 15.60 |
| | 15 | 130.8 | 95.9 | 18.58 | 90.4 | 17.60 | 85.7 | 16.52 | 83.7 | 16.23 | 80.2 | 15.22 | 76.2 | 14.24 |
| | | 163.5 | 95.9 | 18.41 | 90.4 | 17.43 | 85.7 | 16.44 | 83.7 | 16.13 | 80.2 | 15.15 | 76.2 | 14.16 |
| | | 327.0 | 95.9 | 17.77 | 90.4 | 16.79 | 85.7 | 16.13 | 83.7 | 15.78 | 80.2 | 14.80 | 76.2 | 13.82 |
| | | 408.8 | 95.9 | 17.43 | 90.4 | 16.79 | 85.7 | 16.13 | 83.7 | 15.46 | 80.2 | 14.47 | 76.2 | 13.47 |
| | | 490.5 | 95.9 | 17.25 | 90.4 | 16.79 | 85.7 | 16.13 | 83.7 | 15.28 | 80.2 | 14.30 | 76.2 | 13.32 |
| | 20 | 130.8 | 95.9 | 15.53 | 90.4 | 14.90 | 85.7 | 14.16 | 83.7 | 13.91 | 80.2 | 13.26 | 76.2 | 12.27 |
| | | 163.5 | 95.9 | 15.46 | 90.4 | 14.80 | 85.7 | 14.16 | 83.7 | 13.82 | 80.2 | 13.18 | 76.2 | 12.19 |
| | | 327.0 | 95.9 | 15.15 | 90.4 | 14.47 | 85.7 | 14.16 | 83.7 | 13.47 | 80.2 | 12.83 | 76.2 | 11.85 |
| | | 408.8 | 95.9 | 14.80 | 90.4 | 14.16 | 85.7 | 13.82 | 83.7 | 13.47 | 80.2 | 12.49 | 76.2 | 11.85 |
| | | 490.5 | 95.9 | 14.63 | 90.4 | 14.00 | 85.7 | 13.64 | 83.7 | 13.47 | 80.2 | 12.31 | 76.2 | 11.85 |
| | 25 | 130.8 | 95.9 | 13.91 | 90.4 | 12.91 | 85.7 | 12.19 | 83.7 | 11.92 | 80.2 | 11.29 | 76.2 | 10.59 |
| | | 163.5 | 95.9 | 13.82 | 90.4 | 12.83 | 85.7 | 12.19 | 83.7 | 11.85 | 80.2 | 11.19 | 76.2 | 10.52 |
| | | 327.0 | 95.9 | 13.47 | 90.4 | 12.49 | 85.7 | 12.19 | 83.7 | 11.50 | 80.2 | 10.86 | 76.2 | 10.21 |
| | | 408.8 | 95.9 | 13.18 | 90.4 | 12.49 | 85.7 | 11.85 | 83.7 | 11.50 | 80.2 | 10.86 | 76.2 | 10.21 |
| | | 490.5 | 95.9 | 13.01 | 90.4 | 12.49 | 85.7 | 11.67 | 83.7 | 11.50 | 80.2 | 10.86 | 76.2 | 10.21 |
| | 30 | 130.8 | 95.9 | 12.27 | 90.4 | 11.58 | 85.7 | 10.94 | 83.7 | 10.59 | 80.2 | 9.96 | 76.2 | 9.32 |
| | | 163.5 | 95.9 | 12.19 | 90.4 | 11.50 | 85.7 | 10.86 | 83.7 | 10.52 | 80.2 | 9.88 | 76.2 | 9.22 |
| | | 327.0 | 95.9 | 11.85 | 90.4 | 11.19 | 85.7 | 10.52 | 83.7 | 10.21 | 80.2 | 9.53 | 76.2 | 8.88 |
| | | 408.8 | 95.9 | 11.85 | 90.4 | 11.19 | 85.7 | 10.52 | 83.7 | 10.21 | 80.2 | 9.53 | 76.2 | 8.88 |
| | | 490.5 | 95.9 | 11.85 | 90.4 | 11.19 | 85.7 | 10.52 | 83.7 | 10.21 | 80.2 | 9.53 | 76.2 | 8.88 |
| | 35 | 130.8 | 95.9 | 11.29 | 90.4 | 10.59 | 85.7 | 9.61 | 83.7 | 9.22 | 80.2 | 8.97 | 76.2 | 8.24 |
| | | 163.5 | 95.9 | 11.19 | 90.4 | 10.52 | 85.7 | 9.53 | 83.7 | 9.22 | 80.2 | 8.88 | 76.2 | 8.24 |
| | | 327.0 | 95.9 | 10.86 | 90.4 | 10.21 | 85.7 | 9.22 | 83.7 | 9.22 | 80.2 | 8.55 | 76.2 | 8.24 |
| | | 408.8 | 95.9 | 10.86 | 90.4 | 9.88 | 85.7 | 9.22 | 83.7 | 8.88 | 80.2 | 8.55 | 76.2 | 7.89 |
| | | 490.5 | 95.9 | 10.86 | 90.4 | 9.71 | 85.7 | 9.22 | 83.7 | 8.70 | 80.2 | 8.55 | 76.2 | 7.72 |
| | 40 | 130.8 | 95.9 | 10.69 | 90.4 | 9.61 | 85.7 | 8.55 | 83.7 | 8.62 | 80.2 | 7.89 | 76.2 | 7.64 |
| | | 163.5 | 95.9 | 10.52 | 90.4 | 9.53 | 85.7 | 8.55 | 83.7 | 8.55 | 80.2 | 7.89 | 76.2 | 7.55 |
| | | 327.0 | 95.9 | 9.88 | 90.4 | 9.22 | 85.7 | 8.55 | 83.7 | 8.24 | 80.2 | 7.89 | 76.2 | 7.25 |
| | | 408.8 | 95.9 | 9.88 | 90.4 | 9.22 | 85.7 | 8.24 | 83.7 | 8.24 | 80.2 | 7.89 | 76.2 | 7.25 |
| | | 490.5 | 95.9 | 9.88 | 90.4 | 9.22 | 85.7 | 8.09 | 83.7 | 8.24 | 80.2 | 7.89 | 76.2 | 7.25 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 130.8 | 95.9 | 10.13 | 90.4 | 8.62 | 85.7 | 7.47 | 83.7 | 8.06 | 80.2 | 6.83 | 76.2 | 7.08 |
| | | 163.5 | 95.9 | 9.88 | 90.4 | 8.55 | 85.7 | 7.55 | 83.7 | 7.89 | 80.2 | 6.91 | 76.2 | 6.91 |
| | | 327.0 | 95.9 | 8.88 | 90.4 | 8.24 | 85.7 | 7.89 | 83.7 | 7.25 | 80.2 | 7.25 | 76.2 | 6.27 |
| | | 408.8 | 95.9 | 8.88 | 90.4 | 8.55 | 85.7 | 7.25 | 83.7 | 7.55 | 80.2 | 7.25 | 76.2 | 6.56 |
| | | 490.5 | 95.9 | 8.88 | 90.4 | 8.70 | 85.7 | 6.91 | 83.7 | 7.71 | 80.2 | 7.25 | 76.2 | 6.73 |
| 70 | -5 | 130.8 | 33.6 | 11.89 | 31.6 | 11.32 | 29.9 | 10.95 | 29.5 | 10.34 | 29.3 | 9.96 | 28.9 | 9.05 |
| | | 163.5 | 34.7 | 12.16 | 32.6 | 11.57 | 30.9 | 11.19 | 30.6 | 10.55 | 30.3 | 10.17 | 29.9 | 9.26 |
| | | 327.0 | 39.2 | 13.18 | 36.8 | 12.56 | 34.7 | 12.16 | 34.4 | 11.43 | 34.3 | 11.04 | 33.7 | 10.03 |
| | | 408.8 | 43.5 | 14.23 | 40.8 | 13.54 | 38.4 | 13.11 | 38.1 | 12.31 | 37.8 | 11.92 | 37.1 | 10.83 |
| | | 490.5 | 45.6 | 14.76 | 42.8 | 14.05 | 40.4 | 13.58 | 40.1 | 12.76 | 39.7 | 12.35 | 38.8 | 11.22 |
| | 0 | 130.8 | 60.1 | 17.40 | 55.4 | 16.59 | 51.4 | 16.05 | 50.6 | 15.11 | 49.9 | 14.59 | 48.0 | 13.28 |
| | | 163.5 | 60.5 | 17.46 | 55.8 | 16.65 | 51.7 | 16.10 | 51.0 | 15.15 | 50.0 | 14.63 | 48.3 | 13.32 |
| | | 327.0 | 61.8 | 17.67 | 57.1 | 16.82 | 53.0 | 16.30 | 52.1 | 15.32 | 51.3 | 14.80 | 49.3 | 13.44 |
| | | 408.8 | 62.6 | 17.67 | 58.1 | 16.82 | 53.8 | 16.30 | 53.0 | 15.32 | 52.1 | 14.80 | 50.3 | 13.44 |
| | | 490.5 | 63.2 | 17.67 | 58.5 | 16.82 | 54.1 | 16.30 | 53.3 | 15.32 | 52.4 | 14.80 | 50.6 | 13.44 |
| | 5 | 130.8 | 82.9 | 18.97 | 78.5 | 18.05 | 74.8 | 17.46 | 73.2 | 16.47 | 70.0 | 15.88 | 66.6 | 14.42 |
| | | 163.5 | 83.0 | 19.07 | 78.6 | 18.13 | 74.8 | 17.56 | 73.2 | 16.55 | 70.0 | 15.96 | 66.6 | 14.51 |
| | | 327.0 | 83.7 | 19.43 | 79.3 | 18.51 | 74.8 | 17.95 | 73.2 | 16.84 | 70.0 | 16.30 | 66.6 | 14.80 |
| | | 408.8 | 83.7 | 19.57 | 79.2 | 18.65 | 74.8 | 18.06 | 73.2 | 16.98 | 70.0 | 16.41 | 66.6 | 14.90 |
| | | 490.5 | 83.7 | 19.64 | 79.2 | 18.72 | 74.8 | 18.13 | 73.2 | 17.05 | 70.0 | 16.45 | 66.6 | 14.97 |
| | 10 | 130.8 | 83.3 | 17.46 | 78.9 | 16.51 | 74.8 | 15.89 | 73.2 | 15.01 | 70.0 | 14.40 | 66.6 | 13.18 |
| | | 163.5 | 83.3 | 17.43 | 78.9 | 16.48 | 74.8 | 15.85 | 73.2 | 15.01 | 70.0 | 14.40 | 66.6 | 13.18 |
| | | 327.0 | 83.7 | 17.29 | 79.2 | 16.34 | 74.8 | 15.71 | 73.2 | 15.01 | 70.0 | 14.40 | 66.6 | 13.18 |
| | | 408.8 | 83.7 | 17.36 | 79.2 | 16.41 | 74.8 | 15.78 | 73.2 | 15.08 | 70.0 | 14.30 | 66.6 | 13.21 |
| | | 490.5 | 83.7 | 17.39 | 79.2 | 16.44 | 74.8 | 15.82 | 73.2 | 15.11 | 70.0 | 14.24 | 66.6 | 13.22 |
| | 15 | 130.8 | 83.7 | 15.95 | 79.2 | 14.97 | 74.8 | 14.34 | 73.2 | 13.56 | 70.0 | 12.91 | 66.6 | 11.92 |
| | | 163.5 | 83.7 | 15.78 | 79.2 | 14.80 | 74.8 | 14.16 | 73.2 | 13.47 | 70.0 | 12.83 | 66.6 | 11.85 |
| | | 327.0 | 83.7 | 15.15 | 79.2 | 14.16 | 74.8 | 13.47 | 73.2 | 13.18 | 70.0 | 12.49 | 66.6 | 11.50 |
| | | 408.8 | 83.7 | 15.15 | 79.2 | 14.16 | 74.8 | 13.47 | 73.2 | 13.18 | 70.0 | 12.19 | 66.6 | 11.50 |
| | | 490.5 | 83.7 | 15.15 | 79.2 | 14.16 | 74.8 | 13.47 | 73.2 | 13.18 | 70.0 | 12.03 | 66.6 | 11.50 |
| | 20 | 130.8 | 83.7 | 13.26 | 79.2 | 12.56 | 74.8 | 12.27 | 73.2 | 11.92 | 70.0 | 11.29 | 66.6 | 10.59 |
| | | 163.5 | 83.7 | 13.18 | 79.2 | 12.49 | 74.8 | 12.19 | 73.2 | 11.85 | 70.0 | 11.19 | 66.6 | 10.52 |
| | | 327.0 | 83.7 | 12.83 | 79.2 | 12.19 | 74.8 | 11.85 | 73.2 | 11.50 | 70.0 | 10.86 | 66.6 | 10.21 |
| | | 408.8 | 83.7 | 12.83 | 79.2 | 12.19 | 74.8 | 11.85 | 73.2 | 11.19 | 70.0 | 10.86 | 66.6 | 9.88 |
| | | 490.5 | 83.7 | 12.83 | 79.2 | 12.19 | 74.8 | 11.85 | 73.2 | 11.04 | 70.0 | 10.86 | 66.6 | 9.71 |
| | 25 | 130.8 | 83.7 | 11.92 | 79.2 | 11.29 | 74.8 | 10.59 | 73.2 | 10.30 | 70.0 | 9.53 | 66.6 | 8.88 |
| | | 163.5 | 83.7 | 11.85 | 79.2 | 11.19 | 74.8 | 10.52 | 73.2 | 10.21 | 70.0 | 9.53 | 66.6 | 8.88 |
| | | 327.0 | 83.7 | 11.50 | 79.2 | 10.86 | 74.8 | 10.21 | 73.2 | 9.88 | 70.0 | 9.53 | 66.6 | 8.88 |
| | | 408.8 | 83.7 | 11.19 | 79.2 | 10.52 | 74.8 | 10.21 | 73.2 | 9.88 | 70.0 | 9.22 | 66.6 | 8.88 |
| | | 490.5 | 83.7 | 11.04 | 79.2 | 10.34 | 74.8 | 10.21 | 73.2 | 9.88 | 70.0 | 9.08 | 66.6 | 8.88 |
| | 30 | 130.8 | 83.7 | 10.59 | 79.2 | 9.96 | 74.8 | 9.32 | 73.2 | 8.88 | 70.0 | 8.62 | 66.6 | 7.89 |
| | | 163.5 | 83.7 | 10.52 | 79.2 | 9.88 | 74.8 | 9.22 | 73.2 | 8.88 | 70.0 | 8.55 | 66.6 | 7.89 |
| | | 327.0 | 83.7 | 10.21 | 79.2 | 9.53 | 74.8 | 8.88 | 73.2 | 8.88 | 70.0 | 8.24 | 66.6 | 7.89 |
| | | 408.8 | 83.7 | 10.21 | 79.2 | 9.53 | 74.8 | 8.88 | 73.2 | 8.55 | 70.0 | 8.24 | 66.6 | 7.89 |
| | | 490.5 | 83.7 | 10.21 | 79.2 | 9.53 | 74.8 | 8.88 | 73.2 | 8.38 | 70.0 | 8.24 | 66.6 | 7.89 |
| | 35 | 130.8 | 83.7 | 9.61 | 79.2 | 8.97 | 74.8 | 8.24 | 73.2 | 8.32 | 70.0 | 7.55 | 66.6 | 7.33 |
| | | 163.5 | 83.7 | 9.53 | 79.2 | 8.88 | 74.8 | 8.24 | 73.2 | 8.24 | 70.0 | 7.55 | 66.6 | 7.25 |
| | | 327.0 | 83.7 | 9.22 | 79.2 | 8.55 | 74.8 | 8.24 | 73.2 | 7.89 | 70.0 | 7.55 | 66.6 | 6.91 |
| | | 408.8 | 83.7 | 9.22 | 79.2 | 8.55 | 74.8 | 7.89 | 73.2 | 7.89 | 70.0 | 7.55 | 66.6 | 6.91 |
| | | 490.5 | 83.7 | 9.22 | 79.2 | 8.55 | 74.8 | 7.72 | 73.2 | 7.89 | 70.0 | 7.55 | 66.6 | 6.91 |
| | 40 | 130.8 | 83.7 | 8.97 | 79.2 | 8.32 | 74.8 | 7.64 | 73.2 | 7.25 | 70.0 | 6.91 | 66.6 | 6.66 |
| | | 163.5 | 83.7 | 8.88 | 79.2 | 8.24 | 74.8 | 7.55 | 73.2 | 7.25 | 70.0 | 6.91 | 66.6 | 6.56 |
| | | 327.0 | 83.7 | 8.55 | 79.2 | 7.89 | 74.8 | 7.25 | 73.2 | 7.25 | 70.0 | 6.91 | 66.6 | 6.27 |
| | | 408.8 | 83.7 | 8.55 | 79.2 | 7.89 | 74.8 | 7.25 | 73.2 | 6.91 | 70.0 | 6.56 | 66.6 | 6.27 |
| | | 490.5 | 83.7 | 8.55 | 79.2 | 7.89 | 74.8 | 7.25 | 73.2 | 6.73 | 70.0 | 6.39 | 66.6 | 6.27 |
| | 45 | 130.8 | 83.7 | 8.32 | 79.2 | 7.64 | 74.8 | 7.08 | 73.2 | 6.18 | 70.0 | 6.27 | 66.6 | 6.00 |
| | | 163.5 | 83.7 | 8.24 | 79.2 | 7.55 | 74.8 | 6.91 | 73.2 | 6.27 | 70.0 | 6.27 | 66.6 | 5.92 |
| | | 327.0 | 83.7 | 7.89 | 79.2 | 7.25 | 74.8 | 6.27 | 73.2 | 6.56 | 70.0 | 6.27 | 66.6 | 5.58 |
| | | 408.8 | 83.7 | 7.89 | 79.2 | 7.25 | 74.8 | 6.56 | 73.2 | 5.92 | 70.0 | 5.58 | 66.6 | 5.58 |
| | | 490.5 | 83.7 | 7.89 | 79.2 | 7.25 | 74.8 | 6.73 | 73.2 | 5.60 | 70.0 | 5.23 | 66.6 | 5.58 |
| 60 | -5 | 130.8 | 28.9 | 9.65 | 26.9 | 9.29 | 25.5 | 8.93 | 25.2 | 8.30 | 25.1 | 8.16 | 24.5 | 7.29 |
| | | 163.5 | 29.9 | 9.88 | 27.9 | 9.50 | 26.5 | 9.12 | 26.1 | 8.48 | 25.9 | 8.34 | 25.5 | 7.46 |
| | | 327.0 | 33.7 | 10.73 | 31.6 | 10.31 | 29.9 | 9.89 | 29.6 | 9.19 | 29.5 | 9.05 | 28.9 | 8.10 |
| | | 408.8 | 37.3 | 11.54 | 35.0 | 11.12 | 33.0 | 10.69 | 32.7 | 9.93 | 32.6 | 9.78 | 31.9 | 8.70 |
| | | 490.5 | 39.1 | 11.95 | 36.4 | 11.54 | 34.7 | 11.08 | 34.3 | 10.31 | 34.1 | 10.13 | 33.3 | 9.02 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 130.8 | 51.4 | 14.16 | 47.5 | 13.64 | 44.2 | 13.05 | 43.5 | 12.16 | 42.8 | 11.99 | 41.2 | 10.69 |
| | | 163.5 | 51.7 | 14.20 | 47.7 | 13.68 | 44.5 | 13.11 | 43.6 | 12.19 | 43.1 | 12.02 | 41.5 | 10.73 |
| | | 327.0 | 53.0 | 14.37 | 48.9 | 13.82 | 45.6 | 13.28 | 44.6 | 12.31 | 44.1 | 12.16 | 42.4 | 10.83 |
| | | 408.8 | 53.8 | 14.37 | 49.6 | 13.82 | 46.3 | 13.28 | 45.3 | 12.31 | 44.8 | 12.16 | 43.1 | 10.83 |
| | | 490.5 | 54.1 | 14.37 | 50.0 | 13.82 | 46.6 | 13.28 | 45.6 | 12.31 | 45.2 | 12.16 | 43.5 | 10.83 |
| | 5 | 130.8 | 71.1 | 15.40 | 67.0 | 14.83 | 64.3 | 14.21 | 62.8 | 13.25 | 60.1 | 13.04 | 57.1 | 11.61 |
| | | 163.5 | 71.4 | 15.49 | 67.3 | 14.90 | 64.3 | 14.30 | 62.8 | 13.32 | 60.1 | 13.11 | 57.1 | 11.67 |
| | | 327.0 | 72.0 | 15.78 | 67.7 | 15.22 | 64.3 | 14.59 | 62.8 | 13.57 | 60.1 | 13.37 | 57.1 | 11.92 |
| | | 408.8 | 72.0 | 15.92 | 67.7 | 15.32 | 64.3 | 14.70 | 62.8 | 13.68 | 60.1 | 13.44 | 57.1 | 12.02 |
| | | 490.5 | 72.0 | 15.99 | 67.6 | 15.36 | 64.3 | 14.76 | 62.8 | 13.74 | 60.1 | 13.47 | 57.1 | 12.06 |
| | 10 | 130.8 | 71.5 | 14.16 | 67.3 | 13.54 | 64.3 | 12.90 | 62.8 | 12.06 | 60.1 | 11.82 | 57.1 | 10.59 |
| | | 163.5 | 71.7 | 14.16 | 67.4 | 13.54 | 64.3 | 12.90 | 62.8 | 12.09 | 60.1 | 11.81 | 57.1 | 10.62 |
| | | 327.0 | 72.0 | 14.16 | 67.7 | 13.54 | 64.3 | 12.90 | 62.8 | 12.21 | 60.1 | 11.78 | 57.1 | 10.73 |
| | | 408.8 | 72.0 | 14.20 | 67.7 | 13.40 | 64.3 | 12.76 | 62.8 | 12.09 | 60.1 | 11.67 | 57.1 | 10.62 |
| | | 490.5 | 72.0 | 14.20 | 67.6 | 13.33 | 64.3 | 12.69 | 62.8 | 12.02 | 60.1 | 11.61 | 57.1 | 10.56 |
| | 15 | 130.8 | 72.0 | 12.91 | 67.7 | 12.27 | 64.3 | 11.58 | 62.8 | 10.86 | 60.1 | 10.59 | 57.1 | 9.53 |
| | | 163.5 | 72.0 | 12.83 | 67.7 | 12.19 | 64.3 | 11.50 | 62.8 | 10.86 | 60.1 | 10.52 | 57.1 | 9.53 |
| | | 327.0 | 72.0 | 12.49 | 67.7 | 11.85 | 64.3 | 11.19 | 62.8 | 10.86 | 60.1 | 10.21 | 57.1 | 9.53 |
| | | 408.8 | 72.0 | 12.49 | 67.7 | 11.50 | 64.3 | 10.86 | 62.8 | 10.52 | 60.1 | 9.88 | 57.1 | 9.22 |
| | | 490.5 | 72.0 | 12.49 | 67.7 | 11.33 | 64.3 | 10.69 | 62.8 | 10.34 | 60.1 | 9.71 | 57.1 | 9.08 |
| | 20 | 130.8 | 72.0 | 11.29 | 67.7 | 10.59 | 64.3 | 9.96 | 62.8 | 9.61 | 60.1 | 9.32 | 57.1 | 8.62 |
| | | 163.5 | 72.0 | 11.19 | 67.7 | 10.52 | 64.3 | 9.88 | 62.8 | 9.53 | 60.1 | 9.22 | 57.1 | 8.55 |
| | | 327.0 | 72.0 | 10.86 | 67.7 | 10.21 | 64.3 | 9.53 | 62.8 | 9.22 | 60.1 | 8.88 | 57.1 | 8.24 |
| | | 408.8 | 72.0 | 10.86 | 67.7 | 10.21 | 64.3 | 9.53 | 62.8 | 9.22 | 60.1 | 8.88 | 57.1 | 8.24 |
| | | 490.5 | 72.0 | 10.86 | 67.7 | 10.21 | 64.3 | 9.53 | 62.8 | 9.22 | 60.1 | 8.88 | 57.1 | 8.24 |
| | 25 | 130.8 | 72.0 | 9.96 | 67.7 | 9.32 | 64.3 | 8.55 | 62.8 | 8.62 | 60.1 | 7.89 | 57.1 | 7.64 |
| | | 163.5 | 72.0 | 9.88 | 67.7 | 9.22 | 64.3 | 8.55 | 62.8 | 8.55 | 60.1 | 7.89 | 57.1 | 7.55 |
| | | 327.0 | 72.0 | 9.53 | 67.7 | 8.88 | 64.3 | 8.55 | 62.8 | 8.24 | 60.1 | 7.89 | 57.1 | 7.25 |
| | | 408.8 | 72.0 | 9.53 | 67.7 | 8.88 | 64.3 | 8.24 | 62.8 | 8.24 | 60.1 | 7.89 | 57.1 | 7.25 |
| | | 490.5 | 72.0 | 9.53 | 67.7 | 8.88 | 64.3 | 8.09 | 62.8 | 8.24 | 60.1 | 7.89 | 57.1 | 7.25 |
| | 30 | 130.8 | 72.0 | 8.97 | 67.7 | 8.32 | 64.3 | 7.99 | 62.8 | 7.64 | 60.1 | 7.33 | 57.1 | 7.00 |
| | | 163.5 | 72.0 | 8.88 | 67.7 | 8.24 | 64.3 | 7.89 | 62.8 | 7.55 | 60.1 | 7.25 | 57.1 | 6.91 |
| | | 327.0 | 72.0 | 8.55 | 67.7 | 7.89 | 64.3 | 7.55 | 62.8 | 7.25 | 60.1 | 6.91 | 57.1 | 6.56 |
| | | 408.8 | 72.0 | 8.55 | 67.7 | 7.89 | 64.3 | 7.55 | 62.8 | 7.25 | 60.1 | 6.91 | 57.1 | 6.56 |
| | | 490.5 | 72.0 | 8.55 | 67.7 | 7.89 | 64.3 | 7.55 | 62.8 | 7.25 | 60.1 | 6.91 | 57.1 | 6.56 |
| | 35 | 130.8 | 72.0 | 7.89 | 67.7 | 7.64 | 64.3 | 6.91 | 62.8 | 7.00 | 60.1 | 6.66 | 57.1 | 6.35 |
| | | 163.5 | 72.0 | 7.89 | 67.7 | 7.55 | 64.3 | 6.91 | 62.8 | 6.91 | 60.1 | 6.56 | 57.1 | 6.27 |
| | | 327.0 | 72.0 | 7.89 | 67.7 | 7.25 | 64.3 | 6.91 | 62.8 | 6.56 | 60.1 | 6.27 | 57.1 | 5.92 |
| | | 408.8 | 72.0 | 7.89 | 67.7 | 7.25 | 64.3 | 6.56 | 62.8 | 6.56 | 60.1 | 6.27 | 57.1 | 5.92 |
| | | 490.5 | 72.0 | 7.89 | 67.7 | 7.25 | 64.3 | 6.39 | 62.8 | 6.56 | 60.1 | 6.27 | 57.1 | 5.92 |
| | 40 | 130.8 | 72.0 | 7.25 | 67.7 | 7.00 | 64.3 | 6.27 | 62.8 | 6.35 | 60.1 | 6.00 | 57.1 | 5.58 |
| | | 163.5 | 72.0 | 7.25 | 67.7 | 6.91 | 64.3 | 6.27 | 62.8 | 6.27 | 60.1 | 5.92 | 57.1 | 5.58 |
| | | 327.0 | 72.0 | 7.25 | 67.7 | 6.56 | 64.3 | 6.27 | 62.8 | 5.92 | 60.1 | 5.58 | 57.1 | 5.58 |
| | | 408.8 | 72.0 | 7.25 | 67.7 | 6.56 | 64.3 | 6.27 | 62.8 | 5.92 | 60.1 | 5.58 | 57.1 | 5.58 |
| | | 490.5 | 72.0 | 7.25 | 67.7 | 6.56 | 64.3 | 6.27 | 62.8 | 5.92 | 60.1 | 5.58 | 57.1 | 5.58 |
| | 45 | 130.8 | 72.0 | 6.56 | 67.7 | 6.35 | 64.3 | 5.58 | 62.8 | 5.65 | 60.1 | 5.36 | 57.1 | 4.84 |
| | | 163.5 | 72.0 | 6.56 | 67.7 | 6.27 | 64.3 | 5.58 | 62.8 | 5.58 | 60.1 | 5.27 | 57.1 | 4.94 |
| | | 327.0 | 72.0 | 6.56 | 67.7 | 5.92 | 64.3 | 5.58 | 62.8 | 5.27 | 60.1 | 4.94 | 57.1 | 5.27 |
| | | 408.8 | 72.0 | 6.56 | 67.7 | 5.92 | 64.3 | 5.92 | 62.8 | 5.27 | 60.1 | 4.94 | 57.1 | 5.27 |
| | | 490.5 | 72.0 | 6.56 | 67.7 | 5.92 | 64.3 | 6.10 | 62.8 | 5.27 | 60.1 | 4.94 | 57.1 | 5.27 |
| 50 | -5 | 130.8 | 24.1 | 7.71 | 22.5 | 7.29 | 21.4 | 6.90 | 21.0 | 6.52 | 20.8 | 6.13 | 20.4 | 5.79 |
| | | 163.5 | 24.8 | 7.86 | 23.4 | 7.46 | 22.1 | 7.05 | 21.7 | 6.67 | 21.7 | 6.27 | 21.1 | 5.92 |
| | | 327.0 | 27.9 | 8.52 | 26.2 | 8.10 | 24.9 | 7.62 | 24.5 | 7.25 | 24.5 | 6.80 | 24.1 | 6.39 |
| | | 408.8 | 31.0 | 9.19 | 29.2 | 8.70 | 27.5 | 8.24 | 27.2 | 7.82 | 26.9 | 7.32 | 26.6 | 6.91 |
| | | 490.5 | 32.6 | 9.53 | 30.6 | 9.02 | 28.9 | 8.55 | 28.5 | 8.13 | 28.2 | 7.57 | 27.9 | 7.16 |
| | 0 | 130.8 | 42.8 | 11.28 | 39.7 | 10.69 | 36.8 | 10.07 | 36.0 | 9.57 | 35.6 | 8.98 | 34.3 | 8.48 |
| | | 163.5 | 43.1 | 11.29 | 39.8 | 10.73 | 37.1 | 10.10 | 36.3 | 9.60 | 35.7 | 9.01 | 34.4 | 8.52 |
| | | 327.0 | 44.1 | 11.40 | 40.8 | 10.83 | 38.0 | 10.24 | 37.1 | 9.74 | 36.7 | 9.12 | 35.3 | 8.62 |
| | | 408.8 | 44.8 | 11.40 | 41.4 | 10.83 | 38.4 | 10.24 | 37.7 | 9.74 | 37.1 | 9.12 | 35.8 | 8.62 |
| | | 490.5 | 45.2 | 11.40 | 41.5 | 10.83 | 38.7 | 10.24 | 38.1 | 9.74 | 37.4 | 9.12 | 36.1 | 8.62 |
| | 5 | 130.8 | 59.2 | 12.27 | 56.1 | 11.61 | 53.4 | 10.97 | 52.3 | 10.44 | 50.0 | 9.79 | 47.6 | 9.21 |
| | | 163.5 | 59.2 | 12.31 | 56.1 | 11.67 | 53.4 | 11.04 | 52.3 | 10.48 | 50.0 | 9.85 | 47.6 | 9.26 |
| | | 327.0 | 59.8 | 12.56 | 56.5 | 11.92 | 53.7 | 11.26 | 52.3 | 10.69 | 50.0 | 10.00 | 47.6 | 9.46 |
| | | 408.8 | 59.8 | 12.66 | 56.5 | 12.02 | 53.7 | 11.33 | 52.3 | 10.76 | 50.0 | 10.10 | 47.6 | 9.53 |
| | | 490.5 | 59.8 | 12.72 | 56.4 | 12.06 | 53.7 | 11.36 | 52.3 | 10.79 | 50.0 | 10.16 | 47.6 | 9.57 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(34HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 130.8 | 59.5 | 11.29 | 56.1 | 10.63 | 53.4 | 9.99 | 52.3 | 9.54 | 50.0 | 8.83 | 47.6 | 8.42 |
| | | 163.5 | 59.5 | 11.26 | 56.4 | 10.62 | 53.4 | 9.96 | 52.3 | 9.53 | 50.0 | 8.84 | 47.6 | 8.41 |
| | | 327.0 | 59.8 | 11.19 | 56.5 | 10.59 | 53.7 | 9.89 | 52.3 | 9.46 | 50.0 | 8.95 | 47.6 | 8.34 |
| | | 408.8 | 59.8 | 11.26 | 56.5 | 10.62 | 53.7 | 9.93 | 52.3 | 9.50 | 50.0 | 8.81 | 47.6 | 8.38 |
| | | 490.5 | 59.8 | 11.29 | 56.4 | 10.63 | 53.7 | 9.96 | 52.3 | 9.51 | 50.0 | 8.74 | 47.6 | 8.38 |
| | 15 | 130.8 | 59.8 | 10.30 | 56.5 | 9.61 | 53.7 | 8.97 | 52.3 | 8.62 | 50.0 | 7.89 | 47.6 | 7.64 |
| | | 163.5 | 59.8 | 10.21 | 56.5 | 9.53 | 53.7 | 8.88 | 52.3 | 8.55 | 50.0 | 7.89 | 47.6 | 7.55 |
| | | 327.0 | 59.8 | 9.88 | 56.5 | 9.22 | 53.7 | 8.55 | 52.3 | 8.24 | 50.0 | 7.89 | 47.6 | 7.25 |
| | | 408.8 | 59.8 | 9.88 | 56.5 | 9.22 | 53.7 | 8.55 | 52.3 | 8.24 | 50.0 | 7.55 | 47.6 | 7.25 |
| | | 490.5 | 59.8 | 9.88 | 56.5 | 9.22 | 53.7 | 8.55 | 52.3 | 8.24 | 50.0 | 7.39 | 47.6 | 7.25 |
| | 20 | 130.8 | 59.8 | 8.97 | 56.5 | 8.32 | 53.7 | 7.99 | 52.3 | 7.64 | 50.0 | 7.33 | 47.6 | 6.56 |
| | | 163.5 | 59.8 | 8.88 | 56.5 | 8.24 | 53.7 | 7.89 | 52.3 | 7.55 | 50.0 | 7.25 | 47.6 | 6.56 |
| | | 327.0 | 59.8 | 8.55 | 56.5 | 7.89 | 53.7 | 7.55 | 52.3 | 7.25 | 50.0 | 6.91 | 47.6 | 6.56 |
| | | 408.8 | 59.8 | 8.55 | 56.5 | 7.89 | 53.7 | 7.55 | 52.3 | 7.25 | 50.0 | 6.91 | 47.6 | 6.56 |
| | | 490.5 | 59.8 | 8.55 | 56.5 | 7.89 | 53.7 | 7.55 | 52.3 | 7.25 | 50.0 | 6.91 | 47.6 | 6.56 |
| | 25 | 130.8 | 59.8 | 7.99 | 56.5 | 7.25 | 53.7 | 7.00 | 52.3 | 6.56 | 50.0 | 6.27 | 47.6 | 5.92 |
| | | 163.5 | 59.8 | 7.89 | 56.5 | 7.25 | 53.7 | 6.91 | 52.3 | 6.56 | 50.0 | 6.27 | 47.6 | 5.92 |
| | | 327.0 | 59.8 | 7.55 | 56.5 | 7.25 | 53.7 | 6.56 | 52.3 | 6.56 | 50.0 | 6.27 | 47.6 | 5.92 |
| | | 408.8 | 59.8 | 7.55 | 56.5 | 7.25 | 53.7 | 6.56 | 52.3 | 6.56 | 50.0 | 6.27 | 47.6 | 5.92 |
| | | 490.5 | 59.8 | 7.55 | 56.5 | 7.25 | 53.7 | 6.56 | 52.3 | 6.56 | 50.0 | 6.27 | 47.6 | 5.92 |
| | 30 | 130.8 | 59.8 | 7.33 | 56.5 | 6.66 | 53.7 | 6.35 | 52.3 | 5.92 | 50.0 | 6.00 | 47.6 | 5.65 |
| | | 163.5 | 59.8 | 7.25 | 56.5 | 6.56 | 53.7 | 6.27 | 52.3 | 5.92 | 50.0 | 5.92 | 47.6 | 5.58 |
| | | 327.0 | 59.8 | 6.91 | 56.5 | 6.27 | 53.7 | 5.92 | 52.3 | 5.92 | 50.0 | 5.58 | 47.6 | 5.27 |
| | | 408.8 | 59.8 | 6.91 | 56.5 | 6.27 | 53.7 | 5.92 | 52.3 | 5.92 | 50.0 | 5.58 | 47.6 | 5.27 |
| | | 490.5 | 59.8 | 6.91 | 56.5 | 6.27 | 53.7 | 5.92 | 52.3 | 5.92 | 50.0 | 5.58 | 47.6 | 5.27 |
| | 35 | 130.8 | 59.8 | 6.66 | 56.5 | 5.92 | 53.7 | 5.58 | 52.3 | 5.65 | 50.0 | 5.27 | 47.6 | 4.94 |
| | | 163.5 | 59.8 | 6.56 | 56.5 | 5.92 | 53.7 | 5.58 | 52.3 | 5.58 | 50.0 | 5.27 | 47.6 | 4.94 |
| | | 327.0 | 59.8 | 6.27 | 56.5 | 5.92 | 53.7 | 5.58 | 52.3 | 5.27 | 50.0 | 5.27 | 47.6 | 4.94 |
| | | 408.8 | 59.8 | 6.27 | 56.5 | 5.92 | 53.7 | 5.58 | 52.3 | 5.27 | 50.0 | 5.27 | 47.6 | 4.94 |
| | | 490.5 | 59.8 | 6.27 | 56.5 | 5.92 | 53.7 | 5.58 | 52.3 | 5.27 | 50.0 | 5.27 | 47.6 | 4.94 |
| | 40 | 130.8 | 59.8 | 6.00 | 56.5 | 5.65 | 53.7 | 5.36 | 52.3 | 4.94 | 50.0 | 5.02 | 47.6 | 4.59 |
| | | 163.5 | 59.8 | 5.92 | 56.5 | 5.58 | 53.7 | 5.27 | 52.3 | 4.94 | 50.0 | 4.94 | 47.6 | 4.59 |
| | | 327.0 | 59.8 | 5.58 | 56.5 | 5.27 | 53.7 | 4.94 | 52.3 | 4.94 | 50.0 | 4.59 | 47.6 | 4.59 |
| | | 408.8 | 59.8 | 5.58 | 56.5 | 5.27 | 53.7 | 4.94 | 52.3 | 4.94 | 50.0 | 4.59 | 47.6 | 4.59 |
| | | 490.5 | 59.8 | 5.58 | 56.5 | 5.27 | 53.7 | 4.94 | 52.3 | 4.94 | 50.0 | 4.59 | 47.6 | 4.59 |
| | 45 | 130.8 | 59.8 | 5.36 | 56.5 | 5.44 | 53.7 | 5.09 | 52.3 | 4.21 | 50.0 | 4.76 | 47.6 | 4.28 |
| | | 163.5 | 59.8 | 5.27 | 56.5 | 5.27 | 53.7 | 4.94 | 52.3 | 4.28 | 50.0 | 4.59 | 47.6 | 4.28 |
| | | 327.0 | 59.8 | 4.94 | 56.5 | 4.59 | 53.7 | 4.28 | 52.3 | 4.59 | 50.0 | 3.96 | 47.6 | 4.28 |
| | | 408.8 | 59.8 | 4.94 | 56.5 | 4.59 | 53.7 | 4.28 | 52.3 | 4.59 | 50.0 | 3.96 | 47.6 | 4.28 |
| | | 490.5 | 59.8 | 4.94 | 56.5 | 4.59 | 53.7 | 4.28 | 52.3 | 4.59 | 50.0 | 3.96 | 47.6 | 4.28 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN360BAS4

**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 138.8 | 53.7 | 22.30 | 53.2 | 21.00 | 53.0 | 19.54 | 52.2 | 18.97 | 52.7 | 18.48 | 51.4 | 16.58 |
| | | 173.5 | 55.5 | 22.70 | 55.0 | 21.40 | 54.8 | 19.97 | 54.0 | 19.39 | 54.7 | 18.89 | 53.2 | 16.93 |
| | | 347.0 | 62.7 | 24.24 | 62.2 | 23.03 | 62.0 | 21.67 | 61.2 | 21.05 | 61.7 | 20.45 | 60.2 | 18.36 |
| | | 433.8 | 69.4 | 25.77 | 68.7 | 24.61 | 68.4 | 23.36 | 67.6 | 22.73 | 68.4 | 22.08 | 66.6 | 19.79 |
| | | 520.5 | 72.8 | 26.55 | 72.0 | 25.40 | 71.5 | 24.21 | 70.7 | 23.59 | 71.7 | 22.88 | 69.7 | 20.52 |
| | 0 | 138.8 | 95.9 | 30.52 | 93.6 | 29.59 | 91.6 | 28.63 | 89.7 | 27.83 | 90.0 | 27.07 | 85.9 | 24.24 |
| | | 173.5 | 96.4 | 30.59 | 94.1 | 29.67 | 92.3 | 28.71 | 90.2 | 27.91 | 90.5 | 27.13 | 86.4 | 24.31 |
| | | 347.0 | 98.7 | 30.92 | 96.4 | 29.97 | 94.4 | 29.04 | 92.3 | 28.23 | 92.6 | 27.43 | 88.5 | 24.61 |
| | | 433.8 | 100.3 | 30.92 | 97.7 | 29.97 | 95.7 | 29.04 | 93.6 | 28.23 | 94.1 | 27.43 | 89.7 | 24.61 |
| | | 520.5 | 101.0 | 30.92 | 98.5 | 29.97 | 96.5 | 29.04 | 94.4 | 28.23 | 94.6 | 27.43 | 90.5 | 24.61 |
| | 5 | 138.8 | 138.1 | 32.80 | 136.0 | 31.98 | 133.2 | 31.17 | 129.8 | 30.29 | 126.3 | 29.46 | 119.3 | 26.37 |
| | | 173.5 | 138.6 | 32.93 | 136.3 | 32.13 | 133.2 | 31.32 | 129.8 | 30.44 | 126.3 | 29.59 | 119.3 | 26.52 |
| | | 347.0 | 140.4 | 33.53 | 137.1 | 32.73 | 133.2 | 31.95 | 129.8 | 31.07 | 126.3 | 30.19 | 119.3 | 27.07 |
| | | 433.8 | 141.2 | 33.76 | 137.6 | 32.93 | 133.2 | 32.17 | 129.8 | 31.30 | 126.3 | 30.42 | 119.3 | 27.25 |
| | | 520.5 | 141.7 | 33.86 | 137.8 | 33.05 | 133.2 | 32.28 | 129.8 | 31.40 | 126.3 | 30.52 | 119.3 | 27.35 |
| | 10 | 138.8 | 138.1 | 29.84 | 136.0 | 28.84 | 132.7 | 28.31 | 129.3 | 27.66 | 125.8 | 26.72 | 118.8 | 24.11 |
| | | 173.5 | 139.1 | 29.79 | 136.6 | 28.86 | 133.2 | 28.36 | 129.8 | 27.65 | 126.3 | 26.70 | 119.3 | 24.09 |
| | | 347.0 | 142.2 | 29.56 | 139.1 | 28.98 | 135.3 | 28.56 | 131.9 | 27.61 | 128.1 | 26.63 | 121.1 | 24.01 |
| | | 433.8 | 143.0 | 29.97 | 140.1 | 29.39 | 136.3 | 28.68 | 132.4 | 27.73 | 129.1 | 27.07 | 121.9 | 25.17 |
| | | 520.5 | 143.5 | 30.17 | 140.6 | 29.59 | 136.6 | 28.74 | 132.7 | 27.78 | 129.4 | 27.28 | 122.4 | 25.72 |
| | 15 | 138.8 | 138.4 | 26.90 | 136.0 | 25.75 | 132.2 | 25.47 | 128.6 | 25.04 | 125.2 | 23.99 | 118.3 | 21.85 |
| | | 173.5 | 139.6 | 26.63 | 137.1 | 25.64 | 133.2 | 25.42 | 129.8 | 24.87 | 126.3 | 23.79 | 119.3 | 21.67 |
| | | 347.0 | 144.0 | 25.57 | 141.2 | 25.19 | 137.5 | 25.19 | 134.0 | 24.14 | 130.1 | 23.06 | 123.2 | 20.93 |
| | | 433.8 | 144.8 | 26.18 | 142.5 | 25.77 | 139.1 | 25.19 | 135.3 | 24.14 | 131.9 | 23.71 | 124.5 | 23.06 |
| | | 520.5 | 145.3 | 26.50 | 143.2 | 26.07 | 139.9 | 25.19 | 136.0 | 24.14 | 132.7 | 24.06 | 125.3 | 24.14 |
| | 20 | 138.8 | 143.7 | 24.67 | 141.1 | 23.51 | 137.3 | 23.01 | 133.5 | 22.28 | 129.6 | 21.78 | 121.9 | 21.10 |
| | | 173.5 | 144.8 | 24.49 | 142.2 | 23.51 | 138.4 | 22.98 | 134.5 | 22.36 | 130.9 | 21.93 | 123.2 | 20.93 |
| | | 347.0 | 149.4 | 23.79 | 146.8 | 23.43 | 142.7 | 22.91 | 138.8 | 22.73 | 135.3 | 22.51 | 127.6 | 20.24 |
| | | 433.8 | 149.9 | 23.79 | 147.8 | 23.43 | 144.3 | 23.06 | 140.2 | 22.73 | 136.3 | 22.51 | 128.6 | 21.52 |
| | | 520.5 | 150.4 | 23.79 | 148.4 | 23.43 | 145.3 | 23.13 | 140.9 | 22.73 | 136.8 | 22.51 | 129.3 | 22.18 |
| | 25 | 138.8 | 151.7 | 23.51 | 147.8 | 22.83 | 144.3 | 22.46 | 141.7 | 22.08 | 138.4 | 21.75 | 130.4 | 20.32 |
| | | 173.5 | 151.7 | 23.43 | 147.8 | 22.81 | 144.3 | 22.36 | 141.7 | 22.00 | 138.4 | 21.67 | 130.4 | 20.24 |
| | | 347.0 | 151.7 | 23.06 | 147.8 | 22.66 | 144.3 | 22.00 | 141.7 | 21.67 | 138.4 | 21.30 | 130.4 | 19.87 |
| | | 433.8 | 151.7 | 22.73 | 147.8 | 22.08 | 144.3 | 21.67 | 141.7 | 21.30 | 138.4 | 20.93 | 130.4 | 19.54 |
| | | 520.5 | 151.7 | 22.56 | 147.8 | 21.78 | 144.3 | 21.50 | 141.7 | 21.12 | 138.4 | 20.75 | 130.4 | 19.37 |
| | 30 | 138.8 | 151.7 | 22.91 | 147.8 | 21.78 | 144.3 | 21.58 | 141.7 | 21.02 | 138.4 | 20.80 | 130.4 | 19.34 |
| | | 173.5 | 151.7 | 22.73 | 147.8 | 21.75 | 144.3 | 21.45 | 141.7 | 20.93 | 138.4 | 20.60 | 130.4 | 19.17 |
| | | 347.0 | 151.7 | 22.00 | 147.8 | 21.60 | 144.3 | 20.93 | 141.7 | 20.60 | 138.4 | 19.87 | 130.4 | 18.46 |
| | | 433.8 | 151.7 | 21.67 | 147.8 | 21.00 | 144.3 | 20.60 | 141.7 | 20.24 | 138.4 | 19.87 | 130.4 | 18.46 |
| | | 520.5 | 151.7 | 21.50 | 147.8 | 20.72 | 144.3 | 20.44 | 141.7 | 20.05 | 138.4 | 19.87 | 130.4 | 18.46 |
| | 35 | 138.8 | 151.7 | 21.85 | 147.8 | 21.12 | 144.3 | 20.70 | 141.7 | 19.95 | 138.4 | 19.26 | 130.4 | 17.91 |
| | | 173.5 | 151.7 | 21.67 | 147.8 | 21.00 | 144.3 | 20.60 | 141.7 | 19.87 | 138.4 | 19.17 | 130.4 | 17.73 |
| | | 347.0 | 151.7 | 20.93 | 147.8 | 20.52 | 144.3 | 20.24 | 141.7 | 19.54 | 138.4 | 18.81 | 130.4 | 17.03 |
| | | 433.8 | 151.7 | 20.93 | 147.8 | 20.32 | 144.3 | 19.87 | 141.7 | 19.17 | 138.4 | 18.46 | 130.4 | 17.03 |
| | | 520.5 | 151.7 | 20.93 | 147.8 | 20.20 | 144.3 | 19.69 | 141.7 | 18.99 | 138.4 | 18.31 | 130.4 | 17.03 |
| | 40 | 138.8 | 151.7 | 21.10 | 147.8 | 20.44 | 144.3 | 20.04 | 141.7 | 19.34 | 138.4 | 18.66 | 130.4 | 16.85 |
| | | 173.5 | 151.7 | 20.93 | 147.8 | 20.32 | 144.3 | 19.87 | 141.7 | 19.17 | 138.4 | 18.46 | 130.4 | 16.68 |
| | | 347.0 | 151.7 | 20.24 | 147.8 | 19.79 | 144.3 | 19.17 | 141.7 | 18.46 | 138.4 | 17.73 | 130.4 | 15.98 |
| | | 433.8 | 151.7 | 19.87 | 147.8 | 19.47 | 144.3 | 19.17 | 141.7 | 18.46 | 138.4 | 17.73 | 130.4 | 15.98 |
| | | 520.5 | 151.7 | 19.69 | 147.8 | 19.29 | 144.3 | 19.17 | 141.7 | 18.46 | 138.4 | 17.73 | 130.4 | 15.98 |
| | 45 | 138.8 | 151.7 | 20.42 | 147.8 | 19.74 | 144.3 | 19.44 | 141.7 | 18.74 | 138.4 | 18.01 | 130.4 | 15.78 |
| | | 173.5 | 151.7 | 20.24 | 147.8 | 19.62 | 144.3 | 19.17 | 141.7 | 18.46 | 138.4 | 17.73 | 130.4 | 15.60 |
| | | 347.0 | 151.7 | 19.54 | 147.8 | 19.09 | 144.3 | 18.11 | 141.7 | 17.41 | 138.4 | 16.68 | 130.4 | 14.92 |
| | | 433.8 | 151.7 | 18.81 | 147.8 | 18.61 | 144.3 | 18.46 | 141.7 | 17.73 | 138.4 | 17.03 | 130.4 | 14.92 |
| | | 520.5 | 151.7 | 18.44 | 147.8 | 18.38 | 144.3 | 18.66 | 141.7 | 17.91 | 138.4 | 17.23 | 130.4 | 14.92 |
| 120 | -5 | 138.8 | 50.9 | 22.30 | 50.6 | 21.00 | 50.4 | 19.54 | 49.6 | 18.72 | 50.1 | 18.19 | 48.8 | 16.28 |
| | | 173.5 | 52.7 | 22.70 | 52.2 | 21.40 | 52.0 | 19.97 | 51.4 | 19.14 | 51.7 | 18.59 | 50.4 | 16.63 |
| | | 347.0 | 59.7 | 24.24 | 59.2 | 23.03 | 58.9 | 21.67 | 58.1 | 20.75 | 58.6 | 20.17 | 57.1 | 18.06 |
| | | 433.8 | 65.9 | 25.77 | 65.3 | 24.61 | 65.0 | 23.36 | 64.3 | 22.40 | 64.8 | 21.75 | 63.0 | 19.47 |
| | | 520.5 | 69.1 | 26.55 | 68.6 | 25.40 | 68.1 | 24.21 | 67.4 | 23.23 | 67.9 | 22.53 | 65.9 | 20.17 |
| | 0 | 138.8 | 91.1 | 30.52 | 89.0 | 29.59 | 86.9 | 28.63 | 85.3 | 27.43 | 85.3 | 26.65 | 81.3 | 23.84 |
| | | 173.5 | 91.6 | 30.59 | 89.5 | 29.67 | 87.5 | 28.71 | 85.9 | 27.50 | 85.9 | 26.73 | 81.8 | 23.91 |
| | | 347.0 | 93.8 | 30.92 | 91.5 | 29.97 | 89.7 | 29.04 | 87.7 | 27.83 | 87.7 | 27.03 | 83.8 | 24.21 |
| | | 433.8 | 95.2 | 30.92 | 93.1 | 29.97 | 91.0 | 29.04 | 89.2 | 27.83 | 89.0 | 27.03 | 85.1 | 24.21 |
| | | 520.5 | 95.9 | 30.92 | 93.8 | 29.97 | 91.8 | 29.04 | 89.8 | 27.83 | 89.7 | 27.03 | 85.9 | 24.21 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 138.8 | 131.4 | 32.80 | 129.4 | 31.98 | 126.5 | 31.17 | 123.5 | 29.84 | 119.6 | 29.01 | 113.1 | 25.97 |
| | | 173.5 | 131.9 | 32.93 | 129.6 | 32.13 | 126.5 | 31.32 | 123.5 | 30.01 | 119.6 | 29.16 | 113.1 | 26.12 |
| | | 347.0 | 133.7 | 33.53 | 130.6 | 32.73 | 126.5 | 31.95 | 123.5 | 30.62 | 119.6 | 29.74 | 113.1 | 26.63 |
| | | 433.8 | 134.5 | 33.76 | 129.9 | 32.93 | 126.5 | 32.17 | 123.5 | 30.85 | 119.6 | 29.97 | 113.1 | 26.80 |
| | | 520.5 | 134.8 | 33.86 | 129.6 | 33.05 | 126.5 | 32.28 | 123.5 | 30.97 | 119.6 | 30.07 | 113.1 | 26.90 |
| | 10 | 138.8 | 131.9 | 29.46 | 129.4 | 28.64 | 126.3 | 28.06 | 123.2 | 27.20 | 119.3 | 26.32 | 112.9 | 23.66 |
| | | 173.5 | 132.4 | 29.56 | 129.9 | 28.76 | 126.5 | 28.16 | 123.5 | 27.25 | 119.6 | 26.30 | 113.1 | 23.69 |
| | | 347.0 | 135.0 | 29.97 | 132.1 | 29.19 | 128.0 | 28.56 | 125.0 | 27.40 | 120.9 | 26.22 | 114.2 | 23.79 |
| | | 433.8 | 135.7 | 29.86 | 131.7 | 29.19 | 128.6 | 28.68 | 125.5 | 27.50 | 121.4 | 26.33 | 114.7 | 24.61 |
| | | 520.5 | 136.0 | 29.79 | 131.4 | 29.19 | 128.8 | 28.74 | 125.7 | 27.56 | 121.6 | 26.40 | 115.0 | 25.02 |
| | 15 | 138.8 | 132.2 | 26.12 | 129.6 | 25.37 | 125.8 | 24.97 | 122.9 | 24.59 | 119.0 | 23.61 | 112.4 | 21.40 |
| | | 173.5 | 133.0 | 26.18 | 130.4 | 25.42 | 126.5 | 25.02 | 123.5 | 24.49 | 119.6 | 23.43 | 113.1 | 21.30 |
| | | 347.0 | 136.0 | 26.40 | 133.5 | 25.64 | 129.4 | 25.19 | 126.3 | 24.14 | 122.1 | 22.73 | 115.5 | 20.93 |
| | | 433.8 | 136.8 | 26.00 | 133.5 | 25.42 | 130.4 | 25.19 | 127.3 | 24.14 | 123.2 | 22.73 | 116.5 | 22.36 |
| | | 520.5 | 137.3 | 25.80 | 133.4 | 25.30 | 131.1 | 25.19 | 127.8 | 24.14 | 123.7 | 22.73 | 117.0 | 23.08 |
| | 20 | 138.8 | 136.0 | 23.51 | 133.4 | 22.50 | 129.3 | 21.90 | 125.8 | 21.58 | 121.6 | 21.32 | 115.2 | 20.24 |
| | | 173.5 | 136.8 | 23.51 | 134.2 | 22.58 | 130.1 | 22.00 | 126.5 | 21.67 | 122.4 | 21.30 | 115.7 | 20.17 |
| | | 347.0 | 140.4 | 23.51 | 137.3 | 22.91 | 132.9 | 22.36 | 129.8 | 22.00 | 125.5 | 21.23 | 118.5 | 19.87 |
| | | 433.8 | 140.9 | 23.28 | 137.3 | 22.73 | 134.0 | 22.36 | 130.4 | 22.00 | 126.3 | 21.30 | 119.3 | 20.60 |
| | | 520.5 | 141.2 | 23.18 | 137.3 | 22.63 | 134.5 | 22.36 | 130.9 | 22.00 | 126.5 | 21.33 | 119.6 | 20.97 |
| | 25 | 138.8 | 142.5 | 22.23 | 138.4 | 21.20 | 134.0 | 20.80 | 131.1 | 20.32 | 127.6 | 19.95 | 120.6 | 18.56 |
| | | 173.5 | 142.7 | 22.15 | 138.4 | 21.15 | 134.0 | 20.75 | 131.1 | 20.24 | 127.6 | 19.87 | 120.6 | 18.46 |
| | | 347.0 | 143.0 | 21.80 | 138.4 | 21.00 | 134.0 | 20.60 | 131.1 | 19.87 | 127.6 | 19.54 | 120.6 | 18.11 |
| | | 433.8 | 143.5 | 21.00 | 138.4 | 20.45 | 134.0 | 20.24 | 131.1 | 19.87 | 127.6 | 19.17 | 120.6 | 18.11 |
| | | 520.5 | 143.5 | 20.60 | 138.4 | 20.17 | 134.0 | 20.05 | 131.1 | 19.87 | 127.6 | 18.99 | 120.6 | 18.11 |
| | 30 | 138.8 | 143.5 | 21.25 | 138.4 | 20.22 | 134.0 | 19.64 | 131.1 | 18.89 | 127.6 | 18.66 | 120.6 | 17.13 |
| | | 173.5 | 143.5 | 21.08 | 138.4 | 20.09 | 134.0 | 19.54 | 131.1 | 18.81 | 127.6 | 18.46 | 120.6 | 17.03 |
| | | 347.0 | 143.5 | 20.37 | 138.4 | 19.62 | 134.0 | 19.17 | 131.1 | 18.46 | 127.6 | 17.73 | 120.6 | 16.68 |
| | | 433.8 | 143.5 | 19.72 | 138.4 | 19.17 | 134.0 | 18.81 | 131.1 | 18.46 | 127.6 | 17.73 | 120.6 | 16.35 |
| | | 520.5 | 143.5 | 19.39 | 138.4 | 18.94 | 134.0 | 18.61 | 131.1 | 18.46 | 127.6 | 17.73 | 120.6 | 16.18 |
| | 35 | 138.8 | 143.5 | 20.30 | 138.4 | 19.19 | 134.0 | 18.66 | 131.1 | 17.91 | 127.6 | 17.21 | 120.6 | 15.70 |
| | | 173.5 | 143.5 | 20.02 | 138.4 | 19.02 | 134.0 | 18.46 | 131.1 | 17.73 | 127.6 | 17.03 | 120.6 | 15.60 |
| | | 347.0 | 143.5 | 18.89 | 138.4 | 18.33 | 134.0 | 17.73 | 131.1 | 17.03 | 127.6 | 16.35 | 120.6 | 15.27 |
| | | 433.8 | 143.5 | 18.66 | 138.4 | 18.18 | 134.0 | 17.73 | 131.1 | 17.03 | 127.6 | 16.35 | 120.6 | 14.92 |
| | | 520.5 | 143.5 | 18.54 | 138.4 | 18.11 | 134.0 | 17.73 | 131.1 | 17.03 | 127.6 | 16.35 | 120.6 | 14.72 |
| | 40 | 138.8 | 143.5 | 19.69 | 138.4 | 18.31 | 134.0 | 17.58 | 131.1 | 16.85 | 127.6 | 16.15 | 120.6 | 14.62 |
| | | 173.5 | 143.5 | 19.32 | 138.4 | 18.11 | 134.0 | 17.41 | 131.1 | 16.68 | 127.6 | 15.98 | 120.6 | 14.54 |
| | | 347.0 | 143.5 | 17.81 | 138.4 | 17.26 | 134.0 | 16.68 | 131.1 | 15.98 | 127.6 | 15.27 | 120.6 | 14.22 |
| | | 433.8 | 143.5 | 17.58 | 138.4 | 17.03 | 134.0 | 16.68 | 131.1 | 15.98 | 127.6 | 15.27 | 120.6 | 13.84 |
| | | 520.5 | 143.5 | 17.48 | 138.4 | 16.93 | 134.0 | 16.68 | 131.1 | 15.98 | 127.6 | 15.27 | 120.6 | 13.66 |
| | 45 | 138.8 | 143.5 | 19.09 | 138.4 | 17.43 | 134.0 | 16.53 | 131.1 | 15.78 | 127.6 | 15.09 | 120.6 | 13.56 |
| | | 173.5 | 143.5 | 18.61 | 138.4 | 17.18 | 134.0 | 16.35 | 131.1 | 15.60 | 127.6 | 14.92 | 120.6 | 13.49 |
| | | 347.0 | 143.5 | 16.75 | 138.4 | 16.20 | 134.0 | 15.60 | 131.1 | 14.92 | 127.6 | 14.22 | 120.6 | 13.14 |
| | | 433.8 | 143.5 | 16.53 | 138.4 | 15.90 | 134.0 | 15.60 | 131.1 | 14.92 | 127.6 | 14.22 | 120.6 | 12.78 |
| | | 520.5 | 143.5 | 16.42 | 138.4 | 15.75 | 134.0 | 15.60 | 131.1 | 14.92 | 127.6 | 14.22 | 120.6 | 12.59 |
| 110 | -5 | 138.8 | 48.3 | 22.60 | 47.9 | 21.00 | 47.6 | 19.54 | 47.1 | 18.72 | 47.3 | 18.19 | 46.3 | 16.28 |
| | | 173.5 | 49.9 | 22.98 | 49.6 | 21.40 | 49.3 | 19.97 | 48.8 | 19.14 | 48.9 | 18.59 | 47.8 | 16.63 |
| | | 347.0 | 56.3 | 24.54 | 56.1 | 23.03 | 55.8 | 21.67 | 55.3 | 20.75 | 55.3 | 20.17 | 54.0 | 18.06 |
| | | 433.8 | 62.3 | 26.12 | 62.0 | 24.61 | 61.7 | 23.36 | 60.9 | 22.40 | 60.9 | 21.75 | 59.7 | 19.47 |
| | | 520.5 | 65.3 | 26.90 | 64.8 | 25.40 | 64.5 | 24.21 | 63.8 | 23.23 | 63.8 | 22.53 | 62.5 | 20.17 |
| | 0 | 138.8 | 86.2 | 30.92 | 84.3 | 29.59 | 82.5 | 28.63 | 81.0 | 27.43 | 80.2 | 26.65 | 77.2 | 23.84 |
| | | 173.5 | 86.7 | 31.00 | 84.8 | 29.67 | 83.0 | 28.71 | 81.5 | 27.50 | 80.7 | 26.73 | 77.7 | 23.91 |
| | | 347.0 | 88.7 | 31.30 | 86.9 | 29.97 | 84.9 | 29.04 | 83.3 | 27.83 | 82.6 | 27.03 | 79.5 | 24.21 |
| | | 433.8 | 90.0 | 31.30 | 88.2 | 29.97 | 86.4 | 29.04 | 84.6 | 27.83 | 83.8 | 27.03 | 80.5 | 24.21 |
| | | 520.5 | 90.8 | 31.30 | 89.0 | 29.97 | 86.9 | 29.04 | 85.1 | 27.83 | 84.6 | 27.03 | 81.2 | 24.21 |
| | 5 | 138.8 | 125.7 | 33.23 | 122.7 | 31.98 | 119.8 | 31.17 | 117.2 | 29.84 | 112.6 | 29.01 | 107.2 | 25.97 |
| | | 173.5 | 126.2 | 33.38 | 122.9 | 32.13 | 119.9 | 31.32 | 117.2 | 30.01 | 112.6 | 29.16 | 107.2 | 26.12 |
| | | 347.0 | 127.8 | 33.96 | 123.9 | 32.73 | 120.1 | 31.95 | 117.2 | 30.62 | 112.6 | 29.74 | 107.2 | 26.63 |
| | | 433.8 | 128.6 | 34.19 | 124.2 | 32.93 | 120.1 | 32.17 | 117.2 | 30.85 | 112.6 | 29.97 | 107.2 | 26.80 |
| | | 520.5 | 129.1 | 34.31 | 124.4 | 33.05 | 120.1 | 32.28 | 117.2 | 30.97 | 112.6 | 30.07 | 107.2 | 26.90 |
| | 10 | 138.8 | 126.2 | 29.79 | 123.2 | 28.78 | 119.8 | 28.16 | 117.0 | 27.20 | 112.4 | 26.32 | 107.0 | 23.66 |
| | | 173.5 | 126.8 | 29.86 | 123.4 | 28.86 | 119.9 | 28.23 | 117.2 | 27.25 | 112.6 | 26.30 | 107.2 | 23.69 |
| | | 347.0 | 128.6 | 30.07 | 124.7 | 29.19 | 120.6 | 28.56 | 118.0 | 27.40 | 113.4 | 26.22 | 107.7 | 23.79 |
| | | 433.8 | 129.3 | 30.07 | 125.2 | 29.19 | 121.1 | 28.51 | 118.1 | 27.33 | 113.6 | 26.33 | 108.0 | 24.06 |
| | | 520.5 | 129.6 | 30.07 | 125.5 | 29.19 | 121.4 | 28.46 | 118.3 | 27.28 | 113.7 | 26.40 | 108.2 | 24.19 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 138.8 | 126.5 | 26.37 | 123.2 | 25.64 | 119.6 | 25.19 | 116.8 | 24.59 | 112.4 | 23.61 | 107.0 | 21.40 |
| | | 173.5 | 127.0 | 26.33 | 123.7 | 25.64 | 120.1 | 25.19 | 117.2 | 24.49 | 112.6 | 23.43 | 107.2 | 21.30 |
| | | 347.0 | 129.3 | 26.18 | 125.5 | 25.64 | 121.4 | 25.19 | 118.5 | 24.14 | 114.2 | 22.73 | 108.3 | 20.93 |
| | | 433.8 | 129.9 | 26.00 | 126.2 | 25.42 | 122.1 | 24.87 | 119.0 | 23.79 | 114.4 | 22.73 | 108.8 | 21.30 |
| | | 520.5 | 130.4 | 25.90 | 126.5 | 25.30 | 122.4 | 24.69 | 119.3 | 23.63 | 114.7 | 22.73 | 109.3 | 21.48 |
| | 20 | 138.8 | 128.9 | 22.76 | 125.5 | 22.23 | 121.4 | 21.67 | 118.0 | 21.30 | 113.9 | 20.70 | 107.8 | 19.36 |
| | | 173.5 | 129.6 | 22.81 | 125.8 | 22.23 | 121.7 | 21.67 | 118.5 | 21.30 | 114.2 | 20.60 | 108.3 | 19.32 |
| | | 347.0 | 132.4 | 22.98 | 127.5 | 22.23 | 123.2 | 21.67 | 120.3 | 21.30 | 115.5 | 20.24 | 109.8 | 19.17 |
| | | 433.8 | 133.2 | 22.98 | 128.6 | 22.23 | 123.9 | 21.67 | 120.6 | 20.93 | 116.2 | 20.24 | 110.3 | 19.17 |
| | | 520.5 | 133.5 | 22.98 | 129.1 | 22.23 | 124.2 | 21.67 | 120.9 | 20.75 | 116.5 | 20.24 | 110.3 | 19.17 |
| | 25 | 138.8 | 132.9 | 20.72 | 129.1 | 19.95 | 123.9 | 19.64 | 121.1 | 18.89 | 117.0 | 18.19 | 110.6 | 16.68 |
| | | 173.5 | 133.2 | 20.67 | 129.1 | 19.87 | 123.9 | 19.54 | 121.1 | 18.81 | 117.0 | 18.11 | 110.6 | 16.68 |
| | | 347.0 | 134.2 | 20.52 | 129.1 | 19.54 | 123.9 | 19.17 | 121.1 | 18.46 | 117.0 | 17.73 | 110.6 | 16.68 |
| | | 433.8 | 135.0 | 20.52 | 129.1 | 19.62 | 123.9 | 18.81 | 121.1 | 18.46 | 117.0 | 17.41 | 110.6 | 16.35 |
| | | 520.5 | 135.3 | 20.52 | 129.1 | 19.64 | 123.9 | 18.61 | 121.1 | 18.46 | 117.0 | 17.23 | 110.6 | 16.18 |
| | 30 | 138.8 | 135.0 | 18.89 | 129.1 | 18.19 | 123.9 | 17.51 | 121.1 | 17.13 | 117.0 | 16.07 | 110.6 | 15.00 |
| | | 173.5 | 135.0 | 18.81 | 129.1 | 18.11 | 123.9 | 17.41 | 121.1 | 17.03 | 117.0 | 15.98 | 110.6 | 14.92 |
| | | 347.0 | 135.0 | 18.46 | 129.1 | 17.73 | 123.9 | 17.03 | 121.1 | 16.68 | 117.0 | 15.60 | 110.6 | 14.54 |
| | | 433.8 | 135.0 | 18.33 | 129.1 | 17.41 | 123.9 | 16.68 | 121.1 | 16.35 | 117.0 | 15.60 | 110.6 | 14.54 |
| | | 520.5 | 135.0 | 18.26 | 129.1 | 17.23 | 123.9 | 16.48 | 121.1 | 16.18 | 117.0 | 15.60 | 110.6 | 14.54 |
| | 35 | 138.8 | 135.0 | 17.91 | 129.1 | 16.75 | 123.9 | 16.07 | 121.1 | 15.37 | 117.0 | 14.62 | 110.6 | 13.56 |
| | | 173.5 | 135.0 | 17.73 | 129.1 | 16.68 | 123.9 | 15.98 | 121.1 | 15.27 | 117.0 | 14.54 | 110.6 | 13.49 |
| | | 347.0 | 135.0 | 17.03 | 129.1 | 16.35 | 123.9 | 15.60 | 121.1 | 14.92 | 117.0 | 14.22 | 110.6 | 13.14 |
| | | 433.8 | 135.0 | 16.60 | 129.1 | 15.98 | 123.9 | 15.27 | 121.1 | 14.92 | 117.0 | 14.22 | 110.6 | 13.14 |
| | | 520.5 | 135.0 | 16.38 | 129.1 | 15.80 | 123.9 | 15.12 | 121.1 | 14.92 | 117.0 | 14.22 | 110.6 | 13.14 |
| | 40 | 138.8 | 135.0 | 16.85 | 129.1 | 16.15 | 123.9 | 15.09 | 121.1 | 14.31 | 117.0 | 13.56 | 110.6 | 12.51 |
| | | 173.5 | 135.0 | 16.68 | 129.1 | 15.98 | 123.9 | 14.92 | 121.1 | 14.22 | 117.0 | 13.49 | 110.6 | 12.41 |
| | | 347.0 | 135.0 | 15.98 | 129.1 | 15.27 | 123.9 | 14.22 | 121.1 | 13.84 | 117.0 | 13.14 | 110.6 | 12.08 |
| | | 433.8 | 135.0 | 15.75 | 129.1 | 14.92 | 123.9 | 14.22 | 121.1 | 13.49 | 117.0 | 12.78 | 110.6 | 11.71 |
| | | 520.5 | 135.0 | 15.65 | 129.1 | 14.72 | 123.9 | 14.22 | 121.1 | 13.29 | 117.0 | 12.59 | 110.6 | 11.53 |
| | 45 | 138.8 | 135.0 | 15.78 | 129.1 | 15.55 | 123.9 | 14.12 | 121.1 | 13.24 | 117.0 | 12.51 | 110.6 | 11.43 |
| | | 173.5 | 135.0 | 15.60 | 129.1 | 15.27 | 123.9 | 13.84 | 121.1 | 13.14 | 117.0 | 12.41 | 110.6 | 11.35 |
| | | 347.0 | 135.0 | 14.92 | 129.1 | 14.22 | 123.9 | 12.78 | 121.1 | 12.78 | 117.0 | 12.08 | 110.6 | 11.02 |
| | | 433.8 | 135.0 | 14.92 | 129.1 | 13.84 | 123.9 | 13.14 | 121.1 | 12.08 | 117.0 | 11.35 | 110.6 | 10.28 |
| | | 520.5 | 135.0 | 14.92 | 129.1 | 13.66 | 123.9 | 13.34 | 121.1 | 11.73 | 117.0 | 10.98 | 110.6 | 9.92 |
| 100 | -5 | 138.8 | 45.5 | 22.60 | 45.3 | 21.30 | 45.0 | 19.54 | 44.7 | 18.72 | 44.2 | 17.89 | 43.4 | 16.28 |
| | | 173.5 | 47.1 | 22.98 | 46.8 | 21.70 | 46.6 | 19.97 | 46.3 | 19.14 | 45.8 | 18.29 | 45.0 | 16.63 |
| | | 347.0 | 53.5 | 24.54 | 53.0 | 23.31 | 52.7 | 21.67 | 52.2 | 20.75 | 51.7 | 19.87 | 50.9 | 18.06 |
| | | 433.8 | 58.9 | 26.12 | 58.6 | 24.94 | 58.1 | 23.36 | 57.6 | 22.40 | 57.3 | 21.40 | 56.3 | 19.47 |
| | | 520.5 | 61.7 | 26.90 | 61.2 | 25.75 | 61.0 | 24.21 | 60.4 | 23.23 | 60.1 | 22.18 | 58.9 | 20.17 |
| | 0 | 138.8 | 81.5 | 30.92 | 79.7 | 29.99 | 77.9 | 28.63 | 76.6 | 27.43 | 75.3 | 26.25 | 72.8 | 23.84 |
| | | 173.5 | 82.0 | 31.00 | 80.2 | 30.07 | 78.4 | 28.71 | 77.1 | 27.50 | 75.8 | 26.33 | 73.0 | 23.91 |
| | | 347.0 | 83.8 | 31.30 | 82.0 | 30.37 | 80.2 | 29.04 | 78.9 | 27.83 | 77.6 | 26.63 | 74.8 | 24.21 |
| | | 433.8 | 85.1 | 31.30 | 83.3 | 30.37 | 81.5 | 29.04 | 80.0 | 27.83 | 78.7 | 26.63 | 75.9 | 24.21 |
| | | 520.5 | 85.9 | 31.30 | 84.1 | 30.37 | 82.3 | 29.04 | 80.7 | 27.83 | 79.2 | 26.63 | 76.6 | 24.21 |
| | 5 | 138.8 | 120.3 | 33.23 | 116.2 | 32.43 | 113.2 | 31.17 | 111.1 | 29.84 | 105.7 | 28.56 | 100.8 | 25.97 |
| | | 173.5 | 120.6 | 33.38 | 116.5 | 32.58 | 113.4 | 31.32 | 111.1 | 30.01 | 105.7 | 28.71 | 100.8 | 26.12 |
| | | 347.0 | 122.4 | 33.96 | 117.3 | 33.16 | 113.4 | 31.95 | 111.1 | 30.62 | 105.7 | 29.31 | 100.8 | 26.63 |
| | | 433.8 | 123.2 | 34.19 | 117.5 | 33.38 | 113.4 | 32.17 | 111.1 | 30.85 | 105.7 | 29.49 | 100.8 | 26.80 |
| | | 520.5 | 123.4 | 34.31 | 117.8 | 33.48 | 113.4 | 32.28 | 111.1 | 30.97 | 105.7 | 29.59 | 100.8 | 26.90 |
| | 10 | 138.8 | 120.9 | 29.72 | 116.7 | 29.06 | 113.4 | 28.16 | 111.1 | 27.20 | 105.7 | 25.87 | 100.8 | 23.66 |
| | | 173.5 | 121.1 | 29.86 | 116.8 | 29.16 | 113.4 | 28.23 | 111.1 | 27.25 | 105.7 | 25.90 | 100.8 | 23.69 |
| | | 347.0 | 122.4 | 30.42 | 117.5 | 29.54 | 113.4 | 28.56 | 111.1 | 27.40 | 105.7 | 26.00 | 100.8 | 23.79 |
| | | 433.8 | 123.2 | 30.29 | 118.0 | 29.54 | 113.4 | 28.51 | 111.1 | 27.33 | 105.7 | 25.92 | 100.8 | 23.69 |
| | | 520.5 | 123.7 | 30.24 | 118.3 | 29.54 | 113.4 | 28.46 | 111.1 | 27.28 | 105.7 | 25.90 | 100.8 | 23.64 |
| | 15 | 138.8 | 121.6 | 26.20 | 117.0 | 25.77 | 113.4 | 25.19 | 111.1 | 24.59 | 105.7 | 23.16 | 100.8 | 21.40 |
| | | 173.5 | 121.7 | 26.33 | 117.2 | 25.77 | 113.4 | 25.19 | 111.1 | 24.49 | 105.7 | 23.06 | 100.8 | 21.30 |
| | | 347.0 | 122.4 | 26.85 | 117.5 | 25.85 | 113.4 | 25.19 | 111.1 | 24.14 | 105.7 | 22.73 | 100.8 | 20.93 |
| | | 433.8 | 123.4 | 26.40 | 118.1 | 25.64 | 113.4 | 24.87 | 111.1 | 23.79 | 105.7 | 22.36 | 100.8 | 20.60 |
| | | 520.5 | 123.9 | 26.17 | 118.5 | 25.52 | 113.4 | 24.69 | 111.1 | 23.63 | 105.7 | 22.18 | 100.8 | 20.44 |
| | 20 | 138.8 | 122.2 | 22.41 | 117.8 | 21.83 | 113.4 | 21.30 | 111.1 | 21.02 | 105.7 | 19.64 | 100.8 | 18.66 |
| | | 173.5 | 122.7 | 22.51 | 117.8 | 21.85 | 113.4 | 21.30 | 111.1 | 20.93 | 105.7 | 19.54 | 100.8 | 18.46 |
| | | 347.0 | 124.5 | 22.91 | 118.1 | 21.93 | 113.4 | 21.30 | 111.1 | 20.60 | 105.7 | 19.17 | 100.8 | 17.73 |
| | | 433.8 | 125.2 | 22.51 | 119.3 | 21.75 | 113.4 | 20.93 | 111.1 | 20.24 | 105.7 | 18.81 | 100.8 | 17.41 |
| | | 520.5 | 125.5 | 22.31 | 119.8 | 21.65 | 113.4 | 20.75 | 111.1 | 20.05 | 105.7 | 18.61 | 100.8 | 17.23 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 138.8 | 123.7 | 19.59 | 119.6 | 18.99 | 113.4 | 18.19 | 111.1 | 17.51 | 105.7 | 16.43 | 100.8 | 14.92 |
| | | 173.5 | 124.2 | 19.62 | 119.6 | 18.89 | 113.4 | 18.11 | 111.1 | 17.41 | 105.7 | 16.35 | 100.8 | 14.92 |
| | | 347.0 | 126.0 | 19.69 | 119.6 | 18.46 | 113.4 | 17.73 | 111.1 | 17.03 | 105.7 | 15.98 | 100.8 | 14.92 |
| | | 433.8 | 126.5 | 19.24 | 119.6 | 18.33 | 113.4 | 17.41 | 111.1 | 16.68 | 105.7 | 15.98 | 100.8 | 14.54 |
| | | 520.5 | 127.0 | 19.02 | 119.6 | 18.26 | 113.4 | 17.23 | 111.1 | 16.48 | 105.7 | 15.98 | 100.8 | 14.37 |
| | 30 | 138.8 | 126.5 | 17.83 | 119.6 | 16.43 | 113.4 | 15.32 | 111.1 | 15.00 | 105.7 | 13.84 | 100.8 | 13.24 |
| | | 173.5 | 126.5 | 17.73 | 119.6 | 16.35 | 113.4 | 15.27 | 111.1 | 14.92 | 105.7 | 13.84 | 100.8 | 13.14 |
| | | 347.0 | 126.5 | 17.41 | 119.6 | 15.98 | 113.4 | 15.12 | 111.1 | 14.54 | 105.7 | 13.84 | 100.8 | 12.78 |
| | | 433.8 | 126.5 | 17.03 | 119.6 | 15.98 | 113.4 | 14.92 | 111.1 | 14.54 | 105.7 | 13.49 | 100.8 | 12.78 |
| | | 520.5 | 126.5 | 16.85 | 119.6 | 15.98 | 113.4 | 14.80 | 111.1 | 14.54 | 105.7 | 13.29 | 100.8 | 12.78 |
| | 35 | 138.8 | 126.5 | 16.53 | 119.6 | 15.09 | 113.4 | 13.51 | 111.1 | 13.24 | 105.7 | 12.51 | 100.8 | 11.43 |
| | | 173.5 | 126.5 | 16.35 | 119.6 | 14.92 | 113.4 | 13.49 | 111.1 | 13.14 | 105.7 | 12.41 | 100.8 | 11.35 |
| | | 347.0 | 126.5 | 15.60 | 119.6 | 14.22 | 113.4 | 13.34 | 111.1 | 12.78 | 105.7 | 12.08 | 100.8 | 11.02 |
| | | 433.8 | 126.5 | 15.60 | 119.6 | 14.22 | 113.4 | 13.14 | 111.1 | 12.78 | 105.7 | 12.08 | 100.8 | 11.02 |
| | | 520.5 | 126.5 | 15.60 | 119.6 | 14.22 | 113.4 | 13.06 | 111.1 | 12.78 | 105.7 | 12.08 | 100.8 | 11.02 |
| | 40 | 138.8 | 126.5 | 15.47 | 119.6 | 14.02 | 113.4 | 12.11 | 111.1 | 11.81 | 105.7 | 11.10 | 100.8 | 10.37 |
| | | 173.5 | 126.5 | 15.27 | 119.6 | 13.84 | 113.4 | 12.08 | 111.1 | 11.71 | 105.7 | 11.02 | 100.8 | 10.28 |
| | | 347.0 | 126.5 | 14.54 | 119.6 | 13.14 | 113.4 | 11.93 | 111.1 | 11.35 | 105.7 | 10.65 | 100.8 | 9.95 |
| | | 433.8 | 126.5 | 14.22 | 119.6 | 13.14 | 113.4 | 11.71 | 111.1 | 11.35 | 105.7 | 10.65 | 100.8 | 9.95 |
| | | 520.5 | 126.5 | 14.04 | 119.6 | 13.14 | 113.4 | 11.60 | 111.1 | 11.35 | 105.7 | 10.65 | 100.8 | 9.95 |
| | 45 | 138.8 | 126.5 | 14.39 | 119.6 | 12.96 | 113.4 | 10.68 | 111.1 | 10.37 | 105.7 | 9.67 | 100.8 | 9.30 |
| | | 173.5 | 126.5 | 14.22 | 119.6 | 12.78 | 113.4 | 10.65 | 111.1 | 10.28 | 105.7 | 9.59 | 100.8 | 9.22 |
| | | 347.0 | 126.5 | 13.49 | 119.6 | 12.08 | 113.4 | 10.50 | 111.1 | 9.95 | 105.7 | 9.22 | 100.8 | 8.89 |
| | | 433.8 | 126.5 | 12.78 | 119.6 | 12.08 | 113.4 | 10.28 | 111.1 | 9.95 | 105.7 | 9.22 | 100.8 | 8.89 |
| | | 520.5 | 126.5 | 12.43 | 119.6 | 12.08 | 113.4 | 10.17 | 111.1 | 9.95 | 105.7 | 9.22 | 100.8 | 8.89 |
| 90 | -5 | 138.8 | 43.0 | 20.97 | 41.7 | 19.09 | 40.4 | 16.78 | 40.1 | 16.00 | 39.9 | 15.42 | 39.1 | 13.84 |
| | | 173.5 | 44.5 | 21.33 | 43.2 | 19.47 | 41.9 | 17.15 | 41.6 | 16.35 | 41.2 | 15.75 | 40.6 | 14.14 |
| | | 347.0 | 50.4 | 22.76 | 48.9 | 20.90 | 47.3 | 18.61 | 47.1 | 17.73 | 46.8 | 17.11 | 45.8 | 15.35 |
| | | 433.8 | 55.8 | 24.21 | 54.0 | 22.36 | 52.2 | 20.09 | 51.9 | 19.14 | 51.7 | 18.44 | 50.7 | 16.55 |
| | | 520.5 | 58.4 | 24.92 | 56.5 | 23.11 | 54.8 | 20.82 | 54.3 | 19.84 | 54.0 | 19.09 | 53.0 | 17.18 |
| | 0 | 138.8 | 76.9 | 28.56 | 73.5 | 26.80 | 70.0 | 24.62 | 68.9 | 23.48 | 67.9 | 22.60 | 65.3 | 20.29 |
| | | 173.5 | 77.4 | 28.64 | 73.8 | 26.88 | 70.5 | 24.69 | 69.4 | 23.54 | 68.2 | 22.66 | 65.8 | 20.35 |
| | | 347.0 | 79.2 | 28.94 | 75.6 | 27.18 | 72.2 | 24.94 | 71.0 | 23.79 | 69.9 | 22.91 | 67.4 | 20.57 |
| | | 433.8 | 80.5 | 28.94 | 76.6 | 27.18 | 73.3 | 24.94 | 72.0 | 23.79 | 71.0 | 22.91 | 68.4 | 20.57 |
| | | 520.5 | 81.0 | 28.94 | 77.4 | 27.18 | 73.8 | 24.94 | 72.5 | 23.79 | 71.5 | 22.91 | 68.9 | 20.57 |
| | 5 | 138.8 | 108.8 | 30.67 | 105.2 | 28.94 | 101.8 | 26.80 | 99.8 | 25.54 | 95.4 | 24.59 | 90.8 | 22.08 |
| | | 173.5 | 108.8 | 30.82 | 105.2 | 29.09 | 101.8 | 26.92 | 99.8 | 25.67 | 95.4 | 24.72 | 90.8 | 22.18 |
| | | 347.0 | 109.3 | 31.37 | 104.9 | 29.64 | 101.8 | 27.43 | 99.8 | 26.18 | 95.4 | 25.22 | 90.8 | 22.63 |
| | | 433.8 | 109.8 | 31.55 | 105.2 | 29.82 | 101.8 | 27.65 | 99.8 | 26.37 | 95.4 | 25.42 | 90.8 | 22.81 |
| | | 520.5 | 110.3 | 31.65 | 105.4 | 29.91 | 101.8 | 27.76 | 99.8 | 26.45 | 95.4 | 25.50 | 90.8 | 22.91 |
| | 10 | 138.8 | 109.3 | 27.08 | 105.7 | 25.75 | 101.8 | 24.24 | 99.8 | 23.26 | 95.4 | 22.31 | 90.8 | 20.10 |
| | | 173.5 | 109.3 | 27.10 | 105.4 | 25.77 | 101.8 | 24.27 | 99.8 | 23.28 | 95.4 | 22.28 | 90.8 | 20.12 |
| | | 347.0 | 109.0 | 27.18 | 104.9 | 25.90 | 101.8 | 24.39 | 99.8 | 23.39 | 95.4 | 22.23 | 90.8 | 20.20 |
| | | 433.8 | 109.8 | 27.10 | 105.2 | 25.82 | 101.8 | 24.31 | 99.8 | 23.31 | 95.4 | 22.28 | 90.8 | 20.27 |
| | | 520.5 | 110.1 | 27.07 | 105.4 | 25.77 | 101.8 | 24.27 | 99.8 | 23.28 | 95.4 | 22.33 | 90.8 | 20.32 |
| | 15 | 138.8 | 109.8 | 23.46 | 106.0 | 22.61 | 101.8 | 21.75 | 99.8 | 21.02 | 95.4 | 20.04 | 90.8 | 18.19 |
| | | 173.5 | 109.8 | 23.36 | 105.7 | 22.51 | 101.8 | 21.67 | 99.8 | 20.93 | 95.4 | 19.87 | 90.8 | 18.11 |
| | | 347.0 | 109.0 | 22.98 | 105.1 | 22.15 | 101.8 | 21.30 | 99.8 | 20.60 | 95.4 | 19.17 | 90.8 | 17.73 |
| | | 433.8 | 109.8 | 22.66 | 105.4 | 21.80 | 101.8 | 20.93 | 99.8 | 20.24 | 95.4 | 19.17 | 90.8 | 17.73 |
| | | 520.5 | 110.1 | 22.48 | 105.5 | 21.65 | 101.8 | 20.75 | 99.8 | 20.05 | 95.4 | 19.17 | 90.8 | 17.73 |
| | 20 | 138.8 | 110.6 | 19.79 | 106.5 | 19.22 | 101.8 | 18.56 | 99.8 | 17.83 | 95.4 | 17.21 | 90.8 | 16.15 |
| | | 173.5 | 110.5 | 19.79 | 106.2 | 19.17 | 101.8 | 18.46 | 99.8 | 17.73 | 95.4 | 17.03 | 90.8 | 15.98 |
| | | 347.0 | 110.0 | 19.79 | 105.4 | 18.94 | 101.8 | 18.11 | 99.8 | 17.41 | 95.4 | 16.35 | 90.8 | 15.27 |
| | | 433.8 | 110.3 | 19.47 | 105.7 | 18.81 | 101.8 | 18.11 | 99.8 | 17.41 | 95.4 | 16.35 | 90.8 | 15.27 |
| | | 520.5 | 110.6 | 19.29 | 105.9 | 18.74 | 101.8 | 18.11 | 99.8 | 17.41 | 95.4 | 16.35 | 90.8 | 15.27 |
| | 25 | 138.8 | 112.4 | 17.30 | 107.8 | 16.38 | 101.8 | 15.70 | 99.8 | 14.92 | 95.4 | 14.31 | 90.8 | 13.24 |
| | | 173.5 | 112.6 | 17.26 | 107.8 | 16.35 | 101.8 | 15.60 | 99.8 | 14.92 | 95.4 | 14.22 | 90.8 | 13.14 |
| | | 347.0 | 113.7 | 17.11 | 107.8 | 16.20 | 101.8 | 15.27 | 99.8 | 14.92 | 95.4 | 13.84 | 90.8 | 12.78 |
| | | 433.8 | 114.2 | 16.68 | 107.8 | 15.83 | 101.8 | 15.27 | 99.8 | 14.54 | 95.4 | 13.84 | 90.8 | 12.78 |
| | | 520.5 | 114.4 | 16.45 | 107.8 | 15.65 | 101.8 | 15.27 | 99.8 | 14.37 | 95.4 | 13.84 | 90.8 | 12.78 |
| | 30 | 138.8 | 114.2 | 15.70 | 107.8 | 14.62 | 101.8 | 13.56 | 99.8 | 13.24 | 95.4 | 12.51 | 90.8 | 11.35 |
| | | 173.5 | 114.2 | 15.60 | 107.8 | 14.54 | 101.8 | 13.49 | 99.8 | 13.14 | 95.4 | 12.41 | 90.8 | 11.35 |
| | | 347.0 | 114.2 | 15.27 | 107.8 | 14.22 | 101.8 | 13.14 | 99.8 | 12.78 | 95.4 | 12.08 | 90.8 | 11.35 |
| | | 433.8 | 114.2 | 14.92 | 107.8 | 13.84 | 101.8 | 13.14 | 99.8 | 12.78 | 95.4 | 12.08 | 90.8 | 11.02 |
| | | 520.5 | 114.2 | 14.72 | 107.8 | 13.66 | 101.8 | 13.14 | 99.8 | 12.78 | 95.4 | 12.08 | 90.8 | 10.85 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 138.8 | 114.2 | 14.31 | 107.8 | 13.24 | 101.8 | 12.18 | 99.8 | 11.81 | 95.4 | 11.10 | 90.8 | 10.37 |
| | | 173.5 | 114.2 | 14.22 | 107.8 | 13.14 | 101.8 | 12.08 | 99.8 | 11.71 | 95.4 | 11.02 | 90.8 | 10.28 |
| | | 347.0 | 114.2 | 13.84 | 107.8 | 12.78 | 101.8 | 11.71 | 99.8 | 11.35 | 95.4 | 10.65 | 90.8 | 9.95 |
| | | 433.8 | 114.2 | 13.49 | 107.8 | 12.41 | 101.8 | 11.35 | 99.8 | 11.02 | 95.4 | 10.65 | 90.8 | 9.95 |
| | | 520.5 | 114.2 | 13.29 | 107.8 | 12.23 | 101.8 | 11.15 | 99.8 | 10.85 | 95.4 | 10.65 | 90.8 | 9.95 |
| | 40 | 138.8 | 114.2 | 13.34 | 107.8 | 12.18 | 101.8 | 10.75 | 99.8 | 10.37 | 95.4 | 10.05 | 90.8 | 9.30 |
| | | 173.5 | 114.2 | 13.14 | 107.8 | 12.08 | 101.8 | 10.65 | 99.8 | 10.28 | 95.4 | 9.95 | 90.8 | 9.22 |
| | | 347.0 | 114.2 | 12.41 | 107.8 | 11.71 | 101.8 | 10.28 | 99.8 | 9.95 | 95.4 | 9.59 | 90.8 | 8.89 |
| | | 433.8 | 114.2 | 12.41 | 107.8 | 11.71 | 101.8 | 10.28 | 99.8 | 9.95 | 95.4 | 9.59 | 90.8 | 8.89 |
| | | 520.5 | 114.2 | 12.41 | 107.8 | 11.71 | 101.8 | 10.28 | 99.8 | 9.95 | 95.4 | 9.59 | 90.8 | 8.89 |
| | 45 | 138.8 | 114.2 | 12.36 | 107.8 | 11.10 | 101.8 | 9.30 | 99.8 | 8.99 | 95.4 | 8.99 | 90.8 | 8.24 |
| | | 173.5 | 114.2 | 12.08 | 107.8 | 11.02 | 101.8 | 9.22 | 99.8 | 8.89 | 95.4 | 8.89 | 90.8 | 8.16 |
| | | 347.0 | 114.2 | 11.02 | 107.8 | 10.65 | 101.8 | 8.89 | 99.8 | 8.52 | 95.4 | 8.52 | 90.8 | 7.81 |
| | | 433.8 | 114.2 | 11.35 | 107.8 | 11.02 | 101.8 | 9.22 | 99.8 | 8.89 | 95.4 | 8.52 | 90.8 | 7.81 |
| | | 520.5 | 114.2 | 11.51 | 107.8 | 11.20 | 101.8 | 9.39 | 99.8 | 9.07 | 95.4 | 8.52 | 90.8 | 7.81 |
| 80 | -5 | 138.8 | 40.6 | 14.94 | 38.1 | 14.37 | 36.0 | 13.77 | 35.7 | 13.31 | 35.5 | 12.68 | 34.7 | 11.68 |
| | | 173.5 | 42.2 | 15.27 | 39.4 | 14.69 | 37.3 | 14.07 | 37.0 | 13.59 | 36.8 | 12.96 | 36.0 | 11.93 |
| | | 347.0 | 47.6 | 16.60 | 44.7 | 15.95 | 42.2 | 15.25 | 41.7 | 14.72 | 41.6 | 14.07 | 40.6 | 12.93 |
| | | 433.8 | 52.7 | 17.88 | 49.3 | 17.18 | 46.6 | 16.45 | 46.0 | 15.90 | 45.8 | 15.17 | 45.0 | 13.96 |
| | | 520.5 | 55.3 | 18.54 | 51.7 | 17.81 | 48.9 | 17.06 | 48.3 | 16.50 | 48.1 | 15.72 | 47.1 | 14.47 |
| | 0 | 138.8 | 72.7 | 21.93 | 67.1 | 21.05 | 62.5 | 20.17 | 61.2 | 19.49 | 60.4 | 18.56 | 58.1 | 17.10 |
| | | 173.5 | 73.0 | 22.00 | 67.4 | 21.12 | 62.7 | 20.24 | 61.7 | 19.54 | 60.7 | 18.61 | 58.4 | 17.15 |
| | | 347.0 | 74.8 | 22.25 | 68.9 | 21.37 | 64.3 | 20.45 | 63.0 | 19.77 | 62.2 | 18.84 | 59.9 | 17.33 |
| | | 433.8 | 75.9 | 22.25 | 70.0 | 21.37 | 65.3 | 20.45 | 64.0 | 19.77 | 63.2 | 18.84 | 60.7 | 17.33 |
| | | 520.5 | 76.4 | 22.25 | 70.5 | 21.37 | 65.8 | 20.45 | 64.5 | 19.77 | 63.7 | 18.84 | 61.2 | 17.33 |
| | 5 | 138.8 | 100.5 | 23.86 | 94.9 | 22.96 | 90.8 | 21.91 | 88.7 | 21.20 | 84.9 | 20.20 | 80.7 | 18.59 |
| | | 173.5 | 100.8 | 23.99 | 95.1 | 23.06 | 90.8 | 22.03 | 88.7 | 21.30 | 84.9 | 20.32 | 80.7 | 18.69 |
| | | 347.0 | 101.6 | 24.49 | 95.7 | 23.51 | 90.8 | 22.51 | 88.7 | 21.75 | 84.9 | 20.72 | 80.7 | 19.09 |
| | | 433.8 | 101.6 | 24.64 | 95.7 | 23.69 | 90.8 | 22.66 | 88.7 | 21.88 | 84.9 | 20.85 | 80.7 | 19.21 |
| | | 520.5 | 101.6 | 24.72 | 95.6 | 23.79 | 90.8 | 22.73 | 88.7 | 21.95 | 84.9 | 20.93 | 80.7 | 19.26 |
| | 10 | 138.8 | 101.1 | 21.95 | 95.2 | 20.95 | 90.8 | 19.89 | 88.7 | 19.34 | 84.9 | 18.31 | 80.7 | 16.96 |
| | | 173.5 | 101.1 | 21.93 | 95.4 | 20.93 | 90.8 | 19.90 | 88.7 | 19.36 | 84.9 | 18.33 | 80.7 | 16.96 |
| | | 347.0 | 101.6 | 21.80 | 95.7 | 20.82 | 90.8 | 19.94 | 88.7 | 19.39 | 84.9 | 18.36 | 80.7 | 17.00 |
| | | 433.8 | 101.6 | 21.75 | 95.7 | 20.90 | 90.8 | 20.02 | 88.7 | 19.29 | 84.9 | 18.26 | 80.7 | 16.90 |
| | | 520.5 | 101.6 | 21.70 | 95.6 | 20.93 | 90.8 | 20.05 | 88.7 | 19.22 | 84.9 | 18.19 | 80.7 | 16.83 |
| | 15 | 138.8 | 101.6 | 20.04 | 95.7 | 18.99 | 90.8 | 17.83 | 88.7 | 17.51 | 84.9 | 16.43 | 80.7 | 15.37 |
| | | 173.5 | 101.6 | 19.87 | 95.7 | 18.81 | 90.8 | 17.73 | 88.7 | 17.41 | 84.9 | 16.35 | 80.7 | 15.27 |
| | | 347.0 | 101.6 | 19.17 | 95.7 | 18.11 | 90.8 | 17.41 | 88.7 | 17.03 | 84.9 | 15.98 | 80.7 | 14.92 |
| | | 433.8 | 101.6 | 18.81 | 95.7 | 18.11 | 90.8 | 17.41 | 88.7 | 16.68 | 84.9 | 15.60 | 80.7 | 14.54 |
| | | 520.5 | 101.6 | 18.61 | 95.7 | 18.11 | 90.8 | 17.41 | 88.7 | 16.48 | 84.9 | 15.42 | 80.7 | 14.37 |
| | 20 | 138.8 | 101.6 | 16.75 | 95.7 | 16.07 | 90.8 | 15.27 | 88.7 | 15.00 | 84.9 | 14.31 | 80.7 | 13.24 |
| | | 173.5 | 101.6 | 16.68 | 95.7 | 15.98 | 90.8 | 15.27 | 88.7 | 14.92 | 84.9 | 14.22 | 80.7 | 13.14 |
| | | 347.0 | 101.6 | 16.35 | 95.7 | 15.60 | 90.8 | 15.27 | 88.7 | 14.54 | 84.9 | 13.84 | 80.7 | 12.78 |
| | | 433.8 | 101.6 | 15.98 | 95.7 | 15.27 | 90.8 | 14.92 | 88.7 | 14.54 | 84.9 | 13.49 | 80.7 | 12.78 |
| | | 520.5 | 101.6 | 15.80 | 95.7 | 15.12 | 90.8 | 14.72 | 88.7 | 14.54 | 84.9 | 13.29 | 80.7 | 12.78 |
| | 25 | 138.8 | 101.6 | 15.00 | 95.7 | 13.94 | 90.8 | 13.14 | 88.7 | 12.86 | 84.9 | 12.18 | 80.7 | 11.43 |
| | | 173.5 | 101.6 | 14.92 | 95.7 | 13.84 | 90.8 | 13.14 | 88.7 | 12.78 | 84.9 | 12.08 | 80.7 | 11.35 |
| | | 347.0 | 101.6 | 14.54 | 95.7 | 13.49 | 90.8 | 13.14 | 88.7 | 12.41 | 84.9 | 11.71 | 80.7 | 11.02 |
| | | 433.8 | 101.6 | 14.22 | 95.7 | 13.49 | 90.8 | 12.78 | 88.7 | 12.41 | 84.9 | 11.71 | 80.7 | 11.02 |
| | | 520.5 | 101.6 | 14.04 | 95.7 | 13.49 | 90.8 | 12.59 | 88.7 | 12.41 | 84.9 | 11.71 | 80.7 | 11.02 |
| | 30 | 138.8 | 101.6 | 13.24 | 95.7 | 12.51 | 90.8 | 11.81 | 88.7 | 11.43 | 84.9 | 10.75 | 80.7 | 10.05 |
| | | 173.5 | 101.6 | 13.14 | 95.7 | 12.41 | 90.8 | 11.71 | 88.7 | 11.35 | 84.9 | 10.65 | 80.7 | 9.95 |
| | | 347.0 | 101.6 | 12.78 | 95.7 | 12.08 | 90.8 | 11.35 | 88.7 | 11.02 | 84.9 | 10.28 | 80.7 | 9.59 |
| | | 433.8 | 101.6 | 12.78 | 95.7 | 12.08 | 90.8 | 11.35 | 88.7 | 11.02 | 84.9 | 10.28 | 80.7 | 9.59 |
| | | 520.5 | 101.6 | 12.78 | 95.7 | 12.08 | 90.8 | 11.35 | 88.7 | 11.02 | 84.9 | 10.28 | 80.7 | 9.59 |
| | 35 | 138.8 | 101.6 | 12.18 | 95.7 | 11.43 | 90.8 | 10.37 | 88.7 | 9.95 | 84.9 | 9.67 | 80.7 | 8.89 |
| | | 173.5 | 101.6 | 12.08 | 95.7 | 11.35 | 90.8 | 10.28 | 88.7 | 9.95 | 84.9 | 9.59 | 80.7 | 8.89 |
| | | 347.0 | 101.6 | 11.71 | 95.7 | 11.02 | 90.8 | 9.95 | 88.7 | 9.95 | 84.9 | 9.22 | 80.7 | 8.89 |
| | | 433.8 | 101.6 | 11.71 | 95.7 | 10.65 | 90.8 | 9.95 | 88.7 | 9.59 | 84.9 | 9.22 | 80.7 | 8.52 |
| | | 520.5 | 101.6 | 11.71 | 95.7 | 10.47 | 90.8 | 9.95 | 88.7 | 9.40 | 84.9 | 9.22 | 80.7 | 8.34 |
| | 40 | 138.8 | 101.6 | 11.53 | 95.7 | 10.37 | 90.8 | 9.22 | 88.7 | 9.30 | 84.9 | 8.52 | 80.7 | 8.24 |
| | | 173.5 | 101.6 | 11.35 | 95.7 | 10.28 | 90.8 | 9.22 | 88.7 | 9.22 | 84.9 | 8.52 | 80.7 | 8.16 |
| | | 347.0 | 101.6 | 10.65 | 95.7 | 9.95 | 90.8 | 9.22 | 88.7 | 8.89 | 84.9 | 8.52 | 80.7 | 7.81 |
| | | 433.8 | 101.6 | 10.65 | 95.7 | 9.95 | 90.8 | 8.89 | 88.7 | 8.89 | 84.9 | 8.52 | 80.7 | 7.81 |
| | | 520.5 | 101.6 | 10.65 | 95.7 | 9.95 | 90.8 | 8.72 | 88.7 | 8.89 | 84.9 | 8.52 | 80.7 | 7.81 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 138.8 | 101.6 | 10.92 | 95.7 | 9.30 | 90.8 | 8.06 | 88.7 | 8.69 | 84.9 | 7.36 | 80.7 | 7.63 |
| | | 173.5 | 101.6 | 10.65 | 95.7 | 9.22 | 90.8 | 8.16 | 88.7 | 8.52 | 84.9 | 7.46 | 80.7 | 7.46 |
| | | 347.0 | 101.6 | 9.59 | 95.7 | 8.89 | 90.8 | 8.52 | 88.7 | 7.81 | 84.9 | 7.81 | 80.7 | 6.76 |
| | | 433.8 | 101.6 | 9.59 | 95.7 | 9.22 | 90.8 | 7.81 | 88.7 | 8.16 | 84.9 | 7.81 | 80.7 | 7.08 |
| | | 520.5 | 101.6 | 9.59 | 95.7 | 9.39 | 90.8 | 7.46 | 88.7 | 8.32 | 84.9 | 7.81 | 80.7 | 7.26 |
| 70 | -5 | 138.8 | 35.5 | 12.83 | 33.4 | 12.21 | 31.6 | 11.83 | 31.1 | 11.15 | 31.1 | 10.75 | 30.6 | 9.77 |
| | | 173.5 | 36.8 | 13.11 | 34.5 | 12.48 | 32.6 | 12.08 | 32.4 | 11.38 | 32.1 | 10.98 | 31.6 | 10.00 |
| | | 347.0 | 41.6 | 14.22 | 39.1 | 13.56 | 36.8 | 13.11 | 36.5 | 12.33 | 36.3 | 11.90 | 35.7 | 10.83 |
| | | 433.8 | 46.0 | 15.35 | 43.2 | 14.62 | 40.6 | 14.14 | 40.4 | 13.29 | 40.1 | 12.86 | 39.3 | 11.68 |
| | | 520.5 | 48.3 | 15.92 | 45.2 | 15.15 | 42.7 | 14.67 | 42.4 | 13.77 | 41.9 | 13.34 | 41.2 | 12.11 |
| | 0 | 138.8 | 63.5 | 18.79 | 58.7 | 17.91 | 54.5 | 17.31 | 53.5 | 16.30 | 52.7 | 15.75 | 50.9 | 14.32 |
| | | 173.5 | 64.0 | 18.84 | 59.1 | 17.96 | 54.8 | 17.38 | 54.0 | 16.35 | 53.0 | 15.80 | 51.2 | 14.37 |
| | | 347.0 | 65.3 | 19.06 | 60.4 | 18.14 | 56.1 | 17.58 | 55.3 | 16.53 | 54.3 | 15.98 | 52.2 | 14.52 |
| | | 433.8 | 66.3 | 19.06 | 61.4 | 18.14 | 57.1 | 17.58 | 56.0 | 16.53 | 55.3 | 15.98 | 53.2 | 14.52 |
| | | 520.5 | 66.9 | 19.06 | 61.9 | 18.14 | 57.4 | 17.58 | 56.3 | 16.53 | 55.6 | 15.98 | 53.5 | 14.52 |
| | 5 | 138.8 | 87.7 | 20.47 | 83.1 | 19.47 | 79.2 | 18.84 | 77.6 | 17.76 | 74.1 | 17.13 | 70.5 | 15.57 |
| | | 173.5 | 88.0 | 20.57 | 83.3 | 19.57 | 79.2 | 18.94 | 77.6 | 17.86 | 74.1 | 17.23 | 70.5 | 15.65 |
| | | 347.0 | 88.7 | 20.97 | 84.1 | 19.97 | 79.2 | 19.36 | 77.6 | 18.18 | 74.1 | 17.58 | 70.5 | 15.98 |
| | | 433.8 | 88.7 | 21.12 | 83.8 | 20.12 | 79.2 | 19.49 | 77.6 | 18.33 | 74.1 | 17.71 | 70.5 | 16.08 |
| | | 520.5 | 88.7 | 21.20 | 83.8 | 20.20 | 79.2 | 19.57 | 77.6 | 18.41 | 74.1 | 17.76 | 70.5 | 16.15 |
| | 10 | 138.8 | 88.2 | 18.84 | 83.5 | 17.81 | 79.2 | 17.15 | 77.6 | 16.20 | 74.1 | 15.53 | 70.5 | 14.22 |
| | | 173.5 | 88.2 | 18.81 | 83.6 | 17.78 | 79.2 | 17.11 | 77.6 | 16.20 | 74.1 | 15.53 | 70.5 | 14.22 |
| | | 347.0 | 88.7 | 18.66 | 83.8 | 17.63 | 79.2 | 16.96 | 77.6 | 16.20 | 74.1 | 15.53 | 70.5 | 14.22 |
| | | 433.8 | 88.7 | 18.74 | 83.8 | 17.71 | 79.2 | 17.03 | 77.6 | 16.27 | 74.1 | 15.42 | 70.5 | 14.24 |
| | | 520.5 | 88.7 | 18.76 | 83.8 | 17.73 | 79.2 | 17.08 | 77.6 | 16.30 | 74.1 | 15.37 | 70.5 | 14.27 |
| | 15 | 138.8 | 88.7 | 17.21 | 83.8 | 16.15 | 79.2 | 15.47 | 77.6 | 14.62 | 74.1 | 13.94 | 70.5 | 12.86 |
| | | 173.5 | 88.7 | 17.03 | 83.8 | 15.98 | 79.2 | 15.27 | 77.6 | 14.54 | 74.1 | 13.84 | 70.5 | 12.78 |
| | | 347.0 | 88.7 | 16.35 | 83.8 | 15.27 | 79.2 | 14.54 | 77.6 | 14.22 | 74.1 | 13.49 | 70.5 | 12.41 |
| | | 433.8 | 88.7 | 16.35 | 83.8 | 15.27 | 79.2 | 14.54 | 77.6 | 14.22 | 74.1 | 13.14 | 70.5 | 12.41 |
| | | 520.5 | 88.7 | 16.35 | 83.8 | 15.27 | 79.2 | 14.54 | 77.6 | 14.22 | 74.1 | 12.98 | 70.5 | 12.41 |
| | 20 | 138.8 | 88.7 | 14.31 | 83.8 | 13.56 | 79.2 | 13.24 | 77.6 | 12.86 | 74.1 | 12.18 | 70.5 | 11.43 |
| | | 173.5 | 88.7 | 14.22 | 83.8 | 13.49 | 79.2 | 13.14 | 77.6 | 12.78 | 74.1 | 12.08 | 70.5 | 11.35 |
| | | 347.0 | 88.7 | 13.84 | 83.8 | 13.14 | 79.2 | 12.78 | 77.6 | 12.41 | 74.1 | 11.71 | 70.5 | 11.02 |
| | | 433.8 | 88.7 | 13.84 | 83.8 | 13.14 | 79.2 | 12.78 | 77.6 | 12.08 | 74.1 | 11.71 | 70.5 | 10.65 |
| | | 520.5 | 88.7 | 13.84 | 83.8 | 13.14 | 79.2 | 12.78 | 77.6 | 11.91 | 74.1 | 11.71 | 70.5 | 10.47 |
| | 25 | 138.8 | 88.7 | 12.86 | 83.8 | 12.18 | 79.2 | 11.43 | 77.6 | 11.10 | 74.1 | 10.28 | 70.5 | 9.59 |
| | | 173.5 | 88.7 | 12.78 | 83.8 | 12.08 | 79.2 | 11.35 | 77.6 | 11.02 | 74.1 | 10.28 | 70.5 | 9.59 |
| | | 347.0 | 88.7 | 12.41 | 83.8 | 11.71 | 79.2 | 11.02 | 77.6 | 10.65 | 74.1 | 10.28 | 70.5 | 9.59 |
| | | 433.8 | 88.7 | 12.08 | 83.8 | 11.35 | 79.2 | 11.02 | 77.6 | 10.65 | 74.1 | 9.95 | 70.5 | 9.59 |
| | | 520.5 | 88.7 | 11.91 | 83.8 | 11.15 | 79.2 | 11.02 | 77.6 | 10.65 | 74.1 | 9.79 | 70.5 | 9.59 |
| | 30 | 138.8 | 88.7 | 11.43 | 83.8 | 10.75 | 79.2 | 10.05 | 77.6 | 9.59 | 74.1 | 9.30 | 70.5 | 8.52 |
| | | 173.5 | 88.7 | 11.35 | 83.8 | 10.65 | 79.2 | 9.95 | 77.6 | 9.59 | 74.1 | 9.22 | 70.5 | 8.52 |
| | | 347.0 | 88.7 | 11.02 | 83.8 | 10.28 | 79.2 | 9.59 | 77.6 | 9.59 | 74.1 | 8.89 | 70.5 | 8.52 |
| | | 433.8 | 88.7 | 11.02 | 83.8 | 10.28 | 79.2 | 9.59 | 77.6 | 9.22 | 74.1 | 8.89 | 70.5 | 8.52 |
| | | 520.5 | 88.7 | 11.02 | 83.8 | 10.28 | 79.2 | 9.59 | 77.6 | 9.04 | 74.1 | 8.89 | 70.5 | 8.52 |
| | 35 | 138.8 | 88.7 | 10.37 | 83.8 | 9.67 | 79.2 | 8.89 | 77.6 | 8.99 | 74.1 | 8.16 | 70.5 | 7.91 |
| | | 173.5 | 88.7 | 10.28 | 83.8 | 9.59 | 79.2 | 8.89 | 77.6 | 8.89 | 74.1 | 8.16 | 70.5 | 7.81 |
| | | 347.0 | 88.7 | 9.95 | 83.8 | 9.22 | 79.2 | 8.89 | 77.6 | 8.52 | 74.1 | 8.16 | 70.5 | 7.46 |
| | | 433.8 | 88.7 | 9.95 | 83.8 | 9.22 | 79.2 | 8.52 | 77.6 | 8.52 | 74.1 | 8.16 | 70.5 | 7.46 |
| | | 520.5 | 88.7 | 9.95 | 83.8 | 9.22 | 79.2 | 8.34 | 77.6 | 8.52 | 74.1 | 8.16 | 70.5 | 7.46 |
| | 40 | 138.8 | 88.7 | 9.67 | 83.8 | 8.99 | 79.2 | 8.24 | 77.6 | 7.81 | 74.1 | 7.46 | 70.5 | 7.18 |
| | | 173.5 | 88.7 | 9.59 | 83.8 | 8.89 | 79.2 | 8.16 | 77.6 | 7.81 | 74.1 | 7.46 | 70.5 | 7.08 |
| | | 347.0 | 88.7 | 9.22 | 83.8 | 8.52 | 79.2 | 7.81 | 77.6 | 7.81 | 74.1 | 7.46 | 70.5 | 6.76 |
| | | 433.8 | 88.7 | 9.22 | 83.8 | 8.52 | 79.2 | 7.81 | 77.6 | 7.46 | 74.1 | 7.08 | 70.5 | 6.76 |
| | | 520.5 | 88.7 | 9.22 | 83.8 | 8.52 | 79.2 | 7.81 | 77.6 | 7.26 | 74.1 | 6.91 | 70.5 | 6.76 |
| | 45 | 138.8 | 88.7 | 8.99 | 83.8 | 8.24 | 79.2 | 7.63 | 77.6 | 6.68 | 74.1 | 6.76 | 70.5 | 6.48 |
| | | 173.5 | 88.7 | 8.89 | 83.8 | 8.16 | 79.2 | 7.46 | 77.6 | 6.76 | 74.1 | 6.76 | 70.5 | 6.38 |
| | | 347.0 | 88.7 | 8.52 | 83.8 | 7.81 | 79.2 | 6.76 | 77.6 | 7.08 | 74.1 | 6.76 | 70.5 | 6.03 |
| | | 433.8 | 88.7 | 8.52 | 83.8 | 7.81 | 79.2 | 7.08 | 77.6 | 6.38 | 74.1 | 6.03 | 70.5 | 6.03 |
| | | 520.5 | 88.7 | 8.52 | 83.8 | 7.81 | 79.2 | 7.26 | 77.6 | 6.03 | 74.1 | 5.65 | 70.5 | 6.03 |
| 60 | -5 | 138.8 | 30.6 | 10.42 | 28.5 | 10.02 | 27.0 | 9.62 | 26.7 | 8.94 | 26.5 | 8.79 | 26.0 | 7.86 |
| | | 173.5 | 31.6 | 10.65 | 29.6 | 10.25 | 28.0 | 9.85 | 27.5 | 9.14 | 27.5 | 8.99 | 27.0 | 8.04 |
| | | 347.0 | 35.7 | 11.58 | 33.4 | 11.13 | 31.6 | 10.68 | 31.4 | 9.92 | 31.1 | 9.77 | 30.6 | 8.74 |
| | | 433.8 | 39.4 | 12.46 | 37.0 | 12.01 | 35.0 | 11.53 | 34.7 | 10.72 | 34.5 | 10.55 | 33.7 | 9.40 |
| | | 520.5 | 41.4 | 12.89 | 38.6 | 12.46 | 36.8 | 11.96 | 36.3 | 11.13 | 36.2 | 10.93 | 35.3 | 9.74 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 138.8 | 54.5 | 15.27 | 50.2 | 14.72 | 46.8 | 14.09 | 46.0 | 13.11 | 45.3 | 12.93 | 43.7 | 11.53 |
| | | 173.5 | 54.8 | 15.32 | 50.6 | 14.77 | 47.1 | 14.14 | 46.3 | 13.14 | 45.5 | 12.96 | 44.0 | 11.58 |
| | | 347.0 | 56.1 | 15.50 | 51.7 | 14.92 | 48.3 | 14.32 | 47.3 | 13.29 | 46.6 | 13.11 | 44.8 | 11.68 |
| | | 433.8 | 57.1 | 15.50 | 52.5 | 14.92 | 49.1 | 14.32 | 48.1 | 13.29 | 47.3 | 13.11 | 45.5 | 11.68 |
| | | 520.5 | 57.4 | 15.50 | 53.0 | 14.92 | 49.4 | 14.32 | 48.3 | 13.29 | 47.8 | 13.11 | 46.0 | 11.68 |
| | 5 | 138.8 | 75.3 | 16.63 | 71.0 | 16.00 | 68.1 | 15.35 | 66.4 | 14.29 | 63.5 | 14.07 | 60.5 | 12.53 |
| | | 173.5 | 75.6 | 16.70 | 71.2 | 16.08 | 68.1 | 15.42 | 66.4 | 14.37 | 63.5 | 14.14 | 60.5 | 12.59 |
| | | 347.0 | 76.1 | 17.03 | 71.7 | 16.42 | 68.1 | 15.75 | 66.4 | 14.65 | 63.5 | 14.44 | 60.5 | 12.86 |
| | | 433.8 | 76.1 | 17.18 | 71.7 | 16.53 | 68.1 | 15.87 | 66.4 | 14.77 | 63.5 | 14.52 | 60.5 | 12.96 |
| | | 520.5 | 76.1 | 17.26 | 71.5 | 16.58 | 68.1 | 15.92 | 66.4 | 14.82 | 63.5 | 14.54 | 60.5 | 13.01 |
| | 10 | 138.8 | 75.8 | 15.27 | 71.3 | 14.62 | 68.1 | 13.92 | 66.4 | 13.01 | 63.5 | 12.76 | 60.5 | 11.43 |
| | | 173.5 | 75.9 | 15.27 | 71.5 | 14.62 | 68.1 | 13.92 | 66.4 | 13.04 | 63.5 | 12.74 | 60.5 | 11.45 |
| | | 347.0 | 76.1 | 15.27 | 71.7 | 14.62 | 68.1 | 13.92 | 66.4 | 13.19 | 63.5 | 12.71 | 60.5 | 11.58 |
| | | 433.8 | 76.1 | 15.32 | 71.7 | 14.47 | 68.1 | 13.77 | 66.4 | 13.04 | 63.5 | 12.59 | 60.5 | 11.45 |
| | | 520.5 | 76.1 | 15.32 | 71.5 | 14.39 | 68.1 | 13.69 | 66.4 | 12.96 | 63.5 | 12.54 | 60.5 | 11.40 |
| | 15 | 138.8 | 76.1 | 13.94 | 71.7 | 13.24 | 68.1 | 12.51 | 66.4 | 11.71 | 63.5 | 11.43 | 60.5 | 10.28 |
| | | 173.5 | 76.1 | 13.84 | 71.7 | 13.14 | 68.1 | 12.41 | 66.4 | 11.71 | 63.5 | 11.35 | 60.5 | 10.28 |
| | | 347.0 | 76.1 | 13.49 | 71.7 | 12.78 | 68.1 | 12.08 | 66.4 | 11.71 | 63.5 | 11.02 | 60.5 | 10.28 |
| | | 433.8 | 76.1 | 13.49 | 71.7 | 12.41 | 68.1 | 11.71 | 66.4 | 11.35 | 63.5 | 10.65 | 60.5 | 9.95 |
| | | 520.5 | 76.1 | 13.49 | 71.7 | 12.23 | 68.1 | 11.53 | 66.4 | 11.15 | 63.5 | 10.47 | 60.5 | 9.79 |
| | 20 | 138.8 | 76.1 | 12.18 | 71.7 | 11.43 | 68.1 | 10.75 | 66.4 | 10.37 | 63.5 | 10.05 | 60.5 | 9.30 |
| | | 173.5 | 76.1 | 12.08 | 71.7 | 11.35 | 68.1 | 10.65 | 66.4 | 10.28 | 63.5 | 9.95 | 60.5 | 9.22 |
| | | 347.0 | 76.1 | 11.71 | 71.7 | 11.02 | 68.1 | 10.28 | 66.4 | 9.95 | 63.5 | 9.59 | 60.5 | 8.89 |
| | | 433.8 | 76.1 | 11.71 | 71.7 | 11.02 | 68.1 | 10.28 | 66.4 | 9.95 | 63.5 | 9.59 | 60.5 | 8.89 |
| | | 520.5 | 76.1 | 11.71 | 71.7 | 11.02 | 68.1 | 10.28 | 66.4 | 9.95 | 63.5 | 9.59 | 60.5 | 8.89 |
| | 25 | 138.8 | 76.1 | 10.75 | 71.7 | 10.05 | 68.1 | 9.22 | 66.4 | 9.30 | 63.5 | 8.52 | 60.5 | 8.24 |
| | | 173.5 | 76.1 | 10.65 | 71.7 | 9.95 | 68.1 | 9.22 | 66.4 | 9.22 | 63.5 | 8.52 | 60.5 | 8.16 |
| | | 347.0 | 76.1 | 10.28 | 71.7 | 9.59 | 68.1 | 9.22 | 66.4 | 8.89 | 63.5 | 8.52 | 60.5 | 7.81 |
| | | 433.8 | 76.1 | 10.28 | 71.7 | 9.59 | 68.1 | 8.89 | 66.4 | 8.89 | 63.5 | 8.52 | 60.5 | 7.81 |
| | | 520.5 | 76.1 | 10.28 | 71.7 | 9.59 | 68.1 | 8.72 | 66.4 | 8.89 | 63.5 | 8.52 | 60.5 | 7.81 |
| | 30 | 138.8 | 76.1 | 9.67 | 71.7 | 8.99 | 68.1 | 8.61 | 66.4 | 8.24 | 63.5 | 7.91 | 60.5 | 7.54 |
| | | 173.5 | 76.1 | 9.59 | 71.7 | 8.89 | 68.1 | 8.52 | 66.4 | 8.16 | 63.5 | 7.81 | 60.5 | 7.46 |
| | | 347.0 | 76.1 | 9.22 | 71.7 | 8.52 | 68.1 | 8.16 | 66.4 | 7.81 | 63.5 | 7.46 | 60.5 | 7.08 |
| | | 433.8 | 76.1 | 9.22 | 71.7 | 8.52 | 68.1 | 8.16 | 66.4 | 7.81 | 63.5 | 7.46 | 60.5 | 7.08 |
| | | 520.5 | 76.1 | 9.22 | 71.7 | 8.52 | 68.1 | 8.16 | 66.4 | 7.81 | 63.5 | 7.46 | 60.5 | 7.08 |
| | 35 | 138.8 | 76.1 | 8.52 | 71.7 | 8.24 | 68.1 | 7.46 | 66.4 | 7.54 | 63.5 | 7.18 | 60.5 | 6.86 |
| | | 173.5 | 76.1 | 8.52 | 71.7 | 8.16 | 68.1 | 7.46 | 66.4 | 7.46 | 63.5 | 7.08 | 60.5 | 6.76 |
| | | 347.0 | 76.1 | 8.52 | 71.7 | 7.81 | 68.1 | 7.46 | 66.4 | 7.08 | 63.5 | 6.76 | 60.5 | 6.38 |
| | | 433.8 | 76.1 | 8.52 | 71.7 | 7.81 | 68.1 | 7.08 | 66.4 | 7.08 | 63.5 | 6.76 | 60.5 | 6.38 |
| | | 520.5 | 76.1 | 8.52 | 71.7 | 7.81 | 68.1 | 6.91 | 66.4 | 7.08 | 63.5 | 6.76 | 60.5 | 6.38 |
| | 40 | 138.8 | 76.1 | 7.81 | 71.7 | 7.54 | 68.1 | 6.76 | 66.4 | 6.86 | 63.5 | 6.48 | 60.5 | 6.03 |
| | | 173.5 | 76.1 | 7.81 | 71.7 | 7.46 | 68.1 | 6.76 | 66.4 | 6.76 | 63.5 | 6.38 | 60.5 | 6.03 |
| | | 347.0 | 76.1 | 7.81 | 71.7 | 7.08 | 68.1 | 6.76 | 66.4 | 6.38 | 63.5 | 6.03 | 60.5 | 6.03 |
| | | 433.8 | 76.1 | 7.81 | 71.7 | 7.08 | 68.1 | 6.76 | 66.4 | 6.38 | 63.5 | 6.03 | 60.5 | 6.03 |
| | | 520.5 | 76.1 | 7.81 | 71.7 | 7.08 | 68.1 | 6.76 | 66.4 | 6.38 | 63.5 | 6.03 | 60.5 | 6.03 |
| | 45 | 138.8 | 76.1 | 7.08 | 71.7 | 6.86 | 68.1 | 6.03 | 66.4 | 6.10 | 63.5 | 5.78 | 60.5 | 5.23 |
| | | 173.5 | 76.1 | 7.08 | 71.7 | 6.76 | 68.1 | 6.03 | 66.4 | 6.03 | 63.5 | 5.70 | 60.5 | 5.33 |
| | | 347.0 | 76.1 | 7.08 | 71.7 | 6.38 | 68.1 | 6.03 | 66.4 | 5.70 | 63.5 | 5.33 | 60.5 | 5.70 |
| | | 433.8 | 76.1 | 7.08 | 71.7 | 6.38 | 68.1 | 6.38 | 66.4 | 5.70 | 63.5 | 5.33 | 60.5 | 5.70 |
| | | 520.5 | 76.1 | 7.08 | 71.7 | 6.38 | 68.1 | 6.58 | 66.4 | 5.70 | 63.5 | 5.33 | 60.5 | 5.70 |
| 50 | -5 | 138.8 | 25.4 | 8.31 | 23.9 | 7.86 | 22.6 | 7.44 | 22.1 | 7.03 | 22.1 | 6.61 | 21.6 | 6.26 |
| | | 173.5 | 26.2 | 8.49 | 24.7 | 8.04 | 23.4 | 7.61 | 22.9 | 7.21 | 22.9 | 6.76 | 22.4 | 6.38 |
| | | 347.0 | 29.6 | 9.19 | 27.8 | 8.74 | 26.5 | 8.24 | 26.0 | 7.81 | 26.0 | 7.34 | 25.4 | 6.91 |
| | | 433.8 | 32.9 | 9.92 | 30.8 | 9.40 | 29.1 | 8.89 | 28.8 | 8.44 | 28.6 | 7.89 | 28.3 | 7.46 |
| | | 520.5 | 34.4 | 10.28 | 32.4 | 9.74 | 30.6 | 9.22 | 30.1 | 8.77 | 29.8 | 8.17 | 29.6 | 7.74 |
| | 0 | 138.8 | 45.3 | 12.16 | 41.9 | 11.53 | 39.1 | 10.87 | 38.1 | 10.32 | 37.6 | 9.70 | 36.3 | 9.15 |
| | | 173.5 | 45.5 | 12.18 | 42.2 | 11.58 | 39.3 | 10.90 | 38.3 | 10.35 | 37.8 | 9.72 | 36.5 | 9.19 |
| | | 347.0 | 46.6 | 12.31 | 43.2 | 11.68 | 40.1 | 11.05 | 39.3 | 10.50 | 38.8 | 9.85 | 37.3 | 9.29 |
| | | 433.8 | 47.3 | 12.31 | 43.7 | 11.68 | 40.6 | 11.05 | 39.9 | 10.50 | 39.3 | 9.85 | 38.0 | 9.29 |
| | | 520.5 | 47.8 | 12.31 | 44.0 | 11.68 | 40.9 | 11.05 | 40.4 | 10.50 | 39.6 | 9.85 | 38.3 | 9.29 |
| | 5 | 138.8 | 62.7 | 13.24 | 59.4 | 12.53 | 56.6 | 11.83 | 55.3 | 11.25 | 52.9 | 10.57 | 50.4 | 9.92 |
| | | 173.5 | 62.7 | 13.29 | 59.4 | 12.59 | 56.6 | 11.90 | 55.3 | 11.30 | 52.9 | 10.62 | 50.4 | 10.00 |
| | | 347.0 | 63.3 | 13.56 | 59.9 | 12.86 | 56.8 | 12.16 | 55.3 | 11.53 | 52.9 | 10.80 | 50.4 | 10.20 |
| | | 433.8 | 63.3 | 13.66 | 59.9 | 12.96 | 56.8 | 12.23 | 55.3 | 11.60 | 52.9 | 10.90 | 50.4 | 10.28 |
| | | 520.5 | 63.3 | 13.71 | 59.7 | 13.01 | 56.8 | 12.26 | 55.3 | 11.63 | 52.9 | 10.95 | 50.4 | 10.32 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(36HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 138.8 | 63.0 | 12.18 | 59.4 | 11.48 | 56.6 | 10.78 | 55.3 | 10.30 | 52.9 | 9.52 | 50.4 | 9.09 |
| | | 173.5 | 63.0 | 12.16 | 59.6 | 11.45 | 56.6 | 10.75 | 55.3 | 10.28 | 52.9 | 9.55 | 50.4 | 9.07 |
| | | 347.0 | 63.3 | 12.08 | 59.9 | 11.43 | 56.8 | 10.68 | 55.3 | 10.20 | 52.9 | 9.67 | 50.4 | 8.99 |
| | | 433.8 | 63.3 | 12.16 | 59.9 | 11.45 | 56.8 | 10.72 | 55.3 | 10.25 | 52.9 | 9.52 | 50.4 | 9.04 |
| | | 520.5 | 63.3 | 12.18 | 59.7 | 11.48 | 56.8 | 10.75 | 55.3 | 10.27 | 52.9 | 9.44 | 50.4 | 9.04 |
| | 15 | 138.8 | 63.3 | 11.10 | 59.9 | 10.37 | 56.8 | 9.67 | 55.3 | 9.30 | 52.9 | 8.52 | 50.4 | 8.24 |
| | | 173.5 | 63.3 | 11.02 | 59.9 | 10.28 | 56.8 | 9.59 | 55.3 | 9.22 | 52.9 | 8.52 | 50.4 | 8.16 |
| | | 347.0 | 63.3 | 10.65 | 59.9 | 9.95 | 56.8 | 9.22 | 55.3 | 8.89 | 52.9 | 8.52 | 50.4 | 7.81 |
| | | 433.8 | 63.3 | 10.65 | 59.9 | 9.95 | 56.8 | 9.22 | 55.3 | 8.89 | 52.9 | 8.16 | 50.4 | 7.81 |
| | | 520.5 | 63.3 | 10.65 | 59.9 | 9.95 | 56.8 | 9.22 | 55.3 | 8.89 | 52.9 | 7.96 | 50.4 | 7.81 |
| | 20 | 138.8 | 63.3 | 9.67 | 59.9 | 8.99 | 56.8 | 8.61 | 55.3 | 8.24 | 52.9 | 7.91 | 50.4 | 7.08 |
| | | 173.5 | 63.3 | 9.59 | 59.9 | 8.89 | 56.8 | 8.52 | 55.3 | 8.16 | 52.9 | 7.81 | 50.4 | 7.08 |
| | | 347.0 | 63.3 | 9.22 | 59.9 | 8.52 | 56.8 | 8.16 | 55.3 | 7.81 | 52.9 | 7.46 | 50.4 | 7.08 |
| | | 433.8 | 63.3 | 9.22 | 59.9 | 8.52 | 56.8 | 8.16 | 55.3 | 7.81 | 52.9 | 7.46 | 50.4 | 7.08 |
| | | 520.5 | 63.3 | 9.22 | 59.9 | 8.52 | 56.8 | 8.16 | 55.3 | 7.81 | 52.9 | 7.46 | 50.4 | 7.08 |
| | 25 | 138.8 | 63.3 | 8.61 | 59.9 | 7.81 | 56.8 | 7.54 | 55.3 | 7.08 | 52.9 | 6.76 | 50.4 | 6.38 |
| | | 173.5 | 63.3 | 8.52 | 59.9 | 7.81 | 56.8 | 7.46 | 55.3 | 7.08 | 52.9 | 6.76 | 50.4 | 6.38 |
| | | 347.0 | 63.3 | 8.16 | 59.9 | 7.81 | 56.8 | 7.08 | 55.3 | 7.08 | 52.9 | 6.76 | 50.4 | 6.38 |
| | | 433.8 | 63.3 | 8.16 | 59.9 | 7.81 | 56.8 | 7.08 | 55.3 | 7.08 | 52.9 | 6.76 | 50.4 | 6.38 |
| | | 520.5 | 63.3 | 8.16 | 59.9 | 7.81 | 56.8 | 7.08 | 55.3 | 7.08 | 52.9 | 6.76 | 50.4 | 6.38 |
| | 30 | 138.8 | 63.3 | 7.91 | 59.9 | 7.18 | 56.8 | 6.86 | 55.3 | 6.38 | 52.9 | 6.48 | 50.4 | 6.10 |
| | | 173.5 | 63.3 | 7.81 | 59.9 | 7.08 | 56.8 | 6.76 | 55.3 | 6.38 | 52.9 | 6.38 | 50.4 | 6.03 |
| | | 347.0 | 63.3 | 7.46 | 59.9 | 6.76 | 56.8 | 6.38 | 55.3 | 6.38 | 52.9 | 6.03 | 50.4 | 5.70 |
| | | 433.8 | 63.3 | 7.46 | 59.9 | 6.76 | 56.8 | 6.38 | 55.3 | 6.38 | 52.9 | 6.03 | 50.4 | 5.70 |
| | | 520.5 | 63.3 | 7.46 | 59.9 | 6.76 | 56.8 | 6.38 | 55.3 | 6.38 | 52.9 | 6.03 | 50.4 | 5.70 |
| | 35 | 138.8 | 63.3 | 7.18 | 59.9 | 6.38 | 56.8 | 6.03 | 55.3 | 6.10 | 52.9 | 5.70 | 50.4 | 5.33 |
| | | 173.5 | 63.3 | 7.08 | 59.9 | 6.38 | 56.8 | 6.03 | 55.3 | 6.03 | 52.9 | 5.70 | 50.4 | 5.33 |
| | | 347.0 | 63.3 | 6.76 | 59.9 | 6.38 | 56.8 | 6.03 | 55.3 | 5.70 | 52.9 | 5.70 | 50.4 | 5.33 |
| | | 433.8 | 63.3 | 6.76 | 59.9 | 6.38 | 56.8 | 6.03 | 55.3 | 5.70 | 52.9 | 5.70 | 50.4 | 5.33 |
| | | 520.5 | 63.3 | 6.76 | 59.9 | 6.38 | 56.8 | 6.03 | 55.3 | 5.70 | 52.9 | 5.70 | 50.4 | 5.33 |
| | 40 | 138.8 | 63.3 | 6.48 | 59.9 | 6.10 | 56.8 | 5.78 | 55.3 | 5.33 | 52.9 | 5.42 | 50.4 | 4.95 |
| | | 173.5 | 63.3 | 6.38 | 59.9 | 6.03 | 56.8 | 5.70 | 55.3 | 5.33 | 52.9 | 5.33 | 50.4 | 4.95 |
| | | 347.0 | 63.3 | 6.03 | 59.9 | 5.70 | 56.8 | 5.33 | 55.3 | 5.33 | 52.9 | 4.95 | 50.4 | 4.95 |
| | | 433.8 | 63.3 | 6.03 | 59.9 | 5.70 | 56.8 | 5.33 | 55.3 | 5.33 | 52.9 | 4.95 | 50.4 | 4.95 |
| | | 520.5 | 63.3 | 6.03 | 59.9 | 5.70 | 56.8 | 5.33 | 55.3 | 5.33 | 52.9 | 4.95 | 50.4 | 4.95 |
| | 45 | 138.8 | 63.3 | 5.78 | 59.9 | 5.88 | 56.8 | 5.50 | 55.3 | 4.55 | 52.9 | 5.13 | 50.4 | 4.62 |
| | | 173.5 | 63.3 | 5.70 | 59.9 | 5.70 | 56.8 | 5.33 | 55.3 | 4.62 | 52.9 | 4.95 | 50.4 | 4.62 |
| | | 347.0 | 63.3 | 5.33 | 59.9 | 4.95 | 56.8 | 4.62 | 55.3 | 4.95 | 52.9 | 4.27 | 50.4 | 4.62 |
| | | 433.8 | 63.3 | 5.33 | 59.9 | 4.95 | 56.8 | 4.62 | 55.3 | 4.95 | 52.9 | 4.27 | 50.4 | 4.62 |
| | | 520.5 | 63.3 | 5.33 | 59.9 | 4.95 | 56.8 | 4.62 | 55.3 | 4.95 | 52.9 | 4.27 | 50.4 | 4.62 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN380BAS4

**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 146.4 | 56.7 | 23.66 | 56.2 | 22.27 | 55.9 | 20.73 | 55.1 | 20.11 | 55.7 | 19.60 | 54.3 | 17.58 |
| | | 183.0 | 58.6 | 24.08 | 58.1 | 22.70 | 57.8 | 21.18 | 57.0 | 20.57 | 57.8 | 20.03 | 56.2 | 17.95 |
| | | 366.0 | 66.2 | 25.71 | 65.7 | 24.43 | 65.4 | 22.99 | 64.6 | 22.32 | 65.2 | 21.69 | 63.5 | 19.47 |
| | | 457.5 | 73.3 | 27.33 | 72.5 | 26.10 | 72.2 | 24.77 | 71.4 | 24.11 | 72.2 | 23.41 | 70.3 | 20.99 |
| | | 549.0 | 76.8 | 28.16 | 76.0 | 26.93 | 75.5 | 25.68 | 74.7 | 25.01 | 75.7 | 24.27 | 73.6 | 21.76 |
| | 0 | 146.4 | 101.2 | 32.36 | 98.8 | 31.38 | 96.7 | 30.37 | 94.7 | 29.52 | 95.0 | 28.71 | 90.7 | 25.71 |
| | | 183.0 | 101.8 | 32.45 | 99.4 | 31.46 | 97.4 | 30.45 | 95.3 | 29.60 | 95.5 | 28.77 | 91.2 | 25.79 |
| | | 366.0 | 104.2 | 32.79 | 101.8 | 31.78 | 99.6 | 30.80 | 97.4 | 29.94 | 97.7 | 29.09 | 93.4 | 26.10 |
| | | 457.5 | 105.8 | 32.79 | 103.2 | 31.78 | 101.0 | 30.80 | 98.8 | 29.94 | 99.3 | 29.09 | 94.7 | 26.10 |
| | | 549.0 | 106.6 | 32.79 | 104.0 | 31.78 | 101.8 | 30.80 | 99.6 | 29.94 | 99.9 | 29.09 | 95.5 | 26.10 |
| | 5 | 146.4 | 145.7 | 34.79 | 143.6 | 33.91 | 140.6 | 33.06 | 137.0 | 32.13 | 133.3 | 31.24 | 125.9 | 27.97 |
| | | 183.0 | 146.3 | 34.93 | 143.8 | 34.07 | 140.6 | 33.22 | 137.0 | 32.29 | 133.3 | 31.38 | 125.9 | 28.13 |
| | | 366.0 | 148.2 | 35.56 | 144.7 | 34.71 | 140.6 | 33.89 | 137.0 | 32.95 | 133.3 | 32.02 | 125.9 | 28.71 |
| | | 457.5 | 149.0 | 35.80 | 145.2 | 34.93 | 140.6 | 34.12 | 137.0 | 33.19 | 133.3 | 32.26 | 125.9 | 28.90 |
| | | 549.0 | 149.6 | 35.91 | 145.5 | 35.06 | 140.6 | 34.23 | 137.0 | 33.30 | 133.3 | 32.37 | 125.9 | 29.01 |
| | 10 | 146.4 | 145.8 | 31.65 | 143.6 | 30.58 | 140.1 | 30.02 | 136.5 | 29.33 | 132.7 | 28.34 | 125.4 | 25.57 |
| | | 183.0 | 146.8 | 31.59 | 144.1 | 30.61 | 140.6 | 30.07 | 137.0 | 29.33 | 133.3 | 28.32 | 125.9 | 25.55 |
| | | 366.0 | 150.1 | 31.35 | 146.8 | 30.74 | 142.8 | 30.29 | 139.2 | 29.28 | 135.2 | 28.24 | 127.9 | 25.47 |
| | | 457.5 | 150.9 | 31.78 | 147.9 | 31.17 | 143.8 | 30.42 | 139.8 | 29.41 | 136.2 | 28.71 | 128.7 | 26.69 |
| | | 549.0 | 151.4 | 31.99 | 148.4 | 31.38 | 144.1 | 30.48 | 140.1 | 29.46 | 136.6 | 28.93 | 129.2 | 27.28 |
| | 15 | 146.4 | 146.0 | 28.53 | 143.6 | 27.30 | 139.5 | 27.01 | 135.7 | 26.56 | 132.2 | 25.44 | 124.9 | 23.18 |
| | | 183.0 | 147.4 | 28.24 | 144.7 | 27.20 | 140.6 | 26.96 | 137.0 | 26.37 | 133.3 | 25.23 | 125.9 | 22.99 |
| | | 366.0 | 152.0 | 27.12 | 149.0 | 26.72 | 145.2 | 26.72 | 141.4 | 25.60 | 137.3 | 24.46 | 130.0 | 22.19 |
| | | 457.5 | 152.8 | 27.76 | 150.4 | 27.33 | 146.8 | 26.72 | 142.8 | 25.60 | 139.2 | 25.15 | 131.4 | 24.46 |
| | | 549.0 | 153.3 | 28.10 | 151.2 | 27.65 | 147.7 | 26.72 | 143.6 | 25.60 | 140.1 | 25.52 | 132.2 | 25.60 |
| | 20 | 146.4 | 151.7 | 26.16 | 149.0 | 24.94 | 144.9 | 24.40 | 140.9 | 23.63 | 136.8 | 23.10 | 128.7 | 22.38 |
| | | 183.0 | 152.8 | 25.97 | 150.1 | 24.93 | 146.0 | 24.38 | 142.0 | 23.71 | 138.1 | 23.26 | 130.0 | 22.19 |
| | | 366.0 | 157.7 | 25.23 | 155.0 | 24.85 | 150.6 | 24.30 | 146.6 | 24.11 | 142.8 | 23.87 | 134.7 | 21.47 |
| | | 457.5 | 158.3 | 25.23 | 156.1 | 24.85 | 152.3 | 24.46 | 147.9 | 24.11 | 143.9 | 23.87 | 135.7 | 22.83 |
| | | 549.0 | 158.8 | 25.23 | 156.6 | 24.85 | 153.3 | 24.54 | 148.7 | 24.11 | 144.4 | 23.87 | 136.5 | 23.52 |
| | 25 | 146.4 | 160.1 | 24.94 | 156.1 | 24.22 | 152.3 | 23.82 | 149.5 | 23.42 | 146.0 | 23.07 | 137.6 | 21.55 |
| | | 183.0 | 160.1 | 24.85 | 156.1 | 24.19 | 152.3 | 23.71 | 149.5 | 23.33 | 146.0 | 22.99 | 137.6 | 21.47 |
| | | 366.0 | 160.1 | 24.46 | 156.1 | 24.03 | 152.3 | 23.33 | 149.5 | 22.99 | 146.0 | 22.59 | 137.6 | 21.07 |
| | | 457.5 | 160.1 | 24.11 | 156.1 | 23.41 | 152.3 | 22.99 | 149.5 | 22.59 | 146.0 | 22.19 | 137.6 | 20.72 |
| | | 549.0 | 160.1 | 23.92 | 156.1 | 23.10 | 152.3 | 22.80 | 149.5 | 22.40 | 146.0 | 22.00 | 137.6 | 20.54 |
| | 30 | 146.4 | 160.1 | 24.30 | 156.1 | 23.10 | 152.3 | 22.88 | 149.5 | 22.29 | 146.0 | 22.05 | 137.6 | 20.51 |
| | | 183.0 | 160.1 | 24.11 | 156.1 | 23.07 | 152.3 | 22.75 | 149.5 | 22.19 | 146.0 | 21.85 | 137.6 | 20.33 |
| | | 366.0 | 160.1 | 23.33 | 156.1 | 22.91 | 152.3 | 22.19 | 149.5 | 21.85 | 146.0 | 21.07 | 137.6 | 19.58 |
| | | 457.5 | 160.1 | 22.99 | 156.1 | 22.27 | 152.3 | 21.85 | 149.5 | 21.47 | 146.0 | 21.07 | 137.6 | 19.58 |
| | | 549.0 | 160.1 | 22.80 | 156.1 | 21.97 | 152.3 | 21.68 | 149.5 | 21.26 | 146.0 | 21.07 | 137.6 | 19.58 |
| | 35 | 146.4 | 160.1 | 23.18 | 156.1 | 22.40 | 152.3 | 21.95 | 149.5 | 21.15 | 146.0 | 20.43 | 137.6 | 19.00 |
| | | 183.0 | 160.1 | 22.99 | 156.1 | 22.27 | 152.3 | 21.85 | 149.5 | 21.07 | 146.0 | 20.33 | 137.6 | 18.81 |
| | | 366.0 | 160.1 | 22.19 | 156.1 | 21.77 | 152.3 | 21.47 | 149.5 | 20.72 | 146.0 | 19.95 | 137.6 | 18.06 |
| | | 457.5 | 160.1 | 22.19 | 156.1 | 21.55 | 152.3 | 21.07 | 149.5 | 20.33 | 146.0 | 19.58 | 137.6 | 18.06 |
| | | 549.0 | 160.1 | 22.19 | 156.1 | 21.42 | 152.3 | 20.88 | 149.5 | 20.14 | 146.0 | 19.42 | 137.6 | 18.06 |
| | 40 | 146.4 | 160.1 | 22.38 | 156.1 | 21.68 | 152.3 | 21.26 | 149.5 | 20.51 | 146.0 | 19.79 | 137.6 | 17.87 |
| | | 183.0 | 160.1 | 22.19 | 156.1 | 21.55 | 152.3 | 21.07 | 149.5 | 20.33 | 146.0 | 19.58 | 137.6 | 17.69 |
| | | 366.0 | 160.1 | 21.47 | 156.1 | 20.99 | 152.3 | 20.33 | 149.5 | 19.58 | 146.0 | 18.81 | 137.6 | 16.94 |
| | | 457.5 | 160.1 | 21.07 | 156.1 | 20.64 | 152.3 | 20.33 | 149.5 | 19.58 | 146.0 | 18.81 | 137.6 | 16.94 |
| | | 549.0 | 160.1 | 20.88 | 156.1 | 20.46 | 152.3 | 20.33 | 149.5 | 19.58 | 146.0 | 18.81 | 137.6 | 16.94 |
| | 45 | 146.4 | 160.1 | 21.66 | 156.1 | 20.94 | 152.3 | 20.62 | 149.5 | 19.87 | 146.0 | 19.10 | 137.6 | 16.73 |
| | | 183.0 | 160.1 | 21.47 | 156.1 | 20.80 | 152.3 | 20.33 | 149.5 | 19.58 | 146.0 | 18.81 | 137.6 | 16.55 |
| | | 366.0 | 160.1 | 20.72 | 156.1 | 20.25 | 152.3 | 19.21 | 149.5 | 18.46 | 146.0 | 17.69 | 137.6 | 15.82 |
| | | 457.5 | 160.1 | 19.95 | 156.1 | 19.74 | 152.3 | 19.58 | 149.5 | 18.81 | 146.0 | 18.06 | 137.6 | 15.82 |
| | | 549.0 | 160.1 | 19.55 | 156.1 | 19.50 | 152.3 | 19.79 | 149.5 | 18.99 | 146.0 | 18.27 | 137.6 | 15.82 |
| 120 | -5 | 146.4 | 53.8 | 23.66 | 53.5 | 22.27 | 53.2 | 20.73 | 52.4 | 19.85 | 52.9 | 19.29 | 51.5 | 17.26 |
| | | 183.0 | 55.7 | 24.08 | 55.1 | 22.70 | 54.8 | 21.18 | 54.3 | 20.30 | 54.6 | 19.71 | 53.2 | 17.64 |
| | | 366.0 | 63.0 | 25.71 | 62.4 | 24.43 | 62.2 | 22.99 | 61.3 | 22.00 | 61.9 | 21.39 | 60.3 | 19.16 |
| | | 457.5 | 69.5 | 27.33 | 69.0 | 26.10 | 68.7 | 24.77 | 67.8 | 23.76 | 68.4 | 23.07 | 66.5 | 20.64 |
| | | 549.0 | 73.0 | 28.16 | 72.4 | 26.93 | 71.9 | 25.68 | 71.1 | 24.64 | 71.6 | 23.90 | 69.5 | 21.39 |
| | 0 | 146.4 | 96.1 | 32.36 | 93.9 | 31.38 | 91.8 | 30.37 | 90.1 | 29.09 | 90.1 | 28.27 | 85.8 | 25.28 |
| | | 183.0 | 96.7 | 32.45 | 94.4 | 31.46 | 92.3 | 30.45 | 90.6 | 29.17 | 90.6 | 28.35 | 86.3 | 25.36 |
| | | 366.0 | 99.0 | 32.79 | 96.6 | 31.78 | 94.7 | 30.80 | 92.6 | 29.52 | 92.6 | 28.66 | 88.5 | 25.68 |
| | | 457.5 | 100.5 | 32.79 | 98.2 | 31.78 | 96.1 | 30.80 | 94.2 | 29.52 | 93.9 | 28.66 | 89.8 | 25.68 |
| | | 549.0 | 101.3 | 32.79 | 99.1 | 31.78 | 96.9 | 30.80 | 94.8 | 29.52 | 94.7 | 28.66 | 90.6 | 25.68 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 146.4 | 138.7 | 34.79 | 136.5 | 33.91 | 133.6 | 33.06 | 130.3 | 31.65 | 126.2 | 30.77 | 119.4 | 27.55 |
| | | 183.0 | 139.2 | 34.93 | 136.8 | 34.07 | 133.6 | 33.22 | 130.3 | 31.83 | 126.2 | 30.93 | 119.4 | 27.70 |
| | | 366.0 | 141.2 | 35.56 | 137.9 | 34.71 | 133.6 | 33.89 | 130.3 | 32.48 | 126.2 | 31.54 | 119.4 | 28.24 |
| | | 457.5 | 142.0 | 35.80 | 137.1 | 34.93 | 133.6 | 34.12 | 130.3 | 32.71 | 126.2 | 31.78 | 119.4 | 28.43 |
| | | 549.0 | 142.3 | 35.91 | 136.8 | 35.06 | 133.6 | 34.23 | 130.3 | 32.84 | 126.2 | 31.89 | 119.4 | 28.53 |
| | 10 | 146.4 | 139.2 | 31.25 | 136.6 | 30.37 | 133.3 | 29.76 | 130.0 | 28.85 | 125.9 | 27.92 | 119.1 | 25.09 |
| | | 183.0 | 139.8 | 31.35 | 137.1 | 30.50 | 133.6 | 29.87 | 130.3 | 28.90 | 126.2 | 27.89 | 119.4 | 25.12 |
| | | 366.0 | 142.5 | 31.78 | 139.5 | 30.96 | 135.1 | 30.29 | 131.9 | 29.06 | 127.6 | 27.81 | 120.5 | 25.23 |
| | | 457.5 | 143.3 | 31.67 | 139.0 | 30.96 | 135.7 | 30.42 | 132.4 | 29.17 | 128.1 | 27.92 | 121.1 | 26.10 |
| | | 549.0 | 143.6 | 31.60 | 138.7 | 30.96 | 136.0 | 30.48 | 132.7 | 29.23 | 128.4 | 27.99 | 121.4 | 26.53 |
| | 15 | 146.4 | 139.5 | 27.71 | 136.8 | 26.90 | 132.8 | 26.48 | 129.7 | 26.08 | 125.7 | 25.04 | 118.6 | 22.69 |
| | | 183.0 | 140.4 | 27.76 | 137.6 | 26.96 | 133.6 | 26.53 | 130.3 | 25.97 | 126.2 | 24.85 | 119.4 | 22.59 |
| | | 366.0 | 143.6 | 28.00 | 140.9 | 27.20 | 136.6 | 26.72 | 133.3 | 25.60 | 128.9 | 24.11 | 121.9 | 22.19 |
| | | 457.5 | 144.4 | 27.57 | 140.9 | 26.96 | 137.6 | 26.72 | 134.4 | 25.60 | 130.0 | 24.11 | 123.0 | 23.71 |
| | | 549.0 | 144.9 | 27.36 | 140.9 | 26.83 | 138.4 | 26.72 | 134.9 | 25.60 | 130.5 | 24.11 | 123.5 | 24.48 |
| | 20 | 146.4 | 143.6 | 24.93 | 140.9 | 23.87 | 136.5 | 23.23 | 132.7 | 22.89 | 128.4 | 22.61 | 121.6 | 21.47 |
| | | 183.0 | 144.4 | 24.93 | 141.7 | 23.95 | 137.3 | 23.33 | 133.6 | 22.99 | 129.2 | 22.59 | 122.2 | 21.39 |
| | | 366.0 | 148.2 | 24.93 | 145.0 | 24.30 | 140.3 | 23.71 | 137.0 | 23.33 | 132.5 | 22.51 | 125.1 | 21.07 |
| | | 457.5 | 148.7 | 24.69 | 144.9 | 24.11 | 141.4 | 23.71 | 137.6 | 23.33 | 133.3 | 22.59 | 125.9 | 21.85 |
| | | 549.0 | 149.0 | 24.58 | 144.9 | 24.00 | 142.0 | 23.71 | 138.2 | 23.33 | 133.6 | 22.62 | 126.2 | 22.24 |
| | 25 | 146.4 | 150.4 | 23.58 | 146.0 | 22.48 | 141.4 | 22.05 | 138.4 | 21.55 | 134.7 | 21.15 | 127.3 | 19.69 |
| | | 183.0 | 150.6 | 23.49 | 146.0 | 22.43 | 141.4 | 22.00 | 138.4 | 21.47 | 134.7 | 21.07 | 127.3 | 19.58 |
| | | 366.0 | 150.9 | 23.13 | 146.0 | 22.27 | 141.4 | 21.85 | 138.4 | 21.07 | 134.7 | 20.72 | 127.3 | 19.21 |
| | | 457.5 | 151.4 | 22.27 | 146.0 | 21.69 | 141.4 | 21.47 | 138.4 | 21.07 | 134.7 | 20.33 | 127.3 | 19.21 |
| | | 549.0 | 151.5 | 21.84 | 146.0 | 21.39 | 141.4 | 21.26 | 138.4 | 21.07 | 134.7 | 20.14 | 127.3 | 19.21 |
| | 30 | 146.4 | 151.4 | 22.54 | 146.0 | 21.44 | 141.4 | 20.83 | 138.4 | 20.03 | 134.7 | 19.79 | 127.3 | 18.17 |
| | | 183.0 | 151.4 | 22.35 | 146.0 | 21.31 | 141.4 | 20.72 | 138.4 | 19.95 | 134.7 | 19.58 | 127.3 | 18.06 |
| | | 366.0 | 151.4 | 21.61 | 146.0 | 20.80 | 141.4 | 20.33 | 138.4 | 19.58 | 134.7 | 18.81 | 127.3 | 17.69 |
| | | 457.5 | 151.4 | 20.91 | 146.0 | 20.33 | 141.4 | 19.95 | 138.4 | 19.58 | 134.7 | 18.81 | 127.3 | 17.34 |
| | | 549.0 | 151.4 | 20.56 | 146.0 | 20.09 | 141.4 | 19.74 | 138.4 | 19.58 | 134.7 | 18.81 | 127.3 | 17.16 |
| | 35 | 146.4 | 151.4 | 21.53 | 146.0 | 20.35 | 141.4 | 19.79 | 138.4 | 19.00 | 134.7 | 18.25 | 127.3 | 16.65 |
| | | 183.0 | 151.4 | 21.23 | 146.0 | 20.17 | 141.4 | 19.58 | 138.4 | 18.81 | 134.7 | 18.06 | 127.3 | 16.55 |
| | | 366.0 | 151.4 | 20.03 | 146.0 | 19.44 | 141.4 | 18.81 | 138.4 | 18.06 | 134.7 | 17.34 | 127.3 | 16.20 |
| | | 457.5 | 151.4 | 19.79 | 146.0 | 19.28 | 141.4 | 18.81 | 138.4 | 18.06 | 134.7 | 17.34 | 127.3 | 15.82 |
| | | 549.0 | 151.4 | 19.66 | 146.0 | 19.21 | 141.4 | 18.81 | 138.4 | 18.06 | 134.7 | 17.34 | 127.3 | 15.61 |
| | 40 | 146.4 | 151.4 | 20.89 | 146.0 | 19.42 | 141.4 | 18.65 | 138.4 | 17.87 | 134.7 | 17.13 | 127.3 | 15.51 |
| | | 183.0 | 151.4 | 20.49 | 146.0 | 19.21 | 141.4 | 18.46 | 138.4 | 17.69 | 134.7 | 16.94 | 127.3 | 15.42 |
| | | 366.0 | 151.4 | 18.89 | 146.0 | 18.30 | 141.4 | 17.69 | 138.4 | 16.94 | 134.7 | 16.20 | 127.3 | 15.08 |
| | | 457.5 | 151.4 | 18.65 | 146.0 | 18.06 | 141.4 | 17.69 | 138.4 | 16.94 | 134.7 | 16.20 | 127.3 | 14.68 |
| | | 549.0 | 151.4 | 18.54 | 146.0 | 17.95 | 141.4 | 17.69 | 138.4 | 16.94 | 134.7 | 16.20 | 127.3 | 14.49 |
| | 45 | 146.4 | 151.4 | 20.25 | 146.0 | 18.49 | 141.4 | 17.53 | 138.4 | 16.73 | 134.7 | 16.01 | 127.3 | 14.38 |
| | | 183.0 | 151.4 | 19.74 | 146.0 | 18.22 | 141.4 | 17.34 | 138.4 | 16.55 | 134.7 | 15.82 | 127.3 | 14.30 |
| | | 366.0 | 151.4 | 17.77 | 146.0 | 17.18 | 141.4 | 16.55 | 138.4 | 15.82 | 134.7 | 15.08 | 127.3 | 13.94 |
| | | 457.5 | 151.4 | 17.53 | 146.0 | 16.86 | 141.4 | 16.55 | 138.4 | 15.82 | 134.7 | 15.08 | 127.3 | 13.56 |
| | | 549.0 | 151.4 | 17.42 | 146.0 | 16.70 | 141.4 | 16.55 | 138.4 | 15.82 | 134.7 | 15.08 | 127.3 | 13.35 |
| 110 | -5 | 146.4 | 51.0 | 23.97 | 50.5 | 22.27 | 50.2 | 20.73 | 49.7 | 19.85 | 49.9 | 19.29 | 48.8 | 17.26 |
| | | 183.0 | 52.7 | 24.38 | 52.4 | 22.70 | 52.1 | 21.18 | 51.5 | 20.30 | 51.6 | 19.71 | 50.5 | 17.64 |
| | | 366.0 | 59.5 | 26.02 | 59.2 | 24.43 | 58.9 | 22.99 | 58.3 | 22.00 | 58.3 | 21.39 | 57.0 | 19.16 |
| | | 457.5 | 65.7 | 27.70 | 65.4 | 26.10 | 65.1 | 24.77 | 64.3 | 23.76 | 64.3 | 23.07 | 63.0 | 20.64 |
| | | 549.0 | 68.9 | 28.53 | 68.4 | 26.93 | 68.1 | 25.68 | 67.3 | 24.64 | 67.3 | 23.90 | 66.0 | 21.39 |
| | 0 | 146.4 | 90.9 | 32.79 | 89.0 | 31.38 | 87.1 | 30.37 | 85.5 | 29.09 | 84.7 | 28.27 | 81.4 | 25.28 |
| | | 183.0 | 91.5 | 32.87 | 89.6 | 31.46 | 87.7 | 30.45 | 86.0 | 29.17 | 85.2 | 28.35 | 82.0 | 25.36 |
| | | 366.0 | 93.6 | 33.19 | 91.7 | 31.78 | 89.6 | 30.80 | 87.9 | 29.52 | 87.1 | 28.66 | 83.9 | 25.68 |
| | | 457.5 | 95.0 | 33.19 | 93.1 | 31.78 | 91.2 | 30.80 | 89.3 | 29.52 | 88.5 | 28.66 | 85.0 | 25.68 |
| | | 549.0 | 95.8 | 33.19 | 93.9 | 31.78 | 91.8 | 30.80 | 89.9 | 29.52 | 89.3 | 28.66 | 85.7 | 25.68 |
| | 5 | 146.4 | 132.7 | 35.24 | 129.5 | 33.91 | 126.5 | 33.06 | 123.8 | 31.65 | 118.9 | 30.77 | 113.2 | 27.55 |
| | | 183.0 | 133.2 | 35.40 | 129.8 | 34.07 | 126.5 | 33.22 | 123.8 | 31.83 | 118.9 | 30.93 | 113.2 | 27.70 |
| | | 366.0 | 134.9 | 36.02 | 130.8 | 34.71 | 126.7 | 33.89 | 123.8 | 32.48 | 118.9 | 31.54 | 113.2 | 28.24 |
| | | 457.5 | 135.7 | 36.26 | 131.1 | 34.93 | 126.7 | 34.12 | 123.8 | 32.71 | 118.9 | 31.78 | 113.2 | 28.43 |
| | | 549.0 | 136.2 | 36.39 | 131.4 | 35.06 | 126.7 | 34.23 | 123.8 | 32.84 | 118.9 | 31.89 | 113.2 | 28.53 |
| | 10 | 146.4 | 133.3 | 31.60 | 130.0 | 30.53 | 126.5 | 29.86 | 123.5 | 28.85 | 118.6 | 27.92 | 112.9 | 25.09 |
| | | 183.0 | 133.8 | 31.67 | 130.3 | 30.61 | 126.5 | 29.94 | 123.8 | 28.90 | 118.9 | 27.89 | 113.2 | 25.12 |
| | | 366.0 | 135.7 | 31.89 | 131.6 | 30.96 | 127.3 | 30.29 | 124.6 | 29.06 | 119.7 | 27.81 | 113.7 | 25.23 |
| | | 457.5 | 136.5 | 31.89 | 132.2 | 30.96 | 127.8 | 30.23 | 124.6 | 28.98 | 120.0 | 27.92 | 114.0 | 25.52 |
| | | 549.0 | 136.8 | 31.89 | 132.5 | 30.96 | 128.1 | 30.18 | 124.8 | 28.93 | 120.0 | 27.99 | 114.2 | 25.65 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 146.4 | 133.6 | 27.97 | 130.0 | 27.20 | 126.2 | 26.72 | 123.3 | 26.08 | 118.6 | 25.04 | 112.9 | 22.69 |
| | | 183.0 | 134.1 | 27.92 | 130.6 | 27.20 | 126.7 | 26.72 | 123.8 | 25.97 | 118.9 | 24.85 | 113.2 | 22.59 |
| | | 366.0 | 136.5 | 27.76 | 132.5 | 27.20 | 128.1 | 26.72 | 125.1 | 25.60 | 120.5 | 24.11 | 114.3 | 22.19 |
| | | 457.5 | 137.1 | 27.57 | 133.2 | 26.96 | 128.9 | 26.37 | 125.7 | 25.23 | 120.8 | 24.11 | 114.8 | 22.59 |
| | | 549.0 | 137.6 | 27.47 | 133.5 | 26.83 | 129.2 | 26.19 | 125.9 | 25.07 | 121.0 | 24.11 | 115.3 | 22.78 |
| | 20 | 146.4 | 136.0 | 24.14 | 132.4 | 23.57 | 128.1 | 22.99 | 124.6 | 22.59 | 120.2 | 21.95 | 113.7 | 20.54 |
| | | 183.0 | 136.8 | 24.19 | 132.8 | 23.57 | 128.4 | 22.99 | 125.1 | 22.59 | 120.5 | 21.85 | 114.3 | 20.49 |
| | | 366.0 | 139.8 | 24.38 | 134.6 | 23.57 | 130.0 | 22.99 | 127.0 | 22.59 | 121.9 | 21.47 | 115.9 | 20.33 |
| | | 457.5 | 140.6 | 24.38 | 135.7 | 23.57 | 130.8 | 22.99 | 127.3 | 22.19 | 122.7 | 21.47 | 116.4 | 20.33 |
| | | 549.0 | 140.9 | 24.38 | 136.3 | 23.57 | 131.1 | 22.99 | 127.6 | 22.00 | 123.0 | 21.47 | 116.5 | 20.33 |
| | 25 | 146.4 | 140.3 | 21.97 | 136.2 | 21.15 | 130.8 | 20.83 | 127.8 | 20.03 | 123.5 | 19.29 | 116.7 | 17.69 |
| | | 183.0 | 140.6 | 21.92 | 136.2 | 21.07 | 130.8 | 20.72 | 127.8 | 19.95 | 123.5 | 19.21 | 116.7 | 17.69 |
| | | 366.0 | 141.7 | 21.77 | 136.2 | 20.72 | 130.8 | 20.33 | 127.8 | 19.58 | 123.5 | 18.81 | 116.7 | 17.69 |
| | | 457.5 | 142.5 | 21.77 | 136.2 | 20.80 | 130.8 | 19.95 | 127.8 | 19.58 | 123.5 | 18.46 | 116.7 | 17.34 |
| | | 549.0 | 142.8 | 21.77 | 136.2 | 20.83 | 130.8 | 19.74 | 127.8 | 19.58 | 123.5 | 18.28 | 116.7 | 17.16 |
| | 30 | 146.4 | 142.5 | 20.03 | 136.2 | 19.29 | 130.8 | 18.57 | 127.8 | 18.17 | 123.5 | 17.05 | 116.7 | 15.91 |
| | | 183.0 | 142.5 | 19.95 | 136.2 | 19.21 | 130.8 | 18.46 | 127.8 | 18.06 | 123.5 | 16.94 | 116.7 | 15.82 |
| | | 366.0 | 142.5 | 19.58 | 136.2 | 18.81 | 130.8 | 18.06 | 127.8 | 17.69 | 123.5 | 16.55 | 116.7 | 15.42 |
| | | 457.5 | 142.5 | 19.44 | 136.2 | 18.46 | 130.8 | 17.69 | 127.8 | 17.34 | 123.5 | 16.55 | 116.7 | 15.42 |
| | | 549.0 | 142.5 | 19.36 | 136.2 | 18.28 | 130.8 | 17.48 | 127.8 | 17.16 | 123.5 | 16.55 | 116.7 | 15.42 |
| | 35 | 146.4 | 142.5 | 19.00 | 136.2 | 17.77 | 130.8 | 17.05 | 127.8 | 16.30 | 123.5 | 15.51 | 116.7 | 14.38 |
| | | 183.0 | 142.5 | 18.81 | 136.2 | 17.69 | 130.8 | 16.94 | 127.8 | 16.20 | 123.5 | 15.42 | 116.7 | 14.30 |
| | | 366.0 | 142.5 | 18.06 | 136.2 | 17.34 | 130.8 | 16.55 | 127.8 | 15.82 | 123.5 | 15.08 | 116.7 | 13.94 |
| | | 457.5 | 142.5 | 17.61 | 136.2 | 16.94 | 130.8 | 16.20 | 127.8 | 15.82 | 123.5 | 15.08 | 116.7 | 13.94 |
| | | 549.0 | 142.5 | 17.37 | 136.2 | 16.75 | 130.8 | 16.03 | 127.8 | 15.82 | 123.5 | 15.08 | 116.7 | 13.94 |
| | 40 | 146.4 | 142.5 | 17.87 | 136.2 | 17.13 | 130.8 | 16.01 | 127.8 | 15.18 | 123.5 | 14.38 | 116.7 | 13.26 |
| | | 183.0 | 142.5 | 17.69 | 136.2 | 16.94 | 130.8 | 15.82 | 127.8 | 15.08 | 123.5 | 14.30 | 116.7 | 13.16 |
| | | 366.0 | 142.5 | 16.94 | 136.2 | 16.20 | 130.8 | 15.08 | 127.8 | 14.68 | 123.5 | 13.94 | 116.7 | 12.81 |
| | | 457.5 | 142.5 | 16.70 | 136.2 | 15.82 | 130.8 | 15.08 | 127.8 | 14.30 | 123.5 | 13.56 | 116.7 | 12.42 |
| | | 549.0 | 142.5 | 16.59 | 136.2 | 15.61 | 130.8 | 15.08 | 127.8 | 14.09 | 123.5 | 13.35 | 116.7 | 12.23 |
| | 45 | 146.4 | 142.5 | 16.73 | 136.2 | 16.49 | 130.8 | 14.97 | 127.8 | 14.04 | 123.5 | 13.26 | 116.7 | 12.12 |
| | | 183.0 | 142.5 | 16.55 | 136.2 | 16.20 | 130.8 | 14.68 | 127.8 | 13.94 | 123.5 | 13.16 | 116.7 | 12.04 |
| | | 366.0 | 142.5 | 15.82 | 136.2 | 15.08 | 130.8 | 13.56 | 127.8 | 13.56 | 123.5 | 12.81 | 116.7 | 11.69 |
| | | 457.5 | 142.5 | 15.82 | 136.2 | 14.68 | 130.8 | 13.94 | 127.8 | 12.81 | 123.5 | 12.04 | 116.7 | 10.90 |
| | | 549.0 | 142.5 | 15.82 | 136.2 | 14.49 | 130.8 | 14.14 | 127.8 | 12.44 | 123.5 | 11.64 | 116.7 | 10.52 |
| 100 | -5 | 146.4 | 48.1 | 23.97 | 47.8 | 22.59 | 47.5 | 20.73 | 47.2 | 19.85 | 46.7 | 18.97 | 45.9 | 17.26 |
| | | 183.0 | 49.7 | 24.38 | 49.4 | 23.02 | 49.2 | 21.18 | 48.8 | 20.30 | 48.3 | 19.39 | 47.5 | 17.64 |
| | | 366.0 | 56.4 | 26.02 | 55.9 | 24.72 | 55.7 | 22.99 | 55.1 | 22.00 | 54.6 | 21.07 | 53.8 | 19.16 |
| | | 457.5 | 62.2 | 27.70 | 61.9 | 26.45 | 61.4 | 24.77 | 60.8 | 23.76 | 60.5 | 22.70 | 59.4 | 20.64 |
| | | 549.0 | 65.2 | 28.53 | 64.6 | 27.31 | 64.3 | 25.68 | 63.8 | 24.64 | 63.5 | 23.52 | 62.2 | 21.39 |
| | 0 | 146.4 | 86.0 | 32.79 | 84.1 | 31.81 | 82.3 | 30.37 | 80.9 | 29.09 | 79.5 | 27.84 | 76.8 | 25.28 |
| | | 183.0 | 86.6 | 32.87 | 84.7 | 31.89 | 82.8 | 30.45 | 81.4 | 29.17 | 80.0 | 27.92 | 77.1 | 25.36 |
| | | 366.0 | 88.5 | 33.19 | 86.6 | 32.21 | 84.7 | 30.80 | 83.3 | 29.52 | 81.9 | 28.24 | 79.0 | 25.68 |
| | | 457.5 | 89.8 | 33.19 | 87.9 | 32.21 | 86.1 | 30.80 | 84.4 | 29.52 | 83.1 | 28.24 | 80.1 | 25.68 |
| | | 549.0 | 90.6 | 33.19 | 88.7 | 32.21 | 86.8 | 30.80 | 85.2 | 29.52 | 83.6 | 28.24 | 80.9 | 25.68 |
| | 5 | 146.4 | 127.0 | 35.24 | 122.7 | 34.39 | 119.5 | 33.06 | 117.2 | 31.65 | 111.6 | 30.29 | 106.4 | 27.55 |
| | | 183.0 | 127.3 | 35.40 | 122.9 | 34.55 | 119.7 | 33.22 | 117.2 | 31.83 | 111.6 | 30.45 | 106.4 | 27.70 |
| | | 366.0 | 129.2 | 36.02 | 123.8 | 35.17 | 119.7 | 33.89 | 117.2 | 32.48 | 111.6 | 31.09 | 106.4 | 28.24 |
| | | 457.5 | 130.0 | 36.26 | 124.1 | 35.40 | 119.7 | 34.12 | 117.2 | 32.71 | 111.6 | 31.27 | 106.4 | 28.43 |
| | | 549.0 | 130.3 | 36.39 | 124.3 | 35.51 | 119.7 | 34.23 | 117.2 | 32.84 | 111.6 | 31.38 | 106.4 | 28.53 |
| | 10 | 146.4 | 127.6 | 31.51 | 123.2 | 30.82 | 119.7 | 29.86 | 117.2 | 28.85 | 111.6 | 27.44 | 106.4 | 25.09 |
| | | 183.0 | 127.9 | 31.67 | 123.2 | 30.93 | 119.7 | 29.94 | 117.2 | 28.90 | 111.6 | 27.46 | 106.4 | 25.12 |
| | | 366.0 | 129.2 | 32.26 | 124.0 | 31.32 | 119.7 | 30.29 | 117.2 | 29.06 | 111.6 | 27.57 | 106.4 | 25.23 |
| | | 457.5 | 130.0 | 32.13 | 124.6 | 31.32 | 119.7 | 30.23 | 117.2 | 28.98 | 111.6 | 27.49 | 106.4 | 25.12 |
| | | 549.0 | 130.5 | 32.07 | 124.8 | 31.32 | 119.7 | 30.18 | 117.2 | 28.93 | 111.6 | 27.46 | 106.4 | 25.07 |
| | 15 | 146.4 | 128.4 | 27.79 | 123.5 | 27.33 | 119.7 | 26.72 | 117.2 | 26.08 | 111.6 | 24.56 | 106.4 | 22.69 |
| | | 183.0 | 128.4 | 27.92 | 123.8 | 27.33 | 119.7 | 26.72 | 117.2 | 25.97 | 111.6 | 24.46 | 106.4 | 22.59 |
| | | 366.0 | 129.2 | 28.48 | 124.0 | 27.41 | 119.7 | 26.72 | 117.2 | 25.60 | 111.6 | 24.11 | 106.4 | 22.19 |
| | | 457.5 | 130.3 | 28.00 | 124.6 | 27.20 | 119.7 | 26.37 | 117.2 | 25.23 | 111.6 | 23.71 | 106.4 | 21.85 |
| | | 549.0 | 130.8 | 27.76 | 125.1 | 27.07 | 119.7 | 26.19 | 117.2 | 25.07 | 111.6 | 23.52 | 106.4 | 21.68 |
| | 20 | 146.4 | 129.0 | 23.76 | 124.3 | 23.15 | 119.7 | 22.59 | 117.2 | 22.29 | 111.6 | 20.83 | 106.4 | 19.79 |
| | | 183.0 | 129.5 | 23.87 | 124.3 | 23.18 | 119.7 | 22.59 | 117.2 | 22.19 | 111.6 | 20.72 | 106.4 | 19.58 |
| | | 366.0 | 131.4 | 24.30 | 124.6 | 23.26 | 119.7 | 22.59 | 117.2 | 21.85 | 111.6 | 20.33 | 106.4 | 18.81 |
| | | 457.5 | 132.2 | 23.87 | 125.9 | 23.07 | 119.7 | 22.19 | 117.2 | 21.47 | 111.6 | 19.95 | 106.4 | 18.46 |
| | | 549.0 | 132.5 | 23.66 | 126.5 | 22.96 | 119.7 | 22.00 | 117.2 | 21.26 | 111.6 | 19.74 | 106.4 | 18.28 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 146.4 | 130.6 | 20.78 | 126.2 | 20.14 | 119.7 | 19.29 | 117.2 | 18.57 | 111.6 | 17.42 | 106.4 | 15.82 |
| | | 183.0 | 131.1 | 20.80 | 126.2 | 20.03 | 119.7 | 19.21 | 117.2 | 18.46 | 111.6 | 17.34 | 106.4 | 15.82 |
| | | 366.0 | 133.0 | 20.88 | 126.2 | 19.58 | 119.7 | 18.81 | 117.2 | 18.06 | 111.6 | 16.94 | 106.4 | 15.82 |
| | | 457.5 | 133.6 | 20.41 | 126.2 | 19.44 | 119.7 | 18.46 | 117.2 | 17.69 | 111.6 | 16.94 | 106.4 | 15.42 |
| | | 549.0 | 134.1 | 20.17 | 126.2 | 19.36 | 119.7 | 18.28 | 117.2 | 17.48 | 111.6 | 16.94 | 106.4 | 15.24 |
| | 30 | 146.4 | 133.6 | 18.91 | 126.2 | 17.42 | 119.7 | 16.25 | 117.2 | 15.91 | 111.6 | 14.68 | 106.4 | 14.04 |
| | | 183.0 | 133.6 | 18.81 | 126.2 | 17.34 | 119.7 | 16.20 | 117.2 | 15.82 | 111.6 | 14.68 | 106.4 | 13.94 |
| | | 366.0 | 133.6 | 18.46 | 126.2 | 16.94 | 119.7 | 16.04 | 117.2 | 15.42 | 111.6 | 14.68 | 106.4 | 13.56 |
| | | 457.5 | 133.6 | 18.06 | 126.2 | 16.94 | 119.7 | 15.82 | 117.2 | 15.42 | 111.6 | 14.30 | 106.4 | 13.56 |
| | | 549.0 | 133.6 | 17.88 | 126.2 | 16.94 | 119.7 | 15.69 | 117.2 | 15.42 | 111.6 | 14.09 | 106.4 | 13.56 |
| | 35 | 146.4 | 133.6 | 17.53 | 126.2 | 16.01 | 119.7 | 14.33 | 117.2 | 14.04 | 111.6 | 13.26 | 106.4 | 12.12 |
| | | 183.0 | 133.6 | 17.34 | 126.2 | 15.82 | 119.7 | 14.30 | 117.2 | 13.94 | 111.6 | 13.16 | 106.4 | 12.04 |
| | | 366.0 | 133.6 | 16.55 | 126.2 | 15.08 | 119.7 | 14.14 | 117.2 | 13.56 | 111.6 | 12.81 | 106.4 | 11.69 |
| | | 457.5 | 133.6 | 16.55 | 126.2 | 15.08 | 119.7 | 13.94 | 117.2 | 13.56 | 111.6 | 12.81 | 106.4 | 11.69 |
| | | 549.0 | 133.6 | 16.55 | 126.2 | 15.08 | 119.7 | 13.85 | 117.2 | 13.56 | 111.6 | 12.81 | 106.4 | 11.69 |
| | 40 | 146.4 | 133.6 | 16.41 | 126.2 | 14.87 | 119.7 | 12.84 | 117.2 | 12.52 | 111.6 | 11.78 | 106.4 | 11.00 |
| | | 183.0 | 133.6 | 16.20 | 126.2 | 14.68 | 119.7 | 12.81 | 117.2 | 12.42 | 111.6 | 11.69 | 106.4 | 10.90 |
| | | 366.0 | 133.6 | 15.42 | 126.2 | 13.94 | 119.7 | 12.65 | 117.2 | 12.04 | 111.6 | 11.30 | 106.4 | 10.55 |
| | | 457.5 | 133.6 | 15.08 | 126.2 | 13.94 | 119.7 | 12.42 | 117.2 | 12.04 | 111.6 | 11.30 | 106.4 | 10.55 |
| | | 549.0 | 133.6 | 14.89 | 126.2 | 13.94 | 119.7 | 12.31 | 117.2 | 12.04 | 111.6 | 11.30 | 106.4 | 10.55 |
| | 45 | 146.4 | 133.6 | 15.27 | 126.2 | 13.74 | 119.7 | 11.32 | 117.2 | 11.00 | 111.6 | 10.26 | 106.4 | 9.86 |
| | | 183.0 | 133.6 | 15.08 | 126.2 | 13.56 | 119.7 | 11.30 | 117.2 | 10.90 | 111.6 | 10.17 | 106.4 | 9.78 |
| | | 366.0 | 133.6 | 14.30 | 126.2 | 12.81 | 119.7 | 11.14 | 117.2 | 10.55 | 111.6 | 9.78 | 106.4 | 9.43 |
| | | 457.5 | 133.6 | 13.56 | 126.2 | 12.81 | 119.7 | 10.90 | 117.2 | 10.55 | 111.6 | 9.78 | 106.4 | 9.43 |
| | | 549.0 | 133.6 | 13.19 | 126.2 | 12.81 | 119.7 | 10.79 | 117.2 | 10.55 | 111.6 | 9.78 | 106.4 | 9.43 |
| 90 | -5 | 146.4 | 45.4 | 22.24 | 44.0 | 20.25 | 42.6 | 17.80 | 42.4 | 16.97 | 42.1 | 16.35 | 41.3 | 14.68 |
| | | 183.0 | 47.0 | 22.62 | 45.6 | 20.64 | 44.2 | 18.19 | 43.9 | 17.34 | 43.5 | 16.70 | 42.9 | 15.00 |
| | | 366.0 | 53.2 | 24.14 | 51.6 | 22.16 | 50.0 | 19.74 | 49.7 | 18.81 | 49.4 | 18.14 | 48.3 | 16.28 |
| | | 457.5 | 58.9 | 25.68 | 57.0 | 23.71 | 55.1 | 21.31 | 54.8 | 20.30 | 54.5 | 19.55 | 53.5 | 17.56 |
| | | 549.0 | 61.6 | 26.43 | 59.7 | 24.51 | 57.8 | 22.09 | 57.3 | 21.04 | 57.0 | 20.25 | 55.9 | 18.22 |
| | 0 | 146.4 | 81.2 | 30.29 | 77.6 | 28.43 | 73.9 | 26.11 | 72.8 | 24.90 | 71.6 | 23.97 | 68.9 | 21.52 |
| | | 183.0 | 81.7 | 30.37 | 77.9 | 28.51 | 74.4 | 26.18 | 73.3 | 24.96 | 72.0 | 24.03 | 69.5 | 21.58 |
| | | 366.0 | 83.6 | 30.69 | 79.8 | 28.82 | 76.2 | 26.45 | 74.9 | 25.23 | 73.8 | 24.30 | 71.1 | 21.82 |
| | | 457.5 | 84.9 | 30.69 | 80.9 | 28.82 | 77.4 | 26.45 | 76.0 | 25.23 | 74.9 | 24.30 | 72.2 | 21.82 |
| | | 549.0 | 85.5 | 30.69 | 81.7 | 28.82 | 77.9 | 26.45 | 76.6 | 25.23 | 75.5 | 24.30 | 72.7 | 21.82 |
| | 5 | 146.4 | 114.8 | 32.53 | 111.0 | 30.69 | 107.5 | 28.42 | 105.3 | 27.09 | 100.7 | 26.08 | 95.8 | 23.41 |
| | | 183.0 | 114.8 | 32.68 | 111.0 | 30.85 | 107.5 | 28.56 | 105.3 | 27.23 | 100.7 | 26.21 | 95.8 | 23.52 |
| | | 366.0 | 115.4 | 33.27 | 110.7 | 31.43 | 107.5 | 29.09 | 105.3 | 27.76 | 100.7 | 26.75 | 95.8 | 24.00 |
| | | 457.5 | 115.9 | 33.46 | 111.0 | 31.62 | 107.5 | 29.33 | 105.3 | 27.97 | 100.7 | 26.96 | 95.8 | 24.19 |
| | | 549.0 | 116.4 | 33.56 | 111.3 | 31.73 | 107.5 | 29.44 | 105.3 | 28.05 | 100.7 | 27.04 | 95.8 | 24.29 |
| | 10 | 146.4 | 115.4 | 28.72 | 111.5 | 27.31 | 107.5 | 25.71 | 105.3 | 24.67 | 100.7 | 23.66 | 95.8 | 21.31 |
| | | 183.0 | 115.4 | 28.74 | 111.3 | 27.33 | 107.5 | 25.74 | 105.3 | 24.69 | 100.7 | 23.63 | 95.8 | 21.34 |
| | | 366.0 | 115.1 | 28.82 | 110.8 | 27.46 | 107.5 | 25.87 | 105.3 | 24.80 | 100.7 | 23.57 | 95.8 | 21.42 |
| | | 457.5 | 115.9 | 28.74 | 111.0 | 27.38 | 107.5 | 25.79 | 105.3 | 24.72 | 100.7 | 23.63 | 95.8 | 21.50 |
| | | 549.0 | 116.2 | 28.71 | 111.3 | 27.33 | 107.5 | 25.74 | 105.3 | 24.69 | 100.7 | 23.68 | 95.8 | 21.55 |
| | 15 | 146.4 | 115.9 | 24.88 | 111.8 | 23.97 | 107.5 | 23.07 | 105.3 | 22.29 | 100.7 | 21.26 | 95.8 | 19.29 |
| | | 183.0 | 115.9 | 24.77 | 111.6 | 23.87 | 107.5 | 22.99 | 105.3 | 22.19 | 100.7 | 21.07 | 95.8 | 19.21 |
| | | 366.0 | 115.1 | 24.38 | 111.0 | 23.49 | 107.5 | 22.59 | 105.3 | 21.85 | 100.7 | 20.33 | 95.8 | 18.81 |
| | | 457.5 | 115.9 | 24.03 | 111.3 | 23.13 | 107.5 | 22.19 | 105.3 | 21.47 | 100.7 | 20.33 | 95.8 | 18.81 |
| | | 549.0 | 116.2 | 23.85 | 111.3 | 22.96 | 107.5 | 22.00 | 105.3 | 21.26 | 100.7 | 20.33 | 95.8 | 18.81 |
| | 20 | 146.4 | 116.7 | 20.99 | 112.4 | 20.38 | 107.5 | 19.69 | 105.3 | 18.91 | 100.7 | 18.25 | 95.8 | 17.13 |
| | | 183.0 | 116.7 | 20.99 | 112.1 | 20.33 | 107.5 | 19.58 | 105.3 | 18.81 | 100.7 | 18.06 | 95.8 | 16.94 |
| | | 366.0 | 116.2 | 20.99 | 111.3 | 20.09 | 107.5 | 19.21 | 105.3 | 18.46 | 100.7 | 17.34 | 95.8 | 16.20 |
| | | 457.5 | 116.5 | 20.64 | 111.6 | 19.95 | 107.5 | 19.21 | 105.3 | 18.46 | 100.7 | 17.34 | 95.8 | 16.20 |
| | | 549.0 | 116.7 | 20.46 | 111.8 | 19.87 | 107.5 | 19.21 | 105.3 | 18.46 | 100.7 | 17.34 | 95.8 | 16.20 |
| | 25 | 146.4 | 118.6 | 18.35 | 113.7 | 17.37 | 107.5 | 16.65 | 105.3 | 15.82 | 100.7 | 15.18 | 95.8 | 14.04 |
| | | 183.0 | 118.9 | 18.30 | 113.7 | 17.34 | 107.5 | 16.55 | 105.3 | 15.82 | 100.7 | 15.08 | 95.8 | 13.94 |
| | | 366.0 | 120.0 | 18.14 | 113.7 | 17.18 | 107.5 | 16.20 | 105.3 | 15.82 | 100.7 | 14.68 | 95.8 | 13.56 |
| | | 457.5 | 120.5 | 17.69 | 113.7 | 16.78 | 107.5 | 16.20 | 105.3 | 15.42 | 100.7 | 14.68 | 95.8 | 13.56 |
| | | 549.0 | 120.8 | 17.45 | 113.7 | 16.59 | 107.5 | 16.20 | 105.3 | 15.24 | 100.7 | 14.68 | 95.8 | 13.56 |
| | 30 | 146.4 | 120.5 | 16.65 | 113.7 | 15.51 | 107.5 | 14.38 | 105.3 | 14.04 | 100.7 | 13.26 | 95.8 | 12.04 |
| | | 183.0 | 120.5 | 16.55 | 113.7 | 15.42 | 107.5 | 14.30 | 105.3 | 13.94 | 100.7 | 13.16 | 95.8 | 12.04 |
| | | 366.0 | 120.5 | 16.20 | 113.7 | 15.08 | 107.5 | 13.94 | 105.3 | 13.56 | 100.7 | 12.81 | 95.8 | 12.04 |
| | | 457.5 | 120.5 | 15.82 | 113.7 | 14.68 | 107.5 | 13.94 | 105.3 | 13.56 | 100.7 | 12.81 | 95.8 | 11.69 |
| | | 549.0 | 120.5 | 15.61 | 113.7 | 14.49 | 107.5 | 13.94 | 105.3 | 13.56 | 100.7 | 12.81 | 95.8 | 11.51 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 146.4 | 120.5 | 15.18 | 113.7 | 14.04 | 107.5 | 12.92 | 105.3 | 12.52 | 100.7 | 11.78 | 95.8 | 11.00 |
| | | 183.0 | 120.5 | 15.08 | 113.7 | 13.94 | 107.5 | 12.81 | 105.3 | 12.42 | 100.7 | 11.69 | 95.8 | 10.90 |
| | | 366.0 | 120.5 | 14.68 | 113.7 | 13.56 | 107.5 | 12.42 | 105.3 | 12.04 | 100.7 | 11.30 | 95.8 | 10.55 |
| | | 457.5 | 120.5 | 14.30 | 113.7 | 13.16 | 107.5 | 12.04 | 105.3 | 11.69 | 100.7 | 11.30 | 95.8 | 10.55 |
| | | 549.0 | 120.5 | 14.09 | 113.7 | 12.97 | 107.5 | 11.83 | 105.3 | 11.51 | 100.7 | 11.30 | 95.8 | 10.55 |
| | 40 | 146.4 | 120.5 | 14.14 | 113.7 | 12.92 | 107.5 | 11.40 | 105.3 | 11.00 | 100.7 | 10.66 | 95.8 | 9.86 |
| | | 183.0 | 120.5 | 13.94 | 113.7 | 12.81 | 107.5 | 11.30 | 105.3 | 10.90 | 100.7 | 10.55 | 95.8 | 9.78 |
| | | 366.0 | 120.5 | 13.16 | 113.7 | 12.42 | 107.5 | 10.90 | 105.3 | 10.55 | 100.7 | 10.17 | 95.8 | 9.43 |
| | | 457.5 | 120.5 | 13.16 | 113.7 | 12.42 | 107.5 | 10.90 | 105.3 | 10.55 | 100.7 | 10.17 | 95.8 | 9.43 |
| | | 549.0 | 120.5 | 13.16 | 113.7 | 12.42 | 107.5 | 10.90 | 105.3 | 10.55 | 100.7 | 10.17 | 95.8 | 9.43 |
| | 45 | 146.4 | 120.5 | 13.10 | 113.7 | 11.78 | 107.5 | 9.86 | 105.3 | 9.53 | 100.7 | 9.53 | 95.8 | 8.74 |
| | | 183.0 | 120.5 | 12.81 | 113.7 | 11.69 | 107.5 | 9.78 | 105.3 | 9.43 | 100.7 | 9.43 | 95.8 | 8.65 |
| | | 366.0 | 120.5 | 11.69 | 113.7 | 11.30 | 107.5 | 9.43 | 105.3 | 9.03 | 100.7 | 9.03 | 95.8 | 8.29 |
| | | 457.5 | 120.5 | 12.04 | 113.7 | 11.69 | 107.5 | 9.78 | 105.3 | 9.43 | 100.7 | 9.03 | 95.8 | 8.29 |
| | | 549.0 | 120.5 | 12.20 | 113.7 | 11.88 | 107.5 | 9.96 | 105.3 | 9.62 | 100.7 | 9.03 | 95.8 | 8.29 |
| 80 | -5 | 146.4 | 42.9 | 15.85 | 40.2 | 15.24 | 38.0 | 14.60 | 37.7 | 14.12 | 37.5 | 13.45 | 36.7 | 12.39 |
| | | 183.0 | 44.5 | 16.20 | 41.6 | 15.58 | 39.4 | 14.92 | 39.1 | 14.41 | 38.8 | 13.75 | 38.0 | 12.65 |
| | | 366.0 | 50.2 | 17.61 | 47.2 | 16.91 | 44.5 | 16.17 | 44.0 | 15.61 | 43.9 | 14.92 | 42.9 | 13.72 |
| | | 457.5 | 55.6 | 18.97 | 52.1 | 18.22 | 49.2 | 17.45 | 48.6 | 16.86 | 48.3 | 16.09 | 47.5 | 14.81 |
| | | 549.0 | 58.3 | 19.66 | 54.5 | 18.89 | 51.6 | 18.09 | 51.0 | 17.50 | 50.8 | 16.68 | 49.7 | 15.35 |
| | 0 | 146.4 | 76.8 | 23.26 | 70.8 | 22.32 | 65.9 | 21.39 | 64.6 | 20.67 | 63.8 | 19.69 | 61.3 | 18.14 |
| | | 183.0 | 77.1 | 23.33 | 71.1 | 22.40 | 66.2 | 21.47 | 65.1 | 20.72 | 64.1 | 19.74 | 61.6 | 18.19 |
| | | 366.0 | 79.0 | 23.60 | 72.8 | 22.67 | 67.8 | 21.69 | 66.5 | 20.96 | 65.7 | 19.98 | 63.2 | 18.38 |
| | | 457.5 | 80.1 | 23.60 | 73.9 | 22.67 | 68.9 | 21.69 | 67.6 | 20.96 | 66.8 | 19.98 | 64.1 | 18.38 |
| | | 549.0 | 80.6 | 23.60 | 74.4 | 22.67 | 69.5 | 21.69 | 68.1 | 20.96 | 67.3 | 19.98 | 64.6 | 18.38 |
| | 5 | 146.4 | 106.1 | 25.30 | 100.1 | 24.35 | 95.8 | 23.23 | 93.6 | 22.48 | 89.6 | 21.42 | 85.2 | 19.71 |
| | | 183.0 | 106.4 | 25.44 | 100.4 | 24.46 | 95.8 | 23.36 | 93.6 | 22.59 | 89.6 | 21.55 | 85.2 | 19.82 |
| | | 366.0 | 107.2 | 25.97 | 101.0 | 24.93 | 95.8 | 23.87 | 93.6 | 23.07 | 89.6 | 21.97 | 85.2 | 20.25 |
| | | 457.5 | 107.2 | 26.13 | 101.0 | 25.12 | 95.8 | 24.03 | 93.6 | 23.21 | 89.6 | 22.11 | 85.2 | 20.38 |
| | | 549.0 | 107.2 | 26.21 | 101.0 | 25.23 | 95.8 | 24.11 | 93.6 | 23.28 | 89.6 | 22.19 | 85.2 | 20.43 |
| | 10 | 146.4 | 106.7 | 23.28 | 100.5 | 22.22 | 95.8 | 21.10 | 93.6 | 20.51 | 89.6 | 19.42 | 85.2 | 17.98 |
| | | 183.0 | 106.7 | 23.26 | 100.7 | 22.19 | 95.8 | 21.10 | 93.6 | 20.54 | 89.6 | 19.44 | 85.2 | 17.98 |
| | | 366.0 | 107.2 | 23.13 | 101.0 | 22.08 | 95.8 | 21.15 | 93.6 | 20.57 | 89.6 | 19.47 | 85.2 | 18.03 |
| | | 457.5 | 107.2 | 23.07 | 101.0 | 22.16 | 95.8 | 21.23 | 93.6 | 20.46 | 89.6 | 19.36 | 85.2 | 17.93 |
| | | 549.0 | 107.2 | 23.02 | 101.0 | 22.19 | 95.8 | 21.26 | 93.6 | 20.38 | 89.6 | 19.29 | 85.2 | 17.85 |
| | 15 | 146.4 | 107.2 | 21.26 | 101.0 | 20.14 | 95.8 | 18.91 | 93.6 | 18.57 | 89.6 | 17.42 | 85.2 | 16.30 |
| | | 183.0 | 107.2 | 21.07 | 101.0 | 19.95 | 95.8 | 18.81 | 93.6 | 18.46 | 89.6 | 17.34 | 85.2 | 16.20 |
| | | 366.0 | 107.2 | 20.33 | 101.0 | 19.21 | 95.8 | 18.46 | 93.6 | 18.06 | 89.6 | 16.94 | 85.2 | 15.82 |
| | | 457.5 | 107.2 | 19.95 | 101.0 | 19.21 | 95.8 | 18.46 | 93.6 | 17.69 | 89.6 | 16.55 | 85.2 | 15.42 |
| | | 549.0 | 107.2 | 19.74 | 101.0 | 19.21 | 95.8 | 18.46 | 93.6 | 17.48 | 89.6 | 16.36 | 85.2 | 15.24 |
| | 20 | 146.4 | 107.2 | 17.77 | 101.0 | 17.05 | 95.8 | 16.20 | 93.6 | 15.91 | 89.6 | 15.18 | 85.2 | 14.04 |
| | | 183.0 | 107.2 | 17.69 | 101.0 | 16.94 | 95.8 | 16.20 | 93.6 | 15.82 | 89.6 | 15.08 | 85.2 | 13.94 |
| | | 366.0 | 107.2 | 17.34 | 101.0 | 16.55 | 95.8 | 16.20 | 93.6 | 15.42 | 89.6 | 14.68 | 85.2 | 13.56 |
| | | 457.5 | 107.2 | 16.94 | 101.0 | 16.20 | 95.8 | 15.82 | 93.6 | 15.42 | 89.6 | 14.30 | 85.2 | 13.56 |
| | | 549.0 | 107.2 | 16.75 | 101.0 | 16.03 | 95.8 | 15.61 | 93.6 | 15.42 | 89.6 | 14.09 | 85.2 | 13.56 |
| | 25 | 146.4 | 107.2 | 15.91 | 101.0 | 14.78 | 95.8 | 13.94 | 93.6 | 13.64 | 89.6 | 12.92 | 85.2 | 12.12 |
| | | 183.0 | 107.2 | 15.82 | 101.0 | 14.68 | 95.8 | 13.94 | 93.6 | 13.56 | 89.6 | 12.81 | 85.2 | 12.04 |
| | | 366.0 | 107.2 | 15.42 | 101.0 | 14.30 | 95.8 | 13.94 | 93.6 | 13.16 | 89.6 | 12.42 | 85.2 | 11.69 |
| | | 457.5 | 107.2 | 15.08 | 101.0 | 14.30 | 95.8 | 13.56 | 93.6 | 13.16 | 89.6 | 12.42 | 85.2 | 11.69 |
| | | 549.0 | 107.2 | 14.89 | 101.0 | 14.30 | 95.8 | 13.35 | 93.6 | 13.16 | 89.6 | 12.42 | 85.2 | 11.69 |
| | 30 | 146.4 | 107.2 | 14.04 | 101.0 | 13.26 | 95.8 | 12.52 | 93.6 | 12.12 | 89.6 | 11.40 | 85.2 | 10.66 |
| | | 183.0 | 107.2 | 13.94 | 101.0 | 13.16 | 95.8 | 12.42 | 93.6 | 12.04 | 89.6 | 11.30 | 85.2 | 10.55 |
| | | 366.0 | 107.2 | 13.56 | 101.0 | 12.81 | 95.8 | 12.04 | 93.6 | 11.69 | 89.6 | 10.90 | 85.2 | 10.17 |
| | | 457.5 | 107.2 | 13.56 | 101.0 | 12.81 | 95.8 | 12.04 | 93.6 | 11.69 | 89.6 | 10.90 | 85.2 | 10.17 |
| | | 549.0 | 107.2 | 13.56 | 101.0 | 12.81 | 95.8 | 12.04 | 93.6 | 11.69 | 89.6 | 10.90 | 85.2 | 10.17 |
| | 35 | 146.4 | 107.2 | 12.92 | 101.0 | 12.12 | 95.8 | 11.00 | 93.6 | 10.55 | 89.6 | 10.26 | 85.2 | 9.43 |
| | | 183.0 | 107.2 | 12.81 | 101.0 | 12.04 | 95.8 | 10.90 | 93.6 | 10.55 | 89.6 | 10.17 | 85.2 | 9.43 |
| | | 366.0 | 107.2 | 12.42 | 101.0 | 11.69 | 95.8 | 10.55 | 93.6 | 10.55 | 89.6 | 9.78 | 85.2 | 9.43 |
| | | 457.5 | 107.2 | 12.42 | 101.0 | 11.30 | 95.8 | 10.55 | 93.6 | 10.17 | 89.6 | 9.78 | 85.2 | 9.03 |
| | | 549.0 | 107.2 | 12.42 | 101.0 | 11.11 | 95.8 | 10.55 | 93.6 | 9.96 | 89.6 | 9.78 | 85.2 | 8.84 |
| | 40 | 146.4 | 107.2 | 12.23 | 101.0 | 11.00 | 95.8 | 9.78 | 93.6 | 9.86 | 89.6 | 9.03 | 85.2 | 8.74 |
| | | 183.0 | 107.2 | 12.04 | 101.0 | 10.90 | 95.8 | 9.78 | 93.6 | 9.78 | 89.6 | 9.03 | 85.2 | 8.65 |
| | | 366.0 | 107.2 | 11.30 | 101.0 | 10.55 | 95.8 | 9.78 | 93.6 | 9.43 | 89.6 | 9.03 | 85.2 | 8.29 |
| | | 457.5 | 107.2 | 11.30 | 101.0 | 10.55 | 95.8 | 9.43 | 93.6 | 9.43 | 89.6 | 9.03 | 85.2 | 8.29 |
| | | 549.0 | 107.2 | 11.30 | 101.0 | 10.55 | 95.8 | 9.25 | 93.6 | 9.43 | 89.6 | 9.03 | 85.2 | 8.29 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 146.4 | 107.2 | 11.59 | 101.0 | 9.86 | 95.8 | 8.55 | 93.6 | 9.22 | 89.6 | 7.81 | 85.2 | 8.10 |
| | | 183.0 | 107.2 | 11.30 | 101.0 | 9.78 | 95.8 | 8.65 | 93.6 | 9.03 | 89.6 | 7.91 | 85.2 | 7.91 |
| | | 366.0 | 107.2 | 10.17 | 101.0 | 9.43 | 95.8 | 9.03 | 93.6 | 8.29 | 89.6 | 8.29 | 85.2 | 7.17 |
| | | 457.5 | 107.2 | 10.17 | 101.0 | 9.78 | 95.8 | 8.29 | 93.6 | 8.65 | 89.6 | 8.29 | 85.2 | 7.51 |
| | | 549.0 | 107.2 | 10.17 | 101.0 | 9.96 | 95.8 | 7.91 | 93.6 | 8.82 | 89.6 | 8.29 | 85.2 | 7.70 |
| 70 | -5 | 146.4 | 37.5 | 13.61 | 35.3 | 12.95 | 33.4 | 12.54 | 32.9 | 11.83 | 32.8 | 11.40 | 32.3 | 10.36 |
| | | 183.0 | 38.8 | 13.91 | 36.4 | 13.24 | 34.5 | 12.81 | 34.2 | 12.07 | 33.9 | 11.64 | 33.4 | 10.60 |
| | | 366.0 | 43.9 | 15.08 | 41.2 | 14.38 | 38.8 | 13.91 | 38.5 | 13.08 | 38.3 | 12.63 | 37.7 | 11.48 |
| | | 457.5 | 48.6 | 16.28 | 45.6 | 15.50 | 42.9 | 15.00 | 42.6 | 14.09 | 42.3 | 13.64 | 41.5 | 12.39 |
| | | 549.0 | 51.0 | 16.89 | 47.8 | 16.07 | 45.1 | 15.55 | 44.8 | 14.60 | 44.3 | 14.14 | 43.4 | 12.84 |
| | 0 | 146.4 | 67.1 | 19.92 | 61.9 | 18.99 | 57.5 | 18.36 | 56.5 | 17.29 | 55.7 | 16.70 | 53.7 | 15.19 |
| | | 183.0 | 67.6 | 19.98 | 62.4 | 19.05 | 57.8 | 18.43 | 57.0 | 17.34 | 55.9 | 16.75 | 54.0 | 15.24 |
| | | 366.0 | 69.0 | 20.22 | 63.8 | 19.24 | 59.2 | 18.65 | 58.3 | 17.53 | 57.3 | 16.94 | 55.1 | 15.39 |
| | | 457.5 | 70.0 | 20.22 | 64.9 | 19.24 | 60.2 | 18.65 | 59.2 | 17.53 | 58.3 | 16.94 | 56.2 | 15.39 |
| | | 549.0 | 70.6 | 20.22 | 65.4 | 19.24 | 60.5 | 18.65 | 59.5 | 17.53 | 58.6 | 16.94 | 56.5 | 15.39 |
| | 5 | 146.4 | 92.6 | 21.71 | 87.7 | 20.65 | 83.6 | 19.98 | 81.9 | 18.84 | 78.2 | 18.17 | 74.4 | 16.51 |
| | | 183.0 | 92.8 | 21.82 | 87.9 | 20.75 | 83.6 | 20.09 | 81.9 | 18.94 | 78.2 | 18.27 | 74.4 | 16.60 |
| | | 366.0 | 93.6 | 22.24 | 88.7 | 21.18 | 83.6 | 20.54 | 81.9 | 19.28 | 78.2 | 18.65 | 74.4 | 16.94 |
| | | 457.5 | 93.6 | 22.40 | 88.5 | 21.34 | 83.6 | 20.67 | 81.9 | 19.44 | 78.2 | 18.78 | 74.4 | 17.05 |
| | | 549.0 | 93.6 | 22.48 | 88.5 | 21.42 | 83.6 | 20.75 | 81.9 | 19.52 | 78.2 | 18.83 | 74.4 | 17.13 |
| | 10 | 146.4 | 93.1 | 19.98 | 88.2 | 18.89 | 83.6 | 18.19 | 81.9 | 17.18 | 78.2 | 16.47 | 74.4 | 15.08 |
| | | 183.0 | 93.1 | 19.95 | 88.2 | 18.86 | 83.6 | 18.14 | 81.9 | 17.18 | 78.2 | 16.47 | 74.4 | 15.08 |
| | | 366.0 | 93.6 | 19.79 | 88.5 | 18.70 | 83.6 | 17.98 | 81.9 | 17.18 | 78.2 | 16.47 | 74.4 | 15.08 |
| | | 457.5 | 93.6 | 19.87 | 88.5 | 18.78 | 83.6 | 18.06 | 81.9 | 17.26 | 78.2 | 16.36 | 74.4 | 15.11 |
| | | 549.0 | 93.6 | 19.90 | 88.5 | 18.81 | 83.6 | 18.11 | 81.9 | 17.29 | 78.2 | 16.30 | 74.4 | 15.13 |
| | 15 | 146.4 | 93.6 | 18.25 | 88.5 | 17.13 | 83.6 | 16.41 | 81.9 | 15.51 | 78.2 | 14.78 | 74.4 | 13.64 |
| | | 183.0 | 93.6 | 18.06 | 88.5 | 16.94 | 83.6 | 16.20 | 81.9 | 15.42 | 78.2 | 14.68 | 74.4 | 13.56 |
| | | 366.0 | 93.6 | 17.34 | 88.5 | 16.20 | 83.6 | 15.42 | 81.9 | 15.08 | 78.2 | 14.30 | 74.4 | 13.16 |
| | | 457.5 | 93.6 | 17.34 | 88.5 | 16.20 | 83.6 | 15.42 | 81.9 | 15.08 | 78.2 | 13.94 | 74.4 | 13.16 |
| | | 549.0 | 93.6 | 17.34 | 88.5 | 16.20 | 83.6 | 15.42 | 81.9 | 15.08 | 78.2 | 13.77 | 74.4 | 13.16 |
| | 20 | 146.4 | 93.6 | 15.18 | 88.5 | 14.38 | 83.6 | 14.04 | 81.9 | 13.64 | 78.2 | 12.92 | 74.4 | 12.12 |
| | | 183.0 | 93.6 | 15.08 | 88.5 | 14.30 | 83.6 | 13.94 | 81.9 | 13.56 | 78.2 | 12.81 | 74.4 | 12.04 |
| | | 366.0 | 93.6 | 14.68 | 88.5 | 13.94 | 83.6 | 13.56 | 81.9 | 13.16 | 78.2 | 12.42 | 74.4 | 11.69 |
| | | 457.5 | 93.6 | 14.68 | 88.5 | 13.94 | 83.6 | 13.56 | 81.9 | 12.81 | 78.2 | 12.42 | 74.4 | 11.30 |
| | | 549.0 | 93.6 | 14.68 | 88.5 | 13.94 | 83.6 | 13.56 | 81.9 | 12.63 | 78.2 | 12.42 | 74.4 | 11.11 |
| | 25 | 146.4 | 93.6 | 13.64 | 88.5 | 12.92 | 83.6 | 12.12 | 81.9 | 11.78 | 78.2 | 10.90 | 74.4 | 10.17 |
| | | 183.0 | 93.6 | 13.56 | 88.5 | 12.81 | 83.6 | 12.04 | 81.9 | 11.69 | 78.2 | 10.90 | 74.4 | 10.17 |
| | | 366.0 | 93.6 | 13.16 | 88.5 | 12.42 | 83.6 | 11.69 | 81.9 | 11.30 | 78.2 | 10.90 | 74.4 | 10.17 |
| | | 457.5 | 93.6 | 12.81 | 88.5 | 12.04 | 83.6 | 11.69 | 81.9 | 11.30 | 78.2 | 10.55 | 74.4 | 10.17 |
| | | 549.0 | 93.6 | 12.63 | 88.5 | 11.83 | 83.6 | 11.69 | 81.9 | 11.30 | 78.2 | 10.39 | 74.4 | 10.17 |
| | 30 | 146.4 | 93.6 | 12.12 | 88.5 | 11.40 | 83.6 | 10.66 | 81.9 | 10.17 | 78.2 | 9.86 | 74.4 | 9.03 |
| | | 183.0 | 93.6 | 12.04 | 88.5 | 11.30 | 83.6 | 10.55 | 81.9 | 10.17 | 78.2 | 9.78 | 74.4 | 9.03 |
| | | 366.0 | 93.6 | 11.69 | 88.5 | 10.90 | 83.6 | 10.17 | 81.9 | 10.17 | 78.2 | 9.43 | 74.4 | 9.03 |
| | | 457.5 | 93.6 | 11.69 | 88.5 | 10.90 | 83.6 | 10.17 | 81.9 | 9.78 | 78.2 | 9.43 | 74.4 | 9.03 |
| | | 549.0 | 93.6 | 11.69 | 88.5 | 10.90 | 83.6 | 10.17 | 81.9 | 9.59 | 78.2 | 9.43 | 74.4 | 9.03 |
| | 35 | 146.4 | 93.6 | 11.00 | 88.5 | 10.26 | 83.6 | 9.43 | 81.9 | 9.53 | 78.2 | 8.65 | 74.4 | 8.39 |
| | | 183.0 | 93.6 | 10.90 | 88.5 | 10.17 | 83.6 | 9.43 | 81.9 | 9.43 | 78.2 | 8.65 | 74.4 | 8.29 |
| | | 366.0 | 93.6 | 10.55 | 88.5 | 9.78 | 83.6 | 9.43 | 81.9 | 9.03 | 78.2 | 8.65 | 74.4 | 7.91 |
| | | 457.5 | 93.6 | 10.55 | 88.5 | 9.78 | 83.6 | 9.03 | 81.9 | 9.03 | 78.2 | 8.65 | 74.4 | 7.91 |
| | | 549.0 | 93.6 | 10.55 | 88.5 | 9.78 | 83.6 | 8.84 | 81.9 | 9.03 | 78.2 | 8.65 | 74.4 | 7.91 |
| | 40 | 146.4 | 93.6 | 10.26 | 88.5 | 9.53 | 83.6 | 8.74 | 81.9 | 8.29 | 78.2 | 7.91 | 74.4 | 7.62 |
| | | 183.0 | 93.6 | 10.17 | 88.5 | 9.43 | 83.6 | 8.65 | 81.9 | 8.29 | 78.2 | 7.91 | 74.4 | 7.51 |
| | | 366.0 | 93.6 | 9.78 | 88.5 | 9.03 | 83.6 | 8.29 | 81.9 | 8.29 | 78.2 | 7.91 | 74.4 | 7.17 |
| | | 457.5 | 93.6 | 9.78 | 88.5 | 9.03 | 83.6 | 8.29 | 81.9 | 7.91 | 78.2 | 7.51 | 74.4 | 7.17 |
| | | 549.0 | 93.6 | 9.78 | 88.5 | 9.03 | 83.6 | 8.29 | 81.9 | 7.70 | 78.2 | 7.32 | 74.4 | 7.17 |
| | 45 | 146.4 | 93.6 | 9.53 | 88.5 | 8.74 | 83.6 | 8.10 | 81.9 | 7.08 | 78.2 | 7.17 | 74.4 | 6.87 |
| | | 183.0 | 93.6 | 9.43 | 88.5 | 8.65 | 83.6 | 7.91 | 81.9 | 7.17 | 78.2 | 7.17 | 74.4 | 6.77 |
| | | 366.0 | 93.6 | 9.03 | 88.5 | 8.29 | 83.6 | 7.17 | 81.9 | 7.51 | 78.2 | 7.17 | 74.4 | 6.39 |
| | | 457.5 | 93.6 | 9.03 | 88.5 | 8.29 | 83.6 | 7.51 | 81.9 | 6.77 | 78.2 | 6.39 | 74.4 | 6.39 |
| | | 549.0 | 93.6 | 9.03 | 88.5 | 8.29 | 83.6 | 7.70 | 81.9 | 6.40 | 78.2 | 5.99 | 74.4 | 6.39 |
| 60 | -5 | 146.4 | 32.3 | 11.05 | 30.1 | 10.63 | 28.5 | 10.21 | 28.2 | 9.49 | 28.0 | 9.33 | 27.4 | 8.34 |
| | | 183.0 | 33.4 | 11.30 | 31.2 | 10.87 | 29.6 | 10.44 | 29.1 | 9.70 | 29.0 | 9.54 | 28.5 | 8.53 |
| | | 366.0 | 37.7 | 12.28 | 35.3 | 11.80 | 33.4 | 11.32 | 33.1 | 10.52 | 32.9 | 10.36 | 32.3 | 9.27 |
| | | 457.5 | 41.6 | 13.21 | 39.1 | 12.73 | 36.9 | 12.23 | 36.6 | 11.37 | 36.4 | 11.19 | 35.6 | 9.96 |
| | | 549.0 | 43.7 | 13.67 | 40.7 | 13.21 | 38.8 | 12.68 | 38.3 | 11.80 | 38.2 | 11.59 | 37.2 | 10.33 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 146.4 | 57.5 | 16.20 | 53.0 | 15.61 | 49.4 | 14.94 | 48.6 | 13.91 | 47.8 | 13.72 | 46.1 | 12.23 |
| | | 183.0 | 57.8 | 16.25 | 53.4 | 15.66 | 49.7 | 15.00 | 48.8 | 13.94 | 48.1 | 13.75 | 46.4 | 12.28 |
| | | 366.0 | 59.2 | 16.44 | 54.6 | 15.82 | 51.0 | 15.19 | 49.9 | 14.09 | 49.2 | 13.91 | 47.3 | 12.39 |
| | | 457.5 | 60.2 | 16.44 | 55.4 | 15.82 | 51.8 | 15.19 | 50.7 | 14.09 | 50.0 | 13.91 | 48.1 | 12.39 |
| | | 549.0 | 60.5 | 16.44 | 55.9 | 15.82 | 52.1 | 15.19 | 51.0 | 14.09 | 50.5 | 13.91 | 48.6 | 12.39 |
| | 5 | 146.4 | 79.5 | 17.63 | 74.9 | 16.97 | 71.9 | 16.27 | 70.1 | 15.16 | 67.1 | 14.92 | 63.8 | 13.29 |
| | | 183.0 | 79.8 | 17.72 | 75.2 | 17.05 | 71.9 | 16.36 | 70.1 | 15.24 | 67.1 | 15.00 | 63.8 | 13.35 |
| | | 366.0 | 80.4 | 18.06 | 75.7 | 17.42 | 71.9 | 16.70 | 70.1 | 15.53 | 67.1 | 15.31 | 63.8 | 13.64 |
| | | 457.5 | 80.4 | 18.22 | 75.7 | 17.53 | 71.9 | 16.83 | 70.1 | 15.66 | 67.1 | 15.39 | 63.8 | 13.75 |
| | | 549.0 | 80.4 | 18.30 | 75.5 | 17.58 | 71.9 | 16.89 | 70.1 | 15.72 | 67.1 | 15.42 | 63.8 | 13.80 |
| | 10 | 146.4 | 80.0 | 16.20 | 75.2 | 15.50 | 71.9 | 14.76 | 70.1 | 13.80 | 67.1 | 13.53 | 63.8 | 12.12 |
| | | 183.0 | 80.1 | 16.20 | 75.4 | 15.50 | 71.9 | 14.76 | 70.1 | 13.83 | 67.1 | 13.51 | 63.8 | 12.15 |
| | | 366.0 | 80.4 | 16.20 | 75.7 | 15.50 | 71.9 | 14.76 | 70.1 | 13.98 | 67.1 | 13.48 | 63.8 | 12.28 |
| | | 457.5 | 80.4 | 16.25 | 75.7 | 15.34 | 71.9 | 14.60 | 70.1 | 13.83 | 67.1 | 13.35 | 63.8 | 12.15 |
| | | 549.0 | 80.4 | 16.25 | 75.5 | 15.26 | 71.9 | 14.52 | 70.1 | 13.75 | 67.1 | 13.29 | 63.8 | 12.09 |
| | 15 | 146.4 | 80.4 | 14.78 | 75.7 | 14.04 | 71.9 | 13.26 | 70.1 | 12.42 | 67.1 | 12.12 | 63.8 | 10.90 |
| | | 183.0 | 80.4 | 14.68 | 75.7 | 13.94 | 71.9 | 13.16 | 70.1 | 12.42 | 67.1 | 12.04 | 63.8 | 10.90 |
| | | 366.0 | 80.4 | 14.30 | 75.7 | 13.56 | 71.9 | 12.81 | 70.1 | 12.42 | 67.1 | 11.69 | 63.8 | 10.90 |
| | | 457.5 | 80.4 | 14.30 | 75.7 | 13.16 | 71.9 | 12.42 | 70.1 | 12.04 | 67.1 | 11.30 | 63.8 | 10.55 |
| | | 549.0 | 80.4 | 14.30 | 75.7 | 12.97 | 71.9 | 12.23 | 70.1 | 11.83 | 67.1 | 11.11 | 63.8 | 10.39 |
| | 20 | 146.4 | 80.4 | 12.92 | 75.7 | 12.12 | 71.9 | 11.40 | 70.1 | 11.00 | 67.1 | 10.66 | 63.8 | 9.86 |
| | | 183.0 | 80.4 | 12.81 | 75.7 | 12.04 | 71.9 | 11.30 | 70.1 | 10.90 | 67.1 | 10.55 | 63.8 | 9.78 |
| | | 366.0 | 80.4 | 12.42 | 75.7 | 11.69 | 71.9 | 10.90 | 70.1 | 10.55 | 67.1 | 10.17 | 63.8 | 9.43 |
| | | 457.5 | 80.4 | 12.42 | 75.7 | 11.69 | 71.9 | 10.90 | 70.1 | 10.55 | 67.1 | 10.17 | 63.8 | 9.43 |
| | | 549.0 | 80.4 | 12.42 | 75.7 | 11.69 | 71.9 | 10.90 | 70.1 | 10.55 | 67.1 | 10.17 | 63.8 | 9.43 |
| | 25 | 146.4 | 80.4 | 11.40 | 75.7 | 10.66 | 71.9 | 9.78 | 70.1 | 9.86 | 67.1 | 9.03 | 63.8 | 8.74 |
| | | 183.0 | 80.4 | 11.30 | 75.7 | 10.55 | 71.9 | 9.78 | 70.1 | 9.78 | 67.1 | 9.03 | 63.8 | 8.65 |
| | | 366.0 | 80.4 | 10.90 | 75.7 | 10.17 | 71.9 | 9.78 | 70.1 | 9.43 | 67.1 | 9.03 | 63.8 | 8.29 |
| | | 457.5 | 80.4 | 10.90 | 75.7 | 10.17 | 71.9 | 9.43 | 70.1 | 9.43 | 67.1 | 9.03 | 63.8 | 8.29 |
| | | 549.0 | 80.4 | 10.90 | 75.7 | 10.17 | 71.9 | 9.25 | 70.1 | 9.43 | 67.1 | 9.03 | 63.8 | 8.29 |
| | 30 | 146.4 | 80.4 | 10.26 | 75.7 | 9.53 | 71.9 | 9.14 | 70.1 | 8.74 | 67.1 | 8.39 | 63.8 | 8.00 |
| | | 183.0 | 80.4 | 10.17 | 75.7 | 9.43 | 71.9 | 9.03 | 70.1 | 8.65 | 67.1 | 8.29 | 63.8 | 7.91 |
| | | 366.0 | 80.4 | 9.78 | 75.7 | 9.03 | 71.9 | 8.65 | 70.1 | 8.29 | 67.1 | 7.91 | 63.8 | 7.51 |
| | | 457.5 | 80.4 | 9.78 | 75.7 | 9.03 | 71.9 | 8.65 | 70.1 | 8.29 | 67.1 | 7.91 | 63.8 | 7.51 |
| | | 549.0 | 80.4 | 9.78 | 75.7 | 9.03 | 71.9 | 8.65 | 70.1 | 8.29 | 67.1 | 7.91 | 63.8 | 7.51 |
| | 35 | 146.4 | 80.4 | 9.03 | 75.7 | 8.74 | 71.9 | 7.91 | 70.1 | 8.00 | 67.1 | 7.62 | 63.8 | 7.27 |
| | | 183.0 | 80.4 | 9.03 | 75.7 | 8.65 | 71.9 | 7.91 | 70.1 | 7.91 | 67.1 | 7.51 | 63.8 | 7.17 |
| | | 366.0 | 80.4 | 9.03 | 75.7 | 8.29 | 71.9 | 7.91 | 70.1 | 7.51 | 67.1 | 7.17 | 63.8 | 6.77 |
| | | 457.5 | 80.4 | 9.03 | 75.7 | 8.29 | 71.9 | 7.51 | 70.1 | 7.51 | 67.1 | 7.17 | 63.8 | 6.77 |
| | | 549.0 | 80.4 | 9.03 | 75.7 | 8.29 | 71.9 | 7.32 | 70.1 | 7.51 | 67.1 | 7.17 | 63.8 | 6.77 |
| | 40 | 146.4 | 80.4 | 8.29 | 75.7 | 8.00 | 71.9 | 7.17 | 70.1 | 7.27 | 67.1 | 6.87 | 63.8 | 6.39 |
| | | 183.0 | 80.4 | 8.29 | 75.7 | 7.91 | 71.9 | 7.17 | 70.1 | 7.17 | 67.1 | 6.77 | 63.8 | 6.39 |
| | | 366.0 | 80.4 | 8.29 | 75.7 | 7.51 | 71.9 | 7.17 | 70.1 | 6.77 | 67.1 | 6.39 | 63.8 | 6.39 |
| | | 457.5 | 80.4 | 8.29 | 75.7 | 7.51 | 71.9 | 7.17 | 70.1 | 6.77 | 67.1 | 6.39 | 63.8 | 6.39 |
| | | 549.0 | 80.4 | 8.29 | 75.7 | 7.51 | 71.9 | 7.17 | 70.1 | 6.77 | 67.1 | 6.39 | 63.8 | 6.39 |
| | 45 | 146.4 | 80.4 | 7.51 | 75.7 | 7.27 | 71.9 | 6.39 | 70.1 | 6.47 | 67.1 | 6.13 | 63.8 | 5.54 |
| | | 183.0 | 80.4 | 7.51 | 75.7 | 7.17 | 71.9 | 6.39 | 70.1 | 6.39 | 67.1 | 6.04 | 63.8 | 5.65 |
| | | 366.0 | 80.4 | 7.51 | 75.7 | 6.77 | 71.9 | 6.39 | 70.1 | 6.04 | 67.1 | 5.65 | 63.8 | 6.04 |
| | | 457.5 | 80.4 | 7.51 | 75.7 | 6.77 | 71.9 | 6.77 | 70.1 | 6.04 | 67.1 | 5.65 | 63.8 | 6.04 |
| | | 549.0 | 80.4 | 7.51 | 75.7 | 6.77 | 71.9 | 6.98 | 70.1 | 6.04 | 67.1 | 5.65 | 63.8 | 6.04 |
| 50 | -5 | 146.4 | 26.9 | 8.82 | 25.2 | 8.34 | 23.9 | 7.89 | 23.4 | 7.46 | 23.3 | 7.01 | 22.8 | 6.63 |
| | | 183.0 | 27.7 | 9.00 | 26.1 | 8.53 | 24.7 | 8.07 | 24.2 | 7.64 | 24.2 | 7.17 | 23.6 | 6.77 |
| | | 366.0 | 31.2 | 9.75 | 29.3 | 9.27 | 27.9 | 8.73 | 27.4 | 8.29 | 27.4 | 7.78 | 26.9 | 7.32 |
| | | 457.5 | 34.7 | 10.52 | 32.6 | 9.96 | 30.7 | 9.43 | 30.4 | 8.95 | 30.1 | 8.37 | 29.8 | 7.91 |
| | | 549.0 | 36.4 | 10.90 | 34.2 | 10.33 | 32.3 | 9.78 | 31.8 | 9.30 | 31.5 | 8.66 | 31.2 | 8.20 |
| | 0 | 146.4 | 47.8 | 12.90 | 44.3 | 12.23 | 41.2 | 11.53 | 40.2 | 10.95 | 39.7 | 10.28 | 38.3 | 9.70 |
| | | 183.0 | 48.1 | 12.92 | 44.5 | 12.28 | 41.5 | 11.56 | 40.5 | 10.98 | 39.9 | 10.31 | 38.5 | 9.75 |
| | | 366.0 | 49.2 | 13.05 | 45.6 | 12.39 | 42.4 | 11.72 | 41.5 | 11.14 | 41.0 | 10.44 | 39.4 | 9.86 |
| | | 457.5 | 50.0 | 13.05 | 46.2 | 12.39 | 42.9 | 11.72 | 42.1 | 11.14 | 41.5 | 10.44 | 40.1 | 9.86 |
| | | 549.0 | 50.5 | 13.05 | 46.4 | 12.39 | 43.2 | 11.72 | 42.6 | 11.14 | 41.8 | 10.44 | 40.4 | 9.86 |
| | 5 | 146.4 | 66.2 | 14.04 | 62.7 | 13.29 | 59.7 | 12.55 | 58.4 | 11.94 | 55.9 | 11.21 | 53.2 | 10.53 |
| | | 183.0 | 66.2 | 14.09 | 62.7 | 13.35 | 59.7 | 12.63 | 58.4 | 11.99 | 55.9 | 11.27 | 53.2 | 10.60 |
| | | 366.0 | 66.8 | 14.38 | 63.2 | 13.64 | 60.0 | 12.89 | 58.4 | 12.23 | 55.9 | 11.45 | 53.2 | 10.82 |
| | | 457.5 | 66.8 | 14.49 | 63.2 | 13.75 | 60.0 | 12.97 | 58.4 | 12.31 | 55.9 | 11.56 | 53.2 | 10.90 |
| | | 549.0 | 66.8 | 14.55 | 63.0 | 13.80 | 60.0 | 13.00 | 58.4 | 12.34 | 55.9 | 11.62 | 53.2 | 10.95 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(38HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 146.4 | 66.5 | 12.92 | 62.7 | 12.17 | 59.7 | 11.43 | 58.4 | 10.92 | 55.9 | 10.10 | 53.2 | 9.64 |
| | | 183.0 | 66.5 | 12.89 | 63.0 | 12.15 | 59.7 | 11.40 | 58.4 | 10.90 | 55.9 | 10.12 | 53.2 | 9.62 |
| | | 366.0 | 66.8 | 12.81 | 63.2 | 12.12 | 60.0 | 11.32 | 58.4 | 10.82 | 55.9 | 10.25 | 53.2 | 9.54 |
| | | 457.5 | 66.8 | 12.89 | 63.2 | 12.15 | 60.0 | 11.37 | 58.4 | 10.87 | 55.9 | 10.09 | 53.2 | 9.59 |
| | | 549.0 | 66.8 | 12.92 | 63.0 | 12.17 | 60.0 | 11.40 | 58.4 | 10.89 | 55.9 | 10.01 | 53.2 | 9.59 |
| | 15 | 146.4 | 66.8 | 11.78 | 63.2 | 11.00 | 60.0 | 10.26 | 58.4 | 9.86 | 55.9 | 9.03 | 53.2 | 8.74 |
| | | 183.0 | 66.8 | 11.69 | 63.2 | 10.90 | 60.0 | 10.17 | 58.4 | 9.78 | 55.9 | 9.03 | 53.2 | 8.65 |
| | | 366.0 | 66.8 | 11.30 | 63.2 | 10.55 | 60.0 | 9.78 | 58.4 | 9.43 | 55.9 | 9.03 | 53.2 | 8.29 |
| | | 457.5 | 66.8 | 11.30 | 63.2 | 10.55 | 60.0 | 9.78 | 58.4 | 9.43 | 55.9 | 8.65 | 53.2 | 8.29 |
| | | 549.0 | 66.8 | 11.30 | 63.2 | 10.55 | 60.0 | 9.78 | 58.4 | 9.43 | 55.9 | 8.45 | 53.2 | 8.29 |
| | 20 | 146.4 | 66.8 | 10.26 | 63.2 | 9.53 | 60.0 | 9.14 | 58.4 | 8.74 | 55.9 | 8.39 | 53.2 | 7.51 |
| | | 183.0 | 66.8 | 10.17 | 63.2 | 9.43 | 60.0 | 9.03 | 58.4 | 8.65 | 55.9 | 8.29 | 53.2 | 7.51 |
| | | 366.0 | 66.8 | 9.78 | 63.2 | 9.03 | 60.0 | 8.65 | 58.4 | 8.29 | 55.9 | 7.91 | 53.2 | 7.51 |
| | | 457.5 | 66.8 | 9.78 | 63.2 | 9.03 | 60.0 | 8.65 | 58.4 | 8.29 | 55.9 | 7.91 | 53.2 | 7.51 |
| | | 549.0 | 66.8 | 9.78 | 63.2 | 9.03 | 60.0 | 8.65 | 58.4 | 8.29 | 55.9 | 7.91 | 53.2 | 7.51 |
| | 25 | 146.4 | 66.8 | 9.14 | 63.2 | 8.29 | 60.0 | 8.00 | 58.4 | 7.51 | 55.9 | 7.17 | 53.2 | 6.77 |
| | | 183.0 | 66.8 | 9.03 | 63.2 | 8.29 | 60.0 | 7.91 | 58.4 | 7.51 | 55.9 | 7.17 | 53.2 | 6.77 |
| | | 366.0 | 66.8 | 8.65 | 63.2 | 8.29 | 60.0 | 7.51 | 58.4 | 7.51 | 55.9 | 7.17 | 53.2 | 6.77 |
| | | 457.5 | 66.8 | 8.65 | 63.2 | 8.29 | 60.0 | 7.51 | 58.4 | 7.51 | 55.9 | 7.17 | 53.2 | 6.77 |
| | | 549.0 | 66.8 | 8.65 | 63.2 | 8.29 | 60.0 | 7.51 | 58.4 | 7.51 | 55.9 | 7.17 | 53.2 | 6.77 |
| | 30 | 146.4 | 66.8 | 8.39 | 63.2 | 7.62 | 60.0 | 7.27 | 58.4 | 6.77 | 55.9 | 6.87 | 53.2 | 6.47 |
| | | 183.0 | 66.8 | 8.29 | 63.2 | 7.51 | 60.0 | 7.17 | 58.4 | 6.77 | 55.9 | 6.77 | 53.2 | 6.39 |
| | | 366.0 | 66.8 | 7.91 | 63.2 | 7.17 | 60.0 | 6.77 | 58.4 | 6.77 | 55.9 | 6.39 | 53.2 | 6.04 |
| | | 457.5 | 66.8 | 7.91 | 63.2 | 7.17 | 60.0 | 6.77 | 58.4 | 6.77 | 55.9 | 6.39 | 53.2 | 6.04 |
| | | 549.0 | 66.8 | 7.91 | 63.2 | 7.17 | 60.0 | 6.77 | 58.4 | 6.77 | 55.9 | 6.39 | 53.2 | 6.04 |
| | 35 | 146.4 | 66.8 | 7.62 | 63.2 | 6.77 | 60.0 | 6.39 | 58.4 | 6.47 | 55.9 | 6.04 | 53.2 | 5.65 |
| | | 183.0 | 66.8 | 7.51 | 63.2 | 6.77 | 60.0 | 6.39 | 58.4 | 6.39 | 55.9 | 6.04 | 53.2 | 5.65 |
| | | 366.0 | 66.8 | 7.17 | 63.2 | 6.77 | 60.0 | 6.39 | 58.4 | 6.04 | 55.9 | 6.04 | 53.2 | 5.65 |
| | | 457.5 | 66.8 | 7.17 | 63.2 | 6.77 | 60.0 | 6.39 | 58.4 | 6.04 | 55.9 | 6.04 | 53.2 | 5.65 |
| | | 549.0 | 66.8 | 7.17 | 63.2 | 6.77 | 60.0 | 6.39 | 58.4 | 6.04 | 55.9 | 6.04 | 53.2 | 5.65 |
| | 40 | 146.4 | 66.8 | 6.87 | 63.2 | 6.47 | 60.0 | 6.13 | 58.4 | 5.65 | 55.9 | 5.75 | 53.2 | 5.25 |
| | | 183.0 | 66.8 | 6.77 | 63.2 | 6.39 | 60.0 | 6.04 | 58.4 | 5.65 | 55.9 | 5.65 | 53.2 | 5.25 |
| | | 366.0 | 66.8 | 6.39 | 63.2 | 6.04 | 60.0 | 5.65 | 58.4 | 5.65 | 55.9 | 5.25 | 53.2 | 5.25 |
| | | 457.5 | 66.8 | 6.39 | 63.2 | 6.04 | 60.0 | 5.65 | 58.4 | 5.65 | 55.9 | 5.25 | 53.2 | 5.25 |
| | | 549.0 | 66.8 | 6.39 | 63.2 | 6.04 | 60.0 | 5.65 | 58.4 | 5.65 | 55.9 | 5.25 | 53.2 | 5.25 |
| | 45 | 146.4 | 66.8 | 6.13 | 63.2 | 6.23 | 60.0 | 5.83 | 58.4 | 4.82 | 55.9 | 5.44 | 53.2 | 4.90 |
| | | 183.0 | 66.8 | 6.04 | 63.2 | 6.04 | 60.0 | 5.65 | 58.4 | 4.90 | 55.9 | 5.25 | 53.2 | 4.90 |
| | | 366.0 | 66.8 | 5.65 | 63.2 | 5.25 | 60.0 | 4.90 | 58.4 | 5.25 | 55.9 | 4.53 | 53.2 | 4.90 |
| | | 457.5 | 66.8 | 5.65 | 63.2 | 5.25 | 60.0 | 4.90 | 58.4 | 5.25 | 55.9 | 4.53 | 53.2 | 4.90 |
| | | 549.0 | 66.8 | 5.65 | 63.2 | 5.25 | 60.0 | 4.90 | 58.4 | 5.25 | 55.9 | 4.53 | 53.2 | 4.90 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN400BAS4

**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 154.0 | 59.5 | 24.84 | 59.2 | 23.38 | 58.8 | 21.76 | 58.0 | 21.13 | 58.7 | 20.58 | 57.0 | 18.46 |
| | | 192.5 | 61.7 | 25.26 | 61.2 | 23.84 | 60.8 | 22.25 | 60.0 | 21.59 | 60.7 | 21.03 | 59.0 | 18.85 |
| | | 385.0 | 69.7 | 27.00 | 69.2 | 25.65 | 68.8 | 24.13 | 67.8 | 23.43 | 68.7 | 22.79 | 67.0 | 20.44 |
| | | 481.3 | 77.0 | 28.71 | 76.5 | 27.39 | 76.0 | 26.02 | 75.0 | 25.31 | 76.0 | 24.58 | 74.0 | 22.05 |
| | | 577.5 | 80.8 | 29.57 | 80.0 | 28.30 | 79.5 | 26.95 | 78.5 | 26.27 | 79.5 | 25.48 | 77.5 | 22.84 |
| | 0 | 154.0 | 106.5 | 33.98 | 104.0 | 32.97 | 101.8 | 31.89 | 99.5 | 30.99 | 100.0 | 30.13 | 95.5 | 27.00 |
| | | 192.5 | 107.2 | 34.07 | 104.7 | 33.05 | 102.5 | 31.97 | 100.2 | 31.09 | 100.5 | 30.23 | 96.0 | 27.07 |
| | | 385.0 | 109.7 | 34.44 | 107.0 | 33.37 | 104.8 | 32.36 | 102.5 | 31.45 | 103.0 | 30.55 | 98.3 | 27.39 |
| | | 481.3 | 111.3 | 34.44 | 108.7 | 33.37 | 106.5 | 32.36 | 104.0 | 31.45 | 104.5 | 30.55 | 99.7 | 27.39 |
| | | 577.5 | 112.2 | 34.44 | 109.5 | 33.37 | 107.3 | 32.36 | 104.8 | 31.45 | 105.2 | 30.55 | 100.5 | 27.39 |
| | 5 | 154.0 | 153.3 | 36.52 | 151.0 | 35.62 | 148.0 | 34.71 | 144.2 | 33.73 | 140.3 | 32.80 | 132.5 | 29.37 |
| | | 192.5 | 154.0 | 36.69 | 151.3 | 35.79 | 148.0 | 34.88 | 144.2 | 33.90 | 140.3 | 32.97 | 132.5 | 29.52 |
| | | 385.0 | 156.0 | 37.33 | 152.3 | 36.45 | 148.0 | 35.59 | 144.2 | 34.59 | 140.3 | 33.61 | 132.5 | 30.13 |
| | | 481.3 | 157.0 | 37.58 | 152.8 | 36.69 | 148.0 | 35.83 | 144.2 | 34.84 | 140.3 | 33.86 | 132.5 | 30.35 |
| | | 577.5 | 157.5 | 37.70 | 153.0 | 36.81 | 148.0 | 35.96 | 144.2 | 34.96 | 140.3 | 33.98 | 132.5 | 30.45 |
| | 10 | 154.0 | 153.5 | 33.22 | 151.0 | 32.12 | 147.5 | 31.51 | 143.5 | 30.80 | 139.8 | 29.74 | 132.0 | 26.85 |
| | | 192.5 | 154.5 | 33.17 | 151.8 | 32.14 | 148.0 | 31.58 | 144.2 | 30.79 | 140.3 | 29.74 | 132.5 | 26.83 |
| | | 385.0 | 158.0 | 32.92 | 154.5 | 32.26 | 150.5 | 31.82 | 146.5 | 30.75 | 142.5 | 29.65 | 134.7 | 26.75 |
| | | 481.3 | 159.0 | 33.37 | 155.7 | 32.73 | 151.3 | 31.94 | 147.2 | 30.87 | 143.3 | 30.13 | 135.5 | 28.01 |
| | | 577.5 | 159.3 | 33.61 | 156.2 | 32.95 | 151.8 | 32.00 | 147.5 | 30.94 | 143.8 | 30.38 | 136.0 | 28.66 |
| | 15 | 154.0 | 153.8 | 29.94 | 151.0 | 28.67 | 146.8 | 28.37 | 143.0 | 27.88 | 139.2 | 26.71 | 131.5 | 24.33 |
| | | 192.5 | 155.0 | 29.65 | 152.3 | 28.54 | 148.0 | 28.30 | 144.2 | 27.69 | 140.3 | 26.51 | 132.5 | 24.13 |
| | | 385.0 | 160.0 | 28.47 | 156.8 | 28.05 | 152.7 | 28.05 | 148.8 | 26.88 | 144.5 | 25.68 | 136.8 | 23.31 |
| | | 481.3 | 161.0 | 29.16 | 158.3 | 28.71 | 154.5 | 28.05 | 150.5 | 26.88 | 146.5 | 26.41 | 138.5 | 25.68 |
| | | 577.5 | 161.3 | 29.52 | 159.0 | 29.03 | 155.5 | 28.05 | 151.2 | 26.88 | 147.5 | 26.78 | 139.3 | 26.88 |
| | 20 | 154.0 | 159.7 | 27.47 | 156.7 | 26.19 | 152.5 | 25.63 | 148.3 | 24.80 | 144.0 | 24.26 | 135.5 | 23.50 |
| | | 192.5 | 161.0 | 27.27 | 158.0 | 26.17 | 153.8 | 25.60 | 149.5 | 24.90 | 145.3 | 24.41 | 136.8 | 23.31 |
| | | 385.0 | 166.0 | 26.51 | 163.0 | 26.09 | 158.5 | 25.53 | 154.2 | 25.31 | 150.5 | 25.07 | 141.8 | 22.54 |
| | | 481.3 | 166.7 | 26.51 | 164.2 | 26.09 | 160.3 | 25.68 | 155.8 | 25.31 | 151.5 | 25.07 | 143.0 | 23.96 |
| | | 577.5 | 167.0 | 26.51 | 164.8 | 26.09 | 161.3 | 25.77 | 156.5 | 25.31 | 152.2 | 25.07 | 143.5 | 24.68 |
| | 25 | 154.0 | 168.5 | 26.19 | 164.2 | 25.43 | 160.3 | 25.02 | 157.3 | 24.60 | 153.8 | 24.23 | 145.0 | 22.64 |
| | | 192.5 | 168.5 | 26.09 | 164.2 | 25.39 | 160.3 | 24.90 | 157.3 | 24.50 | 153.8 | 24.13 | 145.0 | 22.54 |
| | | 385.0 | 168.5 | 25.68 | 164.2 | 25.24 | 160.3 | 24.50 | 157.3 | 24.13 | 153.8 | 23.72 | 145.0 | 22.13 |
| | | 481.3 | 168.5 | 25.31 | 164.2 | 24.58 | 160.3 | 24.13 | 157.3 | 23.72 | 153.8 | 23.31 | 145.0 | 21.76 |
| | | 577.5 | 168.5 | 25.14 | 164.2 | 24.26 | 160.3 | 23.94 | 157.3 | 23.52 | 153.8 | 23.11 | 145.0 | 21.57 |
| | 30 | 154.0 | 168.5 | 25.53 | 164.2 | 24.26 | 160.3 | 24.04 | 157.3 | 23.40 | 153.8 | 23.16 | 145.0 | 21.54 |
| | | 192.5 | 168.5 | 25.31 | 164.2 | 24.21 | 160.3 | 23.89 | 157.3 | 23.31 | 153.8 | 22.94 | 145.0 | 21.35 |
| | | 385.0 | 168.5 | 24.50 | 164.2 | 24.04 | 160.3 | 23.31 | 157.3 | 22.94 | 153.8 | 22.13 | 145.0 | 20.56 |
| | | 481.3 | 168.5 | 24.13 | 164.2 | 23.40 | 160.3 | 22.94 | 157.3 | 22.54 | 153.8 | 22.13 | 145.0 | 20.56 |
| | | 577.5 | 168.5 | 23.94 | 164.2 | 23.06 | 160.3 | 22.76 | 157.3 | 22.33 | 153.8 | 22.13 | 145.0 | 20.56 |
| | 35 | 154.0 | 168.5 | 24.33 | 164.2 | 23.52 | 160.3 | 23.04 | 157.3 | 22.23 | 153.8 | 21.44 | 145.0 | 19.95 |
| | | 192.5 | 168.5 | 24.13 | 164.2 | 23.40 | 160.3 | 22.94 | 157.3 | 22.13 | 153.8 | 21.35 | 145.0 | 19.75 |
| | | 385.0 | 168.5 | 23.31 | 164.2 | 22.86 | 160.3 | 22.54 | 157.3 | 21.76 | 153.8 | 20.93 | 145.0 | 18.97 |
| | | 481.3 | 168.5 | 23.31 | 164.2 | 22.62 | 160.3 | 22.13 | 157.3 | 21.35 | 153.8 | 20.56 | 145.0 | 18.97 |
| | | 577.5 | 168.5 | 23.31 | 164.2 | 22.50 | 160.3 | 21.91 | 157.3 | 21.15 | 153.8 | 20.39 | 145.0 | 18.97 |
| | 40 | 154.0 | 168.5 | 23.50 | 164.2 | 22.76 | 160.3 | 22.32 | 157.3 | 21.54 | 153.8 | 20.78 | 145.0 | 18.77 |
| | | 192.5 | 168.5 | 23.31 | 164.2 | 22.62 | 160.3 | 22.13 | 157.3 | 21.35 | 153.8 | 20.56 | 145.0 | 18.56 |
| | | 385.0 | 168.5 | 22.54 | 164.2 | 22.05 | 160.3 | 21.35 | 157.3 | 20.56 | 153.8 | 19.75 | 145.0 | 17.80 |
| | | 481.3 | 168.5 | 22.13 | 164.2 | 21.67 | 160.3 | 21.35 | 157.3 | 20.56 | 153.8 | 19.75 | 145.0 | 17.80 |
| | | 577.5 | 168.5 | 21.91 | 164.2 | 21.49 | 160.3 | 21.35 | 157.3 | 20.56 | 153.8 | 19.75 | 145.0 | 17.80 |
| | 45 | 154.0 | 168.5 | 22.74 | 164.2 | 21.98 | 160.3 | 21.64 | 157.3 | 20.88 | 153.8 | 20.05 | 145.0 | 17.58 |
| | | 192.5 | 168.5 | 22.54 | 164.2 | 21.84 | 160.3 | 21.35 | 157.3 | 20.56 | 153.8 | 19.75 | 145.0 | 17.38 |
| | | 385.0 | 168.5 | 21.76 | 164.2 | 21.27 | 160.3 | 20.17 | 157.3 | 19.39 | 153.8 | 18.56 | 145.0 | 16.60 |
| | | 481.3 | 168.5 | 20.93 | 164.2 | 20.73 | 160.3 | 20.56 | 157.3 | 19.75 | 153.8 | 18.97 | 145.0 | 16.60 |
| | | 577.5 | 168.5 | 20.54 | 164.2 | 20.46 | 160.3 | 20.78 | 157.3 | 19.95 | 153.8 | 19.19 | 145.0 | 16.60 |
| 120 | -5 | 154.0 | 56.7 | 24.84 | 56.2 | 23.38 | 55.8 | 21.76 | 55.2 | 20.86 | 55.7 | 20.25 | 54.2 | 18.12 |
| | | 192.5 | 58.5 | 25.26 | 58.2 | 23.84 | 57.8 | 22.25 | 57.0 | 21.30 | 57.5 | 20.69 | 56.0 | 18.53 |
| | | 385.0 | 66.3 | 27.00 | 65.8 | 25.65 | 65.5 | 24.13 | 64.5 | 23.11 | 65.2 | 22.45 | 63.5 | 20.12 |
| | | 481.3 | 73.3 | 28.71 | 72.7 | 27.39 | 72.2 | 26.02 | 71.5 | 24.94 | 72.0 | 24.21 | 70.0 | 21.67 |
| | | 577.5 | 76.7 | 29.57 | 76.2 | 28.30 | 75.7 | 26.95 | 74.8 | 25.87 | 75.5 | 25.09 | 73.3 | 22.45 |
| | 0 | 154.0 | 101.3 | 33.98 | 98.8 | 32.97 | 96.7 | 31.89 | 94.7 | 30.55 | 94.7 | 29.69 | 90.5 | 26.54 |
| | | 192.5 | 101.8 | 34.07 | 99.5 | 33.05 | 97.3 | 31.97 | 95.3 | 30.62 | 95.3 | 29.77 | 91.0 | 26.63 |
| | | 385.0 | 104.2 | 34.44 | 101.7 | 33.37 | 99.7 | 32.36 | 97.5 | 30.99 | 97.5 | 30.11 | 93.2 | 26.95 |
| | | 481.3 | 105.8 | 34.44 | 103.5 | 33.37 | 101.2 | 32.36 | 99.0 | 30.99 | 99.0 | 30.11 | 94.5 | 26.95 |
| | | 577.5 | 106.7 | 34.44 | 104.2 | 33.37 | 102.0 | 32.36 | 99.8 | 30.99 | 99.7 | 30.11 | 95.3 | 26.95 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 154.0 | 146.0 | 36.52 | 143.8 | 35.62 | 140.7 | 34.71 | 137.3 | 33.24 | 133.0 | 32.31 | 125.7 | 28.93 |
| | | 192.5 | 146.5 | 36.69 | 144.0 | 35.79 | 140.7 | 34.88 | 137.3 | 33.41 | 133.0 | 32.48 | 125.7 | 29.08 |
| | | 385.0 | 148.5 | 37.33 | 145.0 | 36.45 | 140.7 | 35.59 | 137.3 | 34.10 | 133.0 | 33.12 | 125.7 | 29.65 |
| | | 481.3 | 149.5 | 37.58 | 144.3 | 36.69 | 140.7 | 35.83 | 137.3 | 34.35 | 133.0 | 33.37 | 125.7 | 29.86 |
| | | 577.5 | 149.8 | 37.70 | 143.8 | 36.81 | 140.7 | 35.96 | 137.3 | 34.47 | 133.0 | 33.49 | 125.7 | 29.96 |
| | 10 | 154.0 | 146.5 | 32.80 | 143.8 | 31.90 | 140.3 | 31.26 | 136.8 | 30.30 | 132.5 | 29.30 | 125.3 | 26.34 |
| | | 192.5 | 147.2 | 32.92 | 144.5 | 32.02 | 140.7 | 31.36 | 137.3 | 30.35 | 133.0 | 29.28 | 125.7 | 26.39 |
| | | 385.0 | 150.0 | 33.37 | 146.7 | 32.51 | 142.2 | 31.82 | 138.8 | 30.50 | 134.3 | 29.20 | 127.0 | 26.51 |
| | | 481.3 | 150.7 | 33.24 | 146.3 | 32.51 | 142.8 | 31.94 | 139.3 | 30.62 | 135.0 | 29.33 | 127.5 | 27.39 |
| | | 577.5 | 151.2 | 33.19 | 146.0 | 32.51 | 143.0 | 32.00 | 139.7 | 30.70 | 135.2 | 29.38 | 127.8 | 27.86 |
| | 15 | 154.0 | 147.0 | 29.10 | 144.0 | 28.25 | 139.8 | 27.81 | 136.5 | 27.39 | 132.2 | 26.29 | 125.0 | 23.82 |
| | | 192.5 | 147.8 | 29.16 | 144.8 | 28.30 | 140.7 | 27.86 | 137.3 | 27.27 | 133.0 | 26.09 | 125.7 | 23.72 |
| | | 385.0 | 151.2 | 29.40 | 148.5 | 28.54 | 143.8 | 28.05 | 140.3 | 26.88 | 135.5 | 25.31 | 128.3 | 23.31 |
| | | 481.3 | 152.0 | 28.96 | 148.3 | 28.30 | 145.0 | 28.05 | 141.5 | 26.88 | 136.8 | 25.31 | 129.5 | 24.90 |
| | | 577.5 | 152.5 | 28.74 | 148.2 | 28.18 | 145.5 | 28.05 | 142.0 | 26.88 | 137.3 | 25.31 | 130.0 | 25.70 |
| | 20 | 154.0 | 151.0 | 26.17 | 148.2 | 25.06 | 143.7 | 24.40 | 139.8 | 24.04 | 135.2 | 23.74 | 128.0 | 22.54 |
| | | 192.5 | 152.0 | 26.17 | 149.0 | 25.14 | 144.5 | 24.50 | 140.7 | 24.13 | 136.0 | 23.72 | 128.7 | 22.45 |
| | | 385.0 | 156.0 | 26.17 | 152.5 | 25.53 | 147.7 | 24.90 | 144.2 | 24.50 | 139.5 | 23.65 | 131.7 | 22.13 |
| | | 481.3 | 156.5 | 25.92 | 152.5 | 25.31 | 148.8 | 24.90 | 145.0 | 24.50 | 140.3 | 23.72 | 132.5 | 22.94 |
| | | 577.5 | 157.0 | 25.80 | 152.5 | 25.21 | 149.5 | 24.90 | 145.5 | 24.50 | 140.7 | 23.77 | 133.0 | 23.35 |
| | 25 | 154.0 | 158.5 | 24.75 | 153.8 | 23.60 | 148.8 | 23.16 | 145.7 | 22.64 | 141.8 | 22.23 | 134.0 | 20.68 |
| | | 192.5 | 158.5 | 24.65 | 153.8 | 23.55 | 148.8 | 23.11 | 145.7 | 22.54 | 141.8 | 22.13 | 134.0 | 20.56 |
| | | 385.0 | 158.8 | 24.28 | 153.8 | 23.40 | 148.8 | 22.94 | 145.7 | 22.13 | 141.8 | 21.76 | 134.0 | 20.17 |
| | | 481.3 | 159.3 | 23.40 | 153.8 | 22.79 | 148.8 | 22.54 | 145.7 | 22.13 | 141.8 | 21.35 | 134.0 | 20.17 |
| | | 577.5 | 159.5 | 22.94 | 153.8 | 22.47 | 148.8 | 22.33 | 145.7 | 22.13 | 141.8 | 21.15 | 134.0 | 20.17 |
| | 30 | 154.0 | 159.3 | 23.67 | 153.8 | 22.50 | 148.8 | 21.86 | 145.7 | 21.03 | 141.8 | 20.78 | 134.0 | 19.07 |
| | | 192.5 | 159.3 | 23.48 | 153.8 | 22.37 | 148.8 | 21.76 | 145.7 | 20.93 | 141.8 | 20.56 | 134.0 | 18.97 |
| | | 385.0 | 159.3 | 22.69 | 153.8 | 21.84 | 148.8 | 21.35 | 145.7 | 20.56 | 141.8 | 19.75 | 134.0 | 18.56 |
| | | 481.3 | 159.3 | 21.96 | 153.8 | 21.35 | 148.8 | 20.93 | 145.7 | 20.56 | 141.8 | 19.75 | 134.0 | 18.19 |
| | | 577.5 | 159.3 | 21.59 | 153.8 | 21.10 | 148.8 | 20.73 | 145.7 | 20.56 | 141.8 | 19.75 | 134.0 | 18.02 |
| | 35 | 154.0 | 159.3 | 22.62 | 153.8 | 21.37 | 148.8 | 20.78 | 145.7 | 19.95 | 141.8 | 19.17 | 134.0 | 17.48 |
| | | 192.5 | 159.3 | 22.30 | 153.8 | 21.18 | 148.8 | 20.56 | 145.7 | 19.75 | 141.8 | 18.97 | 134.0 | 17.38 |
| | | 385.0 | 159.3 | 21.03 | 153.8 | 20.41 | 148.8 | 19.75 | 145.7 | 18.97 | 141.8 | 18.19 | 134.0 | 17.01 |
| | | 481.3 | 159.3 | 20.78 | 153.8 | 20.24 | 148.8 | 19.75 | 145.7 | 18.97 | 141.8 | 18.19 | 134.0 | 16.60 |
| | | 577.5 | 159.3 | 20.66 | 153.8 | 20.17 | 148.8 | 19.75 | 145.7 | 18.97 | 141.8 | 18.19 | 134.0 | 16.40 |
| | 40 | 154.0 | 159.3 | 21.93 | 153.8 | 20.39 | 148.8 | 19.58 | 145.7 | 18.77 | 141.8 | 17.99 | 134.0 | 16.28 |
| | | 192.5 | 159.3 | 21.52 | 153.8 | 20.17 | 148.8 | 19.39 | 145.7 | 18.56 | 141.8 | 17.80 | 134.0 | 16.20 |
| | | 385.0 | 159.3 | 19.83 | 153.8 | 19.22 | 148.8 | 18.56 | 145.7 | 17.80 | 141.8 | 17.01 | 134.0 | 15.84 |
| | | 481.3 | 159.3 | 19.58 | 153.8 | 18.97 | 148.8 | 18.56 | 145.7 | 17.80 | 141.8 | 17.01 | 134.0 | 15.42 |
| | | 577.5 | 159.3 | 19.46 | 153.8 | 18.85 | 148.8 | 18.56 | 145.7 | 17.80 | 141.8 | 17.01 | 134.0 | 15.20 |
| | 45 | 154.0 | 159.3 | 21.27 | 153.8 | 19.41 | 148.8 | 18.41 | 145.7 | 17.58 | 141.8 | 16.79 | 134.0 | 15.10 |
| | | 192.5 | 159.3 | 20.73 | 153.8 | 19.14 | 148.8 | 18.19 | 145.7 | 17.38 | 141.8 | 16.60 | 134.0 | 15.01 |
| | | 385.0 | 159.3 | 18.65 | 153.8 | 18.04 | 148.8 | 17.38 | 145.7 | 16.60 | 141.8 | 15.84 | 134.0 | 14.64 |
| | | 481.3 | 159.3 | 18.41 | 153.8 | 17.70 | 148.8 | 17.38 | 145.7 | 16.60 | 141.8 | 15.84 | 134.0 | 14.22 |
| | | 577.5 | 159.3 | 18.28 | 153.8 | 17.55 | 148.8 | 17.38 | 145.7 | 16.60 | 141.8 | 15.84 | 134.0 | 14.03 |
| 110 | -5 | 154.0 | 53.5 | 25.16 | 53.3 | 23.38 | 53.0 | 21.76 | 52.3 | 20.86 | 52.5 | 20.25 | 51.3 | 18.12 |
| | | 192.5 | 55.5 | 25.60 | 55.0 | 23.84 | 54.7 | 22.25 | 54.2 | 21.30 | 54.3 | 20.69 | 53.0 | 18.53 |
| | | 385.0 | 62.7 | 27.32 | 62.3 | 25.65 | 62.0 | 24.13 | 61.3 | 23.11 | 61.3 | 22.45 | 60.2 | 20.12 |
| | | 481.3 | 69.3 | 29.08 | 68.8 | 27.39 | 68.5 | 26.02 | 67.7 | 24.94 | 67.7 | 24.21 | 66.3 | 21.67 |
| | | 577.5 | 72.5 | 29.96 | 72.0 | 28.30 | 71.7 | 26.95 | 71.0 | 25.87 | 71.0 | 25.09 | 69.5 | 22.45 |
| | 0 | 154.0 | 95.8 | 34.44 | 93.7 | 32.97 | 91.7 | 31.89 | 90.0 | 30.55 | 89.2 | 29.69 | 85.8 | 26.54 |
| | | 192.5 | 96.3 | 34.52 | 94.2 | 33.05 | 92.2 | 31.97 | 90.5 | 30.62 | 89.7 | 29.77 | 86.3 | 26.63 |
| | | 385.0 | 98.5 | 34.84 | 96.5 | 33.37 | 94.3 | 32.36 | 92.5 | 30.99 | 91.8 | 30.11 | 88.3 | 26.95 |
| | | 481.3 | 100.0 | 34.84 | 98.0 | 33.37 | 96.0 | 32.36 | 94.0 | 30.99 | 93.2 | 30.11 | 89.5 | 26.95 |
| | | 577.5 | 100.8 | 34.84 | 98.8 | 33.37 | 96.7 | 32.36 | 94.7 | 30.99 | 94.0 | 30.11 | 90.2 | 26.95 |
| | 5 | 154.0 | 139.7 | 37.01 | 136.5 | 35.62 | 133.2 | 34.71 | 130.2 | 33.24 | 125.2 | 32.31 | 119.0 | 28.93 |
| | | 192.5 | 140.2 | 37.18 | 136.7 | 35.79 | 133.3 | 34.88 | 130.2 | 33.41 | 125.2 | 32.48 | 119.0 | 29.08 |
| | | 385.0 | 142.0 | 37.82 | 137.7 | 36.45 | 133.5 | 35.59 | 130.2 | 34.10 | 125.2 | 33.12 | 119.0 | 29.65 |
| | | 481.3 | 143.0 | 38.07 | 138.0 | 36.69 | 133.5 | 35.83 | 130.2 | 34.35 | 125.2 | 33.37 | 119.0 | 29.86 |
| | | 577.5 | 143.3 | 38.19 | 138.2 | 36.81 | 133.5 | 35.96 | 130.2 | 34.47 | 125.2 | 33.49 | 119.0 | 29.96 |
| | 10 | 154.0 | 140.2 | 33.19 | 136.8 | 32.04 | 133.0 | 31.36 | 130.0 | 30.30 | 125.0 | 29.30 | 119.0 | 26.34 |
| | | 192.5 | 140.8 | 33.24 | 137.2 | 32.14 | 133.3 | 31.45 | 130.2 | 30.35 | 125.2 | 29.28 | 119.0 | 26.39 |
| | | 385.0 | 143.0 | 33.49 | 138.5 | 32.51 | 134.0 | 31.82 | 131.0 | 30.50 | 126.0 | 29.20 | 119.7 | 26.51 |
| | | 481.3 | 143.7 | 33.49 | 139.2 | 32.51 | 134.5 | 31.73 | 131.3 | 30.43 | 126.2 | 29.33 | 120.0 | 26.78 |
| | | 577.5 | 144.0 | 33.49 | 139.5 | 32.51 | 134.8 | 31.70 | 131.5 | 30.38 | 126.3 | 29.38 | 120.2 | 26.93 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 154.0 | 140.7 | 29.37 | 137.0 | 28.54 | 133.0 | 28.05 | 129.8 | 27.39 | 124.8 | 26.29 | 118.8 | 23.82 |
| | | 192.5 | 141.2 | 29.33 | 137.5 | 28.54 | 133.5 | 28.05 | 130.2 | 27.27 | 125.2 | 26.09 | 119.0 | 23.72 |
| | | 385.0 | 143.5 | 29.16 | 139.5 | 28.54 | 135.0 | 28.05 | 131.7 | 26.88 | 126.8 | 25.31 | 120.3 | 23.31 |
| | | 481.3 | 144.5 | 28.96 | 140.2 | 28.30 | 135.5 | 27.69 | 132.2 | 26.51 | 127.2 | 25.31 | 121.0 | 23.72 |
| | | 577.5 | 144.8 | 28.86 | 140.5 | 28.18 | 136.0 | 27.49 | 132.5 | 26.31 | 127.3 | 25.31 | 121.3 | 23.92 |
| | 20 | 154.0 | 143.3 | 25.34 | 139.3 | 24.75 | 134.8 | 24.13 | 131.2 | 23.72 | 126.5 | 23.04 | 119.8 | 21.54 |
| | | 192.5 | 144.0 | 25.39 | 139.8 | 24.75 | 135.3 | 24.13 | 131.7 | 23.72 | 126.8 | 22.94 | 120.3 | 21.52 |
| | | 385.0 | 147.0 | 25.60 | 141.7 | 24.75 | 136.8 | 24.13 | 133.7 | 23.72 | 128.3 | 22.54 | 122.2 | 21.35 |
| | | 481.3 | 148.0 | 25.60 | 143.0 | 24.75 | 137.5 | 24.13 | 134.0 | 23.31 | 129.0 | 22.54 | 122.5 | 21.35 |
| | | 577.5 | 148.3 | 25.60 | 143.5 | 24.75 | 138.0 | 24.13 | 134.3 | 23.11 | 129.5 | 22.54 | 122.7 | 21.35 |
| | 25 | 154.0 | 147.7 | 23.06 | 143.3 | 22.23 | 137.5 | 21.86 | 134.5 | 21.03 | 129.8 | 20.27 | 123.0 | 18.56 |
| | | 192.5 | 148.0 | 23.03 | 143.3 | 22.13 | 137.5 | 21.76 | 134.5 | 20.93 | 129.8 | 20.17 | 123.0 | 18.56 |
| | | 385.0 | 149.2 | 22.86 | 143.3 | 21.76 | 137.5 | 21.35 | 134.5 | 20.56 | 129.8 | 19.75 | 123.0 | 18.56 |
| | | 481.3 | 150.0 | 22.86 | 143.3 | 21.84 | 137.5 | 20.93 | 134.5 | 20.56 | 129.8 | 19.39 | 123.0 | 18.19 |
| | | 577.5 | 150.3 | 22.86 | 143.3 | 21.88 | 137.5 | 20.73 | 134.5 | 20.56 | 129.8 | 19.19 | 123.0 | 18.02 |
| | 30 | 154.0 | 150.0 | 21.03 | 143.3 | 20.27 | 137.5 | 19.49 | 134.5 | 19.07 | 129.8 | 17.89 | 123.0 | 16.72 |
| | | 192.5 | 150.0 | 20.93 | 143.3 | 20.17 | 137.5 | 19.39 | 134.5 | 18.97 | 129.8 | 17.80 | 123.0 | 16.60 |
| | | 385.0 | 150.0 | 20.56 | 143.3 | 19.75 | 137.5 | 18.97 | 134.5 | 18.56 | 129.8 | 17.38 | 123.0 | 16.20 |
| | | 481.3 | 150.0 | 20.41 | 143.3 | 19.39 | 137.5 | 18.56 | 134.5 | 18.19 | 129.8 | 17.38 | 123.0 | 16.20 |
| | | 577.5 | 150.0 | 20.32 | 143.3 | 19.19 | 137.5 | 18.36 | 134.5 | 18.02 | 129.8 | 17.38 | 123.0 | 16.20 |
| | 35 | 154.0 | 150.0 | 19.95 | 143.3 | 18.65 | 137.5 | 17.89 | 134.5 | 17.11 | 129.8 | 16.28 | 123.0 | 15.10 |
| | | 192.5 | 150.0 | 19.75 | 143.3 | 18.56 | 137.5 | 17.80 | 134.5 | 17.01 | 129.8 | 16.20 | 123.0 | 15.01 |
| | | 385.0 | 150.0 | 18.97 | 143.3 | 18.19 | 137.5 | 17.38 | 134.5 | 16.60 | 129.8 | 15.84 | 123.0 | 14.64 |
| | | 481.3 | 150.0 | 18.48 | 143.3 | 17.80 | 137.5 | 17.01 | 134.5 | 16.60 | 129.8 | 15.84 | 123.0 | 14.64 |
| | | 577.5 | 150.0 | 18.24 | 143.3 | 17.58 | 137.5 | 16.82 | 134.5 | 16.60 | 129.8 | 15.84 | 123.0 | 14.64 |
| | 40 | 154.0 | 150.0 | 18.77 | 143.3 | 17.99 | 137.5 | 16.79 | 134.5 | 15.93 | 129.8 | 15.10 | 123.0 | 13.91 |
| | | 192.5 | 150.0 | 18.56 | 143.3 | 17.80 | 137.5 | 16.60 | 134.5 | 15.84 | 129.8 | 15.01 | 123.0 | 13.83 |
| | | 385.0 | 150.0 | 17.80 | 143.3 | 17.01 | 137.5 | 15.84 | 134.5 | 15.42 | 129.8 | 14.64 | 123.0 | 13.46 |
| | | 481.3 | 150.0 | 17.55 | 143.3 | 16.60 | 137.5 | 15.84 | 134.5 | 15.01 | 129.8 | 14.22 | 123.0 | 13.05 |
| | | 577.5 | 150.0 | 17.43 | 143.3 | 16.40 | 137.5 | 15.84 | 134.5 | 14.81 | 129.8 | 14.03 | 123.0 | 12.85 |
| | 45 | 154.0 | 150.0 | 17.58 | 143.3 | 17.31 | 137.5 | 15.72 | 134.5 | 14.74 | 129.8 | 13.91 | 123.0 | 12.73 |
| | | 192.5 | 150.0 | 17.38 | 143.3 | 17.01 | 137.5 | 15.42 | 134.5 | 14.64 | 129.8 | 13.83 | 123.0 | 12.63 |
| | | 385.0 | 150.0 | 16.60 | 143.3 | 15.84 | 137.5 | 14.22 | 134.5 | 14.22 | 129.8 | 13.46 | 123.0 | 12.26 |
| | | 481.3 | 150.0 | 16.60 | 143.3 | 15.42 | 137.5 | 14.64 | 134.5 | 13.46 | 129.8 | 12.63 | 123.0 | 11.46 |
| | | 577.5 | 150.0 | 16.60 | 143.3 | 15.20 | 137.5 | 14.86 | 134.5 | 13.07 | 129.8 | 12.22 | 123.0 | 11.04 |
| 100 | -5 | 154.0 | 50.7 | 25.16 | 50.3 | 23.72 | 50.0 | 21.76 | 49.7 | 20.86 | 49.2 | 19.93 | 48.2 | 18.12 |
| | | 192.5 | 52.5 | 25.60 | 52.0 | 24.16 | 51.8 | 22.25 | 51.3 | 21.30 | 50.8 | 20.37 | 50.0 | 18.53 |
| | | 385.0 | 59.3 | 27.32 | 59.0 | 25.97 | 58.5 | 24.13 | 58.0 | 23.11 | 57.5 | 22.13 | 56.5 | 20.12 |
| | | 481.3 | 65.5 | 29.08 | 65.0 | 27.76 | 64.7 | 26.02 | 64.0 | 24.94 | 63.7 | 23.84 | 62.5 | 21.67 |
| | | 577.5 | 68.7 | 29.96 | 68.0 | 28.67 | 67.8 | 26.95 | 67.2 | 25.87 | 66.7 | 24.70 | 65.5 | 22.45 |
| | 0 | 154.0 | 90.5 | 34.44 | 88.5 | 33.41 | 86.7 | 31.89 | 85.2 | 30.55 | 83.7 | 29.25 | 80.8 | 26.54 |
| | | 192.5 | 91.0 | 34.52 | 89.0 | 33.49 | 87.2 | 31.97 | 85.7 | 30.62 | 84.2 | 29.33 | 81.2 | 26.63 |
| | | 385.0 | 93.2 | 34.84 | 91.2 | 33.83 | 89.2 | 32.36 | 87.7 | 30.99 | 86.2 | 29.65 | 83.0 | 26.95 |
| | | 481.3 | 94.5 | 34.84 | 92.5 | 33.83 | 90.5 | 32.36 | 89.0 | 30.99 | 87.5 | 29.65 | 84.5 | 26.95 |
| | | 577.5 | 95.3 | 34.84 | 93.3 | 33.83 | 91.3 | 32.36 | 89.5 | 30.99 | 88.0 | 29.65 | 85.0 | 26.95 |
| | 5 | 154.0 | 133.5 | 37.01 | 129.2 | 36.11 | 125.8 | 34.71 | 123.3 | 33.24 | 117.5 | 31.82 | 112.0 | 28.93 |
| | | 192.5 | 134.0 | 37.18 | 129.5 | 36.28 | 126.0 | 34.88 | 123.3 | 33.41 | 117.5 | 31.97 | 112.0 | 29.08 |
| | | 385.0 | 136.0 | 37.82 | 130.3 | 36.94 | 126.0 | 35.59 | 123.3 | 34.10 | 117.5 | 32.63 | 112.0 | 29.65 |
| | | 481.3 | 136.8 | 38.07 | 130.7 | 37.18 | 126.0 | 35.83 | 123.3 | 34.35 | 117.5 | 32.85 | 112.0 | 29.86 |
| | | 577.5 | 137.2 | 38.19 | 130.8 | 37.30 | 126.0 | 35.96 | 123.3 | 34.47 | 117.5 | 32.95 | 112.0 | 29.96 |
| | 10 | 154.0 | 134.3 | 33.10 | 129.5 | 32.36 | 126.0 | 31.36 | 123.3 | 30.30 | 117.5 | 28.81 | 112.0 | 26.34 |
| | | 192.5 | 134.7 | 33.24 | 129.8 | 32.48 | 126.0 | 31.45 | 123.3 | 30.35 | 117.5 | 28.84 | 112.0 | 26.39 |
| | | 385.0 | 136.0 | 33.86 | 130.5 | 32.88 | 126.0 | 31.82 | 123.3 | 30.50 | 117.5 | 28.96 | 112.0 | 26.51 |
| | | 481.3 | 137.0 | 33.73 | 131.0 | 32.88 | 126.0 | 31.73 | 123.3 | 30.43 | 117.5 | 28.88 | 112.0 | 26.39 |
| | | 577.5 | 137.3 | 33.68 | 131.3 | 32.88 | 126.0 | 31.70 | 123.3 | 30.38 | 117.5 | 28.84 | 112.0 | 26.32 |
| | 15 | 154.0 | 135.0 | 29.18 | 130.2 | 28.69 | 126.0 | 28.05 | 123.3 | 27.39 | 117.5 | 25.78 | 112.0 | 23.82 |
| | | 192.5 | 135.3 | 29.33 | 130.2 | 28.71 | 126.0 | 28.05 | 123.3 | 27.27 | 117.5 | 25.68 | 112.0 | 23.72 |
| | | 385.0 | 136.0 | 29.89 | 130.5 | 28.79 | 126.0 | 28.05 | 123.3 | 26.88 | 117.5 | 25.31 | 112.0 | 23.31 |
| | | 481.3 | 137.2 | 29.40 | 131.3 | 28.54 | 126.0 | 27.69 | 123.3 | 26.51 | 117.5 | 24.90 | 112.0 | 22.94 |
| | | 577.5 | 137.7 | 29.15 | 131.7 | 28.42 | 126.0 | 27.49 | 123.3 | 26.31 | 117.5 | 24.70 | 112.0 | 22.76 |
| | 20 | 154.0 | 135.8 | 24.95 | 130.8 | 24.31 | 126.0 | 23.72 | 123.3 | 23.40 | 117.5 | 21.86 | 112.0 | 20.78 |
| | | 192.5 | 136.3 | 25.07 | 131.0 | 24.33 | 126.0 | 23.72 | 123.3 | 23.31 | 117.5 | 21.76 | 112.0 | 20.56 |
| | | 385.0 | 138.3 | 25.53 | 131.3 | 24.41 | 126.0 | 23.72 | 123.3 | 22.94 | 117.5 | 21.35 | 112.0 | 19.75 |
| | | 481.3 | 139.2 | 25.07 | 132.5 | 24.21 | 126.0 | 23.31 | 123.3 | 22.54 | 117.5 | 20.93 | 112.0 | 19.39 |
| | | 577.5 | 139.5 | 24.85 | 133.0 | 24.11 | 126.0 | 23.11 | 123.3 | 22.33 | 117.5 | 20.73 | 112.0 | 19.19 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 154.0 | 137.5 | 21.81 | 133.0 | 21.13 | 126.0 | 20.27 | 123.3 | 19.49 | 117.5 | 18.31 | 112.0 | 16.60 |
| | | 192.5 | 138.0 | 21.84 | 133.0 | 21.03 | 126.0 | 20.17 | 123.3 | 19.39 | 117.5 | 18.19 | 112.0 | 16.60 |
| | | 385.0 | 140.0 | 21.91 | 133.0 | 20.56 | 126.0 | 19.75 | 123.3 | 18.97 | 117.5 | 17.80 | 112.0 | 16.60 |
| | | 481.3 | 140.7 | 21.42 | 133.0 | 20.41 | 126.0 | 19.39 | 123.3 | 18.56 | 117.5 | 17.80 | 112.0 | 16.20 |
| | | 577.5 | 141.0 | 21.18 | 133.0 | 20.32 | 126.0 | 19.19 | 123.3 | 18.36 | 117.5 | 17.80 | 112.0 | 15.99 |
| | 30 | 154.0 | 140.7 | 19.85 | 133.0 | 18.31 | 126.0 | 17.06 | 123.3 | 16.72 | 117.5 | 15.42 | 112.0 | 14.74 |
| | | 192.5 | 140.7 | 19.75 | 133.0 | 18.19 | 126.0 | 17.01 | 123.3 | 16.60 | 117.5 | 15.42 | 112.0 | 14.64 |
| | | 385.0 | 140.7 | 19.39 | 133.0 | 17.80 | 126.0 | 16.84 | 123.3 | 16.20 | 117.5 | 15.42 | 112.0 | 14.22 |
| | | 481.3 | 140.7 | 18.97 | 133.0 | 17.80 | 126.0 | 16.60 | 123.3 | 16.20 | 117.5 | 15.01 | 112.0 | 14.22 |
| | | 577.5 | 140.7 | 18.77 | 133.0 | 17.80 | 126.0 | 16.48 | 123.3 | 16.20 | 117.5 | 14.81 | 112.0 | 14.22 |
| | 35 | 154.0 | 140.7 | 18.41 | 133.0 | 16.79 | 126.0 | 15.05 | 123.3 | 14.74 | 117.5 | 13.91 | 112.0 | 12.73 |
| | | 192.5 | 140.7 | 18.19 | 133.0 | 16.60 | 126.0 | 15.01 | 123.3 | 14.64 | 117.5 | 13.83 | 112.0 | 12.63 |
| | | 385.0 | 140.7 | 17.38 | 133.0 | 15.84 | 126.0 | 14.84 | 123.3 | 14.22 | 117.5 | 13.46 | 112.0 | 12.26 |
| | | 481.3 | 140.7 | 17.38 | 133.0 | 15.84 | 126.0 | 14.64 | 123.3 | 14.22 | 117.5 | 13.46 | 112.0 | 12.26 |
| | | 577.5 | 140.7 | 17.38 | 133.0 | 15.84 | 126.0 | 14.54 | 123.3 | 14.22 | 117.5 | 13.46 | 112.0 | 12.26 |
| | 40 | 154.0 | 140.7 | 17.21 | 133.0 | 15.62 | 126.0 | 13.49 | 123.3 | 13.15 | 117.5 | 12.36 | 112.0 | 11.55 |
| | | 192.5 | 140.7 | 17.01 | 133.0 | 15.42 | 126.0 | 13.46 | 123.3 | 13.05 | 117.5 | 12.26 | 112.0 | 11.46 |
| | | 385.0 | 140.7 | 16.20 | 133.0 | 14.64 | 126.0 | 13.29 | 123.3 | 12.63 | 117.5 | 11.87 | 112.0 | 11.09 |
| | | 481.3 | 140.7 | 15.84 | 133.0 | 14.64 | 126.0 | 13.05 | 123.3 | 12.63 | 117.5 | 11.87 | 112.0 | 11.09 |
| | | 577.5 | 140.7 | 15.64 | 133.0 | 14.64 | 126.0 | 12.92 | 123.3 | 12.63 | 117.5 | 11.87 | 112.0 | 11.09 |
| | 45 | 154.0 | 140.7 | 16.03 | 133.0 | 14.42 | 126.0 | 11.90 | 123.3 | 11.55 | 117.5 | 10.77 | 112.0 | 10.36 |
| | | 192.5 | 140.7 | 15.84 | 133.0 | 14.22 | 126.0 | 11.87 | 123.3 | 11.46 | 117.5 | 10.67 | 112.0 | 10.26 |
| | | 385.0 | 140.7 | 15.01 | 133.0 | 13.46 | 126.0 | 11.70 | 123.3 | 11.09 | 117.5 | 10.26 | 112.0 | 9.89 |
| | | 481.3 | 140.7 | 14.22 | 133.0 | 13.46 | 126.0 | 11.46 | 123.3 | 11.09 | 117.5 | 10.26 | 112.0 | 9.89 |
| | | 577.5 | 140.7 | 13.83 | 133.0 | 13.46 | 126.0 | 11.33 | 123.3 | 11.09 | 117.5 | 10.26 | 112.0 | 9.89 |
| 90 | -5 | 154.0 | 47.8 | 23.35 | 46.3 | 21.27 | 45.0 | 18.68 | 44.7 | 17.80 | 44.3 | 17.16 | 43.5 | 15.40 |
| | | 192.5 | 49.5 | 23.77 | 48.0 | 21.67 | 46.5 | 19.09 | 46.2 | 18.19 | 45.8 | 17.55 | 45.0 | 15.74 |
| | | 385.0 | 56.0 | 25.36 | 54.3 | 23.28 | 52.7 | 20.73 | 52.3 | 19.75 | 52.0 | 19.07 | 50.8 | 17.09 |
| | | 481.3 | 62.0 | 26.95 | 60.0 | 24.90 | 58.2 | 22.37 | 57.7 | 21.30 | 57.3 | 20.54 | 56.3 | 18.43 |
| | | 577.5 | 64.8 | 27.76 | 62.7 | 25.73 | 61.0 | 23.20 | 60.5 | 22.08 | 60.0 | 21.27 | 59.0 | 19.12 |
| | 0 | 154.0 | 85.5 | 31.82 | 81.5 | 29.86 | 77.8 | 27.42 | 76.7 | 26.14 | 75.5 | 25.16 | 72.5 | 22.59 |
| | | 192.5 | 86.0 | 31.90 | 82.0 | 29.94 | 78.3 | 27.49 | 77.0 | 26.22 | 75.8 | 25.24 | 73.0 | 22.67 |
| | | 385.0 | 88.0 | 32.24 | 84.0 | 30.26 | 80.2 | 27.76 | 79.0 | 26.51 | 77.5 | 25.53 | 74.8 | 22.91 |
| | | 481.3 | 89.3 | 32.24 | 85.2 | 30.26 | 81.5 | 27.76 | 80.0 | 26.51 | 79.0 | 25.53 | 76.0 | 22.91 |
| | | 577.5 | 90.0 | 32.24 | 85.8 | 30.26 | 82.0 | 27.76 | 80.7 | 26.51 | 79.5 | 25.53 | 76.5 | 22.91 |
| | 5 | 154.0 | 120.8 | 34.15 | 117.0 | 32.24 | 113.2 | 29.84 | 111.0 | 28.44 | 106.0 | 27.37 | 101.0 | 24.58 |
| | | 192.5 | 121.0 | 34.32 | 116.8 | 32.39 | 113.2 | 29.98 | 111.0 | 28.59 | 106.0 | 27.52 | 101.0 | 24.70 |
| | | 385.0 | 121.5 | 34.93 | 116.5 | 33.00 | 113.2 | 30.55 | 111.0 | 29.16 | 106.0 | 28.10 | 101.0 | 25.19 |
| | | 481.3 | 122.2 | 35.13 | 116.8 | 33.22 | 113.2 | 30.79 | 111.0 | 29.37 | 106.0 | 28.30 | 101.0 | 25.39 |
| | | 577.5 | 122.5 | 35.23 | 117.0 | 33.31 | 113.2 | 30.92 | 111.0 | 29.47 | 106.0 | 28.40 | 101.0 | 25.51 |
| | 10 | 154.0 | 121.5 | 30.16 | 117.3 | 28.69 | 113.2 | 27.00 | 111.0 | 25.90 | 106.0 | 24.85 | 101.0 | 22.40 |
| | | 192.5 | 121.5 | 30.18 | 117.2 | 28.71 | 113.2 | 27.03 | 111.0 | 25.92 | 106.0 | 24.82 | 101.0 | 22.42 |
| | | 385.0 | 121.2 | 30.26 | 116.5 | 28.84 | 113.2 | 27.15 | 111.0 | 26.05 | 106.0 | 24.75 | 101.0 | 22.50 |
| | | 481.3 | 122.0 | 30.18 | 117.0 | 28.74 | 113.2 | 27.07 | 111.0 | 25.97 | 106.0 | 24.82 | 101.0 | 22.57 |
| | | 577.5 | 122.5 | 30.13 | 117.2 | 28.71 | 113.2 | 27.03 | 111.0 | 25.92 | 106.0 | 24.87 | 101.0 | 22.62 |
| | 15 | 154.0 | 122.0 | 26.12 | 117.8 | 25.17 | 113.2 | 24.23 | 111.0 | 23.40 | 106.0 | 22.32 | 101.0 | 20.27 |
| | | 192.5 | 122.0 | 26.02 | 117.5 | 25.07 | 113.2 | 24.13 | 111.0 | 23.31 | 106.0 | 22.13 | 101.0 | 20.17 |
| | | 385.0 | 121.0 | 25.60 | 116.7 | 24.65 | 113.2 | 23.72 | 111.0 | 22.94 | 106.0 | 21.35 | 101.0 | 19.75 |
| | | 481.3 | 122.0 | 25.24 | 117.0 | 24.28 | 113.2 | 23.31 | 111.0 | 22.54 | 106.0 | 21.35 | 101.0 | 19.75 |
| | | 577.5 | 122.3 | 25.04 | 117.3 | 24.11 | 113.2 | 23.11 | 111.0 | 22.33 | 106.0 | 21.35 | 101.0 | 19.75 |
| | 20 | 154.0 | 122.8 | 22.05 | 118.3 | 21.42 | 113.2 | 20.68 | 111.0 | 19.85 | 106.0 | 19.17 | 101.0 | 17.99 |
| | | 192.5 | 122.7 | 22.05 | 118.0 | 21.35 | 113.2 | 20.56 | 111.0 | 19.75 | 106.0 | 18.97 | 101.0 | 17.80 |
| | | 385.0 | 122.2 | 22.05 | 117.0 | 21.10 | 113.2 | 20.17 | 111.0 | 19.39 | 106.0 | 18.19 | 101.0 | 17.01 |
| | | 481.3 | 122.5 | 21.67 | 117.5 | 20.93 | 113.2 | 20.17 | 111.0 | 19.39 | 106.0 | 18.19 | 101.0 | 17.01 |
| | | 577.5 | 122.8 | 21.49 | 117.5 | 20.86 | 113.2 | 20.17 | 111.0 | 19.39 | 106.0 | 18.19 | 101.0 | 17.01 |
| | 25 | 154.0 | 125.0 | 19.26 | 119.8 | 18.24 | 113.2 | 17.48 | 111.0 | 16.60 | 106.0 | 15.93 | 101.0 | 14.74 |
| | | 192.5 | 125.2 | 19.22 | 119.8 | 18.19 | 113.2 | 17.38 | 111.0 | 16.60 | 106.0 | 15.84 | 101.0 | 14.64 |
| | | 385.0 | 126.3 | 19.07 | 119.8 | 18.04 | 113.2 | 17.01 | 111.0 | 16.60 | 106.0 | 15.42 | 101.0 | 14.22 |
| | | 481.3 | 126.8 | 18.56 | 119.8 | 17.63 | 113.2 | 17.01 | 111.0 | 16.20 | 106.0 | 15.42 | 101.0 | 14.22 |
| | | 577.5 | 127.0 | 18.31 | 119.8 | 17.43 | 113.2 | 17.01 | 111.0 | 15.99 | 106.0 | 15.42 | 101.0 | 14.22 |
| | 30 | 154.0 | 126.8 | 17.48 | 119.8 | 16.28 | 113.2 | 15.10 | 111.0 | 14.74 | 106.0 | 13.91 | 101.0 | 12.63 |
| | | 192.5 | 126.8 | 17.38 | 119.8 | 16.20 | 113.2 | 15.01 | 111.0 | 14.64 | 106.0 | 13.83 | 101.0 | 12.63 |
| | | 385.0 | 126.8 | 17.01 | 119.8 | 15.84 | 113.2 | 14.64 | 111.0 | 14.22 | 106.0 | 13.46 | 101.0 | 12.63 |
| | | 481.3 | 126.8 | 16.60 | 119.8 | 15.42 | 113.2 | 14.64 | 111.0 | 14.22 | 106.0 | 13.46 | 101.0 | 12.26 |
| | | 577.5 | 126.8 | 16.40 | 119.8 | 15.20 | 113.2 | 14.64 | 111.0 | 14.22 | 106.0 | 13.46 | 101.0 | 12.09 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 154.0 | 126.8 | 15.93 | 119.8 | 14.74 | 113.2 | 13.56 | 111.0 | 13.15 | 106.0 | 12.36 | 101.0 | 11.55 |
| | | 192.5 | 126.8 | 15.84 | 119.8 | 14.64 | 113.2 | 13.46 | 111.0 | 13.05 | 106.0 | 12.26 | 101.0 | 11.46 |
| | | 385.0 | 126.8 | 15.42 | 119.8 | 14.22 | 113.2 | 13.05 | 111.0 | 12.63 | 106.0 | 11.87 | 101.0 | 11.09 |
| | | 481.3 | 126.8 | 15.01 | 119.8 | 13.83 | 113.2 | 12.63 | 111.0 | 12.26 | 106.0 | 11.87 | 101.0 | 11.09 |
| | | 577.5 | 126.8 | 14.81 | 119.8 | 13.61 | 113.2 | 12.43 | 111.0 | 12.09 | 106.0 | 11.87 | 101.0 | 11.09 |
| | 40 | 154.0 | 126.8 | 14.86 | 119.8 | 13.56 | 113.2 | 11.97 | 111.0 | 11.55 | 106.0 | 11.19 | 101.0 | 10.36 |
| | | 192.5 | 126.8 | 14.64 | 119.8 | 13.46 | 113.2 | 11.87 | 111.0 | 11.46 | 106.0 | 11.09 | 101.0 | 10.26 |
| | | 385.0 | 126.8 | 13.83 | 119.8 | 13.05 | 113.2 | 11.46 | 111.0 | 11.09 | 106.0 | 10.67 | 101.0 | 9.89 |
| | | 481.3 | 126.8 | 13.83 | 119.8 | 13.05 | 113.2 | 11.46 | 111.0 | 11.09 | 106.0 | 10.67 | 101.0 | 9.89 |
| | | 577.5 | 126.8 | 13.83 | 119.8 | 13.05 | 113.2 | 11.46 | 111.0 | 11.09 | 106.0 | 10.67 | 101.0 | 9.89 |
| | 45 | 154.0 | 126.8 | 13.76 | 119.8 | 12.36 | 113.2 | 10.36 | 111.0 | 10.01 | 106.0 | 10.01 | 101.0 | 9.18 |
| | | 192.5 | 126.8 | 13.46 | 119.8 | 12.26 | 113.2 | 10.26 | 111.0 | 9.89 | 106.0 | 9.89 | 101.0 | 9.08 |
| | | 385.0 | 126.8 | 12.26 | 119.8 | 11.87 | 113.2 | 9.89 | 111.0 | 9.50 | 106.0 | 9.50 | 101.0 | 8.71 |
| | | 481.3 | 126.8 | 12.63 | 119.8 | 12.26 | 113.2 | 10.26 | 111.0 | 9.89 | 106.0 | 9.50 | 101.0 | 8.71 |
| | | 577.5 | 126.8 | 12.83 | 119.8 | 12.48 | 113.2 | 10.45 | 111.0 | 10.11 | 106.0 | 9.50 | 101.0 | 8.71 |
| 80 | -5 | 154.0 | 45.2 | 16.64 | 42.5 | 16.01 | 40.2 | 15.33 | 39.7 | 14.81 | 39.5 | 14.12 | 38.7 | 13.02 |
| | | 192.5 | 46.8 | 17.01 | 43.8 | 16.35 | 41.5 | 15.67 | 41.0 | 15.13 | 40.8 | 14.44 | 40.0 | 13.29 |
| | | 385.0 | 52.8 | 18.48 | 49.5 | 17.75 | 47.0 | 16.97 | 46.5 | 16.40 | 46.2 | 15.67 | 45.2 | 14.39 |
| | | 481.3 | 58.5 | 19.92 | 54.7 | 19.14 | 51.8 | 18.31 | 51.2 | 17.70 | 51.0 | 16.89 | 50.0 | 15.54 |
| | | 577.5 | 61.3 | 20.64 | 57.3 | 19.85 | 54.3 | 19.00 | 53.7 | 18.36 | 53.5 | 17.50 | 52.3 | 16.11 |
| | 0 | 154.0 | 80.7 | 24.43 | 74.5 | 23.45 | 69.3 | 22.47 | 68.0 | 21.69 | 67.0 | 20.68 | 64.5 | 19.04 |
| | | 192.5 | 81.2 | 24.50 | 75.0 | 23.52 | 69.7 | 22.54 | 68.5 | 21.76 | 67.5 | 20.73 | 65.0 | 19.09 |
| | | 385.0 | 83.2 | 24.77 | 76.7 | 23.79 | 71.5 | 22.79 | 70.0 | 22.01 | 69.2 | 20.98 | 66.5 | 19.31 |
| | | 481.3 | 84.5 | 24.77 | 77.8 | 23.79 | 72.5 | 22.79 | 71.2 | 22.01 | 70.2 | 20.98 | 67.5 | 19.31 |
| | | 577.5 | 85.0 | 24.77 | 78.5 | 23.79 | 73.2 | 22.79 | 71.7 | 22.01 | 70.7 | 20.98 | 68.0 | 19.31 |
| | 5 | 154.0 | 111.7 | 26.56 | 105.5 | 25.56 | 100.8 | 24.41 | 98.5 | 23.60 | 94.3 | 22.50 | 89.7 | 20.71 |
| | | 192.5 | 112.0 | 26.71 | 105.5 | 25.68 | 100.8 | 24.53 | 98.5 | 23.72 | 94.3 | 22.62 | 89.7 | 20.81 |
| | | 385.0 | 112.8 | 27.27 | 106.5 | 26.17 | 101.0 | 25.07 | 98.5 | 24.21 | 94.3 | 23.06 | 89.7 | 21.27 |
| | | 481.3 | 112.8 | 27.44 | 106.3 | 26.39 | 101.0 | 25.24 | 98.5 | 24.38 | 94.3 | 23.23 | 89.7 | 21.39 |
| | | 577.5 | 112.8 | 27.52 | 106.2 | 26.49 | 101.0 | 25.31 | 98.5 | 24.45 | 94.3 | 23.31 | 89.7 | 21.44 |
| | 10 | 154.0 | 112.3 | 24.45 | 105.8 | 23.35 | 100.8 | 22.15 | 98.5 | 21.54 | 94.3 | 20.39 | 89.7 | 18.88 |
| | | 192.5 | 112.5 | 24.41 | 106.0 | 23.31 | 100.8 | 22.18 | 98.5 | 21.54 | 94.3 | 20.41 | 89.7 | 18.90 |
| | | 385.0 | 112.8 | 24.28 | 106.5 | 23.18 | 101.0 | 22.20 | 98.5 | 21.59 | 94.3 | 20.44 | 89.7 | 18.94 |
| | | 481.3 | 112.8 | 24.21 | 106.3 | 23.28 | 101.0 | 22.30 | 98.5 | 21.47 | 94.3 | 20.32 | 89.7 | 18.82 |
| | | 577.5 | 112.8 | 24.16 | 106.2 | 23.31 | 101.0 | 22.33 | 98.5 | 21.42 | 94.3 | 20.27 | 89.7 | 18.75 |
| | 15 | 154.0 | 112.8 | 22.32 | 106.3 | 21.13 | 101.0 | 19.85 | 98.5 | 19.49 | 94.3 | 18.31 | 89.7 | 17.11 |
| | | 192.5 | 112.8 | 22.13 | 106.3 | 20.93 | 101.0 | 19.75 | 98.5 | 19.39 | 94.3 | 18.19 | 89.7 | 17.01 |
| | | 385.0 | 112.8 | 21.35 | 106.3 | 20.17 | 101.0 | 19.39 | 98.5 | 18.97 | 94.3 | 17.80 | 89.7 | 16.60 |
| | | 481.3 | 112.8 | 20.93 | 106.3 | 20.17 | 101.0 | 19.39 | 98.5 | 18.56 | 94.3 | 17.38 | 89.7 | 16.20 |
| | | 577.5 | 112.8 | 20.73 | 106.3 | 20.17 | 101.0 | 19.39 | 98.5 | 18.36 | 94.3 | 17.18 | 89.7 | 15.99 |
| | 20 | 154.0 | 112.8 | 18.65 | 106.3 | 17.89 | 101.0 | 17.01 | 98.5 | 16.72 | 94.3 | 15.93 | 89.7 | 14.74 |
| | | 192.5 | 112.8 | 18.56 | 106.3 | 17.80 | 101.0 | 17.01 | 98.5 | 16.60 | 94.3 | 15.84 | 89.7 | 14.64 |
| | | 385.0 | 112.8 | 18.19 | 106.3 | 17.38 | 101.0 | 17.01 | 98.5 | 16.20 | 94.3 | 15.42 | 89.7 | 14.22 |
| | | 481.3 | 112.8 | 17.80 | 106.3 | 17.01 | 101.0 | 16.60 | 98.5 | 16.20 | 94.3 | 15.01 | 89.7 | 14.22 |
| | | 577.5 | 112.8 | 17.58 | 106.3 | 16.82 | 101.0 | 16.40 | 98.5 | 16.20 | 94.3 | 14.81 | 89.7 | 14.22 |
| | 25 | 154.0 | 112.8 | 16.72 | 106.3 | 15.52 | 101.0 | 14.64 | 98.5 | 14.34 | 94.3 | 13.56 | 89.7 | 12.73 |
| | | 192.5 | 112.8 | 16.60 | 106.3 | 15.42 | 101.0 | 14.64 | 98.5 | 14.22 | 94.3 | 13.46 | 89.7 | 12.63 |
| | | 385.0 | 112.8 | 16.20 | 106.3 | 15.01 | 101.0 | 14.64 | 98.5 | 13.83 | 94.3 | 13.05 | 89.7 | 12.26 |
| | | 481.3 | 112.8 | 15.84 | 106.3 | 15.01 | 101.0 | 14.22 | 98.5 | 13.83 | 94.3 | 13.05 | 89.7 | 12.26 |
| | | 577.5 | 112.8 | 15.64 | 106.3 | 15.01 | 101.0 | 14.03 | 98.5 | 13.83 | 94.3 | 13.05 | 89.7 | 12.26 |
| | 30 | 154.0 | 112.8 | 14.74 | 106.3 | 13.91 | 101.0 | 13.15 | 98.5 | 12.73 | 94.3 | 11.97 | 89.7 | 11.19 |
| | | 192.5 | 112.8 | 14.64 | 106.3 | 13.83 | 101.0 | 13.05 | 98.5 | 12.63 | 94.3 | 11.87 | 89.7 | 11.09 |
| | | 385.0 | 112.8 | 14.22 | 106.3 | 13.46 | 101.0 | 12.63 | 98.5 | 12.26 | 94.3 | 11.46 | 89.7 | 10.67 |
| | | 481.3 | 112.8 | 14.22 | 106.3 | 13.46 | 101.0 | 12.63 | 98.5 | 12.26 | 94.3 | 11.46 | 89.7 | 10.67 |
| | | 577.5 | 112.8 | 14.22 | 106.3 | 13.46 | 101.0 | 12.63 | 98.5 | 12.26 | 94.3 | 11.46 | 89.7 | 10.67 |
| | 35 | 154.0 | 112.8 | 13.56 | 106.3 | 12.73 | 101.0 | 11.55 | 98.5 | 11.09 | 94.3 | 10.77 | 89.7 | 9.89 |
| | | 192.5 | 112.8 | 13.46 | 106.3 | 12.63 | 101.0 | 11.46 | 98.5 | 11.09 | 94.3 | 10.67 | 89.7 | 9.89 |
| | | 385.0 | 112.8 | 13.05 | 106.3 | 12.26 | 101.0 | 11.09 | 98.5 | 11.09 | 94.3 | 10.26 | 89.7 | 9.89 |
| | | 481.3 | 112.8 | 13.05 | 106.3 | 11.87 | 101.0 | 11.09 | 98.5 | 10.67 | 94.3 | 10.26 | 89.7 | 9.50 |
| | | 577.5 | 112.8 | 13.05 | 106.3 | 11.65 | 101.0 | 11.09 | 98.5 | 10.48 | 94.3 | 10.26 | 89.7 | 9.28 |
| | 40 | 154.0 | 112.8 | 12.83 | 106.3 | 11.55 | 101.0 | 10.26 | 98.5 | 10.36 | 94.3 | 9.50 | 89.7 | 9.18 |
| | | 192.5 | 112.8 | 12.63 | 106.3 | 11.46 | 101.0 | 10.26 | 98.5 | 10.26 | 94.3 | 9.50 | 89.7 | 9.08 |
| | | 385.0 | 112.8 | 11.87 | 106.3 | 11.09 | 101.0 | 10.26 | 98.5 | 9.89 | 94.3 | 9.50 | 89.7 | 8.71 |
| | | 481.3 | 112.8 | 11.87 | 106.3 | 11.09 | 101.0 | 9.89 | 98.5 | 9.89 | 94.3 | 9.50 | 89.7 | 8.71 |
| | | 577.5 | 112.8 | 11.87 | 106.3 | 11.09 | 101.0 | 9.72 | 98.5 | 9.89 | 94.3 | 9.50 | 89.7 | 8.71 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 154.0 | 112.8 | 12.16 | 106.3 | 10.36 | 101.0 | 8.98 | 98.5 | 9.69 | 94.3 | 8.20 | 89.7 | 8.49 |
| | | 192.5 | 112.8 | 11.87 | 106.3 | 10.26 | 101.0 | 9.08 | 98.5 | 9.50 | 94.3 | 8.30 | 89.7 | 8.30 |
| | | 385.0 | 112.8 | 10.67 | 106.3 | 9.89 | 101.0 | 9.50 | 98.5 | 8.71 | 94.3 | 8.71 | 89.7 | 7.52 |
| | | 481.3 | 112.8 | 10.67 | 106.3 | 10.26 | 101.0 | 8.71 | 98.5 | 9.08 | 94.3 | 8.71 | 89.7 | 7.88 |
| | | 577.5 | 112.8 | 10.67 | 106.3 | 10.45 | 101.0 | 8.32 | 98.5 | 9.26 | 94.3 | 8.71 | 89.7 | 8.08 |
| 70 | -5 | 154.0 | 39.5 | 14.29 | 37.0 | 13.61 | 35.0 | 13.17 | 34.7 | 12.41 | 34.5 | 11.97 | 34.0 | 10.89 |
| | | 192.5 | 40.8 | 14.59 | 38.3 | 13.90 | 36.2 | 13.46 | 35.8 | 12.68 | 35.7 | 12.24 | 35.0 | 11.12 |
| | | 385.0 | 46.2 | 15.84 | 43.3 | 15.08 | 41.0 | 14.59 | 40.5 | 13.73 | 40.3 | 13.24 | 39.5 | 12.07 |
| | | 481.3 | 51.0 | 17.09 | 48.0 | 16.28 | 45.2 | 15.74 | 45.0 | 14.81 | 44.5 | 14.32 | 43.7 | 13.00 |
| | | 577.5 | 53.5 | 17.72 | 50.2 | 16.87 | 47.5 | 16.33 | 47.0 | 15.35 | 46.7 | 14.86 | 45.8 | 13.49 |
| | 0 | 154.0 | 70.5 | 20.93 | 65.3 | 19.95 | 60.5 | 19.29 | 59.5 | 18.14 | 58.5 | 17.53 | 56.5 | 15.96 |
| | | 192.5 | 71.0 | 20.98 | 65.7 | 20.00 | 61.0 | 19.34 | 60.0 | 18.19 | 59.0 | 17.58 | 56.8 | 15.99 |
| | | 385.0 | 72.7 | 21.22 | 67.2 | 20.20 | 62.3 | 19.58 | 61.3 | 18.41 | 60.3 | 17.80 | 58.2 | 16.16 |
| | | 481.3 | 73.7 | 21.22 | 68.2 | 20.20 | 63.3 | 19.58 | 62.2 | 18.41 | 61.3 | 17.80 | 59.0 | 16.16 |
| | | 577.5 | 74.3 | 21.22 | 68.7 | 20.20 | 63.8 | 19.58 | 62.7 | 18.41 | 61.8 | 17.80 | 59.5 | 16.16 |
| | 5 | 154.0 | 97.5 | 22.79 | 92.5 | 21.69 | 88.0 | 20.98 | 86.2 | 19.78 | 82.3 | 19.07 | 78.5 | 17.33 |
| | | 192.5 | 97.8 | 22.91 | 92.5 | 21.79 | 88.0 | 21.10 | 86.2 | 19.88 | 82.3 | 19.19 | 78.5 | 17.43 |
| | | 385.0 | 98.5 | 23.35 | 93.3 | 22.25 | 88.2 | 21.54 | 86.2 | 20.24 | 82.3 | 19.58 | 78.5 | 17.80 |
| | | 481.3 | 98.5 | 23.52 | 93.2 | 22.42 | 88.2 | 21.71 | 86.2 | 20.41 | 82.3 | 19.71 | 78.5 | 17.92 |
| | | 577.5 | 98.5 | 23.60 | 93.0 | 22.50 | 88.2 | 21.81 | 86.2 | 20.49 | 82.3 | 19.78 | 78.5 | 17.97 |
| | 10 | 154.0 | 98.0 | 20.98 | 92.7 | 19.83 | 88.2 | 19.09 | 86.2 | 18.04 | 82.3 | 17.31 | 78.5 | 15.84 |
| | | 192.5 | 98.0 | 20.93 | 92.8 | 19.80 | 88.2 | 19.07 | 86.2 | 18.04 | 82.3 | 17.31 | 78.5 | 15.84 |
| | | 385.0 | 98.5 | 20.78 | 93.2 | 19.63 | 88.2 | 18.90 | 86.2 | 18.04 | 82.3 | 17.31 | 78.5 | 15.84 |
| | | 481.3 | 98.5 | 20.86 | 93.2 | 19.71 | 88.2 | 18.97 | 86.2 | 18.11 | 82.3 | 17.18 | 78.5 | 15.86 |
| | | 577.5 | 98.5 | 20.90 | 93.2 | 19.75 | 88.2 | 19.02 | 86.2 | 18.16 | 82.3 | 17.11 | 78.5 | 15.89 |
| | 15 | 154.0 | 98.5 | 19.17 | 93.2 | 17.99 | 88.2 | 17.21 | 86.2 | 16.28 | 82.3 | 15.52 | 78.5 | 14.34 |
| | | 192.5 | 98.5 | 18.97 | 93.2 | 17.80 | 88.2 | 17.01 | 86.2 | 16.20 | 82.3 | 15.42 | 78.5 | 14.22 |
| | | 385.0 | 98.5 | 18.19 | 93.2 | 17.01 | 88.2 | 16.20 | 86.2 | 15.84 | 82.3 | 15.01 | 78.5 | 13.83 |
| | | 481.3 | 98.5 | 18.19 | 93.2 | 17.01 | 88.2 | 16.20 | 86.2 | 15.84 | 82.3 | 14.64 | 78.5 | 13.83 |
| | | 577.5 | 98.5 | 18.19 | 93.2 | 17.01 | 88.2 | 16.20 | 86.2 | 15.84 | 82.3 | 14.46 | 78.5 | 13.83 |
| | 20 | 154.0 | 98.5 | 15.93 | 93.2 | 15.10 | 88.2 | 14.74 | 86.2 | 14.34 | 82.3 | 13.56 | 78.5 | 12.73 |
| | | 192.5 | 98.5 | 15.84 | 93.2 | 15.01 | 88.2 | 14.64 | 86.2 | 14.22 | 82.3 | 13.46 | 78.5 | 12.63 |
| | | 385.0 | 98.5 | 15.42 | 93.2 | 14.64 | 88.2 | 14.22 | 86.2 | 13.83 | 82.3 | 13.05 | 78.5 | 12.26 |
| | | 481.3 | 98.5 | 15.42 | 93.2 | 14.64 | 88.2 | 14.22 | 86.2 | 13.46 | 82.3 | 13.05 | 78.5 | 11.87 |
| | | 577.5 | 98.5 | 15.42 | 93.2 | 14.64 | 88.2 | 14.22 | 86.2 | 13.27 | 82.3 | 13.05 | 78.5 | 11.65 |
| | 25 | 154.0 | 98.5 | 14.34 | 93.2 | 13.56 | 88.2 | 12.73 | 86.2 | 12.36 | 82.3 | 11.46 | 78.5 | 10.67 |
| | | 192.5 | 98.5 | 14.22 | 93.2 | 13.46 | 88.2 | 12.63 | 86.2 | 12.26 | 82.3 | 11.46 | 78.5 | 10.67 |
| | | 385.0 | 98.5 | 13.83 | 93.2 | 13.05 | 88.2 | 12.26 | 86.2 | 11.87 | 82.3 | 11.46 | 78.5 | 10.67 |
| | | 481.3 | 98.5 | 13.46 | 93.2 | 12.63 | 88.2 | 12.26 | 86.2 | 11.87 | 82.3 | 11.09 | 78.5 | 10.67 |
| | | 577.5 | 98.5 | 13.27 | 93.2 | 12.43 | 88.2 | 12.26 | 86.2 | 11.87 | 82.3 | 10.89 | 78.5 | 10.67 |
| | 30 | 154.0 | 98.5 | 12.73 | 93.2 | 11.97 | 88.2 | 11.19 | 86.2 | 10.67 | 82.3 | 10.36 | 78.5 | 9.50 |
| | | 192.5 | 98.5 | 12.63 | 93.2 | 11.87 | 88.2 | 11.09 | 86.2 | 10.67 | 82.3 | 10.26 | 78.5 | 9.50 |
| | | 385.0 | 98.5 | 12.26 | 93.2 | 11.46 | 88.2 | 10.67 | 86.2 | 10.67 | 82.3 | 9.89 | 78.5 | 9.50 |
| | | 481.3 | 98.5 | 12.26 | 93.2 | 11.46 | 88.2 | 10.67 | 86.2 | 10.26 | 82.3 | 9.89 | 78.5 | 9.50 |
| | | 577.5 | 98.5 | 12.26 | 93.2 | 11.46 | 88.2 | 10.67 | 86.2 | 10.06 | 82.3 | 9.89 | 78.5 | 9.50 |
| | 35 | 154.0 | 98.5 | 11.55 | 93.2 | 10.77 | 88.2 | 9.89 | 86.2 | 10.01 | 82.3 | 9.08 | 78.5 | 8.81 |
| | | 192.5 | 98.5 | 11.46 | 93.2 | 10.67 | 88.2 | 9.89 | 86.2 | 9.89 | 82.3 | 9.08 | 78.5 | 8.71 |
| | | 385.0 | 98.5 | 11.09 | 93.2 | 10.26 | 88.2 | 9.89 | 86.2 | 9.50 | 82.3 | 9.08 | 78.5 | 8.30 |
| | | 481.3 | 98.5 | 11.09 | 93.2 | 10.26 | 88.2 | 9.50 | 86.2 | 9.50 | 82.3 | 9.08 | 78.5 | 8.30 |
| | | 577.5 | 98.5 | 11.09 | 93.2 | 10.26 | 88.2 | 9.28 | 86.2 | 9.50 | 82.3 | 9.08 | 78.5 | 8.30 |
| | 40 | 154.0 | 98.5 | 10.77 | 93.2 | 10.01 | 88.2 | 9.18 | 86.2 | 8.71 | 82.3 | 8.30 | 78.5 | 7.98 |
| | | 192.5 | 98.5 | 10.67 | 93.2 | 9.89 | 88.2 | 9.08 | 86.2 | 8.71 | 82.3 | 8.30 | 78.5 | 7.88 |
| | | 385.0 | 98.5 | 10.26 | 93.2 | 9.50 | 88.2 | 8.71 | 86.2 | 8.71 | 82.3 | 8.30 | 78.5 | 7.52 |
| | | 481.3 | 98.5 | 10.26 | 93.2 | 9.50 | 88.2 | 8.71 | 86.2 | 8.30 | 82.3 | 7.88 | 78.5 | 7.52 |
| | | 577.5 | 98.5 | 10.26 | 93.2 | 9.50 | 88.2 | 8.71 | 86.2 | 8.10 | 82.3 | 7.69 | 78.5 | 7.52 |
| | 45 | 154.0 | 98.5 | 10.01 | 93.2 | 9.18 | 88.2 | 8.49 | 86.2 | 7.44 | 82.3 | 7.52 | 78.5 | 7.22 |
| | | 192.5 | 98.5 | 9.89 | 93.2 | 9.08 | 88.2 | 8.30 | 86.2 | 7.52 | 82.3 | 7.52 | 78.5 | 7.12 |
| | | 385.0 | 98.5 | 9.50 | 93.2 | 8.71 | 88.2 | 7.52 | 86.2 | 7.88 | 82.3 | 7.52 | 78.5 | 6.71 |
| | | 481.3 | 98.5 | 9.50 | 93.2 | 8.71 | 88.2 | 7.88 | 86.2 | 7.12 | 82.3 | 6.71 | 78.5 | 6.71 |
| | | 577.5 | 98.5 | 9.50 | 93.2 | 8.71 | 88.2 | 8.08 | 86.2 | 6.73 | 82.3 | 6.29 | 78.5 | 6.71 |
| 60 | -5 | 154.0 | 33.8 | 11.60 | 31.7 | 11.16 | 30.0 | 10.72 | 29.7 | 9.96 | 29.5 | 9.79 | 29.0 | 8.76 |
| | | 192.5 | 35.0 | 11.87 | 32.8 | 11.41 | 31.0 | 10.97 | 30.7 | 10.18 | 30.5 | 10.01 | 30.0 | 8.96 |
| | | 385.0 | 39.7 | 12.88 | 37.2 | 12.39 | 35.2 | 11.90 | 34.8 | 11.04 | 34.7 | 10.87 | 34.0 | 9.74 |
| | | 481.3 | 43.8 | 13.86 | 41.0 | 13.37 | 39.0 | 12.85 | 38.5 | 11.94 | 38.3 | 11.73 | 37.5 | 10.48 |
| | | 577.5 | 46.0 | 14.37 | 43.0 | 13.88 | 40.8 | 13.32 | 40.3 | 12.39 | 40.2 | 12.17 | 39.3 | 10.84 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 154.0 | 60.5 | 17.01 | 55.8 | 16.40 | 52.0 | 15.69 | 51.0 | 14.59 | 50.3 | 14.39 | 48.5 | 12.85 |
| | | 192.5 | 61.0 | 17.06 | 56.2 | 16.45 | 52.5 | 15.74 | 51.3 | 14.64 | 50.7 | 14.44 | 48.8 | 12.88 |
| | | 385.0 | 62.3 | 17.26 | 57.5 | 16.60 | 53.7 | 15.96 | 52.5 | 14.81 | 51.8 | 14.59 | 49.8 | 13.00 |
| | | 481.3 | 63.3 | 17.26 | 58.3 | 16.60 | 54.5 | 15.96 | 53.3 | 14.81 | 52.7 | 14.59 | 50.7 | 13.00 |
| | | 577.5 | 63.8 | 17.26 | 58.8 | 16.60 | 55.0 | 15.96 | 53.7 | 14.81 | 53.0 | 14.59 | 51.0 | 13.00 |
| | 5 | 154.0 | 83.7 | 18.51 | 79.0 | 17.82 | 75.7 | 17.09 | 73.8 | 15.91 | 70.7 | 15.67 | 67.3 | 13.95 |
| | | 192.5 | 84.0 | 18.60 | 79.0 | 17.92 | 75.7 | 17.18 | 73.8 | 15.99 | 70.7 | 15.74 | 67.3 | 14.03 |
| | | 385.0 | 84.7 | 18.97 | 79.7 | 18.28 | 75.7 | 17.55 | 73.8 | 16.33 | 70.7 | 16.08 | 67.3 | 14.32 |
| | | 481.3 | 84.7 | 19.14 | 79.5 | 18.41 | 75.7 | 17.67 | 73.8 | 16.45 | 70.7 | 16.16 | 67.3 | 14.44 |
| | | 577.5 | 84.7 | 19.22 | 79.5 | 18.46 | 75.7 | 17.72 | 73.8 | 16.50 | 70.7 | 16.20 | 67.3 | 14.49 |
| | 10 | 154.0 | 84.2 | 17.01 | 79.3 | 16.28 | 75.7 | 15.50 | 73.8 | 14.47 | 70.7 | 14.20 | 67.3 | 12.73 |
| | | 192.5 | 84.3 | 17.01 | 79.3 | 16.28 | 75.7 | 15.50 | 73.8 | 14.52 | 70.7 | 14.20 | 67.3 | 12.75 |
| | | 385.0 | 84.7 | 17.01 | 79.7 | 16.28 | 75.7 | 15.50 | 73.8 | 14.69 | 70.7 | 14.15 | 67.3 | 12.88 |
| | | 481.3 | 84.7 | 17.06 | 79.5 | 16.11 | 75.7 | 15.35 | 73.8 | 14.52 | 70.7 | 14.03 | 67.3 | 12.75 |
| | | 577.5 | 84.7 | 17.08 | 79.5 | 16.03 | 75.7 | 15.25 | 73.8 | 14.44 | 70.7 | 13.98 | 67.3 | 12.70 |
| | 15 | 154.0 | 84.7 | 15.52 | 79.5 | 14.74 | 75.7 | 13.91 | 73.8 | 13.05 | 70.7 | 12.73 | 67.3 | 11.46 |
| | | 192.5 | 84.7 | 15.42 | 79.5 | 14.64 | 75.7 | 13.83 | 73.8 | 13.05 | 70.7 | 12.63 | 67.3 | 11.46 |
| | | 385.0 | 84.7 | 15.01 | 79.5 | 14.22 | 75.7 | 13.46 | 73.8 | 13.05 | 70.7 | 12.26 | 67.3 | 11.46 |
| | | 481.3 | 84.7 | 15.01 | 79.5 | 13.83 | 75.7 | 13.05 | 73.8 | 12.63 | 70.7 | 11.87 | 67.3 | 11.09 |
| | | 577.5 | 84.7 | 15.01 | 79.5 | 13.61 | 75.7 | 12.85 | 73.8 | 12.43 | 70.7 | 11.65 | 67.3 | 10.89 |
| | 20 | 154.0 | 84.7 | 13.56 | 79.5 | 12.73 | 75.7 | 11.97 | 73.8 | 11.55 | 70.7 | 11.19 | 67.3 | 10.36 |
| | | 192.5 | 84.7 | 13.46 | 79.5 | 12.63 | 75.7 | 11.87 | 73.8 | 11.46 | 70.7 | 11.09 | 67.3 | 10.26 |
| | | 385.0 | 84.7 | 13.05 | 79.5 | 12.26 | 75.7 | 11.46 | 73.8 | 11.09 | 70.7 | 10.67 | 67.3 | 9.89 |
| | | 481.3 | 84.7 | 13.05 | 79.5 | 12.26 | 75.7 | 11.46 | 73.8 | 11.09 | 70.7 | 10.67 | 67.3 | 9.89 |
| | | 577.5 | 84.7 | 13.05 | 79.5 | 12.26 | 75.7 | 11.46 | 73.8 | 11.09 | 70.7 | 10.67 | 67.3 | 9.89 |
| | 25 | 154.0 | 84.7 | 11.97 | 79.5 | 11.19 | 75.7 | 10.26 | 73.8 | 10.36 | 70.7 | 9.50 | 67.3 | 9.18 |
| | | 192.5 | 84.7 | 11.87 | 79.5 | 11.09 | 75.7 | 10.26 | 73.8 | 10.26 | 70.7 | 9.50 | 67.3 | 9.08 |
| | | 385.0 | 84.7 | 11.46 | 79.5 | 10.67 | 75.7 | 10.26 | 73.8 | 9.89 | 70.7 | 9.50 | 67.3 | 8.71 |
| | | 481.3 | 84.7 | 11.46 | 79.5 | 10.67 | 75.7 | 9.89 | 73.8 | 9.89 | 70.7 | 9.50 | 67.3 | 8.71 |
| | | 577.5 | 84.7 | 11.46 | 79.5 | 10.67 | 75.7 | 9.72 | 73.8 | 9.89 | 70.7 | 9.50 | 67.3 | 8.71 |
| | 30 | 154.0 | 84.7 | 10.77 | 79.5 | 10.01 | 75.7 | 9.59 | 73.8 | 9.18 | 70.7 | 8.81 | 67.3 | 8.40 |
| | | 192.5 | 84.7 | 10.67 | 79.5 | 9.89 | 75.7 | 9.50 | 73.8 | 9.08 | 70.7 | 8.71 | 67.3 | 8.30 |
| | | 385.0 | 84.7 | 10.26 | 79.5 | 9.50 | 75.7 | 9.08 | 73.8 | 8.71 | 70.7 | 8.30 | 67.3 | 7.88 |
| | | 481.3 | 84.7 | 10.26 | 79.5 | 9.50 | 75.7 | 9.08 | 73.8 | 8.71 | 70.7 | 8.30 | 67.3 | 7.88 |
| | | 577.5 | 84.7 | 10.26 | 79.5 | 9.50 | 75.7 | 9.08 | 73.8 | 8.71 | 70.7 | 8.30 | 67.3 | 7.88 |
| | 35 | 154.0 | 84.7 | 9.50 | 79.5 | 9.18 | 75.7 | 8.30 | 73.8 | 8.40 | 70.7 | 7.98 | 67.3 | 7.64 |
| | | 192.5 | 84.7 | 9.50 | 79.5 | 9.08 | 75.7 | 8.30 | 73.8 | 8.30 | 70.7 | 7.88 | 67.3 | 7.52 |
| | | 385.0 | 84.7 | 9.50 | 79.5 | 8.71 | 75.7 | 8.30 | 73.8 | 7.88 | 70.7 | 7.52 | 67.3 | 7.12 |
| | | 481.3 | 84.7 | 9.50 | 79.5 | 8.71 | 75.7 | 7.88 | 73.8 | 7.88 | 70.7 | 7.52 | 67.3 | 7.12 |
| | | 577.5 | 84.7 | 9.50 | 79.5 | 8.71 | 75.7 | 7.69 | 73.8 | 7.88 | 70.7 | 7.52 | 67.3 | 7.12 |
| | 40 | 154.0 | 84.7 | 8.71 | 79.5 | 8.40 | 75.7 | 7.52 | 73.8 | 7.64 | 70.7 | 7.22 | 67.3 | 6.71 |
| | | 192.5 | 84.7 | 8.71 | 79.5 | 8.30 | 75.7 | 7.52 | 73.8 | 7.52 | 70.7 | 7.12 | 67.3 | 6.71 |
| | | 385.0 | 84.7 | 8.71 | 79.5 | 7.88 | 75.7 | 7.52 | 73.8 | 7.12 | 70.7 | 6.71 | 67.3 | 6.71 |
| | | 481.3 | 84.7 | 8.71 | 79.5 | 7.88 | 75.7 | 7.52 | 73.8 | 7.12 | 70.7 | 6.71 | 67.3 | 6.71 |
| | | 577.5 | 84.7 | 8.71 | 79.5 | 7.88 | 75.7 | 7.52 | 73.8 | 7.12 | 70.7 | 6.71 | 67.3 | 6.71 |
| | 45 | 154.0 | 84.7 | 7.88 | 79.5 | 7.64 | 75.7 | 6.71 | 73.8 | 6.80 | 70.7 | 6.44 | 67.3 | 5.83 |
| | | 192.5 | 84.7 | 7.88 | 79.5 | 7.52 | 75.7 | 6.71 | 73.8 | 6.71 | 70.7 | 6.34 | 67.3 | 5.93 |
| | | 385.0 | 84.7 | 7.88 | 79.5 | 7.12 | 75.7 | 6.71 | 73.8 | 6.34 | 70.7 | 5.93 | 67.3 | 6.34 |
| | | 481.3 | 84.7 | 7.88 | 79.5 | 7.12 | 75.7 | 7.12 | 73.8 | 6.34 | 70.7 | 5.93 | 67.3 | 6.34 |
| | | 577.5 | 84.7 | 7.88 | 79.5 | 7.12 | 75.7 | 7.32 | 73.8 | 6.34 | 70.7 | 5.93 | 67.3 | 6.34 |
| 50 | -5 | 154.0 | 28.2 | 9.25 | 26.5 | 8.76 | 25.0 | 8.30 | 24.7 | 7.83 | 24.5 | 7.37 | 24.2 | 6.98 |
| | | 192.5 | 29.2 | 9.45 | 27.5 | 8.96 | 26.0 | 8.47 | 25.5 | 8.01 | 25.5 | 7.52 | 25.0 | 7.12 |
| | | 385.0 | 33.0 | 10.23 | 31.0 | 9.74 | 29.3 | 9.16 | 29.0 | 8.71 | 28.8 | 8.18 | 28.2 | 7.69 |
| | | 481.3 | 36.5 | 11.04 | 34.2 | 10.48 | 32.3 | 9.89 | 32.0 | 9.40 | 31.8 | 8.79 | 31.3 | 8.30 |
| | | 577.5 | 38.2 | 11.46 | 36.0 | 10.84 | 34.0 | 10.26 | 33.5 | 9.77 | 33.2 | 9.11 | 32.8 | 8.62 |
| | 0 | 154.0 | 50.3 | 13.54 | 46.5 | 12.85 | 43.3 | 12.11 | 42.5 | 11.48 | 41.8 | 10.80 | 40.3 | 10.19 |
| | | 192.5 | 50.7 | 13.58 | 47.0 | 12.88 | 43.5 | 12.14 | 42.7 | 11.53 | 42.0 | 10.84 | 40.5 | 10.23 |
| | | 385.0 | 51.8 | 13.71 | 48.0 | 13.00 | 44.7 | 12.31 | 43.7 | 11.70 | 43.2 | 10.97 | 41.5 | 10.35 |
| | | 481.3 | 52.7 | 13.71 | 48.7 | 13.00 | 45.2 | 12.31 | 44.5 | 11.70 | 43.7 | 10.97 | 42.2 | 10.35 |
| | | 577.5 | 53.0 | 13.71 | 49.0 | 13.00 | 45.5 | 12.31 | 44.8 | 11.70 | 44.0 | 10.97 | 42.5 | 10.35 |
| | 5 | 154.0 | 69.5 | 14.74 | 66.0 | 13.95 | 63.0 | 13.17 | 61.5 | 12.53 | 58.7 | 11.77 | 56.0 | 11.06 |
| | | 192.5 | 69.7 | 14.81 | 66.0 | 14.03 | 63.0 | 13.24 | 61.5 | 12.60 | 58.7 | 11.82 | 56.0 | 11.12 |
| | | 385.0 | 70.3 | 15.08 | 66.5 | 14.32 | 63.0 | 13.54 | 61.5 | 12.85 | 58.7 | 12.02 | 56.0 | 11.36 |
| | | 481.3 | 70.3 | 15.20 | 66.5 | 14.44 | 63.0 | 13.61 | 61.5 | 12.92 | 58.7 | 12.14 | 56.0 | 11.46 |
| | | 577.5 | 70.3 | 15.27 | 66.5 | 14.49 | 63.0 | 13.66 | 61.5 | 12.97 | 58.7 | 12.21 | 56.0 | 11.48 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(40HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 154.0 | 70.0 | 13.56 | 66.2 | 12.78 | 63.0 | 12.00 | 61.5 | 11.48 | 58.7 | 10.60 | 56.0 | 10.13 |
| | | 192.5 | 70.0 | 13.54 | 66.2 | 12.75 | 63.0 | 11.99 | 61.5 | 11.46 | 58.7 | 10.63 | 56.0 | 10.11 |
| | | 385.0 | 70.3 | 13.46 | 66.5 | 12.73 | 63.0 | 11.90 | 61.5 | 11.36 | 58.7 | 10.75 | 56.0 | 10.01 |
| | | 481.3 | 70.3 | 13.54 | 66.5 | 12.75 | 63.0 | 11.94 | 61.5 | 11.41 | 58.7 | 10.60 | 56.0 | 10.06 |
| | | 577.5 | 70.3 | 13.58 | 66.5 | 12.78 | 63.0 | 11.97 | 61.5 | 11.43 | 58.7 | 10.50 | 56.0 | 10.08 |
| | 15 | 154.0 | 70.3 | 12.36 | 66.5 | 11.55 | 63.0 | 10.77 | 61.5 | 10.36 | 58.7 | 9.50 | 56.0 | 9.18 |
| | | 192.5 | 70.3 | 12.26 | 66.5 | 11.46 | 63.0 | 10.67 | 61.5 | 10.26 | 58.7 | 9.50 | 56.0 | 9.08 |
| | | 385.0 | 70.3 | 11.87 | 66.5 | 11.09 | 63.0 | 10.26 | 61.5 | 9.89 | 58.7 | 9.50 | 56.0 | 8.71 |
| | | 481.3 | 70.3 | 11.87 | 66.5 | 11.09 | 63.0 | 10.26 | 61.5 | 9.89 | 58.7 | 9.08 | 56.0 | 8.71 |
| | | 577.5 | 70.3 | 11.87 | 66.5 | 11.09 | 63.0 | 10.26 | 61.5 | 9.89 | 58.7 | 8.86 | 56.0 | 8.71 |
| | 20 | 154.0 | 70.3 | 10.77 | 66.5 | 10.01 | 63.0 | 9.59 | 61.5 | 9.18 | 58.7 | 8.81 | 56.0 | 7.88 |
| | | 192.5 | 70.3 | 10.67 | 66.5 | 9.89 | 63.0 | 9.50 | 61.5 | 9.08 | 58.7 | 8.71 | 56.0 | 7.88 |
| | | 385.0 | 70.3 | 10.26 | 66.5 | 9.50 | 63.0 | 9.08 | 61.5 | 8.71 | 58.7 | 8.30 | 56.0 | 7.88 |
| | | 481.3 | 70.3 | 10.26 | 66.5 | 9.50 | 63.0 | 9.08 | 61.5 | 8.71 | 58.7 | 8.30 | 56.0 | 7.88 |
| | | 577.5 | 70.3 | 10.26 | 66.5 | 9.50 | 63.0 | 9.08 | 61.5 | 8.71 | 58.7 | 8.30 | 56.0 | 7.88 |
| | 25 | 154.0 | 70.3 | 9.59 | 66.5 | 8.71 | 63.0 | 8.40 | 61.5 | 7.88 | 58.7 | 7.52 | 56.0 | 7.12 |
| | | 192.5 | 70.3 | 9.50 | 66.5 | 8.71 | 63.0 | 8.30 | 61.5 | 7.88 | 58.7 | 7.52 | 56.0 | 7.12 |
| | | 385.0 | 70.3 | 9.08 | 66.5 | 8.71 | 63.0 | 7.88 | 61.5 | 7.88 | 58.7 | 7.52 | 56.0 | 7.12 |
| | | 481.3 | 70.3 | 9.08 | 66.5 | 8.71 | 63.0 | 7.88 | 61.5 | 7.88 | 58.7 | 7.52 | 56.0 | 7.12 |
| | | 577.5 | 70.3 | 9.08 | 66.5 | 8.71 | 63.0 | 7.88 | 61.5 | 7.88 | 58.7 | 7.52 | 56.0 | 7.12 |
| | 30 | 154.0 | 70.3 | 8.81 | 66.5 | 7.98 | 63.0 | 7.64 | 61.5 | 7.12 | 58.7 | 7.22 | 56.0 | 6.80 |
| | | 192.5 | 70.3 | 8.71 | 66.5 | 7.88 | 63.0 | 7.52 | 61.5 | 7.12 | 58.7 | 7.12 | 56.0 | 6.71 |
| | | 385.0 | 70.3 | 8.30 | 66.5 | 7.52 | 63.0 | 7.12 | 61.5 | 7.12 | 58.7 | 6.71 | 56.0 | 6.34 |
| | | 481.3 | 70.3 | 8.30 | 66.5 | 7.52 | 63.0 | 7.12 | 61.5 | 7.12 | 58.7 | 6.71 | 56.0 | 6.34 |
| | | 577.5 | 70.3 | 8.30 | 66.5 | 7.52 | 63.0 | 7.12 | 61.5 | 7.12 | 58.7 | 6.71 | 56.0 | 6.34 |
| | 35 | 154.0 | 70.3 | 7.98 | 66.5 | 7.12 | 63.0 | 6.71 | 61.5 | 6.80 | 58.7 | 6.34 | 56.0 | 5.93 |
| | | 192.5 | 70.3 | 7.88 | 66.5 | 7.12 | 63.0 | 6.71 | 61.5 | 6.71 | 58.7 | 6.34 | 56.0 | 5.93 |
| | | 385.0 | 70.3 | 7.52 | 66.5 | 7.12 | 63.0 | 6.71 | 61.5 | 6.34 | 58.7 | 6.34 | 56.0 | 5.93 |
| | | 481.3 | 70.3 | 7.52 | 66.5 | 7.12 | 63.0 | 6.71 | 61.5 | 6.34 | 58.7 | 6.34 | 56.0 | 5.93 |
| | | 577.5 | 70.3 | 7.52 | 66.5 | 7.12 | 63.0 | 6.71 | 61.5 | 6.34 | 58.7 | 6.34 | 56.0 | 5.93 |
| | 40 | 154.0 | 70.3 | 7.22 | 66.5 | 6.80 | 63.0 | 6.44 | 61.5 | 5.93 | 58.7 | 6.02 | 56.0 | 5.53 |
| | | 192.5 | 70.3 | 7.12 | 66.5 | 6.71 | 63.0 | 6.34 | 61.5 | 5.93 | 58.7 | 5.93 | 56.0 | 5.53 |
| | | 385.0 | 70.3 | 6.71 | 66.5 | 6.34 | 63.0 | 5.93 | 61.5 | 5.93 | 58.7 | 5.53 | 56.0 | 5.53 |
| | | 481.3 | 70.3 | 6.71 | 66.5 | 6.34 | 63.0 | 5.93 | 61.5 | 5.93 | 58.7 | 5.53 | 56.0 | 5.53 |
| | | 577.5 | 70.3 | 6.71 | 66.5 | 6.34 | 63.0 | 5.93 | 61.5 | 5.93 | 58.7 | 5.53 | 56.0 | 5.53 |
| | 45 | 154.0 | 70.3 | 6.44 | 66.5 | 6.54 | 63.0 | 6.12 | 61.5 | 5.07 | 58.7 | 5.73 | 56.0 | 5.16 |
| | | 192.5 | 70.3 | 6.34 | 66.5 | 6.34 | 63.0 | 5.93 | 61.5 | 5.16 | 58.7 | 5.53 | 56.0 | 5.16 |
| | | 385.0 | 70.3 | 5.93 | 66.5 | 5.53 | 63.0 | 5.16 | 61.5 | 5.53 | 58.7 | 4.75 | 56.0 | 5.16 |
| | | 481.3 | 70.3 | 5.93 | 66.5 | 5.53 | 63.0 | 5.16 | 61.5 | 5.53 | 58.7 | 4.75 | 56.0 | 5.16 |
| | | 577.5 | 70.3 | 5.93 | 66.5 | 5.53 | 63.0 | 5.16 | 61.5 | 5.53 | 58.7 | 4.75 | 56.0 | 5.16 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

## ARWN420BAS4

**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 162.0 | 62.7 | 26.64 | 62.1 | 25.08 | 61.8 | 23.34 | 60.9 | 22.65 | 61.5 | 22.08 | 60.0 | 19.80 |
| | | 202.5 | 64.8 | 27.12 | 64.2 | 25.56 | 63.9 | 23.85 | 63.0 | 23.16 | 63.9 | 22.56 | 62.1 | 20.22 |
| | | 405.0 | 73.2 | 28.95 | 72.6 | 27.51 | 72.3 | 25.89 | 71.4 | 25.14 | 72.0 | 24.42 | 70.2 | 21.93 |
| | | 506.3 | 81.0 | 30.78 | 80.1 | 29.40 | 79.8 | 27.90 | 78.9 | 27.15 | 79.8 | 26.37 | 77.7 | 23.64 |
| | | 607.5 | 84.9 | 31.71 | 84.0 | 30.33 | 83.4 | 28.92 | 82.5 | 28.17 | 83.7 | 27.33 | 81.3 | 24.51 |
| | 0 | 162.0 | 111.9 | 36.45 | 109.2 | 35.34 | 106.8 | 34.20 | 104.7 | 33.24 | 105.0 | 32.34 | 100.2 | 28.95 |
| | | 202.5 | 112.5 | 36.54 | 109.8 | 35.43 | 107.7 | 34.29 | 105.3 | 33.33 | 105.6 | 32.40 | 100.8 | 29.04 |
| | | 405.0 | 115.2 | 36.93 | 112.5 | 35.79 | 110.1 | 34.68 | 107.7 | 33.72 | 108.0 | 32.76 | 103.2 | 29.40 |
| | | 506.3 | 117.0 | 36.93 | 114.0 | 35.79 | 111.6 | 34.68 | 109.2 | 33.72 | 109.8 | 32.76 | 104.7 | 29.40 |
| | | 607.5 | 117.9 | 36.93 | 114.9 | 35.79 | 112.5 | 34.68 | 110.1 | 33.72 | 110.4 | 32.76 | 105.6 | 29.40 |
| | 5 | 162.0 | 161.1 | 39.18 | 158.7 | 38.19 | 155.4 | 37.23 | 151.5 | 36.18 | 147.3 | 35.19 | 139.2 | 31.50 |
| | | 202.5 | 161.7 | 39.33 | 159.0 | 38.37 | 155.4 | 37.41 | 151.5 | 36.36 | 147.3 | 35.34 | 139.2 | 31.68 |
| | | 405.0 | 163.8 | 40.05 | 159.9 | 39.09 | 155.4 | 38.16 | 151.5 | 37.11 | 147.3 | 36.06 | 139.2 | 32.34 |
| | | 506.3 | 164.7 | 40.32 | 160.5 | 39.33 | 155.4 | 38.43 | 151.5 | 37.38 | 147.3 | 36.33 | 139.2 | 32.55 |
| | | 607.5 | 165.3 | 40.44 | 160.8 | 39.48 | 155.4 | 38.55 | 151.5 | 37.50 | 147.3 | 36.45 | 139.2 | 32.67 |
| | 10 | 162.0 | 161.1 | 35.64 | 158.7 | 34.44 | 154.8 | 33.81 | 150.9 | 33.03 | 146.7 | 31.92 | 138.6 | 28.80 |
| | | 202.5 | 162.3 | 35.58 | 159.3 | 34.47 | 155.4 | 33.87 | 151.5 | 33.03 | 147.3 | 31.89 | 139.2 | 28.77 |
| | | 405.0 | 165.9 | 35.31 | 162.3 | 34.62 | 157.8 | 34.11 | 153.9 | 32.97 | 149.4 | 31.80 | 141.3 | 28.68 |
| | | 506.3 | 166.8 | 35.79 | 163.5 | 35.10 | 159.0 | 34.26 | 154.5 | 33.12 | 150.6 | 32.34 | 142.2 | 30.06 |
| | | 607.5 | 167.4 | 36.03 | 164.1 | 35.34 | 159.3 | 34.32 | 154.8 | 33.18 | 150.9 | 32.58 | 142.8 | 30.72 |
| | 15 | 162.0 | 161.4 | 32.13 | 158.7 | 30.75 | 154.2 | 30.42 | 150.0 | 29.91 | 146.1 | 28.65 | 138.0 | 26.10 |
| | | 202.5 | 162.9 | 31.80 | 159.9 | 30.63 | 155.4 | 30.36 | 151.5 | 29.70 | 147.3 | 28.41 | 139.2 | 25.89 |
| | | 405.0 | 168.0 | 30.54 | 164.7 | 30.09 | 160.5 | 30.09 | 156.3 | 28.83 | 151.8 | 27.54 | 143.7 | 24.99 |
| | | 506.3 | 168.9 | 31.26 | 166.2 | 30.78 | 162.3 | 30.09 | 157.8 | 28.83 | 153.9 | 28.32 | 145.2 | 27.54 |
| | | 607.5 | 169.5 | 31.65 | 167.1 | 31.14 | 163.2 | 30.09 | 158.7 | 28.83 | 154.8 | 28.74 | 146.1 | 28.83 |
| | 20 | 162.0 | 167.7 | 29.46 | 164.7 | 28.08 | 160.2 | 27.48 | 155.7 | 26.61 | 151.2 | 26.01 | 142.2 | 25.20 |
| | | 202.5 | 168.9 | 29.25 | 165.9 | 28.08 | 161.4 | 27.45 | 156.9 | 26.70 | 152.7 | 26.19 | 143.7 | 24.99 |
| | | 405.0 | 174.3 | 28.41 | 171.3 | 27.99 | 166.5 | 27.36 | 162.0 | 27.15 | 157.8 | 26.88 | 148.8 | 24.18 |
| | | 506.3 | 174.9 | 28.41 | 172.5 | 27.99 | 168.3 | 27.54 | 163.5 | 27.15 | 159.0 | 26.88 | 150.0 | 25.71 |
| | | 607.5 | 175.5 | 28.41 | 173.1 | 27.99 | 169.5 | 27.63 | 164.4 | 27.15 | 159.6 | 26.88 | 150.9 | 26.49 |
| | 25 | 162.0 | 177.0 | 28.08 | 172.5 | 27.27 | 168.3 | 26.82 | 165.3 | 26.37 | 161.4 | 25.98 | 152.1 | 24.27 |
| | | 202.5 | 177.0 | 27.99 | 172.5 | 27.24 | 168.3 | 26.70 | 165.3 | 26.28 | 161.4 | 25.89 | 152.1 | 24.18 |
| | | 405.0 | 177.0 | 27.54 | 172.5 | 27.06 | 168.3 | 26.28 | 165.3 | 25.89 | 161.4 | 25.44 | 152.1 | 23.73 |
| | | 506.3 | 177.0 | 27.15 | 172.5 | 26.37 | 168.3 | 25.89 | 165.3 | 25.44 | 161.4 | 24.99 | 152.1 | 23.34 |
| | | 607.5 | 177.0 | 26.94 | 172.5 | 26.01 | 168.3 | 25.68 | 165.3 | 25.23 | 161.4 | 24.78 | 152.1 | 23.13 |
| | 30 | 162.0 | 177.0 | 27.36 | 172.5 | 26.01 | 168.3 | 25.77 | 165.3 | 25.11 | 161.4 | 24.84 | 152.1 | 23.10 |
| | | 202.5 | 177.0 | 27.15 | 172.5 | 25.98 | 168.3 | 25.62 | 165.3 | 24.99 | 161.4 | 24.60 | 152.1 | 22.89 |
| | | 405.0 | 177.0 | 26.28 | 172.5 | 25.80 | 168.3 | 24.99 | 165.3 | 24.60 | 161.4 | 23.73 | 152.1 | 22.05 |
| | | 506.3 | 177.0 | 25.89 | 172.5 | 25.08 | 168.3 | 24.60 | 165.3 | 24.18 | 161.4 | 23.73 | 152.1 | 22.05 |
| | | 607.5 | 177.0 | 25.68 | 172.5 | 24.75 | 168.3 | 24.42 | 165.3 | 23.94 | 161.4 | 23.73 | 152.1 | 22.05 |
| | 35 | 162.0 | 177.0 | 26.10 | 172.5 | 25.23 | 168.3 | 24.72 | 165.3 | 23.82 | 161.4 | 23.01 | 152.1 | 21.39 |
| | | 202.5 | 177.0 | 25.89 | 172.5 | 25.08 | 168.3 | 24.60 | 165.3 | 23.73 | 161.4 | 22.89 | 152.1 | 21.18 |
| | | 405.0 | 177.0 | 24.99 | 172.5 | 24.51 | 168.3 | 24.18 | 165.3 | 23.34 | 161.4 | 22.47 | 152.1 | 20.34 |
| | | 506.3 | 177.0 | 24.99 | 172.5 | 24.27 | 168.3 | 23.73 | 165.3 | 22.89 | 161.4 | 22.05 | 152.1 | 20.34 |
| | | 607.5 | 177.0 | 24.99 | 172.5 | 24.12 | 168.3 | 23.52 | 165.3 | 22.68 | 161.4 | 21.87 | 152.1 | 20.34 |
| | 40 | 162.0 | 177.0 | 25.20 | 172.5 | 24.42 | 168.3 | 23.94 | 165.3 | 23.10 | 161.4 | 22.29 | 152.1 | 20.13 |
| | | 202.5 | 177.0 | 24.99 | 172.5 | 24.27 | 168.3 | 23.73 | 165.3 | 22.89 | 161.4 | 22.05 | 152.1 | 19.92 |
| | | 405.0 | 177.0 | 24.18 | 172.5 | 23.64 | 168.3 | 22.89 | 165.3 | 22.05 | 161.4 | 21.18 | 152.1 | 19.08 |
| | | 506.3 | 177.0 | 23.73 | 172.5 | 23.25 | 168.3 | 22.89 | 165.3 | 22.05 | 161.4 | 21.18 | 152.1 | 19.08 |
| | | 607.5 | 177.0 | 23.52 | 172.5 | 23.04 | 168.3 | 22.89 | 165.3 | 22.05 | 161.4 | 21.18 | 152.1 | 19.08 |
| | 45 | 162.0 | 177.0 | 24.39 | 172.5 | 23.58 | 168.3 | 23.22 | 165.3 | 22.38 | 161.4 | 21.51 | 152.1 | 18.84 |
| | | 202.5 | 177.0 | 24.18 | 172.5 | 23.43 | 168.3 | 22.89 | 165.3 | 22.05 | 161.4 | 21.18 | 152.1 | 18.63 |
| | | 405.0 | 177.0 | 23.34 | 172.5 | 22.80 | 168.3 | 21.63 | 165.3 | 20.79 | 161.4 | 19.92 | 152.1 | 17.82 |
| | | 506.3 | 177.0 | 22.47 | 172.5 | 22.23 | 168.3 | 22.05 | 165.3 | 21.18 | 161.4 | 20.34 | 152.1 | 17.82 |
| | | 607.5 | 177.0 | 22.02 | 172.5 | 21.96 | 168.3 | 22.29 | 165.3 | 21.39 | 161.4 | 20.58 | 152.1 | 17.82 |
| 120 | -5 | 162.0 | 59.4 | 26.64 | 59.1 | 25.08 | 58.8 | 23.34 | 57.9 | 22.35 | 58.5 | 21.72 | 57.0 | 19.44 |
| | | 202.5 | 61.5 | 27.12 | 60.9 | 25.56 | 60.6 | 23.85 | 60.0 | 22.86 | 60.3 | 22.20 | 58.8 | 19.86 |
| | | 405.0 | 69.6 | 28.95 | 69.0 | 27.51 | 68.7 | 25.89 | 67.8 | 24.78 | 68.4 | 24.09 | 66.6 | 21.57 |
| | | 506.3 | 76.8 | 30.78 | 76.2 | 29.40 | 75.9 | 27.90 | 75.0 | 26.76 | 75.6 | 25.98 | 73.5 | 23.25 |
| | | 607.5 | 80.7 | 31.71 | 80.1 | 30.33 | 79.5 | 28.92 | 78.6 | 27.75 | 79.2 | 26.91 | 76.8 | 24.09 |
| | 0 | 162.0 | 106.2 | 36.45 | 103.8 | 35.34 | 101.4 | 34.20 | 99.6 | 32.76 | 99.6 | 31.83 | 94.8 | 28.47 |
| | | 202.5 | 106.8 | 36.54 | 104.4 | 35.43 | 102.0 | 34.29 | 100.2 | 32.85 | 100.2 | 31.92 | 95.4 | 28.56 |
| | | 405.0 | 109.5 | 36.93 | 106.8 | 35.79 | 104.7 | 34.68 | 102.3 | 33.24 | 102.3 | 32.28 | 97.8 | 28.92 |
| | | 506.3 | 111.0 | 36.93 | 108.6 | 35.79 | 106.2 | 34.68 | 104.1 | 33.24 | 103.8 | 32.28 | 99.3 | 28.92 |
| | | 607.5 | 111.9 | 36.93 | 109.5 | 35.79 | 107.1 | 34.68 | 104.7 | 33.24 | 104.7 | 32.28 | 100.2 | 28.92 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 162.0 | 153.3 | 39.18 | 150.9 | 38.19 | 147.6 | 37.23 | 144.0 | 35.64 | 139.5 | 34.65 | 132.0 | 31.02 |
| | | 202.5 | 153.9 | 39.33 | 151.2 | 38.37 | 147.6 | 37.41 | 144.0 | 35.85 | 139.5 | 34.83 | 132.0 | 31.20 |
| | | 405.0 | 156.0 | 40.05 | 152.4 | 39.09 | 147.6 | 38.16 | 144.0 | 36.57 | 139.5 | 35.52 | 132.0 | 31.80 |
| | | 506.3 | 156.9 | 40.32 | 151.5 | 39.33 | 147.6 | 38.43 | 144.0 | 36.84 | 139.5 | 35.79 | 132.0 | 32.01 |
| | | 607.5 | 157.2 | 40.44 | 151.2 | 39.48 | 147.6 | 38.55 | 144.0 | 36.99 | 139.5 | 35.91 | 132.0 | 32.13 |
| | 10 | 162.0 | 153.9 | 35.19 | 150.9 | 34.20 | 147.3 | 33.51 | 143.7 | 32.49 | 139.2 | 31.44 | 131.7 | 28.26 |
| | | 202.5 | 154.5 | 35.31 | 151.5 | 34.35 | 147.6 | 33.63 | 144.0 | 32.55 | 139.5 | 31.41 | 132.0 | 28.29 |
| | | 405.0 | 157.5 | 35.79 | 154.2 | 34.86 | 149.4 | 34.11 | 145.8 | 32.73 | 141.0 | 31.32 | 133.2 | 28.41 |
| | | 506.3 | 158.4 | 35.67 | 153.6 | 34.86 | 150.0 | 34.26 | 146.4 | 32.85 | 141.6 | 31.44 | 133.8 | 29.40 |
| | | 607.5 | 158.7 | 35.58 | 153.3 | 34.86 | 150.3 | 34.32 | 146.7 | 32.91 | 141.9 | 31.53 | 134.1 | 29.88 |
| | 15 | 162.0 | 154.2 | 31.20 | 151.2 | 30.30 | 146.7 | 29.82 | 143.4 | 29.37 | 138.9 | 28.20 | 131.1 | 25.56 |
| | | 202.5 | 155.1 | 31.26 | 152.1 | 30.36 | 147.6 | 29.88 | 144.0 | 29.25 | 139.5 | 27.99 | 132.0 | 25.44 |
| | | 405.0 | 158.7 | 31.53 | 155.7 | 30.63 | 150.9 | 30.09 | 147.3 | 28.83 | 142.5 | 27.15 | 134.7 | 24.99 |
| | | 506.3 | 159.6 | 31.05 | 155.7 | 30.36 | 152.1 | 30.09 | 148.5 | 28.83 | 143.7 | 27.15 | 135.9 | 26.70 |
| | | 607.5 | 160.2 | 30.81 | 155.7 | 30.21 | 153.0 | 30.09 | 149.1 | 28.83 | 144.3 | 27.15 | 136.5 | 27.57 |
| | 20 | 162.0 | 158.7 | 28.08 | 155.7 | 26.88 | 150.9 | 26.16 | 146.7 | 25.77 | 141.9 | 25.47 | 134.4 | 24.18 |
| | | 202.5 | 159.6 | 28.08 | 156.6 | 26.97 | 151.8 | 26.28 | 147.6 | 25.89 | 142.8 | 25.44 | 135.0 | 24.09 |
| | | 405.0 | 163.8 | 28.08 | 160.2 | 27.36 | 155.1 | 26.70 | 151.5 | 26.28 | 146.4 | 25.35 | 138.3 | 23.73 |
| | | 506.3 | 164.4 | 27.81 | 160.2 | 27.15 | 156.3 | 26.70 | 152.1 | 26.28 | 147.3 | 25.44 | 139.2 | 24.60 |
| | | 607.5 | 164.7 | 27.69 | 160.2 | 27.03 | 156.9 | 26.70 | 152.7 | 26.28 | 147.6 | 25.47 | 139.5 | 25.05 |
| | 25 | 162.0 | 166.2 | 26.55 | 161.4 | 25.32 | 156.3 | 24.84 | 153.0 | 24.27 | 148.8 | 23.82 | 140.7 | 22.17 |
| | | 202.5 | 166.5 | 26.46 | 161.4 | 25.26 | 156.3 | 24.78 | 153.0 | 24.18 | 148.8 | 23.73 | 140.7 | 22.05 |
| | | 405.0 | 166.8 | 26.04 | 161.4 | 25.08 | 156.3 | 24.60 | 153.0 | 23.73 | 148.8 | 23.34 | 140.7 | 21.63 |
| | | 506.3 | 167.4 | 25.08 | 161.4 | 24.42 | 156.3 | 24.18 | 153.0 | 23.73 | 148.8 | 22.89 | 140.7 | 21.63 |
| | | 607.5 | 167.4 | 24.60 | 161.4 | 24.09 | 156.3 | 23.94 | 153.0 | 23.73 | 148.8 | 22.68 | 140.7 | 21.63 |
| | 30 | 162.0 | 167.4 | 25.38 | 161.4 | 24.15 | 156.3 | 23.46 | 153.0 | 22.56 | 148.8 | 22.29 | 140.7 | 20.46 |
| | | 202.5 | 167.4 | 25.17 | 161.4 | 24.00 | 156.3 | 23.34 | 153.0 | 22.47 | 148.8 | 22.05 | 140.7 | 20.34 |
| | | 405.0 | 167.4 | 24.33 | 161.4 | 23.43 | 156.3 | 22.89 | 153.0 | 22.05 | 148.8 | 21.18 | 140.7 | 19.92 |
| | | 506.3 | 167.4 | 23.55 | 161.4 | 22.89 | 156.3 | 22.47 | 153.0 | 22.05 | 148.8 | 21.18 | 140.7 | 19.53 |
| | | 607.5 | 167.4 | 23.16 | 161.4 | 22.62 | 156.3 | 22.23 | 153.0 | 22.05 | 148.8 | 21.18 | 140.7 | 19.32 |
| | 35 | 162.0 | 167.4 | 24.24 | 161.4 | 22.92 | 156.3 | 22.29 | 153.0 | 21.39 | 148.8 | 20.55 | 140.7 | 18.75 |
| | | 202.5 | 167.4 | 23.91 | 161.4 | 22.71 | 156.3 | 22.05 | 153.0 | 21.18 | 148.8 | 20.34 | 140.7 | 18.63 |
| | | 405.0 | 167.4 | 22.56 | 161.4 | 21.90 | 156.3 | 21.18 | 153.0 | 20.34 | 148.8 | 19.53 | 140.7 | 18.24 |
| | | 506.3 | 167.4 | 22.29 | 161.4 | 21.72 | 156.3 | 21.18 | 153.0 | 20.34 | 148.8 | 19.53 | 140.7 | 17.82 |
| | | 607.5 | 167.4 | 22.14 | 161.4 | 21.63 | 156.3 | 21.18 | 153.0 | 20.34 | 148.8 | 19.53 | 140.7 | 17.58 |
| | 40 | 162.0 | 167.4 | 23.52 | 161.4 | 21.87 | 156.3 | 21.00 | 153.0 | 20.13 | 148.8 | 19.29 | 140.7 | 17.46 |
| | | 202.5 | 167.4 | 23.07 | 161.4 | 21.63 | 156.3 | 20.79 | 153.0 | 19.92 | 148.8 | 19.08 | 140.7 | 17.37 |
| | | 405.0 | 167.4 | 21.27 | 161.4 | 20.61 | 156.3 | 19.92 | 153.0 | 19.08 | 148.8 | 18.24 | 140.7 | 16.98 |
| | | 506.3 | 167.4 | 21.00 | 161.4 | 20.34 | 156.3 | 19.92 | 153.0 | 19.08 | 148.8 | 18.24 | 140.7 | 16.53 |
| | | 607.5 | 167.4 | 20.88 | 161.4 | 20.22 | 156.3 | 19.92 | 153.0 | 19.08 | 148.8 | 18.24 | 140.7 | 16.32 |
| | 45 | 162.0 | 167.4 | 22.80 | 161.4 | 20.82 | 156.3 | 19.74 | 153.0 | 18.84 | 148.8 | 18.03 | 140.7 | 16.20 |
| | | 202.5 | 167.4 | 22.23 | 161.4 | 20.52 | 156.3 | 19.53 | 153.0 | 18.63 | 148.8 | 17.82 | 140.7 | 16.11 |
| | | 405.0 | 167.4 | 20.01 | 161.4 | 19.35 | 156.3 | 18.63 | 153.0 | 17.82 | 148.8 | 16.98 | 140.7 | 15.69 |
| | | 506.3 | 167.4 | 19.74 | 161.4 | 18.99 | 156.3 | 18.63 | 153.0 | 17.82 | 148.8 | 16.98 | 140.7 | 15.27 |
| | | 607.5 | 167.4 | 19.62 | 161.4 | 18.81 | 156.3 | 18.63 | 153.0 | 17.82 | 148.8 | 16.98 | 140.7 | 15.03 |
| 110 | -5 | 162.0 | 56.4 | 27.00 | 55.8 | 25.08 | 55.5 | 23.34 | 54.9 | 22.35 | 55.2 | 21.72 | 54.0 | 19.44 |
| | | 202.5 | 58.2 | 27.45 | 57.9 | 25.56 | 57.6 | 23.85 | 57.0 | 22.86 | 57.0 | 22.20 | 55.8 | 19.86 |
| | | 405.0 | 65.7 | 29.31 | 65.4 | 27.51 | 65.1 | 25.89 | 64.5 | 24.78 | 64.5 | 24.09 | 63.0 | 21.57 |
| | | 506.3 | 72.6 | 31.20 | 72.3 | 29.40 | 72.0 | 27.90 | 71.1 | 26.76 | 71.1 | 25.98 | 69.6 | 23.25 |
| | | 607.5 | 76.2 | 32.13 | 75.6 | 30.33 | 75.3 | 28.92 | 74.4 | 27.75 | 74.4 | 26.91 | 72.9 | 24.09 |
| | 0 | 162.0 | 100.5 | 36.93 | 98.4 | 35.34 | 96.3 | 34.20 | 94.5 | 32.76 | 93.6 | 31.83 | 90.0 | 28.47 |
| | | 202.5 | 101.1 | 37.02 | 99.0 | 35.43 | 96.9 | 34.29 | 95.1 | 32.85 | 94.2 | 31.92 | 90.6 | 28.56 |
| | | 405.0 | 103.5 | 37.38 | 101.4 | 35.79 | 99.0 | 34.68 | 97.2 | 33.24 | 96.3 | 32.28 | 92.7 | 28.92 |
| | | 506.3 | 105.0 | 37.38 | 102.9 | 35.79 | 100.8 | 34.68 | 98.7 | 33.24 | 97.8 | 32.28 | 93.9 | 28.92 |
| | | 607.5 | 105.9 | 37.38 | 103.8 | 35.79 | 101.4 | 34.68 | 99.3 | 33.24 | 98.7 | 32.28 | 94.8 | 28.92 |
| | 5 | 162.0 | 146.7 | 39.69 | 143.1 | 38.19 | 139.8 | 37.23 | 136.8 | 35.64 | 131.4 | 34.65 | 125.1 | 31.02 |
| | | 202.5 | 147.3 | 39.87 | 143.4 | 38.37 | 139.8 | 37.41 | 136.8 | 35.85 | 131.4 | 34.83 | 125.1 | 31.20 |
| | | 405.0 | 149.1 | 40.56 | 144.6 | 39.09 | 140.1 | 38.16 | 136.8 | 36.57 | 131.4 | 35.52 | 125.1 | 31.80 |
| | | 506.3 | 150.0 | 40.83 | 144.9 | 39.33 | 140.1 | 38.43 | 136.8 | 36.84 | 131.4 | 35.79 | 125.1 | 32.01 |
| | | 607.5 | 150.6 | 40.98 | 145.2 | 39.48 | 140.1 | 38.55 | 136.8 | 36.99 | 131.4 | 35.91 | 125.1 | 32.13 |
| | 10 | 162.0 | 147.3 | 35.58 | 143.7 | 34.38 | 139.8 | 33.63 | 136.5 | 32.49 | 131.1 | 31.44 | 124.8 | 28.26 |
| | | 202.5 | 147.9 | 35.67 | 144.0 | 34.47 | 139.8 | 33.72 | 136.8 | 32.55 | 131.4 | 31.41 | 125.1 | 28.29 |
| | | 405.0 | 150.0 | 35.91 | 145.5 | 34.86 | 140.7 | 34.11 | 137.7 | 32.73 | 132.3 | 31.32 | 125.7 | 28.41 |
| | | 506.3 | 150.9 | 35.91 | 146.1 | 34.86 | 141.3 | 34.05 | 137.7 | 32.64 | 132.6 | 31.44 | 126.0 | 28.74 |
| | | 607.5 | 151.2 | 35.91 | 146.4 | 34.86 | 141.6 | 33.99 | 138.0 | 32.58 | 132.6 | 31.53 | 126.3 | 28.89 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 162.0 | 147.6 | 31.50 | 143.7 | 30.63 | 139.5 | 30.09 | 136.2 | 29.37 | 131.1 | 28.20 | 124.8 | 25.56 |
| | | 202.5 | 148.2 | 31.44 | 144.3 | 30.63 | 140.1 | 30.09 | 136.8 | 29.25 | 131.4 | 27.99 | 125.1 | 25.44 |
| | | 405.0 | 150.9 | 31.26 | 146.4 | 30.63 | 141.6 | 30.09 | 138.3 | 28.83 | 133.2 | 27.15 | 126.3 | 24.99 |
| | | 506.3 | 151.5 | 31.05 | 147.3 | 30.36 | 142.5 | 29.70 | 138.9 | 28.41 | 133.5 | 27.15 | 126.9 | 25.44 |
| | | 607.5 | 152.1 | 30.93 | 147.6 | 30.21 | 142.8 | 29.49 | 139.2 | 28.23 | 133.8 | 27.15 | 127.5 | 25.65 |
| | 20 | 162.0 | 150.3 | 27.18 | 146.4 | 26.55 | 141.6 | 25.89 | 137.7 | 25.44 | 132.9 | 24.72 | 125.7 | 23.13 |
| | | 202.5 | 151.2 | 27.24 | 146.7 | 26.55 | 141.9 | 25.89 | 138.3 | 25.44 | 133.2 | 24.60 | 126.3 | 23.07 |
| | | 405.0 | 154.5 | 27.45 | 148.8 | 26.55 | 143.7 | 25.89 | 140.4 | 25.44 | 134.7 | 24.18 | 128.1 | 22.89 |
| | | 506.3 | 155.4 | 27.45 | 150.0 | 26.55 | 144.6 | 25.89 | 140.7 | 24.99 | 135.6 | 24.18 | 128.7 | 22.89 |
| | | 607.5 | 155.7 | 27.45 | 150.6 | 26.55 | 144.9 | 25.89 | 141.0 | 24.78 | 135.9 | 24.18 | 128.7 | 22.89 |
| | 25 | 162.0 | 155.1 | 24.75 | 150.6 | 23.82 | 144.6 | 23.46 | 141.3 | 22.56 | 136.5 | 21.72 | 129.0 | 19.92 |
| | | 202.5 | 155.4 | 24.69 | 150.6 | 23.73 | 144.6 | 23.34 | 141.3 | 22.47 | 136.5 | 21.63 | 129.0 | 19.92 |
| | | 405.0 | 156.6 | 24.51 | 150.6 | 23.34 | 144.6 | 22.89 | 141.3 | 22.05 | 136.5 | 21.18 | 129.0 | 19.92 |
| | | 506.3 | 157.5 | 24.51 | 150.6 | 23.43 | 144.6 | 22.47 | 141.3 | 22.05 | 136.5 | 20.79 | 129.0 | 19.53 |
| | | 607.5 | 157.8 | 24.51 | 150.6 | 23.46 | 144.6 | 22.23 | 141.3 | 22.05 | 136.5 | 20.58 | 129.0 | 19.32 |
| | 30 | 162.0 | 157.5 | 22.56 | 150.6 | 21.72 | 144.6 | 20.91 | 141.3 | 20.46 | 136.5 | 19.20 | 129.0 | 17.91 |
| | | 202.5 | 157.5 | 22.47 | 150.6 | 21.63 | 144.6 | 20.79 | 141.3 | 20.34 | 136.5 | 19.08 | 129.0 | 17.82 |
| | | 405.0 | 157.5 | 22.05 | 150.6 | 21.18 | 144.6 | 20.34 | 141.3 | 19.92 | 136.5 | 18.63 | 129.0 | 17.37 |
| | | 506.3 | 157.5 | 21.90 | 150.6 | 20.79 | 144.6 | 19.92 | 141.3 | 19.53 | 136.5 | 18.63 | 129.0 | 17.37 |
| | | 607.5 | 157.5 | 21.81 | 150.6 | 20.58 | 144.6 | 19.68 | 141.3 | 19.32 | 136.5 | 18.63 | 129.0 | 17.37 |
| | 35 | 162.0 | 157.5 | 21.39 | 150.6 | 20.01 | 144.6 | 19.20 | 141.3 | 18.36 | 136.5 | 17.46 | 129.0 | 16.20 |
| | | 202.5 | 157.5 | 21.18 | 150.6 | 19.92 | 144.6 | 19.08 | 141.3 | 18.24 | 136.5 | 17.37 | 129.0 | 16.11 |
| | | 405.0 | 157.5 | 20.34 | 150.6 | 19.53 | 144.6 | 18.63 | 141.3 | 17.82 | 136.5 | 16.98 | 129.0 | 15.69 |
| | | 506.3 | 157.5 | 19.83 | 150.6 | 19.08 | 144.6 | 18.24 | 141.3 | 17.82 | 136.5 | 16.98 | 129.0 | 15.69 |
| | | 607.5 | 157.5 | 19.56 | 150.6 | 18.87 | 144.6 | 18.06 | 141.3 | 17.82 | 136.5 | 16.98 | 129.0 | 15.69 |
| | 40 | 162.0 | 157.5 | 20.13 | 150.6 | 19.29 | 144.6 | 18.03 | 141.3 | 17.10 | 136.5 | 16.20 | 129.0 | 14.94 |
| | | 202.5 | 157.5 | 19.92 | 150.6 | 19.08 | 144.6 | 17.82 | 141.3 | 16.98 | 136.5 | 16.11 | 129.0 | 14.82 |
| | | 405.0 | 157.5 | 19.08 | 150.6 | 18.24 | 144.6 | 16.98 | 141.3 | 16.53 | 136.5 | 15.69 | 129.0 | 14.43 |
| | | 506.3 | 157.5 | 18.81 | 150.6 | 17.82 | 144.6 | 16.98 | 141.3 | 16.11 | 136.5 | 15.27 | 129.0 | 13.98 |
| | | 607.5 | 157.5 | 18.69 | 150.6 | 17.58 | 144.6 | 16.98 | 141.3 | 15.87 | 136.5 | 15.03 | 129.0 | 13.77 |
| | 45 | 162.0 | 157.5 | 18.84 | 150.6 | 18.57 | 144.6 | 16.86 | 141.3 | 15.81 | 136.5 | 14.94 | 129.0 | 13.65 |
| | | 202.5 | 157.5 | 18.63 | 150.6 | 18.24 | 144.6 | 16.53 | 141.3 | 15.69 | 136.5 | 14.82 | 129.0 | 13.56 |
| | | 405.0 | 157.5 | 17.82 | 150.6 | 16.98 | 144.6 | 15.27 | 141.3 | 15.27 | 136.5 | 14.43 | 129.0 | 13.17 |
| | | 506.3 | 157.5 | 17.82 | 150.6 | 16.53 | 144.6 | 15.69 | 141.3 | 14.43 | 136.5 | 13.56 | 129.0 | 12.27 |
| | | 607.5 | 157.5 | 17.82 | 150.6 | 16.32 | 144.6 | 15.93 | 141.3 | 14.01 | 136.5 | 13.11 | 129.0 | 11.85 |
| 100 | -5 | 162.0 | 53.1 | 27.00 | 52.8 | 25.44 | 52.5 | 23.34 | 52.2 | 22.35 | 51.6 | 21.36 | 50.7 | 19.44 |
| | | 202.5 | 54.9 | 27.45 | 54.6 | 25.92 | 54.3 | 23.85 | 54.0 | 22.86 | 53.4 | 21.84 | 52.5 | 19.86 |
| | | 405.0 | 62.4 | 29.31 | 61.8 | 27.84 | 61.5 | 25.89 | 60.9 | 24.78 | 60.3 | 23.73 | 59.4 | 21.57 |
| | | 506.3 | 68.7 | 31.20 | 68.4 | 29.79 | 67.8 | 27.90 | 67.2 | 26.76 | 66.9 | 25.56 | 65.7 | 23.25 |
| | | 607.5 | 72.0 | 32.13 | 71.4 | 30.75 | 71.1 | 28.92 | 70.5 | 27.75 | 70.2 | 26.49 | 68.7 | 24.09 |
| | 0 | 162.0 | 95.1 | 36.93 | 93.0 | 35.82 | 90.9 | 34.20 | 89.4 | 32.76 | 87.9 | 31.35 | 84.9 | 28.47 |
| | | 202.5 | 95.7 | 37.02 | 93.6 | 35.91 | 91.5 | 34.29 | 90.0 | 32.85 | 88.5 | 31.44 | 85.2 | 28.56 |
| | | 405.0 | 97.8 | 37.38 | 95.7 | 36.27 | 93.6 | 34.68 | 92.1 | 33.24 | 90.6 | 31.80 | 87.3 | 28.92 |
| | | 506.3 | 99.3 | 37.38 | 97.2 | 36.27 | 95.1 | 34.68 | 93.3 | 33.24 | 91.8 | 31.80 | 88.5 | 28.92 |
| | | 607.5 | 100.2 | 37.38 | 98.1 | 36.27 | 96.0 | 34.68 | 94.2 | 33.24 | 92.4 | 31.80 | 89.4 | 28.92 |
| | 5 | 162.0 | 140.4 | 39.69 | 135.6 | 38.73 | 132.0 | 37.23 | 129.6 | 35.64 | 123.3 | 34.11 | 117.6 | 31.02 |
| | | 202.5 | 140.7 | 39.87 | 135.9 | 38.91 | 132.3 | 37.41 | 129.6 | 35.85 | 123.3 | 34.29 | 117.6 | 31.20 |
| | | 405.0 | 142.8 | 40.56 | 136.8 | 39.60 | 132.3 | 38.16 | 129.6 | 36.57 | 123.3 | 35.01 | 117.6 | 31.80 |
| | | 506.3 | 143.7 | 40.83 | 137.1 | 39.87 | 132.3 | 38.43 | 129.6 | 36.84 | 123.3 | 35.22 | 117.6 | 32.01 |
| | | 607.5 | 144.0 | 40.98 | 137.4 | 39.99 | 132.3 | 38.55 | 129.6 | 36.99 | 123.3 | 35.34 | 117.6 | 32.13 |
| | 10 | 162.0 | 141.0 | 35.49 | 136.2 | 34.71 | 132.3 | 33.63 | 129.6 | 32.49 | 123.3 | 30.90 | 117.6 | 28.26 |
| | | 202.5 | 141.3 | 35.67 | 136.2 | 34.83 | 132.3 | 33.72 | 129.6 | 32.55 | 123.3 | 30.93 | 117.6 | 28.29 |
| | | 405.0 | 142.8 | 36.33 | 137.1 | 35.28 | 132.3 | 34.11 | 129.6 | 32.73 | 123.3 | 31.05 | 117.6 | 28.41 |
| | | 506.3 | 143.7 | 36.18 | 137.7 | 35.28 | 132.3 | 34.05 | 129.6 | 32.64 | 123.3 | 30.96 | 117.6 | 28.29 |
| | | 607.5 | 144.3 | 36.12 | 138.0 | 35.28 | 132.3 | 33.99 | 129.6 | 32.58 | 123.3 | 30.93 | 117.6 | 28.23 |
| | 15 | 162.0 | 141.9 | 31.29 | 136.5 | 30.78 | 132.3 | 30.09 | 129.6 | 29.37 | 123.3 | 27.66 | 117.6 | 25.56 |
| | | 202.5 | 141.9 | 31.44 | 136.8 | 30.78 | 132.3 | 30.09 | 129.6 | 29.25 | 123.3 | 27.54 | 117.6 | 25.44 |
| | | 405.0 | 142.8 | 32.07 | 137.1 | 30.87 | 132.3 | 30.09 | 129.6 | 28.83 | 123.3 | 27.15 | 117.6 | 24.99 |
| | | 506.3 | 144.0 | 31.53 | 137.7 | 30.63 | 132.3 | 29.70 | 129.6 | 28.41 | 123.3 | 26.70 | 117.6 | 24.60 |
| | | 607.5 | 144.6 | 31.26 | 138.3 | 30.48 | 132.3 | 29.49 | 129.6 | 28.23 | 123.3 | 26.49 | 117.6 | 24.42 |
| | 20 | 162.0 | 142.5 | 26.76 | 137.4 | 26.07 | 132.3 | 25.44 | 129.6 | 25.11 | 123.3 | 23.46 | 117.6 | 22.29 |
| | | 202.5 | 143.1 | 26.88 | 137.4 | 26.10 | 132.3 | 25.44 | 129.6 | 24.99 | 123.3 | 23.34 | 117.6 | 22.05 |
| | | 405.0 | 145.2 | 27.36 | 137.7 | 26.19 | 132.3 | 25.44 | 129.6 | 24.60 | 123.3 | 22.89 | 117.6 | 21.18 |
| | | 506.3 | 146.1 | 26.88 | 139.2 | 25.98 | 132.3 | 24.99 | 129.6 | 24.18 | 123.3 | 22.47 | 117.6 | 20.79 |
| | | 607.5 | 146.4 | 26.64 | 139.8 | 25.86 | 132.3 | 24.78 | 129.6 | 23.94 | 123.3 | 22.23 | 117.6 | 20.58 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 162.0 | 144.3 | 23.40 | 139.5 | 22.68 | 132.3 | 21.72 | 129.6 | 20.91 | 123.3 | 19.62 | 117.6 | 17.82 |
| | | 202.5 | 144.9 | 23.43 | 139.5 | 22.56 | 132.3 | 21.63 | 129.6 | 20.79 | 123.3 | 19.53 | 117.6 | 17.82 |
| | | 405.0 | 147.0 | 23.52 | 139.5 | 22.05 | 132.3 | 21.18 | 129.6 | 20.34 | 123.3 | 19.08 | 117.6 | 17.82 |
| | | 506.3 | 147.6 | 22.98 | 139.5 | 21.90 | 132.3 | 20.79 | 129.6 | 19.92 | 123.3 | 19.08 | 117.6 | 17.37 |
| | | 607.5 | 148.2 | 22.71 | 139.5 | 21.81 | 132.3 | 20.58 | 129.6 | 19.68 | 123.3 | 19.08 | 117.6 | 17.16 |
| | 30 | 162.0 | 147.6 | 21.30 | 139.5 | 19.62 | 132.3 | 18.30 | 129.6 | 17.91 | 123.3 | 16.53 | 117.6 | 15.81 |
| | | 202.5 | 147.6 | 21.18 | 139.5 | 19.53 | 132.3 | 18.24 | 129.6 | 17.82 | 123.3 | 16.53 | 117.6 | 15.69 |
| | | 405.0 | 147.6 | 20.79 | 139.5 | 19.08 | 132.3 | 18.06 | 129.6 | 17.37 | 123.3 | 16.53 | 117.6 | 15.27 |
| | | 506.3 | 147.6 | 20.34 | 139.5 | 19.08 | 132.3 | 17.82 | 129.6 | 17.37 | 123.3 | 16.11 | 117.6 | 15.27 |
| | | 607.5 | 147.6 | 20.13 | 139.5 | 19.08 | 132.3 | 17.67 | 129.6 | 17.37 | 123.3 | 15.87 | 117.6 | 15.27 |
| | 35 | 162.0 | 147.6 | 19.74 | 139.5 | 18.03 | 132.3 | 16.14 | 129.6 | 15.81 | 123.3 | 14.94 | 117.6 | 13.65 |
| | | 202.5 | 147.6 | 19.53 | 139.5 | 17.82 | 132.3 | 16.11 | 129.6 | 15.69 | 123.3 | 14.82 | 117.6 | 13.56 |
| | | 405.0 | 147.6 | 18.63 | 139.5 | 16.98 | 132.3 | 15.93 | 129.6 | 15.27 | 123.3 | 14.43 | 117.6 | 13.17 |
| | | 506.3 | 147.6 | 18.63 | 139.5 | 16.98 | 132.3 | 15.69 | 129.6 | 15.27 | 123.3 | 14.43 | 117.6 | 13.17 |
| | | 607.5 | 147.6 | 18.63 | 139.5 | 16.98 | 132.3 | 15.60 | 129.6 | 15.27 | 123.3 | 14.43 | 117.6 | 13.17 |
| | 40 | 162.0 | 147.6 | 18.48 | 139.5 | 16.74 | 132.3 | 14.46 | 129.6 | 14.10 | 123.3 | 13.26 | 117.6 | 12.39 |
| | | 202.5 | 147.6 | 18.24 | 139.5 | 16.53 | 132.3 | 14.43 | 129.6 | 13.98 | 123.3 | 13.17 | 117.6 | 12.27 |
| | | 405.0 | 147.6 | 17.37 | 139.5 | 15.69 | 132.3 | 14.25 | 129.6 | 13.56 | 123.3 | 12.72 | 117.6 | 11.88 |
| | | 506.3 | 147.6 | 16.98 | 139.5 | 15.69 | 132.3 | 13.98 | 129.6 | 13.56 | 123.3 | 12.72 | 117.6 | 11.88 |
| | | 607.5 | 147.6 | 16.77 | 139.5 | 15.69 | 132.3 | 13.86 | 129.6 | 13.56 | 123.3 | 12.72 | 117.6 | 11.88 |
| | 45 | 162.0 | 147.6 | 17.19 | 139.5 | 15.48 | 132.3 | 12.75 | 129.6 | 12.39 | 123.3 | 11.55 | 117.6 | 11.10 |
| | | 202.5 | 147.6 | 16.98 | 139.5 | 15.27 | 132.3 | 12.72 | 129.6 | 12.27 | 123.3 | 11.46 | 117.6 | 11.01 |
| | | 405.0 | 147.6 | 16.11 | 139.5 | 14.43 | 132.3 | 12.54 | 129.6 | 11.88 | 123.3 | 11.01 | 117.6 | 10.62 |
| | | 506.3 | 147.6 | 15.27 | 139.5 | 14.43 | 132.3 | 12.27 | 129.6 | 11.88 | 123.3 | 11.01 | 117.6 | 10.62 |
| | | 607.5 | 147.6 | 14.85 | 139.5 | 14.43 | 132.3 | 12.15 | 129.6 | 11.88 | 123.3 | 11.01 | 117.6 | 10.62 |
| 90 | -5 | 162.0 | 50.1 | 25.05 | 48.6 | 22.80 | 47.1 | 20.04 | 46.8 | 19.11 | 46.5 | 18.42 | 45.6 | 16.53 |
| | | 202.5 | 51.9 | 25.47 | 50.4 | 23.25 | 48.9 | 20.49 | 48.6 | 19.53 | 48.0 | 18.81 | 47.4 | 16.89 |
| | | 405.0 | 58.8 | 27.18 | 57.0 | 24.96 | 55.2 | 22.23 | 54.9 | 21.18 | 54.6 | 20.43 | 53.4 | 18.33 |
| | | 506.3 | 65.1 | 28.92 | 63.0 | 26.70 | 60.9 | 24.00 | 60.6 | 22.86 | 60.3 | 22.02 | 59.1 | 19.77 |
| | | 607.5 | 68.1 | 29.76 | 66.0 | 27.60 | 63.9 | 24.87 | 63.3 | 23.70 | 63.0 | 22.80 | 61.8 | 20.52 |
| | 0 | 162.0 | 89.7 | 34.11 | 85.8 | 32.01 | 81.6 | 29.40 | 80.4 | 28.05 | 79.2 | 27.00 | 76.2 | 24.24 |
| | | 202.5 | 90.3 | 34.20 | 86.1 | 32.10 | 82.2 | 29.49 | 81.0 | 28.11 | 79.5 | 27.06 | 76.8 | 24.30 |
| | | 405.0 | 92.4 | 34.56 | 88.2 | 32.46 | 84.3 | 29.79 | 82.8 | 28.41 | 81.6 | 27.36 | 78.6 | 24.57 |
| | | 506.3 | 93.9 | 34.56 | 89.4 | 32.46 | 85.5 | 29.79 | 84.0 | 28.41 | 82.8 | 27.36 | 79.8 | 24.57 |
| | | 607.5 | 94.5 | 34.56 | 90.3 | 32.46 | 86.1 | 29.79 | 84.6 | 28.41 | 83.4 | 27.36 | 80.4 | 24.57 |
| | 5 | 162.0 | 126.9 | 36.63 | 122.7 | 34.56 | 118.8 | 32.01 | 116.4 | 30.51 | 111.3 | 29.37 | 105.9 | 26.37 |
| | | 202.5 | 126.9 | 36.81 | 122.7 | 34.74 | 118.8 | 32.16 | 116.4 | 30.66 | 111.3 | 29.52 | 105.9 | 26.49 |
| | | 405.0 | 127.5 | 37.47 | 122.4 | 35.40 | 118.8 | 32.76 | 116.4 | 31.26 | 111.3 | 30.12 | 105.9 | 27.03 |
| | | 506.3 | 128.1 | 37.68 | 122.7 | 35.61 | 118.8 | 33.03 | 116.4 | 31.50 | 111.3 | 30.36 | 105.9 | 27.24 |
| | | 607.5 | 128.7 | 37.80 | 123.0 | 35.73 | 118.8 | 33.15 | 116.4 | 31.59 | 111.3 | 30.45 | 105.9 | 27.36 |
| | 10 | 162.0 | 127.5 | 32.34 | 123.3 | 30.75 | 118.8 | 28.95 | 116.4 | 27.78 | 111.3 | 26.64 | 105.9 | 24.00 |
| | | 202.5 | 127.5 | 32.37 | 123.0 | 30.78 | 118.8 | 28.98 | 116.4 | 27.81 | 111.3 | 26.61 | 105.9 | 24.03 |
| | | 405.0 | 127.2 | 32.46 | 122.4 | 30.93 | 118.8 | 29.13 | 116.4 | 27.93 | 111.3 | 26.55 | 105.9 | 24.12 |
| | | 506.3 | 128.1 | 32.37 | 122.7 | 30.84 | 118.8 | 29.04 | 116.4 | 27.84 | 111.3 | 26.61 | 105.9 | 24.21 |
| | | 607.5 | 128.4 | 32.34 | 123.0 | 30.78 | 118.8 | 28.98 | 116.4 | 27.81 | 111.3 | 26.67 | 105.9 | 24.27 |
| | 15 | 162.0 | 128.1 | 28.02 | 123.6 | 27.00 | 118.8 | 25.98 | 116.4 | 25.11 | 111.3 | 23.94 | 105.9 | 21.72 |
| | | 202.5 | 128.1 | 27.90 | 123.3 | 26.88 | 118.8 | 25.89 | 116.4 | 24.99 | 111.3 | 23.73 | 105.9 | 21.63 |
| | | 405.0 | 127.2 | 27.45 | 122.7 | 26.46 | 118.8 | 25.44 | 116.4 | 24.60 | 111.3 | 22.89 | 105.9 | 21.18 |
| | | 506.3 | 128.1 | 27.06 | 123.0 | 26.04 | 118.8 | 24.99 | 116.4 | 24.18 | 111.3 | 22.89 | 105.9 | 21.18 |
| | | 607.5 | 128.4 | 26.85 | 123.0 | 25.86 | 118.8 | 24.78 | 116.4 | 23.94 | 111.3 | 22.89 | 105.9 | 21.18 |
| | 20 | 162.0 | 129.0 | 23.64 | 124.2 | 22.95 | 118.8 | 22.17 | 116.4 | 21.30 | 111.3 | 20.55 | 105.9 | 19.29 |
| | | 202.5 | 129.0 | 23.64 | 123.9 | 22.89 | 118.8 | 22.05 | 116.4 | 21.18 | 111.3 | 20.34 | 105.9 | 19.08 |
| | | 405.0 | 128.4 | 23.64 | 123.0 | 22.62 | 118.8 | 21.63 | 116.4 | 20.79 | 111.3 | 19.53 | 105.9 | 18.24 |
| | | 506.3 | 128.7 | 23.25 | 123.3 | 22.47 | 118.8 | 21.63 | 116.4 | 20.79 | 111.3 | 19.53 | 105.9 | 18.24 |
| | | 607.5 | 129.0 | 23.04 | 123.6 | 22.38 | 118.8 | 21.63 | 116.4 | 20.79 | 111.3 | 19.53 | 105.9 | 18.24 |
| | 25 | 162.0 | 131.1 | 20.67 | 125.7 | 19.56 | 118.8 | 18.75 | 116.4 | 17.82 | 111.3 | 17.10 | 105.9 | 15.81 |
| | | 202.5 | 131.4 | 20.61 | 125.7 | 19.53 | 118.8 | 18.63 | 116.4 | 17.82 | 111.3 | 16.98 | 105.9 | 15.69 |
| | | 405.0 | 132.6 | 20.43 | 125.7 | 19.35 | 118.8 | 18.24 | 116.4 | 17.82 | 111.3 | 16.53 | 105.9 | 15.27 |
| | | 506.3 | 133.2 | 19.92 | 125.7 | 18.90 | 118.8 | 18.24 | 116.4 | 17.37 | 111.3 | 16.53 | 105.9 | 15.27 |
| | | 607.5 | 133.5 | 19.65 | 125.7 | 18.69 | 118.8 | 18.24 | 116.4 | 17.16 | 111.3 | 16.53 | 105.9 | 15.27 |
| | 30 | 162.0 | 133.2 | 18.75 | 125.7 | 17.46 | 118.8 | 16.20 | 116.4 | 15.81 | 111.3 | 14.94 | 105.9 | 13.56 |
| | | 202.5 | 133.2 | 18.63 | 125.7 | 17.37 | 118.8 | 16.11 | 116.4 | 15.69 | 111.3 | 14.82 | 105.9 | 13.56 |
| | | 405.0 | 133.2 | 18.24 | 125.7 | 16.98 | 118.8 | 15.69 | 116.4 | 15.27 | 111.3 | 14.43 | 105.9 | 13.56 |
| | | 506.3 | 133.2 | 17.82 | 125.7 | 16.53 | 118.8 | 15.69 | 116.4 | 15.27 | 111.3 | 14.43 | 105.9 | 13.17 |
| | | 607.5 | 133.2 | 17.58 | 125.7 | 16.32 | 118.8 | 15.69 | 116.4 | 15.27 | 111.3 | 14.43 | 105.9 | 12.96 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 162.0 | 133.2 | 17.10 | 125.7 | 15.81 | 118.8 | 14.55 | 116.4 | 14.10 | 111.3 | 13.26 | 105.9 | 12.39 |
| | | 202.5 | 133.2 | 16.98 | 125.7 | 15.69 | 118.8 | 14.43 | 116.4 | 13.98 | 111.3 | 13.17 | 105.9 | 12.27 |
| | | 405.0 | 133.2 | 16.53 | 125.7 | 15.27 | 118.8 | 13.98 | 116.4 | 13.56 | 111.3 | 12.72 | 105.9 | 11.88 |
| | | 506.3 | 133.2 | 16.11 | 125.7 | 14.82 | 118.8 | 13.56 | 116.4 | 13.17 | 111.3 | 12.72 | 105.9 | 11.88 |
| | | 607.5 | 133.2 | 15.87 | 125.7 | 14.61 | 118.8 | 13.32 | 116.4 | 12.96 | 111.3 | 12.72 | 105.9 | 11.88 |
| | 40 | 162.0 | 133.2 | 15.93 | 125.7 | 14.55 | 118.8 | 12.84 | 116.4 | 12.39 | 111.3 | 12.00 | 105.9 | 11.10 |
| | | 202.5 | 133.2 | 15.69 | 125.7 | 14.43 | 118.8 | 12.72 | 116.4 | 12.27 | 111.3 | 11.88 | 105.9 | 11.01 |
| | | 405.0 | 133.2 | 14.82 | 125.7 | 13.98 | 118.8 | 12.27 | 116.4 | 11.88 | 111.3 | 11.46 | 105.9 | 10.62 |
| | | 506.3 | 133.2 | 14.82 | 125.7 | 13.98 | 118.8 | 12.27 | 116.4 | 11.88 | 111.3 | 11.46 | 105.9 | 10.62 |
| | | 607.5 | 133.2 | 14.82 | 125.7 | 13.98 | 118.8 | 12.27 | 116.4 | 11.88 | 111.3 | 11.46 | 105.9 | 10.62 |
| | 45 | 162.0 | 133.2 | 14.76 | 125.7 | 13.26 | 118.8 | 11.10 | 116.4 | 10.74 | 111.3 | 10.74 | 105.9 | 9.84 |
| | | 202.5 | 133.2 | 14.43 | 125.7 | 13.17 | 118.8 | 11.01 | 116.4 | 10.62 | 111.3 | 10.62 | 105.9 | 9.75 |
| | | 405.0 | 133.2 | 13.17 | 125.7 | 12.72 | 118.8 | 10.62 | 116.4 | 10.17 | 111.3 | 10.17 | 105.9 | 9.33 |
| | | 506.3 | 133.2 | 13.56 | 125.7 | 13.17 | 118.8 | 11.01 | 116.4 | 10.62 | 111.3 | 10.17 | 105.9 | 9.33 |
| | | 607.5 | 133.2 | 13.74 | 125.7 | 13.38 | 118.8 | 11.22 | 116.4 | 10.83 | 111.3 | 10.17 | 105.9 | 9.33 |
| 80 | -5 | 162.0 | 47.4 | 17.85 | 44.4 | 17.16 | 42.0 | 16.44 | 41.7 | 15.90 | 41.4 | 15.15 | 40.5 | 13.95 |
| | | 202.5 | 49.2 | 18.24 | 45.9 | 17.55 | 43.5 | 16.80 | 43.2 | 16.23 | 42.9 | 15.48 | 42.0 | 14.25 |
| | | 405.0 | 55.5 | 19.83 | 52.2 | 19.05 | 49.2 | 18.21 | 48.6 | 17.58 | 48.6 | 16.80 | 47.4 | 15.45 |
| | | 506.3 | 61.5 | 21.36 | 57.6 | 20.52 | 54.3 | 19.65 | 53.7 | 18.99 | 53.4 | 18.12 | 52.5 | 16.68 |
| | | 607.5 | 64.5 | 22.14 | 60.3 | 21.27 | 57.0 | 20.37 | 56.4 | 19.71 | 56.1 | 18.78 | 54.9 | 17.28 |
| | 0 | 162.0 | 84.9 | 26.19 | 78.3 | 25.14 | 72.9 | 24.09 | 71.4 | 23.28 | 70.5 | 22.17 | 67.8 | 20.43 |
| | | 202.5 | 85.2 | 26.28 | 78.6 | 25.23 | 73.2 | 24.18 | 72.0 | 23.34 | 70.8 | 22.23 | 68.1 | 20.49 |
| | | 405.0 | 87.3 | 26.58 | 80.4 | 25.53 | 75.0 | 24.42 | 73.5 | 23.61 | 72.6 | 22.50 | 69.9 | 20.70 |
| | | 506.3 | 88.5 | 26.58 | 81.6 | 25.53 | 76.2 | 24.42 | 74.7 | 23.61 | 73.8 | 22.50 | 70.8 | 20.70 |
| | | 607.5 | 89.1 | 26.58 | 82.2 | 25.53 | 76.8 | 24.42 | 75.3 | 23.61 | 74.4 | 22.50 | 71.4 | 20.70 |
| | 5 | 162.0 | 117.3 | 28.50 | 110.7 | 27.42 | 105.9 | 26.16 | 103.5 | 25.32 | 99.0 | 24.12 | 94.2 | 22.20 |
| | | 202.5 | 117.6 | 28.65 | 111.0 | 27.54 | 105.9 | 26.31 | 103.5 | 25.44 | 99.0 | 24.27 | 94.2 | 22.32 |
| | | 405.0 | 118.5 | 29.25 | 111.6 | 28.08 | 105.9 | 26.88 | 103.5 | 25.98 | 99.0 | 24.75 | 94.2 | 22.80 |
| | | 506.3 | 118.5 | 29.43 | 111.6 | 28.29 | 105.9 | 27.06 | 103.5 | 26.13 | 99.0 | 24.90 | 94.2 | 22.95 |
| | | 607.5 | 118.5 | 29.52 | 111.6 | 28.41 | 105.9 | 27.15 | 103.5 | 26.22 | 99.0 | 24.99 | 94.2 | 23.01 |
| | 10 | 162.0 | 117.9 | 26.22 | 111.0 | 25.02 | 105.9 | 23.76 | 103.5 | 23.10 | 99.0 | 21.87 | 94.2 | 20.25 |
| | | 202.5 | 117.9 | 26.19 | 111.3 | 24.99 | 105.9 | 23.76 | 103.5 | 23.13 | 99.0 | 21.90 | 94.2 | 20.25 |
| | | 405.0 | 118.5 | 26.04 | 111.6 | 24.87 | 105.9 | 23.82 | 103.5 | 23.16 | 99.0 | 21.93 | 94.2 | 20.31 |
| | | 506.3 | 118.5 | 25.98 | 111.6 | 24.96 | 105.9 | 23.91 | 103.5 | 23.04 | 99.0 | 21.81 | 94.2 | 20.19 |
| | | 607.5 | 118.5 | 25.92 | 111.6 | 24.99 | 105.9 | 23.94 | 103.5 | 22.95 | 99.0 | 21.72 | 94.2 | 20.10 |
| | 15 | 162.0 | 118.5 | 23.94 | 111.6 | 22.68 | 105.9 | 21.30 | 103.5 | 20.91 | 99.0 | 19.62 | 94.2 | 18.36 |
| | | 202.5 | 118.5 | 23.73 | 111.6 | 22.47 | 105.9 | 21.18 | 103.5 | 20.79 | 99.0 | 19.53 | 94.2 | 18.24 |
| | | 405.0 | 118.5 | 22.89 | 111.6 | 21.63 | 105.9 | 20.79 | 103.5 | 20.34 | 99.0 | 19.08 | 94.2 | 17.82 |
| | | 506.3 | 118.5 | 22.47 | 111.6 | 21.63 | 105.9 | 20.79 | 103.5 | 19.92 | 99.0 | 18.63 | 94.2 | 17.37 |
| | | 607.5 | 118.5 | 22.23 | 111.6 | 21.63 | 105.9 | 20.79 | 103.5 | 19.68 | 99.0 | 18.42 | 94.2 | 17.16 |
| | 20 | 162.0 | 118.5 | 20.01 | 111.6 | 19.20 | 105.9 | 18.24 | 103.5 | 17.91 | 99.0 | 17.10 | 94.2 | 15.81 |
| | | 202.5 | 118.5 | 19.92 | 111.6 | 19.08 | 105.9 | 18.24 | 103.5 | 17.82 | 99.0 | 16.98 | 94.2 | 15.69 |
| | | 405.0 | 118.5 | 19.53 | 111.6 | 18.63 | 105.9 | 18.24 | 103.5 | 17.37 | 99.0 | 16.53 | 94.2 | 15.27 |
| | | 506.3 | 118.5 | 19.08 | 111.6 | 18.24 | 105.9 | 17.82 | 103.5 | 17.37 | 99.0 | 16.11 | 94.2 | 15.27 |
| | | 607.5 | 118.5 | 18.87 | 111.6 | 18.06 | 105.9 | 17.58 | 103.5 | 17.37 | 99.0 | 15.87 | 94.2 | 15.27 |
| | 25 | 162.0 | 118.5 | 17.91 | 111.6 | 16.65 | 105.9 | 15.69 | 103.5 | 15.36 | 99.0 | 14.55 | 94.2 | 13.65 |
| | | 202.5 | 118.5 | 17.82 | 111.6 | 16.53 | 105.9 | 15.69 | 103.5 | 15.27 | 99.0 | 14.43 | 94.2 | 13.56 |
| | | 405.0 | 118.5 | 17.37 | 111.6 | 16.11 | 105.9 | 15.69 | 103.5 | 14.82 | 99.0 | 13.98 | 94.2 | 13.17 |
| | | 506.3 | 118.5 | 16.98 | 111.6 | 16.11 | 105.9 | 15.27 | 103.5 | 14.82 | 99.0 | 13.98 | 94.2 | 13.17 |
| | | 607.5 | 118.5 | 16.77 | 111.6 | 16.11 | 105.9 | 15.03 | 103.5 | 14.82 | 99.0 | 13.98 | 94.2 | 13.17 |
| | 30 | 162.0 | 118.5 | 15.81 | 111.6 | 14.94 | 105.9 | 14.10 | 103.5 | 13.65 | 99.0 | 12.84 | 94.2 | 12.00 |
| | | 202.5 | 118.5 | 15.69 | 111.6 | 14.82 | 105.9 | 13.98 | 103.5 | 13.56 | 99.0 | 12.72 | 94.2 | 11.88 |
| | | 405.0 | 118.5 | 15.27 | 111.6 | 14.43 | 105.9 | 13.56 | 103.5 | 13.17 | 99.0 | 12.27 | 94.2 | 11.46 |
| | | 506.3 | 118.5 | 15.27 | 111.6 | 14.43 | 105.9 | 13.56 | 103.5 | 13.17 | 99.0 | 12.27 | 94.2 | 11.46 |
| | | 607.5 | 118.5 | 15.27 | 111.6 | 14.43 | 105.9 | 13.56 | 103.5 | 13.17 | 99.0 | 12.27 | 94.2 | 11.46 |
| | 35 | 162.0 | 118.5 | 14.55 | 111.6 | 13.65 | 105.9 | 12.39 | 103.5 | 11.88 | 99.0 | 11.55 | 94.2 | 10.62 |
| | | 202.5 | 118.5 | 14.43 | 111.6 | 13.56 | 105.9 | 12.27 | 103.5 | 11.88 | 99.0 | 11.46 | 94.2 | 10.62 |
| | | 405.0 | 118.5 | 13.98 | 111.6 | 13.17 | 105.9 | 11.88 | 103.5 | 11.88 | 99.0 | 11.01 | 94.2 | 10.62 |
| | | 506.3 | 118.5 | 13.98 | 111.6 | 12.72 | 105.9 | 11.88 | 103.5 | 11.46 | 99.0 | 11.01 | 94.2 | 10.17 |
| | | 607.5 | 118.5 | 13.98 | 111.6 | 12.51 | 105.9 | 11.88 | 103.5 | 11.22 | 99.0 | 11.01 | 94.2 | 9.96 |
| | 40 | 162.0 | 118.5 | 13.77 | 111.6 | 12.39 | 105.9 | 11.01 | 103.5 | 11.10 | 99.0 | 10.17 | 94.2 | 9.84 |
| | | 202.5 | 118.5 | 13.56 | 111.6 | 12.27 | 105.9 | 11.01 | 103.5 | 11.01 | 99.0 | 10.17 | 94.2 | 9.75 |
| | | 405.0 | 118.5 | 12.72 | 111.6 | 11.88 | 105.9 | 11.01 | 103.5 | 10.62 | 99.0 | 10.17 | 94.2 | 9.33 |
| | | 506.3 | 118.5 | 12.72 | 111.6 | 11.88 | 105.9 | 10.62 | 103.5 | 10.62 | 99.0 | 10.17 | 94.2 | 9.33 |
| | | 607.5 | 118.5 | 12.72 | 111.6 | 11.88 | 105.9 | 10.41 | 103.5 | 10.62 | 99.0 | 10.17 | 94.2 | 9.33 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▭ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 162.0 | 118.5 | 13.05 | 111.6 | 11.10 | 105.9 | 9.63 | 103.5 | 10.38 | 99.0 | 8.79 | 94.2 | 9.12 |
| | | 202.5 | 118.5 | 12.72 | 111.6 | 11.01 | 105.9 | 9.75 | 103.5 | 10.17 | 99.0 | 8.91 | 94.2 | 8.91 |
| | | 405.0 | 118.5 | 11.46 | 111.6 | 10.62 | 105.9 | 10.17 | 103.5 | 9.33 | 99.0 | 9.33 | 94.2 | 8.07 |
| | | 506.3 | 118.5 | 11.46 | 111.6 | 11.01 | 105.9 | 9.33 | 103.5 | 9.75 | 99.0 | 9.33 | 94.2 | 8.46 |
| | | 607.5 | 118.5 | 11.46 | 111.6 | 11.22 | 105.9 | 8.91 | 103.5 | 9.93 | 99.0 | 9.33 | 94.2 | 8.67 |
| 70 | -5 | 162.0 | 41.4 | 15.33 | 39.0 | 14.58 | 36.9 | 14.13 | 36.3 | 13.32 | 36.3 | 12.84 | 35.7 | 11.67 |
| | | 202.5 | 42.9 | 15.66 | 40.2 | 14.91 | 38.1 | 14.43 | 37.8 | 13.59 | 37.5 | 13.11 | 36.9 | 11.94 |
| | | 405.0 | 48.6 | 16.98 | 45.6 | 16.20 | 42.9 | 15.66 | 42.6 | 14.73 | 42.3 | 14.22 | 41.7 | 12.93 |
| | | 506.3 | 53.7 | 18.33 | 50.4 | 17.46 | 47.4 | 16.89 | 47.1 | 15.87 | 46.8 | 15.36 | 45.9 | 13.95 |
| | | 607.5 | 56.4 | 19.02 | 52.8 | 18.09 | 49.8 | 17.52 | 49.5 | 16.44 | 48.9 | 15.93 | 48.0 | 14.46 |
| | 0 | 162.0 | 74.1 | 22.44 | 68.4 | 21.39 | 63.6 | 20.67 | 62.4 | 19.47 | 61.5 | 18.81 | 59.4 | 17.10 |
| | | 202.5 | 74.7 | 22.50 | 69.0 | 21.45 | 63.9 | 20.76 | 63.0 | 19.53 | 61.8 | 18.87 | 59.7 | 17.16 |
| | | 405.0 | 76.2 | 22.77 | 70.5 | 21.66 | 65.4 | 21.00 | 64.5 | 19.74 | 63.3 | 19.08 | 60.9 | 17.34 |
| | | 506.3 | 77.4 | 22.77 | 71.7 | 21.66 | 66.6 | 21.00 | 65.4 | 19.74 | 64.5 | 19.08 | 62.1 | 17.34 |
| | | 607.5 | 78.0 | 22.77 | 72.3 | 21.66 | 66.9 | 21.00 | 65.7 | 19.74 | 64.8 | 19.08 | 62.4 | 17.34 |
| | 5 | 162.0 | 102.3 | 24.45 | 96.9 | 23.25 | 92.4 | 22.50 | 90.6 | 21.21 | 86.4 | 20.46 | 82.2 | 18.60 |
| | | 202.5 | 102.6 | 24.57 | 97.2 | 23.37 | 92.4 | 22.62 | 90.6 | 21.33 | 86.4 | 20.58 | 82.2 | 18.69 |
| | | 405.0 | 103.5 | 25.05 | 98.1 | 23.85 | 92.4 | 23.13 | 90.6 | 21.72 | 86.4 | 21.00 | 82.2 | 19.08 |
| | | 506.3 | 103.5 | 25.23 | 97.8 | 24.03 | 92.4 | 23.28 | 90.6 | 21.90 | 86.4 | 21.15 | 82.2 | 19.20 |
| | | 607.5 | 103.5 | 25.32 | 97.8 | 24.12 | 92.4 | 23.37 | 90.6 | 21.99 | 86.4 | 21.21 | 82.2 | 19.29 |
| | 10 | 162.0 | 102.9 | 22.50 | 97.5 | 21.27 | 92.4 | 20.49 | 90.6 | 19.35 | 86.4 | 18.54 | 82.2 | 16.98 |
| | | 202.5 | 102.9 | 22.47 | 97.5 | 21.24 | 92.4 | 20.43 | 90.6 | 19.35 | 86.4 | 18.54 | 82.2 | 16.98 |
| | | 405.0 | 103.5 | 22.29 | 97.8 | 21.06 | 92.4 | 20.25 | 90.6 | 19.35 | 86.4 | 18.54 | 82.2 | 16.98 |
| | | 506.3 | 103.5 | 22.38 | 97.8 | 21.15 | 92.4 | 20.34 | 90.6 | 19.44 | 86.4 | 18.42 | 82.2 | 17.01 |
| | | 607.5 | 103.5 | 22.41 | 97.8 | 21.18 | 92.4 | 20.40 | 90.6 | 19.47 | 86.4 | 18.36 | 82.2 | 17.04 |
| | 15 | 162.0 | 103.5 | 20.55 | 97.8 | 19.29 | 92.4 | 18.48 | 90.6 | 17.46 | 86.4 | 16.65 | 82.2 | 15.36 |
| | | 202.5 | 103.5 | 20.34 | 97.8 | 19.08 | 92.4 | 18.24 | 90.6 | 17.37 | 86.4 | 16.53 | 82.2 | 15.27 |
| | | 405.0 | 103.5 | 19.53 | 97.8 | 18.24 | 92.4 | 17.37 | 90.6 | 16.98 | 86.4 | 16.11 | 82.2 | 14.82 |
| | | 506.3 | 103.5 | 19.53 | 97.8 | 18.24 | 92.4 | 17.37 | 90.6 | 16.98 | 86.4 | 15.69 | 82.2 | 14.82 |
| | | 607.5 | 103.5 | 19.53 | 97.8 | 18.24 | 92.4 | 17.37 | 90.6 | 16.98 | 86.4 | 15.51 | 82.2 | 14.82 |
| | 20 | 162.0 | 103.5 | 17.10 | 97.8 | 16.20 | 92.4 | 15.81 | 90.6 | 15.36 | 86.4 | 14.55 | 82.2 | 13.65 |
| | | 202.5 | 103.5 | 16.98 | 97.8 | 16.11 | 92.4 | 15.69 | 90.6 | 15.27 | 86.4 | 14.43 | 82.2 | 13.56 |
| | | 405.0 | 103.5 | 16.53 | 97.8 | 15.69 | 92.4 | 15.27 | 90.6 | 14.82 | 86.4 | 13.98 | 82.2 | 13.17 |
| | | 506.3 | 103.5 | 16.53 | 97.8 | 15.69 | 92.4 | 15.27 | 90.6 | 14.43 | 86.4 | 13.98 | 82.2 | 12.72 |
| | | 607.5 | 103.5 | 16.53 | 97.8 | 15.69 | 92.4 | 15.27 | 90.6 | 14.22 | 86.4 | 13.98 | 82.2 | 12.51 |
| | 25 | 162.0 | 103.5 | 15.36 | 97.8 | 14.55 | 92.4 | 13.65 | 90.6 | 13.26 | 86.4 | 12.27 | 82.2 | 11.46 |
| | | 202.5 | 103.5 | 15.27 | 97.8 | 14.43 | 92.4 | 13.56 | 90.6 | 13.17 | 86.4 | 12.27 | 82.2 | 11.46 |
| | | 405.0 | 103.5 | 14.82 | 97.8 | 13.98 | 92.4 | 13.17 | 90.6 | 12.72 | 86.4 | 12.27 | 82.2 | 11.46 |
| | | 506.3 | 103.5 | 14.43 | 97.8 | 13.56 | 92.4 | 13.17 | 90.6 | 12.72 | 86.4 | 11.88 | 82.2 | 11.46 |
| | | 607.5 | 103.5 | 14.22 | 97.8 | 13.32 | 92.4 | 13.17 | 90.6 | 12.72 | 86.4 | 11.70 | 82.2 | 11.46 |
| | 30 | 162.0 | 103.5 | 13.65 | 97.8 | 12.84 | 92.4 | 12.00 | 90.6 | 11.46 | 86.4 | 11.10 | 82.2 | 10.17 |
| | | 202.5 | 103.5 | 13.56 | 97.8 | 12.72 | 92.4 | 11.88 | 90.6 | 11.46 | 86.4 | 11.01 | 82.2 | 10.17 |
| | | 405.0 | 103.5 | 13.17 | 97.8 | 12.27 | 92.4 | 11.46 | 90.6 | 11.46 | 86.4 | 10.62 | 82.2 | 10.17 |
| | | 506.3 | 103.5 | 13.17 | 97.8 | 12.27 | 92.4 | 11.46 | 90.6 | 11.01 | 86.4 | 10.62 | 82.2 | 10.17 |
| | | 607.5 | 103.5 | 13.17 | 97.8 | 12.27 | 92.4 | 11.46 | 90.6 | 10.80 | 86.4 | 10.62 | 82.2 | 10.17 |
| | 35 | 162.0 | 103.5 | 12.39 | 97.8 | 11.55 | 92.4 | 10.62 | 90.6 | 10.74 | 86.4 | 9.75 | 82.2 | 9.45 |
| | | 202.5 | 103.5 | 12.27 | 97.8 | 11.46 | 92.4 | 10.62 | 90.6 | 10.62 | 86.4 | 9.75 | 82.2 | 9.33 |
| | | 405.0 | 103.5 | 11.88 | 97.8 | 11.01 | 92.4 | 10.62 | 90.6 | 10.17 | 86.4 | 9.75 | 82.2 | 8.91 |
| | | 506.3 | 103.5 | 11.88 | 97.8 | 11.01 | 92.4 | 10.17 | 90.6 | 10.17 | 86.4 | 9.75 | 82.2 | 8.91 |
| | | 607.5 | 103.5 | 11.88 | 97.8 | 11.01 | 92.4 | 9.96 | 90.6 | 10.17 | 86.4 | 9.75 | 82.2 | 8.91 |
| | 40 | 162.0 | 103.5 | 11.55 | 97.8 | 10.74 | 92.4 | 9.84 | 90.6 | 9.33 | 86.4 | 8.91 | 82.2 | 8.58 |
| | | 202.5 | 103.5 | 11.46 | 97.8 | 10.62 | 92.4 | 9.75 | 90.6 | 9.33 | 86.4 | 8.91 | 82.2 | 8.46 |
| | | 405.0 | 103.5 | 11.01 | 97.8 | 10.17 | 92.4 | 9.33 | 90.6 | 9.33 | 86.4 | 8.91 | 82.2 | 8.07 |
| | | 506.3 | 103.5 | 11.01 | 97.8 | 10.17 | 92.4 | 9.33 | 90.6 | 8.91 | 86.4 | 8.46 | 82.2 | 8.07 |
| | | 607.5 | 103.5 | 11.01 | 97.8 | 10.17 | 92.4 | 9.33 | 90.6 | 8.67 | 86.4 | 8.25 | 82.2 | 8.07 |
| | 45 | 162.0 | 103.5 | 10.74 | 97.8 | 9.84 | 92.4 | 9.12 | 90.6 | 7.98 | 86.4 | 8.07 | 82.2 | 7.74 |
| | | 202.5 | 103.5 | 10.62 | 97.8 | 9.75 | 92.4 | 8.91 | 90.6 | 8.07 | 86.4 | 8.07 | 82.2 | 7.62 |
| | | 405.0 | 103.5 | 10.17 | 97.8 | 9.33 | 92.4 | 8.07 | 90.6 | 8.46 | 86.4 | 8.07 | 82.2 | 7.20 |
| | | 506.3 | 103.5 | 10.17 | 97.8 | 9.33 | 92.4 | 8.46 | 90.6 | 7.62 | 86.4 | 7.20 | 82.2 | 7.20 |
| | | 607.5 | 103.5 | 10.17 | 97.8 | 9.33 | 92.4 | 8.67 | 90.6 | 7.20 | 86.4 | 6.75 | 82.2 | 7.20 |
| 60 | -5 | 162.0 | 35.7 | 12.45 | 33.3 | 11.97 | 31.5 | 11.49 | 31.2 | 10.68 | 30.9 | 10.50 | 30.3 | 9.39 |
| | | 202.5 | 36.9 | 12.72 | 34.5 | 12.24 | 32.7 | 11.76 | 32.1 | 10.92 | 32.1 | 10.74 | 31.5 | 9.60 |
| | | 405.0 | 41.7 | 13.83 | 39.0 | 13.29 | 36.9 | 12.75 | 36.6 | 11.85 | 36.3 | 11.67 | 35.7 | 10.44 |
| | | 506.3 | 45.9 | 14.88 | 43.2 | 14.34 | 40.8 | 13.77 | 40.5 | 12.81 | 40.2 | 12.60 | 39.3 | 11.22 |
| | | 607.5 | 48.3 | 15.39 | 45.0 | 14.88 | 42.9 | 14.28 | 42.3 | 13.29 | 42.3 | 13.05 | 41.1 | 11.64 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 162.0 | 63.6 | 18.24 | 58.5 | 17.58 | 54.6 | 16.83 | 53.7 | 15.66 | 52.8 | 15.45 | 51.0 | 13.77 |
| | | 202.5 | 63.9 | 18.30 | 59.1 | 17.64 | 54.9 | 16.89 | 54.0 | 15.69 | 53.1 | 15.48 | 51.3 | 13.83 |
| | | 405.0 | 65.4 | 18.51 | 60.3 | 17.82 | 56.4 | 17.10 | 55.2 | 15.87 | 54.3 | 15.66 | 52.2 | 13.95 |
| | | 506.3 | 66.6 | 18.51 | 61.2 | 17.82 | 57.3 | 17.10 | 56.1 | 15.87 | 55.2 | 15.66 | 53.1 | 13.95 |
| | | 607.5 | 66.9 | 18.51 | 61.8 | 17.82 | 57.6 | 17.10 | 56.4 | 15.87 | 55.8 | 15.66 | 53.7 | 13.95 |
| | 5 | 162.0 | 87.9 | 19.86 | 82.8 | 19.11 | 79.5 | 18.33 | 77.4 | 17.07 | 74.1 | 16.80 | 70.5 | 14.97 |
| | | 202.5 | 88.2 | 19.95 | 83.1 | 19.20 | 79.5 | 18.42 | 77.4 | 17.16 | 74.1 | 16.89 | 70.5 | 15.03 |
| | | 405.0 | 88.8 | 20.34 | 83.7 | 19.62 | 79.5 | 18.81 | 77.4 | 17.49 | 74.1 | 17.25 | 70.5 | 15.36 |
| | | 506.3 | 88.8 | 20.52 | 83.7 | 19.74 | 79.5 | 18.96 | 77.4 | 17.64 | 74.1 | 17.34 | 70.5 | 15.48 |
| | | 607.5 | 88.8 | 20.61 | 83.4 | 19.80 | 79.5 | 19.02 | 77.4 | 17.70 | 74.1 | 17.37 | 70.5 | 15.54 |
| | 10 | 162.0 | 88.5 | 18.24 | 83.1 | 17.46 | 79.5 | 16.62 | 77.4 | 15.54 | 74.1 | 15.24 | 70.5 | 13.65 |
| | | 202.5 | 88.5 | 18.24 | 83.4 | 17.46 | 79.5 | 16.62 | 77.4 | 15.57 | 74.1 | 15.21 | 70.5 | 13.68 |
| | | 405.0 | 88.8 | 18.24 | 83.7 | 17.46 | 79.5 | 16.62 | 77.4 | 15.75 | 74.1 | 15.18 | 70.5 | 13.83 |
| | | 506.3 | 88.8 | 18.30 | 83.7 | 17.28 | 79.5 | 16.44 | 77.4 | 15.57 | 74.1 | 15.03 | 70.5 | 13.68 |
| | | 607.5 | 88.8 | 18.30 | 83.4 | 17.19 | 79.5 | 16.35 | 77.4 | 15.48 | 74.1 | 14.97 | 70.5 | 13.62 |
| | 15 | 162.0 | 88.8 | 16.65 | 83.7 | 15.81 | 79.5 | 14.94 | 77.4 | 13.98 | 74.1 | 13.65 | 70.5 | 12.27 |
| | | 202.5 | 88.8 | 16.53 | 83.7 | 15.69 | 79.5 | 14.82 | 77.4 | 13.98 | 74.1 | 13.56 | 70.5 | 12.27 |
| | | 405.0 | 88.8 | 16.11 | 83.7 | 15.27 | 79.5 | 14.43 | 77.4 | 13.98 | 74.1 | 13.17 | 70.5 | 12.27 |
| | | 506.3 | 88.8 | 16.11 | 83.7 | 14.82 | 79.5 | 13.98 | 77.4 | 13.56 | 74.1 | 12.72 | 70.5 | 11.88 |
| | | 607.5 | 88.8 | 16.11 | 83.7 | 14.61 | 79.5 | 13.77 | 77.4 | 13.32 | 74.1 | 12.51 | 70.5 | 11.70 |
| | 20 | 162.0 | 88.8 | 14.55 | 83.7 | 13.65 | 79.5 | 12.84 | 77.4 | 12.39 | 74.1 | 12.00 | 70.5 | 11.10 |
| | | 202.5 | 88.8 | 14.43 | 83.7 | 13.56 | 79.5 | 12.72 | 77.4 | 12.27 | 74.1 | 11.88 | 70.5 | 11.01 |
| | | 405.0 | 88.8 | 13.98 | 83.7 | 13.17 | 79.5 | 12.27 | 77.4 | 11.88 | 74.1 | 11.46 | 70.5 | 10.62 |
| | | 506.3 | 88.8 | 13.98 | 83.7 | 13.17 | 79.5 | 12.27 | 77.4 | 11.88 | 74.1 | 11.46 | 70.5 | 10.62 |
| | | 607.5 | 88.8 | 13.98 | 83.7 | 13.17 | 79.5 | 12.27 | 77.4 | 11.88 | 74.1 | 11.46 | 70.5 | 10.62 |
| | 25 | 162.0 | 88.8 | 12.84 | 83.7 | 12.00 | 79.5 | 11.01 | 77.4 | 11.10 | 74.1 | 10.17 | 70.5 | 9.84 |
| | | 202.5 | 88.8 | 12.72 | 83.7 | 11.88 | 79.5 | 11.01 | 77.4 | 11.01 | 74.1 | 10.17 | 70.5 | 9.75 |
| | | 405.0 | 88.8 | 12.27 | 83.7 | 11.46 | 79.5 | 11.01 | 77.4 | 10.62 | 74.1 | 10.17 | 70.5 | 9.33 |
| | | 506.3 | 88.8 | 12.27 | 83.7 | 11.46 | 79.5 | 10.62 | 77.4 | 10.62 | 74.1 | 10.17 | 70.5 | 9.33 |
| | | 607.5 | 88.8 | 12.27 | 83.7 | 11.46 | 79.5 | 10.41 | 77.4 | 10.62 | 74.1 | 10.17 | 70.5 | 9.33 |
| | 30 | 162.0 | 88.8 | 11.55 | 83.7 | 10.74 | 79.5 | 10.29 | 77.4 | 9.84 | 74.1 | 9.45 | 70.5 | 9.00 |
| | | 202.5 | 88.8 | 11.46 | 83.7 | 10.62 | 79.5 | 10.17 | 77.4 | 9.75 | 74.1 | 9.33 | 70.5 | 8.91 |
| | | 405.0 | 88.8 | 11.01 | 83.7 | 10.17 | 79.5 | 9.75 | 77.4 | 9.33 | 74.1 | 8.91 | 70.5 | 8.46 |
| | | 506.3 | 88.8 | 11.01 | 83.7 | 10.17 | 79.5 | 9.75 | 77.4 | 9.33 | 74.1 | 8.91 | 70.5 | 8.46 |
| | | 607.5 | 88.8 | 11.01 | 83.7 | 10.17 | 79.5 | 9.75 | 77.4 | 9.33 | 74.1 | 8.91 | 70.5 | 8.46 |
| | 35 | 162.0 | 88.8 | 10.17 | 83.7 | 9.84 | 79.5 | 8.91 | 77.4 | 9.00 | 74.1 | 8.58 | 70.5 | 8.19 |
| | | 202.5 | 88.8 | 10.17 | 83.7 | 9.75 | 79.5 | 8.91 | 77.4 | 8.91 | 74.1 | 8.46 | 70.5 | 8.07 |
| | | 405.0 | 88.8 | 10.17 | 83.7 | 9.33 | 79.5 | 8.91 | 77.4 | 8.46 | 74.1 | 8.07 | 70.5 | 7.62 |
| | | 506.3 | 88.8 | 10.17 | 83.7 | 9.33 | 79.5 | 8.46 | 77.4 | 8.46 | 74.1 | 8.07 | 70.5 | 7.62 |
| | | 607.5 | 88.8 | 10.17 | 83.7 | 9.33 | 79.5 | 8.25 | 77.4 | 8.46 | 74.1 | 8.07 | 70.5 | 7.62 |
| | 40 | 162.0 | 88.8 | 9.33 | 83.7 | 9.00 | 79.5 | 8.07 | 77.4 | 8.19 | 74.1 | 7.74 | 70.5 | 7.20 |
| | | 202.5 | 88.8 | 9.33 | 83.7 | 8.91 | 79.5 | 8.07 | 77.4 | 8.07 | 74.1 | 7.62 | 70.5 | 7.20 |
| | | 405.0 | 88.8 | 9.33 | 83.7 | 8.46 | 79.5 | 8.07 | 77.4 | 7.62 | 74.1 | 7.20 | 70.5 | 7.20 |
| | | 506.3 | 88.8 | 9.33 | 83.7 | 8.46 | 79.5 | 8.07 | 77.4 | 7.62 | 74.1 | 7.20 | 70.5 | 7.20 |
| | | 607.5 | 88.8 | 9.33 | 83.7 | 8.46 | 79.5 | 8.07 | 77.4 | 7.62 | 74.1 | 7.20 | 70.5 | 7.20 |
| | 45 | 162.0 | 88.8 | 8.46 | 83.7 | 8.19 | 79.5 | 7.20 | 77.4 | 7.29 | 74.1 | 6.90 | 70.5 | 6.24 |
| | | 202.5 | 88.8 | 8.46 | 83.7 | 8.07 | 79.5 | 7.20 | 77.4 | 7.20 | 74.1 | 6.81 | 70.5 | 6.36 |
| | | 405.0 | 88.8 | 8.46 | 83.7 | 7.62 | 79.5 | 7.20 | 77.4 | 6.81 | 74.1 | 6.36 | 70.5 | 6.81 |
| | | 506.3 | 88.8 | 8.46 | 83.7 | 7.62 | 79.5 | 7.62 | 77.4 | 6.81 | 74.1 | 6.36 | 70.5 | 6.81 |
| | | 607.5 | 88.8 | 8.46 | 83.7 | 7.62 | 79.5 | 7.86 | 77.4 | 6.81 | 74.1 | 6.36 | 70.5 | 6.81 |
| 50 | -5 | 162.0 | 29.7 | 9.93 | 27.9 | 9.39 | 26.4 | 8.88 | 25.8 | 8.40 | 25.8 | 7.89 | 25.2 | 7.47 |
| | | 202.5 | 30.6 | 10.14 | 28.8 | 9.60 | 27.3 | 9.09 | 26.7 | 8.61 | 26.7 | 8.07 | 26.1 | 7.62 |
| | | 405.0 | 34.5 | 10.98 | 32.4 | 10.44 | 30.9 | 9.84 | 30.3 | 9.33 | 30.3 | 8.76 | 29.7 | 8.25 |
| | | 506.3 | 38.4 | 11.85 | 36.0 | 11.22 | 33.9 | 10.62 | 33.6 | 10.08 | 33.3 | 9.42 | 33.0 | 8.91 |
| | | 607.5 | 40.2 | 12.27 | 37.8 | 11.64 | 35.7 | 11.01 | 35.1 | 10.47 | 34.8 | 9.75 | 34.5 | 9.24 |
| | 0 | 162.0 | 52.8 | 14.52 | 48.9 | 13.77 | 45.6 | 12.99 | 44.4 | 12.33 | 43.8 | 11.58 | 42.3 | 10.92 |
| | | 202.5 | 53.1 | 14.55 | 49.2 | 13.83 | 45.9 | 13.02 | 44.7 | 12.36 | 44.1 | 11.61 | 42.6 | 10.98 |
| | | 405.0 | 54.3 | 14.70 | 50.4 | 13.95 | 46.8 | 13.20 | 45.9 | 12.54 | 45.3 | 11.76 | 43.5 | 11.10 |
| | | 506.3 | 55.2 | 14.70 | 51.0 | 13.95 | 47.4 | 13.20 | 46.5 | 12.54 | 45.9 | 11.76 | 44.4 | 11.10 |
| | | 607.5 | 55.8 | 14.70 | 51.3 | 13.95 | 47.7 | 13.20 | 47.1 | 12.54 | 46.2 | 11.76 | 44.7 | 11.10 |
| | 5 | 162.0 | 73.2 | 15.81 | 69.3 | 14.97 | 66.0 | 14.13 | 64.5 | 13.44 | 61.8 | 12.63 | 58.8 | 11.85 |
| | | 202.5 | 73.2 | 15.87 | 69.3 | 15.03 | 66.0 | 14.22 | 64.5 | 13.50 | 61.8 | 12.69 | 58.8 | 11.94 |
| | | 405.0 | 73.8 | 16.20 | 69.9 | 15.36 | 66.3 | 14.52 | 64.5 | 13.77 | 61.8 | 12.90 | 58.8 | 12.18 |
| | | 506.3 | 73.8 | 16.32 | 69.9 | 15.48 | 66.3 | 14.61 | 64.5 | 13.86 | 61.8 | 13.02 | 58.8 | 12.27 |
| | | 607.5 | 73.8 | 16.38 | 69.6 | 15.54 | 66.3 | 14.64 | 64.5 | 13.89 | 61.8 | 13.08 | 58.8 | 12.33 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(42HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 162.0 | 73.5 | 14.55 | 69.3 | 13.71 | 66.0 | 12.87 | 64.5 | 12.30 | 61.8 | 11.37 | 58.8 | 10.86 |
| | | 202.5 | 73.5 | 14.52 | 69.6 | 13.68 | 66.0 | 12.84 | 64.5 | 12.27 | 61.8 | 11.40 | 58.8 | 10.83 |
| | | 405.0 | 73.8 | 14.43 | 69.9 | 13.65 | 66.3 | 12.75 | 64.5 | 12.18 | 61.8 | 11.55 | 58.8 | 10.74 |
| | | 506.3 | 73.8 | 14.52 | 69.9 | 13.68 | 66.3 | 12.81 | 64.5 | 12.24 | 61.8 | 11.37 | 58.8 | 10.80 |
| | | 607.5 | 73.8 | 14.55 | 69.6 | 13.71 | 66.3 | 12.84 | 64.5 | 12.27 | 61.8 | 11.28 | 58.8 | 10.80 |
| | 15 | 162.0 | 73.8 | 13.26 | 69.9 | 12.39 | 66.3 | 11.55 | 64.5 | 11.10 | 61.8 | 10.17 | 58.8 | 9.84 |
| | | 202.5 | 73.8 | 13.17 | 69.9 | 12.27 | 66.3 | 11.46 | 64.5 | 11.01 | 61.8 | 10.17 | 58.8 | 9.75 |
| | | 405.0 | 73.8 | 12.72 | 69.9 | 11.88 | 66.3 | 11.01 | 64.5 | 10.62 | 61.8 | 10.17 | 58.8 | 9.33 |
| | | 506.3 | 73.8 | 12.72 | 69.9 | 11.88 | 66.3 | 11.01 | 64.5 | 10.62 | 61.8 | 9.75 | 58.8 | 9.33 |
| | | 607.5 | 73.8 | 12.72 | 69.9 | 11.88 | 66.3 | 11.01 | 64.5 | 10.62 | 61.8 | 9.51 | 58.8 | 9.33 |
| | 20 | 162.0 | 73.8 | 11.55 | 69.9 | 10.74 | 66.3 | 10.29 | 64.5 | 9.84 | 61.8 | 9.45 | 58.8 | 8.46 |
| | | 202.5 | 73.8 | 11.46 | 69.9 | 10.62 | 66.3 | 10.17 | 64.5 | 9.75 | 61.8 | 9.33 | 58.8 | 8.46 |
| | | 405.0 | 73.8 | 11.01 | 69.9 | 10.17 | 66.3 | 9.75 | 64.5 | 9.33 | 61.8 | 8.91 | 58.8 | 8.46 |
| | | 506.3 | 73.8 | 11.01 | 69.9 | 10.17 | 66.3 | 9.75 | 64.5 | 9.33 | 61.8 | 8.91 | 58.8 | 8.46 |
| | | 607.5 | 73.8 | 11.01 | 69.9 | 10.17 | 66.3 | 9.75 | 64.5 | 9.33 | 61.8 | 8.91 | 58.8 | 8.46 |
| | 25 | 162.0 | 73.8 | 10.29 | 69.9 | 9.33 | 66.3 | 9.00 | 64.5 | 8.46 | 61.8 | 8.07 | 58.8 | 7.62 |
| | | 202.5 | 73.8 | 10.17 | 69.9 | 9.33 | 66.3 | 8.91 | 64.5 | 8.46 | 61.8 | 8.07 | 58.8 | 7.62 |
| | | 405.0 | 73.8 | 9.75 | 69.9 | 9.33 | 66.3 | 8.46 | 64.5 | 8.46 | 61.8 | 8.07 | 58.8 | 7.62 |
| | | 506.3 | 73.8 | 9.75 | 69.9 | 9.33 | 66.3 | 8.46 | 64.5 | 8.46 | 61.8 | 8.07 | 58.8 | 7.62 |
| | | 607.5 | 73.8 | 9.75 | 69.9 | 9.33 | 66.3 | 8.46 | 64.5 | 8.46 | 61.8 | 8.07 | 58.8 | 7.62 |
| | 30 | 162.0 | 73.8 | 9.45 | 69.9 | 8.58 | 66.3 | 8.19 | 64.5 | 7.62 | 61.8 | 7.74 | 58.8 | 7.29 |
| | | 202.5 | 73.8 | 9.33 | 69.9 | 8.46 | 66.3 | 8.07 | 64.5 | 7.62 | 61.8 | 7.62 | 58.8 | 7.20 |
| | | 405.0 | 73.8 | 8.91 | 69.9 | 8.07 | 66.3 | 7.62 | 64.5 | 7.62 | 61.8 | 7.20 | 58.8 | 6.81 |
| | | 506.3 | 73.8 | 8.91 | 69.9 | 8.07 | 66.3 | 7.62 | 64.5 | 7.62 | 61.8 | 7.20 | 58.8 | 6.81 |
| | | 607.5 | 73.8 | 8.91 | 69.9 | 8.07 | 66.3 | 7.62 | 64.5 | 7.62 | 61.8 | 7.20 | 58.8 | 6.81 |
| | 35 | 162.0 | 73.8 | 8.58 | 69.9 | 7.62 | 66.3 | 7.20 | 64.5 | 7.29 | 61.8 | 6.81 | 58.8 | 6.36 |
| | | 202.5 | 73.8 | 8.46 | 69.9 | 7.62 | 66.3 | 7.20 | 64.5 | 7.20 | 61.8 | 6.81 | 58.8 | 6.36 |
| | | 405.0 | 73.8 | 8.07 | 69.9 | 7.62 | 66.3 | 7.20 | 64.5 | 6.81 | 61.8 | 6.81 | 58.8 | 6.36 |
| | | 506.3 | 73.8 | 8.07 | 69.9 | 7.62 | 66.3 | 7.20 | 64.5 | 6.81 | 61.8 | 6.81 | 58.8 | 6.36 |
| | | 607.5 | 73.8 | 8.07 | 69.9 | 7.62 | 66.3 | 7.20 | 64.5 | 6.81 | 61.8 | 6.81 | 58.8 | 6.36 |
| | 40 | 162.0 | 73.8 | 7.74 | 69.9 | 7.29 | 66.3 | 6.90 | 64.5 | 6.36 | 61.8 | 6.48 | 58.8 | 5.91 |
| | | 202.5 | 73.8 | 7.62 | 69.9 | 7.20 | 66.3 | 6.81 | 64.5 | 6.36 | 61.8 | 6.36 | 58.8 | 5.91 |
| | | 405.0 | 73.8 | 7.20 | 69.9 | 6.81 | 66.3 | 6.36 | 64.5 | 6.36 | 61.8 | 5.91 | 58.8 | 5.91 |
| | | 506.3 | 73.8 | 7.20 | 69.9 | 6.81 | 66.3 | 6.36 | 64.5 | 6.36 | 61.8 | 5.91 | 58.8 | 5.91 |
| | | 607.5 | 73.8 | 7.20 | 69.9 | 6.81 | 66.3 | 6.36 | 64.5 | 6.36 | 61.8 | 5.91 | 58.8 | 5.91 |
| | 45 | 162.0 | 73.8 | 6.90 | 69.9 | 7.02 | 66.3 | 6.57 | 64.5 | 5.43 | 61.8 | 6.12 | 58.8 | 5.52 |
| | | 202.5 | 73.8 | 6.81 | 69.9 | 6.81 | 66.3 | 6.36 | 64.5 | 5.52 | 61.8 | 5.91 | 58.8 | 5.52 |
| | | 405.0 | 73.8 | 6.36 | 69.9 | 5.91 | 66.3 | 5.52 | 64.5 | 5.91 | 61.8 | 5.10 | 58.8 | 5.52 |
| | | 506.3 | 73.8 | 6.36 | 69.9 | 5.91 | 66.3 | 5.52 | 64.5 | 5.91 | 61.8 | 5.10 | 58.8 | 5.52 |
| | | 607.5 | 73.8 | 6.36 | 69.9 | 5.91 | 66.3 | 5.52 | 64.5 | 5.91 | 61.8 | 5.10 | 58.8 | 5.52 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN440BAS4

**Heating Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 169.6 | 65.6 | 27.91 | 65.1 | 26.27 | 64.7 | 24.45 | 63.8 | 23.73 | 64.5 | 23.13 | 62.8 | 20.74 |
| | | 212.0 | 67.9 | 28.40 | 67.3 | 26.78 | 66.9 | 24.99 | 66.0 | 24.26 | 66.9 | 23.63 | 65.0 | 21.18 |
| | | 424.0 | 76.7 | 30.33 | 76.1 | 28.82 | 75.7 | 27.12 | 74.7 | 26.33 | 75.5 | 25.59 | 73.6 | 22.97 |
| | | 530.0 | 84.8 | 32.25 | 84.0 | 30.79 | 83.6 | 29.23 | 82.6 | 28.44 | 83.6 | 27.62 | 81.4 | 24.77 |
| | | 636.0 | 88.9 | 33.22 | 88.0 | 31.78 | 87.4 | 30.29 | 86.4 | 29.51 | 87.6 | 28.63 | 85.2 | 25.67 |
| | 0 | 169.6 | 117.2 | 38.18 | 114.4 | 37.03 | 111.9 | 35.83 | 109.6 | 34.82 | 110.0 | 33.87 | 105.0 | 30.33 |
| | | 212.0 | 117.9 | 38.28 | 115.1 | 37.12 | 112.8 | 35.92 | 110.3 | 34.92 | 110.6 | 33.95 | 105.6 | 30.42 |
| | | 424.0 | 120.7 | 38.69 | 117.8 | 37.49 | 115.3 | 36.34 | 112.8 | 35.33 | 113.2 | 34.32 | 108.1 | 30.79 |
| | | 530.0 | 122.5 | 38.69 | 119.5 | 37.49 | 117.0 | 36.34 | 114.4 | 35.33 | 115.0 | 34.32 | 109.7 | 30.79 |
| | | 636.0 | 123.5 | 38.69 | 120.4 | 37.49 | 117.9 | 36.34 | 115.3 | 35.33 | 115.7 | 34.32 | 110.6 | 30.79 |
| | 5 | 169.6 | 168.7 | 41.04 | 166.2 | 40.01 | 162.8 | 39.00 | 158.7 | 37.90 | 154.3 | 36.86 | 145.8 | 33.00 |
| | | 212.0 | 169.4 | 41.21 | 166.5 | 40.20 | 162.8 | 39.19 | 158.7 | 38.09 | 154.3 | 37.03 | 145.8 | 33.18 |
| | | 424.0 | 171.6 | 41.95 | 167.5 | 40.95 | 162.8 | 39.98 | 158.7 | 38.87 | 154.3 | 37.77 | 145.8 | 33.87 |
| | | 530.0 | 172.6 | 42.23 | 168.1 | 41.21 | 162.8 | 40.26 | 158.7 | 39.15 | 154.3 | 38.05 | 145.8 | 34.10 |
| | | 636.0 | 173.2 | 42.36 | 168.4 | 41.36 | 162.8 | 40.39 | 158.7 | 39.28 | 154.3 | 38.18 | 145.8 | 34.22 |
| | 10 | 169.6 | 168.8 | 37.33 | 166.2 | 36.08 | 162.2 | 35.41 | 158.0 | 34.60 | 153.7 | 33.43 | 145.2 | 30.17 |
| | | 212.0 | 170.0 | 37.27 | 166.9 | 36.11 | 162.8 | 35.48 | 158.7 | 34.60 | 154.3 | 33.41 | 145.8 | 30.14 |
| | | 424.0 | 173.8 | 36.99 | 170.0 | 36.26 | 165.4 | 35.74 | 161.2 | 34.54 | 156.6 | 33.31 | 148.1 | 30.05 |
| | | 530.0 | 174.8 | 37.49 | 171.3 | 36.77 | 166.5 | 35.89 | 161.9 | 34.69 | 157.7 | 33.87 | 149.0 | 31.48 |
| | | 636.0 | 175.3 | 37.75 | 171.9 | 37.02 | 166.9 | 35.95 | 162.2 | 34.76 | 158.1 | 34.13 | 149.6 | 32.19 |
| | 15 | 169.6 | 169.1 | 33.65 | 166.2 | 32.21 | 161.5 | 31.87 | 157.2 | 31.33 | 153.1 | 30.01 | 144.6 | 27.34 |
| | | 212.0 | 170.6 | 33.31 | 167.5 | 32.08 | 162.8 | 31.80 | 158.7 | 31.11 | 154.3 | 29.77 | 145.8 | 27.12 |
| | | 424.0 | 176.0 | 31.99 | 172.5 | 31.52 | 168.1 | 31.52 | 163.7 | 30.20 | 159.0 | 28.85 | 150.5 | 26.18 |
| | | 530.0 | 177.0 | 32.75 | 174.1 | 32.25 | 170.0 | 31.52 | 165.4 | 30.20 | 161.2 | 29.67 | 152.2 | 28.85 |
| | | 636.0 | 177.5 | 33.16 | 175.0 | 32.62 | 171.0 | 31.52 | 166.3 | 30.20 | 162.2 | 30.10 | 153.1 | 30.20 |
| | 20 | 169.6 | 175.7 | 30.86 | 172.5 | 29.42 | 167.8 | 28.79 | 163.1 | 27.87 | 158.4 | 27.25 | 149.0 | 26.40 |
| | | 212.0 | 177.0 | 30.64 | 173.8 | 29.41 | 169.1 | 28.76 | 164.4 | 27.97 | 159.9 | 27.43 | 150.5 | 26.18 |
| | | 424.0 | 182.6 | 29.77 | 179.4 | 29.32 | 174.4 | 28.67 | 169.7 | 28.44 | 165.4 | 28.16 | 155.9 | 25.33 |
| | | 530.0 | 183.3 | 29.77 | 180.7 | 29.32 | 176.3 | 28.85 | 171.3 | 28.44 | 166.6 | 28.16 | 157.2 | 26.93 |
| | | 636.0 | 183.8 | 29.77 | 181.3 | 29.32 | 177.5 | 28.95 | 172.2 | 28.44 | 167.3 | 28.16 | 158.0 | 27.74 |
| | 25 | 169.6 | 185.4 | 29.42 | 180.7 | 28.57 | 176.3 | 28.10 | 173.1 | 27.63 | 169.1 | 27.22 | 159.4 | 25.43 |
| | | 212.0 | 185.4 | 29.32 | 180.7 | 28.53 | 176.3 | 27.97 | 173.1 | 27.53 | 169.1 | 27.12 | 159.4 | 25.33 |
| | | 424.0 | 185.4 | 28.85 | 180.7 | 28.35 | 176.3 | 27.53 | 173.1 | 27.12 | 169.1 | 26.65 | 159.4 | 24.86 |
| | | 530.0 | 185.4 | 28.44 | 180.7 | 27.62 | 176.3 | 27.12 | 173.1 | 26.65 | 169.1 | 26.18 | 159.4 | 24.45 |
| | | 636.0 | 185.4 | 28.23 | 180.7 | 27.25 | 176.3 | 26.90 | 173.1 | 26.43 | 169.1 | 25.96 | 159.4 | 24.23 |
| | 30 | 169.6 | 185.4 | 28.67 | 180.7 | 27.25 | 176.3 | 27.00 | 173.1 | 26.30 | 169.1 | 26.02 | 159.4 | 24.20 |
| | | 212.0 | 185.4 | 28.44 | 180.7 | 27.21 | 176.3 | 26.84 | 173.1 | 26.18 | 169.1 | 25.77 | 159.4 | 23.98 |
| | | 424.0 | 185.4 | 27.53 | 180.7 | 27.02 | 176.3 | 26.18 | 173.1 | 25.77 | 169.1 | 24.86 | 159.4 | 23.10 |
| | | 530.0 | 185.4 | 27.12 | 180.7 | 26.28 | 176.3 | 25.77 | 173.1 | 25.33 | 169.1 | 24.86 | 159.4 | 23.10 |
| | | 636.0 | 185.4 | 26.90 | 180.7 | 25.92 | 176.3 | 25.58 | 173.1 | 25.08 | 169.1 | 24.86 | 159.4 | 23.10 |
| | 35 | 169.6 | 185.4 | 27.34 | 180.7 | 26.43 | 176.3 | 25.89 | 173.1 | 24.96 | 169.1 | 24.10 | 159.4 | 22.41 |
| | | 212.0 | 185.4 | 27.12 | 180.7 | 26.28 | 176.3 | 25.77 | 173.1 | 24.86 | 169.1 | 23.98 | 159.4 | 22.19 |
| | | 424.0 | 185.4 | 26.18 | 180.7 | 25.68 | 176.3 | 25.33 | 173.1 | 24.45 | 169.1 | 23.53 | 159.4 | 21.31 |
| | | 530.0 | 185.4 | 26.18 | 180.7 | 25.42 | 176.3 | 24.86 | 173.1 | 23.98 | 169.1 | 23.10 | 159.4 | 21.31 |
| | | 636.0 | 185.4 | 26.18 | 180.7 | 25.27 | 176.3 | 24.63 | 173.1 | 23.76 | 169.1 | 22.91 | 159.4 | 21.31 |
| | 40 | 169.6 | 185.4 | 26.40 | 180.7 | 25.58 | 176.3 | 25.08 | 173.1 | 24.20 | 169.1 | 23.35 | 159.4 | 21.09 |
| | | 212.0 | 185.4 | 26.18 | 180.7 | 25.42 | 176.3 | 24.86 | 173.1 | 23.98 | 169.1 | 23.10 | 159.4 | 20.86 |
| | | 424.0 | 185.4 | 25.33 | 180.7 | 24.77 | 176.3 | 23.98 | 173.1 | 23.10 | 169.1 | 22.19 | 159.4 | 19.99 |
| | | 530.0 | 185.4 | 24.86 | 180.7 | 24.35 | 176.3 | 23.98 | 173.1 | 23.10 | 169.1 | 22.19 | 159.4 | 19.99 |
| | | 636.0 | 185.4 | 24.63 | 180.7 | 24.14 | 176.3 | 23.98 | 173.1 | 23.10 | 169.1 | 22.19 | 159.4 | 19.99 |
| | 45 | 169.6 | 185.4 | 25.55 | 180.7 | 24.70 | 176.3 | 24.32 | 173.1 | 23.45 | 169.1 | 22.53 | 159.4 | 19.74 |
| | | 212.0 | 185.4 | 25.33 | 180.7 | 24.54 | 176.3 | 23.98 | 173.1 | 23.10 | 169.1 | 22.19 | 159.4 | 19.52 |
| | | 424.0 | 185.4 | 24.45 | 180.7 | 23.89 | 176.3 | 22.66 | 173.1 | 21.78 | 169.1 | 20.86 | 159.4 | 18.66 |
| | | 530.0 | 185.4 | 23.53 | 180.7 | 23.29 | 176.3 | 23.10 | 173.1 | 22.19 | 169.1 | 21.31 | 159.4 | 18.66 |
| | | 636.0 | 185.4 | 23.07 | 180.7 | 23.00 | 176.3 | 23.35 | 173.1 | 22.41 | 169.1 | 21.56 | 159.4 | 18.66 |
| 120 | -5 | 169.6 | 62.3 | 27.91 | 61.9 | 26.27 | 61.5 | 24.45 | 60.7 | 23.42 | 61.3 | 22.75 | 59.7 | 20.36 |
| | | 212.0 | 64.4 | 28.40 | 63.9 | 26.78 | 63.5 | 24.99 | 62.8 | 23.94 | 63.2 | 23.25 | 61.6 | 20.81 |
| | | 424.0 | 72.9 | 30.33 | 72.3 | 28.82 | 72.0 | 27.12 | 71.0 | 25.96 | 71.7 | 25.23 | 69.8 | 22.60 |
| | | 530.0 | 80.5 | 32.25 | 79.9 | 30.79 | 79.5 | 29.23 | 78.6 | 28.03 | 79.2 | 27.21 | 77.0 | 24.35 |
| | | 636.0 | 84.5 | 33.22 | 83.9 | 31.78 | 83.3 | 30.29 | 82.3 | 29.07 | 83.0 | 28.19 | 80.5 | 25.23 |
| | 0 | 169.6 | 111.3 | 38.18 | 108.7 | 37.03 | 106.3 | 35.83 | 104.3 | 34.32 | 104.3 | 33.35 | 99.4 | 29.82 |
| | | 212.0 | 111.9 | 38.28 | 109.4 | 37.12 | 106.9 | 35.92 | 104.9 | 34.41 | 104.9 | 33.44 | 100.0 | 29.92 |
| | | 424.0 | 114.7 | 38.69 | 111.9 | 37.49 | 109.7 | 36.34 | 107.2 | 34.82 | 107.2 | 33.82 | 102.5 | 30.29 |
| | | 530.0 | 116.3 | 38.69 | 113.8 | 37.49 | 111.3 | 36.34 | 109.0 | 34.82 | 108.8 | 33.82 | 104.0 | 30.29 |
| | | 636.0 | 117.3 | 38.69 | 114.7 | 37.49 | 112.2 | 36.34 | 109.7 | 34.82 | 109.7 | 33.82 | 104.9 | 30.29 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 169.6 | 160.6 | 41.04 | 158.1 | 40.01 | 154.7 | 39.00 | 150.9 | 37.34 | 146.2 | 36.30 | 138.3 | 32.50 |
| | | 212.0 | 161.2 | 41.21 | 158.4 | 40.20 | 154.7 | 39.19 | 150.9 | 37.55 | 146.2 | 36.49 | 138.3 | 32.68 |
| | | 424.0 | 163.4 | 41.95 | 159.6 | 40.95 | 154.7 | 39.98 | 150.9 | 38.31 | 146.2 | 37.21 | 138.3 | 33.31 |
| | | 530.0 | 164.4 | 42.23 | 158.7 | 41.21 | 154.7 | 40.26 | 150.9 | 38.59 | 146.2 | 37.49 | 138.3 | 33.54 |
| | | 636.0 | 164.7 | 42.36 | 158.3 | 41.36 | 154.7 | 40.39 | 150.9 | 38.74 | 146.2 | 37.62 | 138.3 | 33.66 |
| | 10 | 169.6 | 161.2 | 36.86 | 158.1 | 35.83 | 154.3 | 35.11 | 150.5 | 34.04 | 145.8 | 32.93 | 137.9 | 29.60 |
| | | 212.0 | 161.9 | 36.99 | 158.8 | 35.98 | 154.7 | 35.23 | 150.9 | 34.10 | 146.2 | 32.90 | 138.3 | 29.64 |
| | | 424.0 | 165.0 | 37.49 | 161.5 | 36.52 | 156.5 | 35.74 | 152.7 | 34.28 | 147.7 | 32.81 | 139.6 | 29.77 |
| | | 530.0 | 165.9 | 37.36 | 160.9 | 36.52 | 157.1 | 35.89 | 153.3 | 34.41 | 148.4 | 32.94 | 140.2 | 30.79 |
| | | 636.0 | 166.3 | 37.28 | 160.6 | 36.52 | 157.4 | 35.95 | 153.7 | 34.48 | 148.7 | 33.02 | 140.5 | 31.30 |
| | 15 | 169.6 | 161.6 | 32.69 | 158.4 | 31.74 | 153.7 | 31.24 | 150.2 | 30.77 | 145.5 | 29.54 | 137.4 | 26.77 |
| | | 212.0 | 162.5 | 32.75 | 159.3 | 31.80 | 154.7 | 31.30 | 150.9 | 30.64 | 146.2 | 29.32 | 138.3 | 26.65 |
| | | 424.0 | 166.3 | 33.03 | 163.2 | 32.08 | 158.1 | 31.52 | 154.3 | 30.20 | 149.2 | 28.44 | 141.1 | 26.18 |
| | | 530.0 | 167.2 | 32.53 | 163.1 | 31.80 | 159.4 | 31.52 | 155.6 | 30.20 | 150.5 | 28.44 | 142.4 | 27.97 |
| | | 636.0 | 167.8 | 32.28 | 163.1 | 31.65 | 160.2 | 31.52 | 156.2 | 30.20 | 151.1 | 28.44 | 143.0 | 28.88 |
| | 20 | 169.6 | 166.2 | 29.41 | 163.1 | 28.16 | 158.1 | 27.41 | 153.7 | 27.00 | 148.7 | 26.68 | 140.8 | 25.33 |
| | | 212.0 | 167.2 | 29.41 | 164.0 | 28.25 | 159.0 | 27.53 | 154.7 | 27.12 | 149.6 | 26.65 | 141.5 | 25.23 |
| | | 424.0 | 171.6 | 29.41 | 167.8 | 28.67 | 162.5 | 27.97 | 158.7 | 27.53 | 153.4 | 26.56 | 144.9 | 24.86 |
| | | 530.0 | 172.2 | 29.13 | 167.8 | 28.44 | 163.7 | 27.97 | 159.4 | 27.53 | 154.3 | 26.65 | 145.8 | 25.77 |
| | | 636.0 | 172.6 | 29.00 | 167.8 | 28.32 | 164.4 | 27.97 | 160.0 | 27.53 | 154.7 | 26.69 | 146.2 | 26.24 |
| | 25 | 169.6 | 174.2 | 27.81 | 169.1 | 26.52 | 163.7 | 26.02 | 160.3 | 25.43 | 155.9 | 24.96 | 147.4 | 23.23 |
| | | 212.0 | 174.4 | 27.71 | 169.1 | 26.46 | 163.7 | 25.96 | 160.3 | 25.33 | 155.9 | 24.86 | 147.4 | 23.10 |
| | | 424.0 | 174.7 | 27.28 | 169.1 | 26.28 | 163.7 | 25.77 | 160.3 | 24.86 | 155.9 | 24.45 | 147.4 | 22.66 |
| | | 530.0 | 175.3 | 26.28 | 169.1 | 25.59 | 163.7 | 25.33 | 160.3 | 24.86 | 155.9 | 23.98 | 147.4 | 22.66 |
| | | 636.0 | 175.4 | 25.77 | 169.1 | 25.24 | 163.7 | 25.08 | 160.3 | 24.86 | 155.9 | 23.76 | 147.4 | 22.66 |
| | 30 | 169.6 | 175.3 | 26.59 | 169.1 | 25.29 | 163.7 | 24.57 | 160.3 | 23.63 | 155.9 | 23.35 | 147.4 | 21.43 |
| | | 212.0 | 175.3 | 26.37 | 169.1 | 25.14 | 163.7 | 24.45 | 160.3 | 23.53 | 155.9 | 23.10 | 147.4 | 21.31 |
| | | 424.0 | 175.3 | 25.49 | 169.1 | 24.54 | 163.7 | 23.98 | 160.3 | 23.10 | 155.9 | 22.19 | 147.4 | 20.86 |
| | | 530.0 | 175.3 | 24.67 | 169.1 | 23.98 | 163.7 | 23.53 | 160.3 | 23.10 | 155.9 | 22.19 | 147.4 | 20.45 |
| | | 636.0 | 175.3 | 24.26 | 169.1 | 23.70 | 163.7 | 23.29 | 160.3 | 23.10 | 155.9 | 22.19 | 147.4 | 20.24 |
| | 35 | 169.6 | 175.3 | 25.40 | 169.1 | 24.01 | 163.7 | 23.35 | 160.3 | 22.41 | 155.9 | 21.53 | 147.4 | 19.64 |
| | | 212.0 | 175.3 | 25.05 | 169.1 | 23.79 | 163.7 | 23.10 | 160.3 | 22.19 | 155.9 | 21.31 | 147.4 | 19.52 |
| | | 424.0 | 175.3 | 23.63 | 169.1 | 22.94 | 163.7 | 22.19 | 160.3 | 21.31 | 155.9 | 20.45 | 147.4 | 19.11 |
| | | 530.0 | 175.3 | 23.35 | 169.1 | 22.75 | 163.7 | 22.19 | 160.3 | 21.31 | 155.9 | 20.45 | 147.4 | 18.66 |
| | | 636.0 | 175.3 | 23.20 | 169.1 | 22.66 | 163.7 | 22.19 | 160.3 | 21.31 | 155.9 | 20.45 | 147.4 | 18.42 |
| | 40 | 169.6 | 175.3 | 24.64 | 169.1 | 22.91 | 163.7 | 22.00 | 160.3 | 21.09 | 155.9 | 20.21 | 147.4 | 18.29 |
| | | 212.0 | 175.3 | 24.17 | 169.1 | 22.66 | 163.7 | 21.78 | 160.3 | 20.86 | 155.9 | 19.99 | 147.4 | 18.20 |
| | | 424.0 | 175.3 | 22.28 | 169.1 | 21.59 | 163.7 | 20.86 | 160.3 | 19.99 | 155.9 | 19.11 | 147.4 | 17.79 |
| | | 530.0 | 175.3 | 22.00 | 169.1 | 21.31 | 163.7 | 20.86 | 160.3 | 19.99 | 155.9 | 19.11 | 147.4 | 17.32 |
| | | 636.0 | 175.3 | 21.87 | 169.1 | 21.18 | 163.7 | 20.86 | 160.3 | 19.99 | 155.9 | 19.11 | 147.4 | 17.09 |
| | 45 | 169.6 | 175.3 | 23.89 | 169.1 | 21.81 | 163.7 | 20.68 | 160.3 | 19.74 | 155.9 | 18.88 | 147.4 | 16.97 |
| | | 212.0 | 175.3 | 23.29 | 169.1 | 21.50 | 163.7 | 20.45 | 160.3 | 19.52 | 155.9 | 18.66 | 147.4 | 16.87 |
| | | 424.0 | 175.3 | 20.96 | 169.1 | 20.27 | 163.7 | 19.52 | 160.3 | 18.66 | 155.9 | 17.79 | 147.4 | 16.44 |
| | | 530.0 | 175.3 | 20.68 | 169.1 | 19.89 | 163.7 | 19.52 | 160.3 | 18.66 | 155.9 | 17.79 | 147.4 | 15.99 |
| | | 636.0 | 175.3 | 20.55 | 169.1 | 19.71 | 163.7 | 19.52 | 160.3 | 18.66 | 155.9 | 17.79 | 147.4 | 15.75 |
| 110 | -5 | 169.6 | 59.0 | 28.28 | 58.5 | 26.27 | 58.2 | 24.45 | 57.5 | 23.42 | 57.8 | 22.75 | 56.5 | 20.36 |
| | | 212.0 | 61.0 | 28.76 | 60.6 | 26.78 | 60.3 | 24.99 | 59.7 | 23.94 | 59.7 | 23.25 | 58.4 | 20.81 |
| | | 424.0 | 68.9 | 30.70 | 68.5 | 28.82 | 68.2 | 27.12 | 67.5 | 25.96 | 67.5 | 25.23 | 66.1 | 22.60 |
| | | 530.0 | 76.1 | 32.68 | 75.7 | 30.79 | 75.4 | 29.23 | 74.5 | 28.03 | 74.5 | 27.21 | 72.9 | 24.35 |
| | | 636.0 | 79.8 | 33.66 | 79.2 | 31.78 | 78.9 | 30.29 | 78.0 | 29.07 | 78.0 | 28.19 | 76.4 | 25.23 |
| | 0 | 169.6 | 105.3 | 38.69 | 103.1 | 37.03 | 100.9 | 35.83 | 99.0 | 34.32 | 98.1 | 33.35 | 94.3 | 29.82 |
| | | 212.0 | 105.9 | 38.78 | 103.7 | 37.12 | 101.5 | 35.92 | 99.6 | 34.41 | 98.7 | 33.44 | 94.9 | 29.92 |
| | | 424.0 | 108.4 | 39.15 | 106.2 | 37.49 | 103.7 | 36.34 | 101.8 | 34.82 | 100.9 | 33.82 | 97.1 | 30.29 |
| | | 530.0 | 110.0 | 39.15 | 107.8 | 37.49 | 105.6 | 36.34 | 103.4 | 34.82 | 102.5 | 33.82 | 98.4 | 30.29 |
| | | 636.0 | 110.9 | 39.15 | 108.7 | 37.49 | 106.3 | 36.34 | 104.1 | 34.82 | 103.4 | 33.82 | 99.3 | 30.29 |
| | 5 | 169.6 | 153.7 | 41.58 | 150.0 | 40.01 | 146.5 | 39.00 | 143.3 | 37.34 | 137.7 | 36.30 | 131.0 | 32.50 |
| | | 212.0 | 154.3 | 41.77 | 150.3 | 40.20 | 146.5 | 39.19 | 143.3 | 37.55 | 137.7 | 36.49 | 131.0 | 32.68 |
| | | 424.0 | 156.2 | 42.49 | 151.5 | 40.95 | 146.8 | 39.98 | 143.3 | 38.31 | 137.7 | 37.21 | 131.0 | 33.31 |
| | | 530.0 | 157.2 | 42.77 | 151.8 | 41.21 | 146.8 | 40.26 | 143.3 | 38.59 | 137.7 | 37.49 | 131.0 | 33.54 |
| | | 636.0 | 157.7 | 42.92 | 152.1 | 41.36 | 146.8 | 40.39 | 143.3 | 38.74 | 137.7 | 37.62 | 131.0 | 33.66 |
| | 10 | 169.6 | 154.3 | 37.28 | 150.5 | 36.01 | 146.4 | 35.23 | 143.0 | 34.04 | 137.4 | 32.93 | 130.8 | 29.60 |
| | | 212.0 | 154.9 | 37.36 | 150.9 | 36.11 | 146.5 | 35.33 | 143.3 | 34.10 | 137.7 | 32.90 | 131.0 | 29.64 |
| | | 424.0 | 157.2 | 37.62 | 152.4 | 36.52 | 147.4 | 35.74 | 144.2 | 34.28 | 138.6 | 32.81 | 131.7 | 29.77 |
| | | 530.0 | 158.1 | 37.62 | 153.1 | 36.52 | 148.0 | 35.66 | 144.3 | 34.19 | 138.9 | 32.94 | 132.0 | 30.10 |
| | | 636.0 | 158.4 | 37.62 | 153.4 | 36.52 | 148.3 | 35.61 | 144.6 | 34.13 | 138.9 | 33.02 | 132.3 | 30.26 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 169.6 | 154.7 | 33.00 | 150.6 | 32.08 | 146.2 | 31.52 | 142.7 | 30.77 | 137.3 | 29.54 | 130.7 | 26.77 |
| | | 212.0 | 155.3 | 32.94 | 151.2 | 32.08 | 146.8 | 31.52 | 143.3 | 30.64 | 137.7 | 29.32 | 131.0 | 26.65 |
| | | 424.0 | 158.0 | 32.75 | 153.4 | 32.08 | 148.4 | 31.52 | 144.9 | 30.20 | 139.5 | 28.44 | 132.3 | 26.18 |
| | | 530.0 | 158.8 | 32.53 | 154.3 | 31.80 | 149.2 | 31.11 | 145.5 | 29.77 | 139.9 | 28.44 | 133.0 | 26.65 |
| | | 636.0 | 159.3 | 32.41 | 154.6 | 31.65 | 149.6 | 30.89 | 145.8 | 29.57 | 140.1 | 28.44 | 133.5 | 26.87 |
| | 20 | 169.6 | 157.5 | 28.47 | 153.3 | 27.81 | 148.3 | 27.12 | 144.3 | 26.65 | 139.2 | 25.89 | 131.7 | 24.22 |
| | | 212.0 | 158.4 | 28.53 | 153.7 | 27.81 | 148.7 | 27.12 | 144.9 | 26.65 | 139.5 | 25.77 | 132.3 | 24.17 |
| | | 424.0 | 161.8 | 28.76 | 155.9 | 27.81 | 150.5 | 27.12 | 147.1 | 26.65 | 141.1 | 25.33 | 134.3 | 23.98 |
| | | 530.0 | 162.8 | 28.76 | 157.2 | 27.81 | 151.4 | 27.12 | 147.4 | 26.18 | 142.0 | 25.33 | 134.8 | 23.98 |
| | | 636.0 | 163.1 | 28.76 | 157.8 | 27.81 | 151.8 | 27.12 | 147.7 | 25.96 | 142.4 | 25.33 | 134.9 | 23.98 |
| | 25 | 169.6 | 162.5 | 25.92 | 157.7 | 24.96 | 151.4 | 24.57 | 148.0 | 23.63 | 142.9 | 22.76 | 135.2 | 20.86 |
| | | 212.0 | 162.8 | 25.87 | 157.7 | 24.86 | 151.4 | 24.45 | 148.0 | 23.53 | 142.9 | 22.66 | 135.2 | 20.86 |
| | | 424.0 | 164.1 | 25.68 | 157.7 | 24.45 | 151.4 | 23.98 | 148.0 | 23.10 | 142.9 | 22.19 | 135.2 | 20.86 |
| | | 530.0 | 165.0 | 25.68 | 157.7 | 24.54 | 151.4 | 23.53 | 148.0 | 23.10 | 142.9 | 21.78 | 135.2 | 20.45 |
| | | 636.0 | 165.3 | 25.68 | 157.7 | 24.58 | 151.4 | 23.29 | 148.0 | 23.10 | 142.9 | 21.56 | 135.2 | 20.24 |
| | 30 | 169.6 | 165.0 | 23.63 | 157.7 | 22.76 | 151.4 | 21.90 | 148.0 | 21.43 | 142.9 | 20.11 | 135.2 | 18.77 |
| | | 212.0 | 165.0 | 23.53 | 157.7 | 22.66 | 151.4 | 21.78 | 148.0 | 21.31 | 142.9 | 19.99 | 135.2 | 18.66 |
| | | 424.0 | 165.0 | 23.10 | 157.7 | 22.19 | 151.4 | 21.31 | 148.0 | 20.86 | 142.9 | 19.52 | 135.2 | 18.20 |
| | | 530.0 | 165.0 | 22.94 | 157.7 | 21.78 | 151.4 | 20.86 | 148.0 | 20.45 | 142.9 | 19.52 | 135.2 | 18.20 |
| | | 636.0 | 165.0 | 22.84 | 157.7 | 21.56 | 151.4 | 20.62 | 148.0 | 20.24 | 142.9 | 19.52 | 135.2 | 18.20 |
| | 35 | 169.6 | 165.0 | 22.41 | 157.7 | 20.96 | 151.4 | 20.11 | 148.0 | 19.23 | 142.9 | 18.29 | 135.2 | 16.97 |
| | | 212.0 | 165.0 | 22.19 | 157.7 | 20.86 | 151.4 | 19.99 | 148.0 | 19.11 | 142.9 | 18.20 | 135.2 | 16.87 |
| | | 424.0 | 165.0 | 21.31 | 157.7 | 20.45 | 151.4 | 19.52 | 148.0 | 18.66 | 142.9 | 17.79 | 135.2 | 16.44 |
| | | 530.0 | 165.0 | 20.77 | 157.7 | 19.99 | 151.4 | 19.11 | 148.0 | 18.66 | 142.9 | 17.79 | 135.2 | 16.44 |
| | | 636.0 | 165.0 | 20.49 | 157.7 | 19.76 | 151.4 | 18.91 | 148.0 | 18.66 | 142.9 | 17.79 | 135.2 | 16.44 |
| | 40 | 169.6 | 165.0 | 21.09 | 157.7 | 20.21 | 151.4 | 18.88 | 148.0 | 17.91 | 142.9 | 16.97 | 135.2 | 15.64 |
| | | 212.0 | 165.0 | 20.86 | 157.7 | 19.99 | 151.4 | 18.66 | 148.0 | 17.79 | 142.9 | 16.87 | 135.2 | 15.53 |
| | | 424.0 | 165.0 | 19.99 | 157.7 | 19.11 | 151.4 | 17.79 | 148.0 | 17.32 | 142.9 | 16.44 | 135.2 | 15.12 |
| | | 530.0 | 165.0 | 19.71 | 157.7 | 18.66 | 151.4 | 17.79 | 148.0 | 16.87 | 142.9 | 15.99 | 135.2 | 14.65 |
| | | 636.0 | 165.0 | 19.58 | 157.7 | 18.42 | 151.4 | 17.79 | 148.0 | 16.63 | 142.9 | 15.75 | 135.2 | 14.43 |
| | 45 | 169.6 | 165.0 | 19.74 | 157.7 | 19.45 | 151.4 | 17.66 | 148.0 | 16.56 | 142.9 | 15.64 | 135.2 | 14.30 |
| | | 212.0 | 165.0 | 19.52 | 157.7 | 19.11 | 151.4 | 17.32 | 148.0 | 16.44 | 142.9 | 15.53 | 135.2 | 14.20 |
| | | 424.0 | 165.0 | 18.66 | 157.7 | 17.79 | 151.4 | 15.99 | 148.0 | 15.99 | 142.9 | 15.12 | 135.2 | 13.79 |
| | | 530.0 | 165.0 | 18.66 | 157.7 | 17.32 | 151.4 | 16.44 | 148.0 | 15.12 | 142.9 | 14.20 | 135.2 | 12.86 |
| | | 636.0 | 165.0 | 18.66 | 157.7 | 17.09 | 151.4 | 16.69 | 148.0 | 14.68 | 142.9 | 13.73 | 135.2 | 12.41 |
| 100 | -5 | 169.6 | 55.7 | 28.28 | 55.3 | 26.65 | 55.0 | 24.45 | 54.7 | 23.42 | 54.1 | 22.38 | 53.1 | 20.36 |
| | | 212.0 | 57.6 | 28.76 | 57.2 | 27.15 | 56.9 | 24.99 | 56.5 | 23.94 | 55.9 | 22.88 | 55.0 | 20.81 |
| | | 424.0 | 65.3 | 30.70 | 64.8 | 29.17 | 64.4 | 27.12 | 63.8 | 25.96 | 63.2 | 24.86 | 62.2 | 22.60 |
| | | 530.0 | 72.0 | 32.68 | 71.6 | 31.20 | 71.1 | 29.23 | 70.4 | 28.03 | 70.1 | 26.78 | 68.8 | 24.35 |
| | | 636.0 | 75.5 | 33.66 | 74.8 | 32.21 | 74.5 | 30.29 | 73.9 | 29.07 | 73.5 | 27.75 | 72.0 | 25.23 |
| | 0 | 169.6 | 99.6 | 38.69 | 97.4 | 37.53 | 95.3 | 35.83 | 93.7 | 34.32 | 92.1 | 32.85 | 88.9 | 29.82 |
| | | 212.0 | 100.2 | 38.78 | 98.0 | 37.62 | 95.9 | 35.92 | 94.3 | 34.41 | 92.7 | 32.94 | 89.3 | 29.92 |
| | | 424.0 | 102.5 | 39.15 | 100.3 | 38.00 | 98.1 | 36.34 | 96.5 | 34.82 | 94.9 | 33.31 | 91.4 | 30.29 |
| | | 530.0 | 104.0 | 39.15 | 101.8 | 38.00 | 99.6 | 36.34 | 97.8 | 34.82 | 96.2 | 33.31 | 92.8 | 30.29 |
| | | 636.0 | 104.9 | 39.15 | 102.7 | 38.00 | 100.5 | 36.34 | 98.6 | 34.82 | 96.8 | 33.31 | 93.6 | 30.29 |
| | 5 | 169.6 | 147.0 | 41.58 | 142.1 | 40.57 | 138.3 | 39.00 | 135.7 | 37.34 | 129.2 | 35.74 | 123.2 | 32.50 |
| | | 212.0 | 147.4 | 41.77 | 142.4 | 40.76 | 138.6 | 39.19 | 135.7 | 37.55 | 129.2 | 35.92 | 123.2 | 32.68 |
| | | 424.0 | 149.6 | 42.49 | 143.3 | 41.49 | 138.6 | 39.98 | 135.7 | 38.31 | 129.2 | 36.67 | 123.2 | 33.31 |
| | | 530.0 | 150.5 | 42.77 | 143.7 | 41.77 | 138.6 | 40.26 | 135.7 | 38.59 | 129.2 | 36.90 | 123.2 | 33.54 |
| | | 636.0 | 150.9 | 42.92 | 143.9 | 41.90 | 138.6 | 40.39 | 135.7 | 38.74 | 129.2 | 37.02 | 123.2 | 33.66 |
| | 10 | 169.6 | 147.7 | 37.18 | 142.6 | 36.36 | 138.6 | 35.23 | 135.7 | 34.04 | 129.2 | 32.37 | 123.2 | 29.60 |
| | | 212.0 | 148.1 | 37.36 | 142.7 | 36.49 | 138.6 | 35.33 | 135.7 | 34.10 | 129.2 | 32.40 | 123.2 | 29.64 |
| | | 424.0 | 149.6 | 38.05 | 143.6 | 36.95 | 138.6 | 35.74 | 135.7 | 34.28 | 129.2 | 32.53 | 123.2 | 29.77 |
| | | 530.0 | 150.6 | 37.90 | 144.2 | 36.95 | 138.6 | 35.66 | 135.7 | 34.19 | 129.2 | 32.44 | 123.2 | 29.64 |
| | | 636.0 | 151.1 | 37.84 | 144.5 | 36.95 | 138.6 | 35.61 | 135.7 | 34.13 | 129.2 | 32.40 | 123.2 | 29.57 |
| | 15 | 169.6 | 148.6 | 32.78 | 143.1 | 32.24 | 138.6 | 31.52 | 135.7 | 30.77 | 129.2 | 28.97 | 123.2 | 26.77 |
| | | 212.0 | 148.7 | 32.94 | 143.3 | 32.25 | 138.6 | 31.52 | 135.7 | 30.64 | 129.2 | 28.85 | 123.2 | 26.65 |
| | | 424.0 | 149.6 | 33.59 | 143.6 | 32.34 | 138.6 | 31.52 | 135.7 | 30.20 | 129.2 | 28.44 | 123.2 | 26.18 |
| | | 530.0 | 150.9 | 33.03 | 144.3 | 32.08 | 138.6 | 31.11 | 135.7 | 29.77 | 129.2 | 27.97 | 123.2 | 25.77 |
| | | 636.0 | 151.5 | 32.75 | 144.9 | 31.93 | 138.6 | 30.89 | 135.7 | 29.57 | 129.2 | 27.75 | 123.2 | 25.58 |
| | 20 | 169.6 | 149.3 | 28.03 | 143.9 | 27.31 | 138.6 | 26.65 | 135.7 | 26.30 | 129.2 | 24.57 | 123.2 | 23.35 |
| | | 212.0 | 149.9 | 28.16 | 144.0 | 27.34 | 138.6 | 26.65 | 135.7 | 26.18 | 129.2 | 24.45 | 123.2 | 23.10 |
| | | 424.0 | 152.1 | 28.67 | 144.3 | 27.43 | 138.6 | 26.65 | 135.7 | 25.77 | 129.2 | 23.98 | 123.2 | 22.19 |
| | | 530.0 | 153.1 | 28.16 | 145.8 | 27.21 | 138.6 | 26.18 | 135.7 | 25.33 | 129.2 | 23.53 | 123.2 | 21.78 |
| | | 636.0 | 153.4 | 27.91 | 146.4 | 27.09 | 138.6 | 25.96 | 135.7 | 25.08 | 129.2 | 23.29 | 123.2 | 21.56 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 169.6 | 151.2 | 24.51 | 146.2 | 23.75 | 138.6 | 22.76 | 135.7 | 21.90 | 129.2 | 20.56 | 123.2 | 18.66 |
| | | 212.0 | 151.8 | 24.54 | 146.2 | 23.63 | 138.6 | 22.66 | 135.7 | 21.78 | 129.2 | 20.45 | 123.2 | 18.66 |
| | | 424.0 | 154.0 | 24.63 | 146.2 | 23.10 | 138.6 | 22.19 | 135.7 | 21.31 | 129.2 | 19.99 | 123.2 | 18.66 |
| | | 530.0 | 154.7 | 24.07 | 146.2 | 22.94 | 138.6 | 21.78 | 135.7 | 20.86 | 129.2 | 19.99 | 123.2 | 18.20 |
| | | 636.0 | 155.2 | 23.79 | 146.2 | 22.84 | 138.6 | 21.56 | 135.7 | 20.62 | 129.2 | 19.99 | 123.2 | 17.97 |
| | 30 | 169.6 | 154.7 | 22.31 | 146.2 | 20.56 | 138.6 | 19.17 | 135.7 | 18.77 | 129.2 | 17.32 | 123.2 | 16.56 |
| | | 212.0 | 154.7 | 22.19 | 146.2 | 20.45 | 138.6 | 19.11 | 135.7 | 18.66 | 129.2 | 17.32 | 123.2 | 16.44 |
| | | 424.0 | 154.7 | 21.78 | 146.2 | 19.99 | 138.6 | 18.92 | 135.7 | 18.20 | 129.2 | 17.32 | 123.2 | 15.99 |
| | | 530.0 | 154.7 | 21.31 | 146.2 | 19.99 | 138.6 | 18.66 | 135.7 | 18.20 | 129.2 | 16.87 | 123.2 | 15.99 |
| | | 636.0 | 154.7 | 21.09 | 146.2 | 19.99 | 138.6 | 18.51 | 135.7 | 18.20 | 129.2 | 16.63 | 123.2 | 15.99 |
| | 35 | 169.6 | 154.7 | 20.68 | 146.2 | 18.88 | 138.6 | 16.91 | 135.7 | 16.56 | 129.2 | 15.64 | 123.2 | 14.30 |
| | | 212.0 | 154.7 | 20.45 | 146.2 | 18.66 | 138.6 | 16.87 | 135.7 | 16.44 | 129.2 | 15.53 | 123.2 | 14.20 |
| | | 424.0 | 154.7 | 19.52 | 146.2 | 17.79 | 138.6 | 16.68 | 135.7 | 15.99 | 129.2 | 15.12 | 123.2 | 13.79 |
| | | 530.0 | 154.7 | 19.52 | 146.2 | 17.79 | 138.6 | 16.44 | 135.7 | 15.99 | 129.2 | 15.12 | 123.2 | 13.79 |
| | | 636.0 | 154.7 | 19.52 | 146.2 | 17.79 | 138.6 | 16.34 | 135.7 | 15.99 | 129.2 | 15.12 | 123.2 | 13.79 |
| | 40 | 169.6 | 154.7 | 19.35 | 146.2 | 17.54 | 138.6 | 15.15 | 135.7 | 14.77 | 129.2 | 13.89 | 123.2 | 12.98 |
| | | 212.0 | 154.7 | 19.11 | 146.2 | 17.32 | 138.6 | 15.12 | 135.7 | 14.65 | 129.2 | 13.79 | 123.2 | 12.86 |
| | | 424.0 | 154.7 | 18.20 | 146.2 | 16.44 | 138.6 | 14.93 | 135.7 | 14.20 | 129.2 | 13.33 | 123.2 | 12.45 |
| | | 530.0 | 154.7 | 17.79 | 146.2 | 16.44 | 138.6 | 14.65 | 135.7 | 14.20 | 129.2 | 13.33 | 123.2 | 12.45 |
| | | 636.0 | 154.7 | 17.57 | 146.2 | 16.44 | 138.6 | 14.52 | 135.7 | 14.20 | 129.2 | 13.33 | 123.2 | 12.45 |
| | 45 | 169.6 | 154.7 | 18.01 | 146.2 | 16.21 | 138.6 | 13.36 | 135.7 | 12.98 | 129.2 | 12.10 | 123.2 | 11.63 |
| | | 212.0 | 154.7 | 17.79 | 146.2 | 15.99 | 138.6 | 13.33 | 135.7 | 12.86 | 129.2 | 12.00 | 123.2 | 11.53 |
| | | 424.0 | 154.7 | 16.87 | 146.2 | 15.12 | 138.6 | 13.14 | 135.7 | 12.45 | 129.2 | 11.53 | 123.2 | 11.12 |
| | | 530.0 | 154.7 | 15.99 | 146.2 | 15.12 | 138.6 | 12.86 | 135.7 | 12.45 | 129.2 | 11.53 | 123.2 | 11.12 |
| | | 636.0 | 154.7 | 15.55 | 146.2 | 15.12 | 138.6 | 12.73 | 135.7 | 12.45 | 129.2 | 11.53 | 123.2 | 11.12 |
| 90 | -5 | 169.6 | 52.5 | 26.24 | 50.9 | 23.89 | 49.4 | 20.99 | 49.1 | 20.01 | 48.7 | 19.29 | 47.8 | 17.31 |
| | | 212.0 | 54.4 | 26.69 | 52.8 | 24.35 | 51.2 | 21.46 | 50.9 | 20.45 | 50.3 | 19.71 | 49.6 | 17.69 |
| | | 424.0 | 61.6 | 28.48 | 59.7 | 26.15 | 57.9 | 23.29 | 57.5 | 22.19 | 57.2 | 21.41 | 55.9 | 19.20 |
| | | 530.0 | 68.2 | 30.29 | 66.0 | 27.97 | 63.9 | 25.14 | 63.5 | 23.94 | 63.1 | 23.07 | 61.9 | 20.71 |
| | | 636.0 | 71.3 | 31.18 | 69.1 | 28.91 | 67.0 | 26.06 | 66.4 | 24.82 | 66.0 | 23.89 | 64.8 | 21.49 |
| | 0 | 169.6 | 94.0 | 35.74 | 89.8 | 33.54 | 85.5 | 30.80 | 84.3 | 29.38 | 83.0 | 28.28 | 79.8 | 25.39 |
| | | 212.0 | 94.6 | 35.83 | 90.2 | 33.63 | 86.1 | 30.89 | 84.8 | 29.45 | 83.3 | 28.35 | 80.4 | 25.46 |
| | | 424.0 | 96.8 | 36.21 | 92.4 | 34.00 | 88.3 | 31.20 | 86.8 | 29.77 | 85.4 | 28.67 | 82.3 | 25.74 |
| | | 530.0 | 98.3 | 36.21 | 93.7 | 34.00 | 89.6 | 31.20 | 88.0 | 29.77 | 86.8 | 28.67 | 83.6 | 25.74 |
| | | 636.0 | 99.0 | 36.21 | 94.5 | 34.00 | 90.2 | 31.20 | 88.7 | 29.77 | 87.4 | 28.67 | 84.2 | 25.74 |
| | 5 | 169.6 | 132.9 | 38.37 | 128.6 | 36.21 | 124.5 | 33.53 | 122.0 | 31.96 | 116.6 | 30.76 | 111.0 | 27.62 |
| | | 212.0 | 133.0 | 38.56 | 128.5 | 36.39 | 124.5 | 33.69 | 122.0 | 32.12 | 116.6 | 30.92 | 111.0 | 27.75 |
| | | 424.0 | 133.6 | 39.25 | 128.2 | 37.08 | 124.5 | 34.32 | 122.0 | 32.75 | 116.6 | 31.56 | 111.0 | 28.31 |
| | | 530.0 | 134.3 | 39.47 | 128.5 | 37.31 | 124.5 | 34.60 | 122.0 | 33.00 | 116.6 | 31.80 | 111.0 | 28.53 |
| | | 636.0 | 134.8 | 39.59 | 128.8 | 37.43 | 124.5 | 34.73 | 122.0 | 33.10 | 116.6 | 31.90 | 111.0 | 28.66 |
| | 10 | 169.6 | 133.6 | 33.88 | 129.1 | 32.22 | 124.5 | 30.33 | 122.0 | 29.10 | 116.6 | 27.91 | 111.0 | 25.15 |
| | | 212.0 | 133.6 | 33.91 | 128.9 | 32.25 | 124.5 | 30.36 | 122.0 | 29.13 | 116.6 | 27.88 | 111.0 | 25.18 |
| | | 424.0 | 133.3 | 34.00 | 128.2 | 32.40 | 124.5 | 30.51 | 122.0 | 29.26 | 116.6 | 27.81 | 111.0 | 25.27 |
| | | 530.0 | 134.2 | 33.91 | 128.6 | 32.30 | 124.5 | 30.42 | 122.0 | 29.17 | 116.6 | 27.88 | 111.0 | 25.36 |
| | | 636.0 | 134.6 | 33.87 | 128.9 | 32.25 | 124.5 | 30.36 | 122.0 | 29.13 | 116.6 | 27.94 | 111.0 | 25.42 |
| | 15 | 169.6 | 134.2 | 29.35 | 129.5 | 28.28 | 124.5 | 27.22 | 122.0 | 26.30 | 116.6 | 25.08 | 111.0 | 22.76 |
| | | 212.0 | 134.2 | 29.23 | 129.2 | 28.16 | 124.5 | 27.12 | 122.0 | 26.18 | 116.6 | 24.86 | 111.0 | 22.66 |
| | | 424.0 | 133.2 | 28.76 | 128.5 | 27.71 | 124.5 | 26.65 | 122.0 | 25.77 | 116.6 | 23.98 | 111.0 | 22.19 |
| | | 530.0 | 134.2 | 28.35 | 128.8 | 27.28 | 124.5 | 26.18 | 122.0 | 25.33 | 116.6 | 23.98 | 111.0 | 22.19 |
| | | 636.0 | 134.5 | 28.13 | 128.9 | 27.09 | 124.5 | 25.96 | 122.0 | 25.08 | 116.6 | 23.98 | 111.0 | 22.19 |
| | 20 | 169.6 | 135.1 | 24.77 | 130.1 | 24.05 | 124.5 | 23.23 | 122.0 | 22.31 | 116.6 | 21.53 | 111.0 | 20.21 |
| | | 212.0 | 135.1 | 24.77 | 129.8 | 23.98 | 124.5 | 23.10 | 122.0 | 22.19 | 116.6 | 21.31 | 111.0 | 19.99 |
| | | 424.0 | 134.5 | 24.77 | 128.8 | 23.70 | 124.5 | 22.66 | 122.0 | 21.78 | 116.6 | 20.45 | 111.0 | 19.11 |
| | | 530.0 | 134.8 | 24.35 | 129.2 | 23.53 | 124.5 | 22.66 | 122.0 | 21.78 | 116.6 | 20.45 | 111.0 | 19.11 |
| | | 636.0 | 135.1 | 24.14 | 129.4 | 23.44 | 124.5 | 22.66 | 122.0 | 21.78 | 116.6 | 20.45 | 111.0 | 19.11 |
| | 25 | 169.6 | 137.4 | 21.65 | 131.7 | 20.49 | 124.5 | 19.64 | 122.0 | 18.66 | 116.6 | 17.91 | 111.0 | 16.56 |
| | | 212.0 | 137.7 | 21.59 | 131.7 | 20.45 | 124.5 | 19.52 | 122.0 | 18.66 | 116.6 | 17.79 | 111.0 | 16.44 |
| | | 424.0 | 138.9 | 21.41 | 131.7 | 20.27 | 124.5 | 19.11 | 122.0 | 18.66 | 116.6 | 17.32 | 111.0 | 15.99 |
| | | 530.0 | 139.5 | 20.86 | 131.7 | 19.80 | 124.5 | 19.11 | 122.0 | 18.20 | 116.6 | 17.32 | 111.0 | 15.99 |
| | | 636.0 | 139.8 | 20.58 | 131.7 | 19.58 | 124.5 | 19.11 | 122.0 | 17.97 | 116.6 | 17.32 | 111.0 | 15.99 |
| | 30 | 169.6 | 139.5 | 19.64 | 131.7 | 18.29 | 124.5 | 16.97 | 122.0 | 16.56 | 116.6 | 15.64 | 111.0 | 14.20 |
| | | 212.0 | 139.5 | 19.52 | 131.7 | 18.20 | 124.5 | 16.87 | 122.0 | 16.44 | 116.6 | 15.53 | 111.0 | 14.20 |
| | | 424.0 | 139.5 | 19.11 | 131.7 | 17.79 | 124.5 | 16.44 | 122.0 | 15.99 | 116.6 | 15.12 | 111.0 | 14.20 |
| | | 530.0 | 139.5 | 18.66 | 131.7 | 17.32 | 124.5 | 16.44 | 122.0 | 15.99 | 116.6 | 15.12 | 111.0 | 13.79 |
| | | 636.0 | 139.5 | 18.42 | 131.7 | 17.09 | 124.5 | 16.44 | 122.0 | 15.99 | 116.6 | 15.12 | 111.0 | 13.58 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Heating Capacity(44HP)

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 169.6 | 139.5 | 17.91 | 131.7 | 16.56 | 124.5 | 15.24 | 122.0 | 14.77 | 116.6 | 13.89 | 111.0 | 12.98 |
| | | 212.0 | 139.5 | 17.79 | 131.7 | 16.44 | 124.5 | 15.12 | 122.0 | 14.65 | 116.6 | 13.79 | 111.0 | 12.86 |
| | | 424.0 | 139.5 | 17.32 | 131.7 | 15.99 | 124.5 | 14.65 | 122.0 | 14.20 | 116.6 | 13.33 | 111.0 | 12.45 |
| | | 530.0 | 139.5 | 16.87 | 131.7 | 15.53 | 124.5 | 14.20 | 122.0 | 13.79 | 116.6 | 13.33 | 111.0 | 12.45 |
| | | 636.0 | 139.5 | 16.63 | 131.7 | 15.30 | 124.5 | 13.96 | 122.0 | 13.58 | 116.6 | 13.33 | 111.0 | 12.45 |
| | 40 | 169.6 | 139.5 | 16.69 | 131.7 | 15.24 | 124.5 | 13.45 | 122.0 | 12.98 | 116.6 | 12.57 | 111.0 | 11.63 |
| | | 212.0 | 139.5 | 16.44 | 131.7 | 15.12 | 124.5 | 13.33 | 122.0 | 12.86 | 116.6 | 12.45 | 111.0 | 11.53 |
| | | 424.0 | 139.5 | 15.53 | 131.7 | 14.65 | 124.5 | 12.86 | 122.0 | 12.45 | 116.6 | 12.00 | 111.0 | 11.12 |
| | | 530.0 | 139.5 | 15.53 | 131.7 | 14.65 | 124.5 | 12.86 | 122.0 | 12.45 | 116.6 | 12.00 | 111.0 | 11.12 |
| | | 636.0 | 139.5 | 15.53 | 131.7 | 14.65 | 124.5 | 12.86 | 122.0 | 12.45 | 116.6 | 12.00 | 111.0 | 11.12 |
| | 45 | 169.6 | 139.5 | 15.46 | 131.7 | 13.89 | 124.5 | 11.63 | 122.0 | 11.25 | 116.6 | 11.25 | 111.0 | 10.31 |
| | | 212.0 | 139.5 | 15.12 | 131.7 | 13.79 | 124.5 | 11.53 | 122.0 | 11.12 | 116.6 | 11.12 | 111.0 | 10.21 |
| | | 424.0 | 139.5 | 13.79 | 131.7 | 13.33 | 124.5 | 11.12 | 122.0 | 10.66 | 116.6 | 10.66 | 111.0 | 9.78 |
| | | 530.0 | 139.5 | 14.20 | 131.7 | 13.79 | 124.5 | 11.53 | 122.0 | 11.12 | 116.6 | 10.66 | 111.0 | 9.78 |
| | | 636.0 | 139.5 | 14.40 | 131.7 | 14.02 | 124.5 | 11.75 | 122.0 | 11.35 | 116.6 | 10.66 | 111.0 | 9.78 |
| 80 | -5 | 169.6 | 49.7 | 18.70 | 46.6 | 17.98 | 44.1 | 17.22 | 43.7 | 16.65 | 43.4 | 15.87 | 42.5 | 14.62 |
| | | 212.0 | 51.5 | 19.11 | 48.1 | 18.38 | 45.6 | 17.60 | 45.2 | 17.00 | 44.9 | 16.22 | 44.0 | 14.93 |
| | | 424.0 | 58.1 | 20.77 | 54.6 | 19.95 | 51.6 | 19.07 | 51.0 | 18.42 | 50.9 | 17.60 | 49.7 | 16.18 |
| | | 530.0 | 64.4 | 22.38 | 60.3 | 21.50 | 56.9 | 20.58 | 56.3 | 19.89 | 56.0 | 18.98 | 55.0 | 17.47 |
| | | 636.0 | 67.5 | 23.19 | 63.1 | 22.29 | 59.7 | 21.34 | 59.1 | 20.64 | 58.8 | 19.67 | 57.5 | 18.10 |
| | 0 | 169.6 | 88.9 | 27.44 | 82.0 | 26.34 | 76.3 | 25.24 | 74.8 | 24.38 | 73.8 | 23.23 | 71.0 | 21.40 |
| | | 212.0 | 89.3 | 27.53 | 82.4 | 26.43 | 76.7 | 25.33 | 75.4 | 24.45 | 74.2 | 23.29 | 71.4 | 21.46 |
| | | 424.0 | 91.5 | 27.84 | 84.3 | 26.74 | 78.6 | 25.59 | 77.0 | 24.73 | 76.1 | 23.57 | 73.2 | 21.69 |
| | | 530.0 | 92.8 | 27.84 | 85.5 | 26.74 | 79.8 | 25.59 | 78.3 | 24.73 | 77.3 | 23.57 | 74.2 | 21.69 |
| | | 636.0 | 93.4 | 27.84 | 86.2 | 26.74 | 80.5 | 25.59 | 78.9 | 24.73 | 77.9 | 23.57 | 74.8 | 21.69 |
| | 5 | 169.6 | 122.9 | 29.85 | 116.0 | 28.72 | 110.9 | 27.41 | 108.4 | 26.52 | 103.7 | 25.27 | 98.7 | 23.26 |
| | | 212.0 | 123.2 | 30.01 | 116.2 | 28.85 | 110.9 | 27.56 | 108.4 | 26.65 | 103.7 | 25.42 | 98.7 | 23.38 |
| | | 424.0 | 124.1 | 30.64 | 117.0 | 29.41 | 111.0 | 28.16 | 108.4 | 27.21 | 103.7 | 25.92 | 98.7 | 23.89 |
| | | 530.0 | 124.1 | 30.83 | 116.9 | 29.64 | 111.0 | 28.35 | 108.4 | 27.38 | 103.7 | 26.09 | 98.7 | 24.04 |
| | | 636.0 | 124.1 | 30.92 | 116.9 | 29.76 | 111.0 | 28.44 | 108.4 | 27.47 | 103.7 | 26.18 | 98.7 | 24.10 |
| | 10 | 169.6 | 123.5 | 27.47 | 116.3 | 26.22 | 110.9 | 24.89 | 108.4 | 24.20 | 103.7 | 22.91 | 98.7 | 21.21 |
| | | 212.0 | 123.6 | 27.43 | 116.6 | 26.18 | 110.9 | 24.90 | 108.4 | 24.22 | 103.7 | 22.94 | 98.7 | 21.22 |
| | | 424.0 | 124.1 | 27.28 | 117.0 | 26.05 | 111.0 | 24.95 | 108.4 | 24.26 | 103.7 | 22.97 | 98.7 | 21.28 |
| | | 530.0 | 124.1 | 27.21 | 116.9 | 26.15 | 111.0 | 25.05 | 108.4 | 24.13 | 103.7 | 22.84 | 98.7 | 21.15 |
| | | 636.0 | 124.1 | 27.15 | 116.9 | 26.18 | 111.0 | 25.08 | 108.4 | 24.05 | 103.7 | 22.76 | 98.7 | 21.06 |
| | 15 | 169.6 | 124.1 | 25.08 | 116.9 | 23.75 | 111.0 | 22.31 | 108.4 | 21.90 | 103.7 | 20.56 | 98.7 | 19.23 |
| | | 212.0 | 124.1 | 24.86 | 116.9 | 23.53 | 111.0 | 22.19 | 108.4 | 21.78 | 103.7 | 20.45 | 98.7 | 19.11 |
| | | 424.0 | 124.1 | 23.98 | 116.9 | 22.66 | 111.0 | 21.78 | 108.4 | 21.31 | 103.7 | 19.99 | 98.7 | 18.66 |
| | | 530.0 | 124.1 | 23.53 | 116.9 | 22.66 | 111.0 | 21.78 | 108.4 | 20.86 | 103.7 | 19.52 | 98.7 | 18.20 |
| | | 636.0 | 124.1 | 23.29 | 116.9 | 22.66 | 111.0 | 21.78 | 108.4 | 20.62 | 103.7 | 19.30 | 98.7 | 17.97 |
| | 20 | 169.6 | 124.1 | 20.96 | 116.9 | 20.11 | 111.0 | 19.11 | 108.4 | 18.77 | 103.7 | 17.91 | 98.7 | 16.56 |
| | | 212.0 | 124.1 | 20.86 | 116.9 | 19.99 | 111.0 | 19.11 | 108.4 | 18.66 | 103.7 | 17.79 | 98.7 | 16.44 |
| | | 424.0 | 124.1 | 20.45 | 116.9 | 19.52 | 111.0 | 19.11 | 108.4 | 18.20 | 103.7 | 17.32 | 98.7 | 15.99 |
| | | 530.0 | 124.1 | 19.99 | 116.9 | 19.11 | 111.0 | 18.66 | 108.4 | 18.20 | 103.7 | 16.87 | 98.7 | 15.99 |
| | | 636.0 | 124.1 | 19.76 | 116.9 | 18.91 | 111.0 | 18.42 | 108.4 | 18.20 | 103.7 | 16.63 | 98.7 | 15.99 |
| | 25 | 169.6 | 124.1 | 18.77 | 116.9 | 17.44 | 111.0 | 16.44 | 108.4 | 16.10 | 103.7 | 15.24 | 98.7 | 14.30 |
| | | 212.0 | 124.1 | 18.66 | 116.9 | 17.32 | 111.0 | 16.44 | 108.4 | 15.99 | 103.7 | 15.12 | 98.7 | 14.20 |
| | | 424.0 | 124.1 | 18.20 | 116.9 | 16.87 | 111.0 | 16.44 | 108.4 | 15.53 | 103.7 | 14.65 | 98.7 | 13.79 |
| | | 530.0 | 124.1 | 17.79 | 116.9 | 16.87 | 111.0 | 15.99 | 108.4 | 15.53 | 103.7 | 14.65 | 98.7 | 13.79 |
| | | 636.0 | 124.1 | 17.57 | 116.9 | 16.87 | 111.0 | 15.75 | 108.4 | 15.53 | 103.7 | 14.65 | 98.7 | 13.79 |
| | 30 | 169.6 | 124.1 | 16.56 | 116.9 | 15.64 | 111.0 | 14.77 | 108.4 | 14.30 | 103.7 | 13.45 | 98.7 | 12.57 |
| | | 212.0 | 124.1 | 16.44 | 116.9 | 15.53 | 111.0 | 14.65 | 108.4 | 14.20 | 103.7 | 13.33 | 98.7 | 12.45 |
| | | 424.0 | 124.1 | 15.99 | 116.9 | 15.12 | 111.0 | 14.20 | 108.4 | 13.79 | 103.7 | 12.86 | 98.7 | 12.00 |
| | | 530.0 | 124.1 | 15.99 | 116.9 | 15.12 | 111.0 | 14.20 | 108.4 | 13.79 | 103.7 | 12.86 | 98.7 | 12.00 |
| | | 636.0 | 124.1 | 15.99 | 116.9 | 15.12 | 111.0 | 14.20 | 108.4 | 13.79 | 103.7 | 12.86 | 98.7 | 12.00 |
| | 35 | 169.6 | 124.1 | 15.24 | 116.9 | 14.30 | 111.0 | 12.98 | 108.4 | 12.45 | 103.7 | 12.10 | 98.7 | 11.12 |
| | | 212.0 | 124.1 | 15.12 | 116.9 | 14.20 | 111.0 | 12.86 | 108.4 | 12.45 | 103.7 | 12.00 | 98.7 | 11.12 |
| | | 424.0 | 124.1 | 14.65 | 116.9 | 13.79 | 111.0 | 12.45 | 108.4 | 12.45 | 103.7 | 11.53 | 98.7 | 11.12 |
| | | 530.0 | 124.1 | 14.65 | 116.9 | 13.33 | 111.0 | 12.45 | 108.4 | 12.00 | 103.7 | 11.53 | 98.7 | 10.66 |
| | | 636.0 | 124.1 | 14.65 | 116.9 | 13.10 | 111.0 | 12.45 | 108.4 | 11.76 | 103.7 | 11.53 | 98.7 | 10.43 |
| | 40 | 169.6 | 124.1 | 14.42 | 116.9 | 12.98 | 111.0 | 11.53 | 108.4 | 11.63 | 103.7 | 10.66 | 98.7 | 10.31 |
| | | 212.0 | 124.1 | 14.20 | 116.9 | 12.86 | 111.0 | 11.53 | 108.4 | 11.53 | 103.7 | 10.66 | 98.7 | 10.21 |
| | | 424.0 | 124.1 | 13.33 | 116.9 | 12.45 | 111.0 | 11.53 | 108.4 | 11.12 | 103.7 | 10.66 | 98.7 | 9.78 |
| | | 530.0 | 124.1 | 13.33 | 116.9 | 12.45 | 111.0 | 11.12 | 108.4 | 11.12 | 103.7 | 10.66 | 98.7 | 9.78 |
| | | 636.0 | 124.1 | 13.33 | 116.9 | 12.45 | 111.0 | 10.91 | 108.4 | 11.12 | 103.7 | 10.66 | 98.7 | 9.78 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 169.6 | 124.1 | 13.67 | 116.9 | 11.63 | 111.0 | 10.09 | 108.4 | 10.88 | 103.7 | 9.21 | 98.7 | 9.55 |
| | | 212.0 | 124.1 | 13.33 | 116.9 | 11.53 | 111.0 | 10.21 | 108.4 | 10.66 | 103.7 | 9.33 | 98.7 | 9.33 |
| | | 424.0 | 124.1 | 12.00 | 116.9 | 11.12 | 111.0 | 10.66 | 108.4 | 9.78 | 103.7 | 9.78 | 98.7 | 8.45 |
| | | 530.0 | 124.1 | 12.00 | 116.9 | 11.53 | 111.0 | 9.78 | 108.4 | 10.21 | 103.7 | 9.78 | 98.7 | 8.86 |
| | | 636.0 | 124.1 | 12.00 | 116.9 | 11.75 | 111.0 | 9.34 | 108.4 | 10.40 | 103.7 | 9.78 | 98.7 | 9.08 |
| 70 | -5 | 169.6 | 43.4 | 16.06 | 40.8 | 15.28 | 38.6 | 14.80 | 38.1 | 13.95 | 38.0 | 13.45 | 37.4 | 12.23 |
| | | 212.0 | 44.9 | 16.40 | 42.1 | 15.62 | 39.9 | 15.12 | 39.5 | 14.24 | 39.3 | 13.74 | 38.6 | 12.50 |
| | | 424.0 | 50.9 | 17.79 | 47.7 | 16.96 | 45.0 | 16.40 | 44.6 | 15.43 | 44.3 | 14.89 | 43.6 | 13.55 |
| | | 530.0 | 56.2 | 19.20 | 52.8 | 18.29 | 49.7 | 17.69 | 49.4 | 16.63 | 49.0 | 16.09 | 48.1 | 14.61 |
| | | 636.0 | 59.0 | 19.92 | 55.3 | 18.95 | 52.2 | 18.35 | 51.8 | 17.23 | 51.3 | 16.69 | 50.3 | 15.15 |
| | 0 | 169.6 | 77.6 | 23.51 | 71.7 | 22.41 | 66.6 | 21.66 | 65.4 | 20.39 | 64.4 | 19.70 | 62.2 | 17.92 |
| | | 212.0 | 78.2 | 23.57 | 72.3 | 22.47 | 67.0 | 21.74 | 66.0 | 20.45 | 64.8 | 19.76 | 62.5 | 17.97 |
| | | 424.0 | 79.9 | 23.85 | 73.9 | 22.69 | 68.5 | 22.00 | 67.5 | 20.68 | 66.3 | 19.99 | 63.9 | 18.16 |
| | | 530.0 | 81.1 | 23.85 | 75.1 | 22.69 | 69.7 | 22.00 | 68.5 | 20.68 | 67.5 | 19.99 | 65.0 | 18.16 |
| | | 636.0 | 81.7 | 23.85 | 75.7 | 22.69 | 70.1 | 22.00 | 68.9 | 20.68 | 67.9 | 19.99 | 65.4 | 18.16 |
| | 5 | 169.6 | 107.2 | 25.61 | 101.6 | 24.36 | 96.8 | 23.57 | 94.9 | 22.22 | 90.5 | 21.43 | 86.2 | 19.48 |
| | | 212.0 | 107.5 | 25.74 | 101.8 | 24.48 | 96.8 | 23.70 | 94.9 | 22.34 | 90.5 | 21.56 | 86.2 | 19.58 |
| | | 424.0 | 108.4 | 26.24 | 102.7 | 24.99 | 96.9 | 24.22 | 94.9 | 22.75 | 90.5 | 22.00 | 86.2 | 19.99 |
| | | 530.0 | 108.4 | 26.43 | 102.5 | 25.18 | 96.9 | 24.39 | 94.9 | 22.94 | 90.5 | 22.15 | 86.2 | 20.12 |
| | | 636.0 | 108.4 | 26.52 | 102.4 | 25.27 | 96.9 | 24.49 | 94.9 | 23.03 | 90.5 | 22.22 | 86.2 | 20.20 |
| | 10 | 169.6 | 107.8 | 23.57 | 102.1 | 22.28 | 96.9 | 21.46 | 94.9 | 20.27 | 90.5 | 19.43 | 86.2 | 17.79 |
| | | 212.0 | 107.8 | 23.53 | 102.1 | 22.25 | 96.9 | 21.41 | 94.9 | 20.27 | 90.5 | 19.43 | 86.2 | 17.79 |
| | | 424.0 | 108.4 | 23.35 | 102.5 | 22.06 | 96.9 | 21.22 | 94.9 | 20.27 | 90.5 | 19.43 | 86.2 | 17.79 |
| | | 530.0 | 108.4 | 23.44 | 102.5 | 22.15 | 96.9 | 21.31 | 94.9 | 20.36 | 90.5 | 19.30 | 86.2 | 17.82 |
| | | 636.0 | 108.4 | 23.48 | 102.5 | 22.19 | 96.9 | 21.37 | 94.9 | 20.40 | 90.5 | 19.23 | 86.2 | 17.85 |
| | 15 | 169.6 | 108.4 | 21.53 | 102.5 | 20.21 | 96.9 | 19.35 | 94.9 | 18.29 | 90.5 | 17.44 | 86.2 | 16.10 |
| | | 212.0 | 108.4 | 21.31 | 102.5 | 19.99 | 96.9 | 19.11 | 94.9 | 18.20 | 90.5 | 17.32 | 86.2 | 15.99 |
| | | 424.0 | 108.4 | 20.45 | 102.5 | 19.11 | 96.9 | 18.20 | 94.9 | 17.79 | 90.5 | 16.87 | 86.2 | 15.53 |
| | | 530.0 | 108.4 | 20.45 | 102.5 | 19.11 | 96.9 | 18.20 | 94.9 | 17.79 | 90.5 | 16.44 | 86.2 | 15.53 |
| | | 636.0 | 108.4 | 20.45 | 102.5 | 19.11 | 96.9 | 18.20 | 94.9 | 17.79 | 90.5 | 16.25 | 86.2 | 15.53 |
| | 20 | 169.6 | 108.4 | 17.91 | 102.5 | 16.97 | 96.9 | 16.56 | 94.9 | 16.10 | 90.5 | 15.24 | 86.2 | 14.30 |
| | | 212.0 | 108.4 | 17.79 | 102.5 | 16.87 | 96.9 | 16.44 | 94.9 | 15.99 | 90.5 | 15.12 | 86.2 | 14.20 |
| | | 424.0 | 108.4 | 17.32 | 102.5 | 16.44 | 96.9 | 15.99 | 94.9 | 15.53 | 90.5 | 14.65 | 86.2 | 13.79 |
| | | 530.0 | 108.4 | 17.32 | 102.5 | 16.44 | 96.9 | 15.99 | 94.9 | 15.12 | 90.5 | 14.65 | 86.2 | 13.33 |
| | | 636.0 | 108.4 | 17.32 | 102.5 | 16.44 | 96.9 | 15.99 | 94.9 | 14.90 | 90.5 | 14.65 | 86.2 | 13.10 |
| | 25 | 169.6 | 108.4 | 16.10 | 102.5 | 15.24 | 96.9 | 14.30 | 94.9 | 13.89 | 90.5 | 12.86 | 86.2 | 12.00 |
| | | 212.0 | 108.4 | 15.99 | 102.5 | 15.12 | 96.9 | 14.20 | 94.9 | 13.79 | 90.5 | 12.86 | 86.2 | 12.00 |
| | | 424.0 | 108.4 | 15.53 | 102.5 | 14.65 | 96.9 | 13.79 | 94.9 | 13.33 | 90.5 | 12.86 | 86.2 | 12.00 |
| | | 530.0 | 108.4 | 15.12 | 102.5 | 14.20 | 96.9 | 13.79 | 94.9 | 13.33 | 90.5 | 12.45 | 86.2 | 12.00 |
| | | 636.0 | 108.4 | 14.90 | 102.5 | 13.96 | 96.9 | 13.79 | 94.9 | 13.33 | 90.5 | 12.25 | 86.2 | 12.00 |
| | 30 | 169.6 | 108.4 | 14.30 | 102.5 | 13.45 | 96.9 | 12.57 | 94.9 | 12.00 | 90.5 | 11.63 | 86.2 | 10.66 |
| | | 212.0 | 108.4 | 14.20 | 102.5 | 13.33 | 96.9 | 12.45 | 94.9 | 12.00 | 90.5 | 11.53 | 86.2 | 10.66 |
| | | 424.0 | 108.4 | 13.79 | 102.5 | 12.86 | 96.9 | 12.00 | 94.9 | 12.00 | 90.5 | 11.12 | 86.2 | 10.66 |
| | | 530.0 | 108.4 | 13.79 | 102.5 | 12.86 | 96.9 | 12.00 | 94.9 | 11.53 | 90.5 | 11.12 | 86.2 | 10.66 |
| | | 636.0 | 108.4 | 13.79 | 102.5 | 12.86 | 96.9 | 12.00 | 94.9 | 11.31 | 90.5 | 11.12 | 86.2 | 10.66 |
| | 35 | 169.6 | 108.4 | 12.98 | 102.5 | 12.10 | 96.9 | 11.12 | 94.9 | 11.25 | 90.5 | 10.21 | 86.2 | 9.90 |
| | | 212.0 | 108.4 | 12.86 | 102.5 | 12.00 | 96.9 | 11.12 | 94.9 | 11.12 | 90.5 | 10.21 | 86.2 | 9.78 |
| | | 424.0 | 108.4 | 12.45 | 102.5 | 11.53 | 96.9 | 11.12 | 94.9 | 10.66 | 90.5 | 10.21 | 86.2 | 9.33 |
| | | 530.0 | 108.4 | 12.45 | 102.5 | 11.53 | 96.9 | 10.66 | 94.9 | 10.66 | 90.5 | 10.21 | 86.2 | 9.33 |
| | | 636.0 | 108.4 | 12.45 | 102.5 | 11.53 | 96.9 | 10.43 | 94.9 | 10.66 | 90.5 | 10.21 | 86.2 | 9.33 |
| | 40 | 169.6 | 108.4 | 12.10 | 102.5 | 11.25 | 96.9 | 10.31 | 94.9 | 9.78 | 90.5 | 9.33 | 86.2 | 8.98 |
| | | 212.0 | 108.4 | 12.00 | 102.5 | 11.12 | 96.9 | 10.21 | 94.9 | 9.78 | 90.5 | 9.33 | 86.2 | 8.86 |
| | | 424.0 | 108.4 | 11.53 | 102.5 | 10.66 | 96.9 | 9.78 | 94.9 | 9.78 | 90.5 | 9.33 | 86.2 | 8.45 |
| | | 530.0 | 108.4 | 11.53 | 102.5 | 10.66 | 96.9 | 9.78 | 94.9 | 9.33 | 90.5 | 8.86 | 86.2 | 8.45 |
| | | 636.0 | 108.4 | 11.53 | 102.5 | 10.66 | 96.9 | 9.78 | 94.9 | 9.09 | 90.5 | 8.64 | 86.2 | 8.45 |
| | 45 | 169.6 | 108.4 | 11.25 | 102.5 | 10.31 | 96.9 | 9.55 | 94.9 | 8.36 | 90.5 | 8.45 | 86.2 | 8.11 |
| | | 212.0 | 108.4 | 11.12 | 102.5 | 10.21 | 96.9 | 9.33 | 94.9 | 8.45 | 90.5 | 8.45 | 86.2 | 7.99 |
| | | 424.0 | 108.4 | 10.66 | 102.5 | 9.78 | 96.9 | 8.45 | 94.9 | 8.86 | 90.5 | 8.45 | 86.2 | 7.54 |
| | | 530.0 | 108.4 | 10.66 | 102.5 | 9.78 | 96.9 | 8.86 | 94.9 | 7.99 | 90.5 | 7.54 | 86.2 | 7.54 |
| | | 636.0 | 108.4 | 10.66 | 102.5 | 9.78 | 96.9 | 9.08 | 94.9 | 7.55 | 90.5 | 7.07 | 86.2 | 7.54 |
| 60 | -5 | 169.6 | 37.3 | 13.04 | 34.9 | 12.54 | 33.0 | 12.04 | 32.7 | 11.19 | 32.4 | 11.00 | 31.8 | 9.84 |
| | | 212.0 | 38.6 | 13.33 | 36.1 | 12.82 | 34.2 | 12.32 | 33.7 | 11.44 | 33.6 | 11.25 | 33.0 | 10.06 |
| | | 424.0 | 43.7 | 14.48 | 40.9 | 13.92 | 38.7 | 13.36 | 38.3 | 12.41 | 38.1 | 12.22 | 37.4 | 10.94 |
| | | 530.0 | 48.1 | 15.58 | 45.2 | 15.02 | 42.8 | 14.43 | 42.4 | 13.42 | 42.1 | 13.19 | 41.2 | 11.76 |
| | | 636.0 | 50.6 | 16.13 | 47.2 | 15.59 | 44.9 | 14.96 | 44.3 | 13.92 | 44.3 | 13.67 | 43.1 | 12.19 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



## Heating Capacity(44HP)

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 169.6 | 66.6 | 19.11 | 61.3 | 18.42 | 57.2 | 17.63 | 56.2 | 16.40 | 55.3 | 16.18 | 53.4 | 14.43 |
| | | 212.0 | 67.0 | 19.17 | 61.9 | 18.48 | 57.6 | 17.69 | 56.5 | 16.44 | 55.7 | 16.22 | 53.7 | 14.48 |
| | | 424.0 | 68.5 | 19.39 | 63.2 | 18.66 | 59.1 | 17.92 | 57.8 | 16.63 | 56.9 | 16.40 | 54.7 | 14.61 |
| | | 530.0 | 69.7 | 19.39 | 64.1 | 18.66 | 60.0 | 17.92 | 58.7 | 16.63 | 57.9 | 16.40 | 55.7 | 14.61 |
| | | 636.0 | 70.1 | 19.39 | 64.7 | 18.66 | 60.4 | 17.92 | 59.1 | 16.63 | 58.4 | 16.40 | 56.2 | 14.61 |
| | 5 | 169.6 | 92.1 | 20.80 | 86.8 | 20.02 | 83.3 | 19.20 | 81.1 | 17.88 | 77.7 | 17.60 | 73.9 | 15.68 |
| | | 212.0 | 92.4 | 20.90 | 87.0 | 20.12 | 83.3 | 19.30 | 81.1 | 17.97 | 77.7 | 17.69 | 73.9 | 15.75 |
| | | 424.0 | 93.1 | 21.31 | 87.7 | 20.55 | 83.3 | 19.71 | 81.1 | 18.33 | 77.7 | 18.07 | 73.9 | 16.09 |
| | | 530.0 | 93.1 | 21.50 | 87.6 | 20.68 | 83.3 | 19.86 | 81.1 | 18.48 | 77.7 | 18.16 | 73.9 | 16.22 |
| | | 636.0 | 93.1 | 21.59 | 87.4 | 20.74 | 83.3 | 19.92 | 81.1 | 18.54 | 77.7 | 18.20 | 73.9 | 16.28 |
| | 10 | 169.6 | 92.7 | 19.11 | 87.1 | 18.29 | 83.3 | 17.41 | 81.1 | 16.27 | 77.7 | 15.96 | 73.9 | 14.30 |
| | | 212.0 | 92.7 | 19.11 | 87.3 | 18.29 | 83.3 | 17.41 | 81.1 | 16.31 | 77.7 | 15.94 | 73.9 | 14.33 |
| | | 424.0 | 93.1 | 19.11 | 87.7 | 18.29 | 83.3 | 17.41 | 81.1 | 16.50 | 77.7 | 15.90 | 73.9 | 14.48 |
| | | 530.0 | 93.1 | 19.17 | 87.6 | 18.10 | 83.3 | 17.23 | 81.1 | 16.31 | 77.7 | 15.75 | 73.9 | 14.33 |
| | | 636.0 | 93.1 | 19.18 | 87.4 | 18.01 | 83.3 | 17.13 | 81.1 | 16.22 | 77.7 | 15.69 | 73.9 | 14.27 |
| | 15 | 169.6 | 93.1 | 17.44 | 87.6 | 16.56 | 83.3 | 15.64 | 81.1 | 14.65 | 77.7 | 14.30 | 73.9 | 12.86 |
| | | 212.0 | 93.1 | 17.32 | 87.6 | 16.44 | 83.3 | 15.53 | 81.1 | 14.65 | 77.7 | 14.20 | 73.9 | 12.86 |
| | | 424.0 | 93.1 | 16.87 | 87.6 | 15.99 | 83.3 | 15.12 | 81.1 | 14.65 | 77.7 | 13.79 | 73.9 | 12.86 |
| | | 530.0 | 93.1 | 16.87 | 87.6 | 15.53 | 83.3 | 14.65 | 81.1 | 14.20 | 77.7 | 13.33 | 73.9 | 12.45 |
| | | 636.0 | 93.1 | 16.87 | 87.6 | 15.30 | 83.3 | 14.43 | 81.1 | 13.96 | 77.7 | 13.10 | 73.9 | 12.25 |
| | 20 | 169.6 | 93.1 | 15.24 | 87.6 | 14.30 | 83.3 | 13.45 | 81.1 | 12.98 | 77.7 | 12.57 | 73.9 | 11.63 |
| | | 212.0 | 93.1 | 15.12 | 87.6 | 14.20 | 83.3 | 13.33 | 81.1 | 12.86 | 77.7 | 12.45 | 73.9 | 11.53 |
| | | 424.0 | 93.1 | 14.65 | 87.6 | 13.79 | 83.3 | 12.86 | 81.1 | 12.45 | 77.7 | 12.00 | 73.9 | 11.12 |
| | | 530.0 | 93.1 | 14.65 | 87.6 | 13.79 | 83.3 | 12.86 | 81.1 | 12.45 | 77.7 | 12.00 | 73.9 | 11.12 |
| | | 636.0 | 93.1 | 14.65 | 87.6 | 13.79 | 83.3 | 12.86 | 81.1 | 12.45 | 77.7 | 12.00 | 73.9 | 11.12 |
| | 25 | 169.6 | 93.1 | 13.45 | 87.6 | 12.57 | 83.3 | 11.53 | 81.1 | 11.63 | 77.7 | 10.66 | 73.9 | 10.31 |
| | | 212.0 | 93.1 | 13.33 | 87.6 | 12.45 | 83.3 | 11.53 | 81.1 | 11.53 | 77.7 | 10.66 | 73.9 | 10.21 |
| | | 424.0 | 93.1 | 12.86 | 87.6 | 12.00 | 83.3 | 11.53 | 81.1 | 11.12 | 77.7 | 10.66 | 73.9 | 9.78 |
| | | 530.0 | 93.1 | 12.86 | 87.6 | 12.00 | 83.3 | 11.12 | 81.1 | 11.12 | 77.7 | 10.66 | 73.9 | 9.78 |
| | | 636.0 | 93.1 | 12.86 | 87.6 | 12.00 | 83.3 | 10.91 | 81.1 | 11.12 | 77.7 | 10.66 | 73.9 | 9.78 |
| | 30 | 169.6 | 93.1 | 12.10 | 87.6 | 11.25 | 83.3 | 10.78 | 81.1 | 10.31 | 77.7 | 9.90 | 73.9 | 9.43 |
| | | 212.0 | 93.1 | 12.00 | 87.6 | 11.12 | 83.3 | 10.66 | 81.1 | 10.21 | 77.7 | 9.78 | 73.9 | 9.33 |
| | | 424.0 | 93.1 | 11.53 | 87.6 | 10.66 | 83.3 | 10.21 | 81.1 | 9.78 | 77.7 | 9.33 | 73.9 | 8.86 |
| | | 530.0 | 93.1 | 11.53 | 87.6 | 10.66 | 83.3 | 10.21 | 81.1 | 9.78 | 77.7 | 9.33 | 73.9 | 8.86 |
| | | 636.0 | 93.1 | 11.53 | 87.6 | 10.66 | 83.3 | 10.21 | 81.1 | 9.78 | 77.7 | 9.33 | 73.9 | 8.86 |
| | 35 | 169.6 | 93.1 | 10.66 | 87.6 | 10.31 | 83.3 | 9.33 | 81.1 | 9.43 | 77.7 | 8.98 | 73.9 | 8.58 |
| | | 212.0 | 93.1 | 10.66 | 87.6 | 10.21 | 83.3 | 9.33 | 81.1 | 9.33 | 77.7 | 8.86 | 73.9 | 8.45 |
| | | 424.0 | 93.1 | 10.66 | 87.6 | 9.78 | 83.3 | 9.33 | 81.1 | 8.86 | 77.7 | 8.45 | 73.9 | 7.99 |
| | | 530.0 | 93.1 | 10.66 | 87.6 | 9.78 | 83.3 | 8.86 | 81.1 | 8.86 | 77.7 | 8.45 | 73.9 | 7.99 |
| | | 636.0 | 93.1 | 10.66 | 87.6 | 9.78 | 83.3 | 8.64 | 81.1 | 8.86 | 77.7 | 8.45 | 73.9 | 7.99 |
| | 40 | 169.6 | 93.1 | 9.78 | 87.6 | 9.43 | 83.3 | 8.45 | 81.1 | 8.58 | 77.7 | 8.11 | 73.9 | 7.54 |
| | | 212.0 | 93.1 | 9.78 | 87.6 | 9.33 | 83.3 | 8.45 | 81.1 | 8.45 | 77.7 | 7.99 | 73.9 | 7.54 |
| | | 424.0 | 93.1 | 9.78 | 87.6 | 8.86 | 83.3 | 8.45 | 81.1 | 7.99 | 77.7 | 7.54 | 73.9 | 7.54 |
| | | 530.0 | 93.1 | 9.78 | 87.6 | 8.86 | 83.3 | 8.45 | 81.1 | 7.99 | 77.7 | 7.54 | 73.9 | 7.54 |
| | | 636.0 | 93.1 | 9.78 | 87.6 | 8.86 | 83.3 | 8.45 | 81.1 | 7.99 | 77.7 | 7.54 | 73.9 | 7.54 |
| | 45 | 169.6 | 93.1 | 8.86 | 87.6 | 8.58 | 83.3 | 7.54 | 81.1 | 7.64 | 77.7 | 7.23 | 73.9 | 6.54 |
| | | 212.0 | 93.1 | 8.86 | 87.6 | 8.45 | 83.3 | 7.54 | 81.1 | 7.54 | 77.7 | 7.13 | 73.9 | 6.66 |
| | | 424.0 | 93.1 | 8.86 | 87.6 | 7.99 | 83.3 | 7.54 | 81.1 | 7.13 | 77.7 | 6.66 | 73.9 | 7.13 |
| | | 530.0 | 93.1 | 8.86 | 87.6 | 7.99 | 83.3 | 7.99 | 81.1 | 7.13 | 77.7 | 6.66 | 73.9 | 7.13 |
| | | 636.0 | 93.1 | 8.86 | 87.6 | 7.99 | 83.3 | 8.23 | 81.1 | 7.13 | 77.7 | 6.66 | 73.9 | 7.13 |
| 50 | -5 | 169.6 | 31.1 | 10.40 | 29.2 | 9.84 | 27.6 | 9.31 | 27.1 | 8.80 | 27.0 | 8.27 | 26.5 | 7.83 |
| | | 212.0 | 32.1 | 10.62 | 30.2 | 10.06 | 28.6 | 9.52 | 28.0 | 9.01 | 28.0 | 8.45 | 27.4 | 7.99 |
| | | 424.0 | 36.2 | 11.50 | 34.0 | 10.94 | 32.3 | 10.30 | 31.8 | 9.78 | 31.7 | 9.18 | 31.1 | 8.64 |
| | | 530.0 | 40.2 | 12.41 | 37.7 | 11.76 | 35.5 | 11.12 | 35.2 | 10.56 | 34.9 | 9.87 | 34.5 | 9.33 |
| | | 636.0 | 42.1 | 12.86 | 39.6 | 12.19 | 37.4 | 11.53 | 36.8 | 10.97 | 36.5 | 10.22 | 36.1 | 9.68 |
| | 0 | 169.6 | 55.3 | 15.21 | 51.2 | 14.43 | 47.7 | 13.61 | 46.6 | 12.91 | 45.9 | 12.13 | 44.3 | 11.44 |
| | | 212.0 | 55.7 | 15.25 | 51.6 | 14.48 | 48.0 | 13.64 | 46.9 | 12.95 | 46.2 | 12.17 | 44.6 | 11.50 |
| | | 424.0 | 56.9 | 15.40 | 52.8 | 14.61 | 49.1 | 13.83 | 48.1 | 13.14 | 47.5 | 12.32 | 45.6 | 11.63 |
| | | 530.0 | 57.9 | 15.40 | 53.5 | 14.61 | 49.7 | 13.83 | 48.8 | 13.14 | 48.1 | 12.32 | 46.5 | 11.63 |
| | | 636.0 | 58.4 | 15.40 | 53.8 | 14.61 | 50.0 | 13.83 | 49.3 | 13.14 | 48.4 | 12.32 | 46.8 | 11.63 |
| | 5 | 169.6 | 76.6 | 16.56 | 72.6 | 15.68 | 69.2 | 14.80 | 67.6 | 14.08 | 64.7 | 13.23 | 61.6 | 12.42 |
| | | 212.0 | 76.7 | 16.63 | 72.6 | 15.75 | 69.2 | 14.89 | 67.6 | 14.15 | 64.7 | 13.29 | 61.6 | 12.50 |
| | | 424.0 | 77.3 | 16.96 | 73.2 | 16.09 | 69.4 | 15.21 | 67.6 | 14.43 | 64.7 | 13.51 | 61.6 | 12.76 |
| | | 530.0 | 77.3 | 17.09 | 73.2 | 16.22 | 69.4 | 15.30 | 67.6 | 14.52 | 64.7 | 13.64 | 61.6 | 12.86 |
| | | 636.0 | 77.3 | 17.16 | 73.0 | 16.28 | 69.4 | 15.34 | 67.6 | 14.56 | 64.7 | 13.71 | 61.6 | 12.91 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(44HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 169.6 | 77.0 | 15.24 | 72.7 | 14.36 | 69.2 | 13.48 | 67.6 | 12.89 | 64.7 | 11.91 | 61.6 | 11.38 |
| | | 212.0 | 77.0 | 15.21 | 72.9 | 14.33 | 69.2 | 13.46 | 67.6 | 12.86 | 64.7 | 11.94 | 61.6 | 11.35 |
| | | 424.0 | 77.3 | 15.12 | 73.2 | 14.30 | 69.4 | 13.36 | 67.6 | 12.76 | 64.7 | 12.09 | 61.6 | 11.25 |
| | | 530.0 | 77.3 | 15.21 | 73.2 | 14.33 | 69.4 | 13.42 | 67.6 | 12.82 | 64.7 | 11.91 | 61.6 | 11.31 |
| | | 636.0 | 77.3 | 15.25 | 73.0 | 14.36 | 69.4 | 13.45 | 67.6 | 12.85 | 64.7 | 11.81 | 61.6 | 11.32 |
| | 15 | 169.6 | 77.3 | 13.89 | 73.2 | 12.98 | 69.4 | 12.10 | 67.6 | 11.63 | 64.7 | 10.66 | 61.6 | 10.31 |
| | | 212.0 | 77.3 | 13.79 | 73.2 | 12.86 | 69.4 | 12.00 | 67.6 | 11.53 | 64.7 | 10.66 | 61.6 | 10.21 |
| | | 424.0 | 77.3 | 13.33 | 73.2 | 12.45 | 69.4 | 11.53 | 67.6 | 11.12 | 64.7 | 10.66 | 61.6 | 9.78 |
| | | 530.0 | 77.3 | 13.33 | 73.2 | 12.45 | 69.4 | 11.53 | 67.6 | 11.12 | 64.7 | 10.21 | 61.6 | 9.78 |
| | | 636.0 | 77.3 | 13.33 | 73.2 | 12.45 | 69.4 | 11.53 | 67.6 | 11.12 | 64.7 | 9.96 | 61.6 | 9.78 |
| | 20 | 169.6 | 77.3 | 12.10 | 73.2 | 11.25 | 69.4 | 10.78 | 67.6 | 10.31 | 64.7 | 9.90 | 61.6 | 8.86 |
| | | 212.0 | 77.3 | 12.00 | 73.2 | 11.12 | 69.4 | 10.66 | 67.6 | 10.21 | 64.7 | 9.78 | 61.6 | 8.86 |
| | | 424.0 | 77.3 | 11.53 | 73.2 | 10.66 | 69.4 | 10.21 | 67.6 | 9.78 | 64.7 | 9.33 | 61.6 | 8.86 |
| | | 530.0 | 77.3 | 11.53 | 73.2 | 10.66 | 69.4 | 10.21 | 67.6 | 9.78 | 64.7 | 9.33 | 61.6 | 8.86 |
| | | 636.0 | 77.3 | 11.53 | 73.2 | 10.66 | 69.4 | 10.21 | 67.6 | 9.78 | 64.7 | 9.33 | 61.6 | 8.86 |
| | 25 | 169.6 | 77.3 | 10.78 | 73.2 | 9.78 | 69.4 | 9.43 | 67.6 | 8.86 | 64.7 | 8.45 | 61.6 | 7.99 |
| | | 212.0 | 77.3 | 10.66 | 73.2 | 9.78 | 69.4 | 9.33 | 67.6 | 8.86 | 64.7 | 8.45 | 61.6 | 7.99 |
| | | 424.0 | 77.3 | 10.21 | 73.2 | 9.78 | 69.4 | 8.86 | 67.6 | 8.86 | 64.7 | 8.45 | 61.6 | 7.99 |
| | | 530.0 | 77.3 | 10.21 | 73.2 | 9.78 | 69.4 | 8.86 | 67.6 | 8.86 | 64.7 | 8.45 | 61.6 | 7.99 |
| | | 636.0 | 77.3 | 10.21 | 73.2 | 9.78 | 69.4 | 8.86 | 67.6 | 8.86 | 64.7 | 8.45 | 61.6 | 7.99 |
| | 30 | 169.6 | 77.3 | 9.90 | 73.2 | 8.98 | 69.4 | 8.58 | 67.6 | 7.99 | 64.7 | 8.11 | 61.6 | 7.64 |
| | | 212.0 | 77.3 | 9.78 | 73.2 | 8.86 | 69.4 | 8.45 | 67.6 | 7.99 | 64.7 | 7.99 | 61.6 | 7.54 |
| | | 424.0 | 77.3 | 9.33 | 73.2 | 8.45 | 69.4 | 7.99 | 67.6 | 7.99 | 64.7 | 7.54 | 61.6 | 7.13 |
| | | 530.0 | 77.3 | 9.33 | 73.2 | 8.45 | 69.4 | 7.99 | 67.6 | 7.99 | 64.7 | 7.54 | 61.6 | 7.13 |
| | | 636.0 | 77.3 | 9.33 | 73.2 | 8.45 | 69.4 | 7.99 | 67.6 | 7.99 | 64.7 | 7.54 | 61.6 | 7.13 |
| | 35 | 169.6 | 77.3 | 8.98 | 73.2 | 7.99 | 69.4 | 7.54 | 67.6 | 7.64 | 64.7 | 7.13 | 61.6 | 6.66 |
| | | 212.0 | 77.3 | 8.86 | 73.2 | 7.99 | 69.4 | 7.54 | 67.6 | 7.54 | 64.7 | 7.13 | 61.6 | 6.66 |
| | | 424.0 | 77.3 | 8.45 | 73.2 | 7.99 | 69.4 | 7.54 | 67.6 | 7.13 | 64.7 | 7.13 | 61.6 | 6.66 |
| | | 530.0 | 77.3 | 8.45 | 73.2 | 7.99 | 69.4 | 7.54 | 67.6 | 7.13 | 64.7 | 7.13 | 61.6 | 6.66 |
| | | 636.0 | 77.3 | 8.45 | 73.2 | 7.99 | 69.4 | 7.54 | 67.6 | 7.13 | 64.7 | 7.13 | 61.6 | 6.66 |
| | 40 | 169.6 | 77.3 | 8.11 | 73.2 | 7.64 | 69.4 | 7.23 | 67.6 | 6.66 | 64.7 | 6.78 | 61.6 | 6.20 |
| | | 212.0 | 77.3 | 7.99 | 73.2 | 7.54 | 69.4 | 7.13 | 67.6 | 6.66 | 64.7 | 6.66 | 61.6 | 6.20 |
| | | 424.0 | 77.3 | 7.54 | 73.2 | 7.13 | 69.4 | 6.66 | 67.6 | 6.66 | 64.7 | 6.20 | 61.6 | 6.20 |
| | | 530.0 | 77.3 | 7.54 | 73.2 | 7.13 | 69.4 | 6.66 | 67.6 | 6.66 | 64.7 | 6.20 | 61.6 | 6.20 |
| | | 636.0 | 77.3 | 7.54 | 73.2 | 7.13 | 69.4 | 6.66 | 67.6 | 6.66 | 64.7 | 6.20 | 61.6 | 6.20 |
| | 45 | 169.6 | 77.3 | 7.23 | 73.2 | 7.35 | 69.4 | 6.88 | 67.6 | 5.69 | 64.7 | 6.42 | 61.6 | 5.79 |
| | | 212.0 | 77.3 | 7.13 | 73.2 | 7.13 | 69.4 | 6.66 | 67.6 | 5.79 | 64.7 | 6.20 | 61.6 | 5.79 |
| | | 424.0 | 77.3 | 6.66 | 73.2 | 6.20 | 69.4 | 5.79 | 67.6 | 6.20 | 64.7 | 5.34 | 61.6 | 5.79 |
| | | 530.0 | 77.3 | 6.66 | 73.2 | 6.20 | 69.4 | 5.79 | 67.6 | 6.20 | 64.7 | 5.34 | 61.6 | 5.79 |
| | | 636.0 | 77.3 | 6.66 | 73.2 | 6.20 | 69.4 | 5.79 | 67.6 | 6.20 | 64.7 | 5.34 | 61.6 | 5.79 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN460BAS4

**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 177.2 | 68.5 | 29.18 | 68.1 | 27.46 | 67.6 | 25.56 | 66.7 | 24.81 | 67.5 | 24.18 | 65.6 | 21.68 |
| | | 221.5 | 71.0 | 29.68 | 70.4 | 28.00 | 69.9 | 26.13 | 69.0 | 25.36 | 69.9 | 24.70 | 67.9 | 22.14 |
| | | 443.0 | 80.2 | 31.71 | 79.6 | 30.13 | 79.1 | 28.35 | 78.0 | 27.52 | 79.0 | 26.76 | 77.0 | 24.01 |
| | | 553.8 | 88.6 | 33.72 | 87.9 | 32.18 | 87.4 | 30.56 | 86.3 | 29.73 | 87.4 | 28.87 | 85.1 | 25.90 |
| | | 664.5 | 92.9 | 34.73 | 92.0 | 33.23 | 91.4 | 31.66 | 90.3 | 30.85 | 91.5 | 29.93 | 89.1 | 26.83 |
| | 0 | 177.2 | 122.5 | 39.91 | 119.6 | 38.72 | 117.0 | 37.46 | 114.5 | 36.40 | 115.0 | 35.40 | 109.8 | 31.71 |
| | | 221.5 | 123.3 | 40.02 | 120.4 | 38.81 | 117.9 | 37.55 | 115.3 | 36.51 | 115.6 | 35.50 | 110.4 | 31.80 |
| | | 443.0 | 126.2 | 40.45 | 123.1 | 39.19 | 120.5 | 38.00 | 117.9 | 36.94 | 118.4 | 35.88 | 113.0 | 32.18 |
| | | 553.8 | 128.0 | 40.45 | 125.0 | 39.19 | 122.4 | 38.00 | 119.6 | 36.94 | 120.2 | 35.88 | 114.7 | 32.18 |
| | | 664.5 | 129.1 | 40.45 | 125.9 | 39.19 | 123.3 | 38.00 | 120.5 | 36.94 | 121.0 | 35.88 | 115.6 | 32.18 |
| | 5 | 177.2 | 176.3 | 42.90 | 173.7 | 41.83 | 170.2 | 40.77 | 165.9 | 39.62 | 161.3 | 38.53 | 152.4 | 34.50 |
| | | 221.5 | 177.1 | 43.09 | 174.0 | 42.03 | 170.2 | 40.97 | 165.9 | 39.82 | 161.3 | 38.72 | 152.4 | 34.68 |
| | | 443.0 | 179.4 | 43.85 | 175.1 | 42.81 | 170.2 | 41.80 | 165.9 | 40.63 | 161.3 | 39.48 | 152.4 | 35.40 |
| | | 553.8 | 180.5 | 44.14 | 175.7 | 43.09 | 170.2 | 42.09 | 165.9 | 40.92 | 161.3 | 39.77 | 152.4 | 35.65 |
| | | 664.5 | 181.1 | 44.28 | 176.0 | 43.24 | 170.2 | 42.23 | 165.9 | 41.06 | 161.3 | 39.91 | 152.4 | 35.77 |
| | 10 | 177.2 | 176.5 | 39.02 | 173.7 | 37.72 | 169.6 | 37.01 | 165.1 | 36.17 | 160.7 | 34.94 | 151.8 | 31.54 |
| | | 221.5 | 177.7 | 38.96 | 174.5 | 37.75 | 170.2 | 37.09 | 165.9 | 36.17 | 161.3 | 34.93 | 152.4 | 31.51 |
| | | 443.0 | 181.7 | 38.67 | 177.7 | 37.90 | 173.0 | 37.37 | 168.5 | 36.11 | 163.8 | 34.82 | 154.9 | 31.42 |
| | | 553.8 | 182.8 | 39.19 | 179.1 | 38.44 | 174.0 | 37.52 | 169.3 | 36.26 | 164.8 | 35.40 | 155.8 | 32.90 |
| | | 664.5 | 183.2 | 39.47 | 179.7 | 38.70 | 174.5 | 37.58 | 169.6 | 36.34 | 165.3 | 35.68 | 156.4 | 33.66 |
| | 15 | 177.2 | 176.8 | 35.17 | 173.7 | 33.67 | 168.8 | 33.32 | 164.4 | 32.75 | 160.1 | 31.37 | 151.2 | 28.58 |
| | | 221.5 | 178.3 | 34.82 | 175.1 | 33.53 | 170.2 | 33.24 | 165.9 | 32.52 | 161.3 | 31.13 | 152.4 | 28.35 |
| | | 443.0 | 184.0 | 33.44 | 180.3 | 32.95 | 175.7 | 32.95 | 171.1 | 31.57 | 166.2 | 30.16 | 157.3 | 27.37 |
| | | 553.8 | 185.1 | 34.24 | 182.0 | 33.72 | 177.7 | 32.95 | 173.0 | 31.57 | 168.5 | 31.02 | 159.2 | 30.16 |
| | | 664.5 | 185.5 | 34.67 | 182.9 | 34.10 | 178.8 | 32.95 | 173.9 | 31.57 | 169.6 | 31.46 | 160.1 | 31.57 |
| | 20 | 177.2 | 183.7 | 32.26 | 180.3 | 30.76 | 175.4 | 30.10 | 170.5 | 29.13 | 165.6 | 28.49 | 155.8 | 27.60 |
| | | 221.5 | 185.1 | 32.03 | 181.7 | 30.74 | 176.8 | 30.07 | 171.9 | 29.24 | 167.1 | 28.67 | 157.3 | 27.37 |
| | | 443.0 | 190.9 | 31.13 | 187.5 | 30.65 | 182.3 | 29.98 | 177.4 | 29.73 | 173.0 | 29.44 | 163.0 | 26.48 |
| | | 553.8 | 191.7 | 31.13 | 188.9 | 30.65 | 184.3 | 30.16 | 179.1 | 29.73 | 174.2 | 29.44 | 164.4 | 28.15 |
| | | 664.5 | 192.1 | 31.13 | 189.5 | 30.65 | 185.5 | 30.27 | 180.0 | 29.73 | 175.0 | 29.44 | 165.1 | 28.99 |
| | 25 | 177.2 | 193.8 | 30.76 | 188.9 | 29.87 | 184.3 | 29.38 | 180.9 | 28.89 | 176.8 | 28.46 | 166.7 | 26.59 |
| | | 221.5 | 193.8 | 30.65 | 188.9 | 29.82 | 184.3 | 29.24 | 180.9 | 28.78 | 176.8 | 28.35 | 166.7 | 26.48 |
| | | 443.0 | 193.8 | 30.16 | 188.9 | 29.64 | 184.3 | 28.78 | 180.9 | 28.35 | 176.8 | 27.86 | 166.7 | 25.99 |
| | | 553.8 | 193.8 | 29.73 | 188.9 | 28.87 | 184.3 | 28.35 | 180.9 | 27.86 | 176.8 | 27.37 | 166.7 | 25.56 |
| | | 664.5 | 193.8 | 29.52 | 188.9 | 28.49 | 184.3 | 28.12 | 180.9 | 27.63 | 176.8 | 27.14 | 166.7 | 25.33 |
| | 30 | 177.2 | 193.8 | 29.98 | 188.9 | 28.49 | 184.3 | 28.23 | 180.9 | 27.49 | 176.8 | 27.20 | 166.7 | 25.30 |
| | | 221.5 | 193.8 | 29.73 | 188.9 | 28.44 | 184.3 | 28.06 | 180.9 | 27.37 | 176.8 | 26.94 | 166.7 | 25.07 |
| | | 443.0 | 193.8 | 28.78 | 188.9 | 28.24 | 184.3 | 27.37 | 180.9 | 26.94 | 176.8 | 25.99 | 166.7 | 24.15 |
| | | 553.8 | 193.8 | 28.35 | 188.9 | 27.48 | 184.3 | 26.94 | 180.9 | 26.48 | 176.8 | 25.99 | 166.7 | 24.15 |
| | | 664.5 | 193.8 | 28.12 | 188.9 | 27.09 | 184.3 | 26.74 | 180.9 | 26.22 | 176.8 | 25.99 | 166.7 | 24.15 |
| | 35 | 177.2 | 193.8 | 28.58 | 188.9 | 27.63 | 184.3 | 27.06 | 180.9 | 26.10 | 176.8 | 25.19 | 166.7 | 23.43 |
| | | 221.5 | 193.8 | 28.35 | 188.9 | 27.48 | 184.3 | 26.94 | 180.9 | 25.99 | 176.8 | 25.07 | 166.7 | 23.20 |
| | | 443.0 | 193.8 | 27.37 | 188.9 | 26.85 | 184.3 | 26.48 | 180.9 | 25.56 | 176.8 | 24.59 | 166.7 | 22.28 |
| | | 553.8 | 193.8 | 27.37 | 188.9 | 26.57 | 184.3 | 25.99 | 180.9 | 25.07 | 176.8 | 24.15 | 166.7 | 22.28 |
| | | 664.5 | 193.8 | 27.37 | 188.9 | 26.42 | 184.3 | 25.74 | 180.9 | 24.84 | 176.8 | 23.95 | 166.7 | 22.28 |
| | 40 | 177.2 | 193.8 | 27.60 | 188.9 | 26.74 | 184.3 | 26.22 | 180.9 | 25.30 | 176.8 | 24.41 | 166.7 | 22.05 |
| | | 221.5 | 193.8 | 27.37 | 188.9 | 26.57 | 184.3 | 25.99 | 180.9 | 25.07 | 176.8 | 24.15 | 166.7 | 21.80 |
| | | 443.0 | 193.8 | 26.48 | 188.9 | 25.90 | 184.3 | 25.07 | 180.9 | 24.15 | 176.8 | 23.20 | 166.7 | 20.90 |
| | | 553.8 | 193.8 | 25.99 | 188.9 | 25.45 | 184.3 | 25.07 | 180.9 | 24.15 | 176.8 | 23.20 | 166.7 | 20.90 |
| | | 664.5 | 193.8 | 25.74 | 188.9 | 25.24 | 184.3 | 25.07 | 180.9 | 24.15 | 176.8 | 23.20 | 166.7 | 20.90 |
| | 45 | 177.2 | 193.8 | 26.71 | 188.9 | 25.82 | 184.3 | 25.42 | 180.9 | 24.52 | 176.8 | 23.55 | 166.7 | 20.64 |
| | | 221.5 | 193.8 | 26.48 | 188.9 | 25.65 | 184.3 | 25.07 | 180.9 | 24.15 | 176.8 | 23.20 | 166.7 | 20.41 |
| | | 443.0 | 193.8 | 25.56 | 188.9 | 24.98 | 184.3 | 23.69 | 180.9 | 22.77 | 176.8 | 21.80 | 166.7 | 19.50 |
| | | 553.8 | 193.8 | 24.59 | 188.9 | 24.35 | 184.3 | 24.15 | 180.9 | 23.20 | 176.8 | 22.28 | 166.7 | 19.50 |
| | | 664.5 | 193.8 | 24.12 | 188.9 | 24.04 | 184.3 | 24.41 | 180.9 | 23.43 | 176.8 | 22.54 | 166.7 | 19.50 |
| 120 | -5 | 177.2 | 65.2 | 29.18 | 64.7 | 27.46 | 64.2 | 25.56 | 63.5 | 24.49 | 64.1 | 23.78 | 62.4 | 21.28 |
| | | 221.5 | 67.3 | 29.68 | 66.9 | 28.00 | 66.4 | 26.13 | 65.6 | 25.02 | 66.1 | 24.30 | 64.4 | 21.76 |
| | | 443.0 | 76.2 | 31.71 | 75.6 | 30.13 | 75.3 | 28.35 | 74.2 | 27.14 | 75.0 | 26.37 | 73.0 | 23.63 |
| | | 553.8 | 84.2 | 33.72 | 83.6 | 32.18 | 83.1 | 30.56 | 82.2 | 29.30 | 82.8 | 28.44 | 80.5 | 25.45 |
| | | 664.5 | 88.3 | 34.73 | 87.7 | 33.23 | 87.1 | 31.66 | 86.0 | 30.39 | 86.8 | 29.47 | 84.2 | 26.37 |
| | 0 | 177.2 | 116.4 | 39.91 | 113.6 | 38.72 | 111.2 | 37.46 | 109.0 | 35.88 | 109.0 | 34.87 | 104.0 | 31.17 |
| | | 221.5 | 117.0 | 40.02 | 114.4 | 38.81 | 111.8 | 37.55 | 109.6 | 35.97 | 109.6 | 34.96 | 104.6 | 31.28 |
| | | 443.0 | 119.9 | 40.45 | 117.0 | 39.19 | 114.7 | 38.00 | 112.1 | 36.40 | 112.1 | 35.36 | 107.2 | 31.66 |
| | | 553.8 | 121.6 | 40.45 | 119.0 | 39.19 | 116.4 | 38.00 | 113.9 | 36.40 | 113.8 | 35.36 | 108.7 | 31.66 |
| | | 664.5 | 122.7 | 40.45 | 119.9 | 39.19 | 117.3 | 38.00 | 114.7 | 36.40 | 114.7 | 35.36 | 109.6 | 31.66 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 177.2 | 167.9 | 42.90 | 165.3 | 41.83 | 161.8 | 40.77 | 157.8 | 39.04 | 152.9 | 37.95 | 144.6 | 33.98 |
| | | 221.5 | 168.5 | 43.09 | 165.6 | 42.03 | 161.8 | 40.97 | 157.8 | 39.25 | 152.9 | 38.15 | 144.6 | 34.16 |
| | | 443.0 | 170.8 | 43.85 | 166.8 | 42.81 | 161.8 | 41.80 | 157.8 | 40.05 | 152.9 | 38.90 | 144.6 | 34.82 |
| | | 553.8 | 171.9 | 44.14 | 165.9 | 43.09 | 161.8 | 42.09 | 157.8 | 40.34 | 152.9 | 39.19 | 144.6 | 35.07 |
| | | 664.5 | 172.2 | 44.28 | 165.4 | 43.24 | 161.8 | 42.23 | 157.8 | 40.49 | 152.9 | 39.33 | 144.6 | 35.19 |
| | 10 | 177.2 | 168.5 | 38.53 | 165.3 | 37.46 | 161.3 | 36.71 | 157.3 | 35.59 | 152.4 | 34.42 | 144.1 | 30.94 |
| | | 221.5 | 169.3 | 38.67 | 166.1 | 37.61 | 161.8 | 36.83 | 157.8 | 35.65 | 152.9 | 34.39 | 144.6 | 30.99 |
| | | 443.0 | 172.5 | 39.19 | 168.8 | 38.18 | 163.6 | 37.37 | 159.6 | 35.83 | 154.4 | 34.30 | 146.0 | 31.13 |
| | | 553.8 | 173.4 | 39.05 | 168.2 | 38.18 | 164.2 | 37.52 | 160.2 | 35.97 | 155.2 | 34.44 | 146.6 | 32.18 |
| | | 664.5 | 173.9 | 38.98 | 167.9 | 38.18 | 164.5 | 37.58 | 160.7 | 36.05 | 155.5 | 34.51 | 146.9 | 32.72 |
| | 15 | 177.2 | 169.0 | 34.18 | 165.6 | 33.18 | 160.7 | 32.66 | 157.0 | 32.17 | 152.1 | 30.88 | 143.7 | 27.98 |
| | | 221.5 | 169.9 | 34.24 | 166.5 | 33.24 | 161.8 | 32.72 | 157.8 | 32.03 | 152.9 | 30.65 | 144.6 | 27.86 |
| | | 443.0 | 173.9 | 34.53 | 170.7 | 33.53 | 165.3 | 32.95 | 161.3 | 31.57 | 155.9 | 29.73 | 147.5 | 27.37 |
| | | 553.8 | 174.8 | 34.01 | 170.5 | 33.24 | 166.7 | 32.95 | 162.7 | 31.57 | 157.3 | 29.73 | 148.9 | 29.24 |
| | | 664.5 | 175.4 | 33.75 | 170.5 | 33.09 | 167.4 | 32.95 | 163.3 | 31.57 | 157.9 | 29.73 | 149.5 | 30.19 |
| | 20 | 177.2 | 173.7 | 30.74 | 170.5 | 29.44 | 165.3 | 28.66 | 160.7 | 28.23 | 155.5 | 27.89 | 147.2 | 26.48 |
| | | 221.5 | 174.8 | 30.74 | 171.4 | 29.53 | 166.2 | 28.78 | 161.8 | 28.35 | 156.4 | 27.86 | 148.0 | 26.37 |
| | | 443.0 | 179.4 | 30.74 | 175.4 | 29.98 | 169.9 | 29.24 | 165.9 | 28.78 | 160.4 | 27.77 | 151.5 | 25.99 |
| | | 553.8 | 180.0 | 30.45 | 175.4 | 29.73 | 171.1 | 29.24 | 166.7 | 28.78 | 161.3 | 27.86 | 152.4 | 26.94 |
| | | 664.5 | 180.5 | 30.31 | 175.4 | 29.61 | 171.9 | 29.24 | 167.3 | 28.78 | 161.8 | 27.91 | 152.9 | 27.43 |
| | 25 | 177.2 | 182.2 | 29.07 | 176.8 | 27.72 | 171.1 | 27.20 | 167.6 | 26.59 | 163.0 | 26.10 | 154.1 | 24.29 |
| | | 221.5 | 182.3 | 28.96 | 176.8 | 27.66 | 171.1 | 27.14 | 167.6 | 26.48 | 163.0 | 25.99 | 154.1 | 24.15 |
| | | 443.0 | 182.6 | 28.52 | 176.8 | 27.48 | 171.1 | 26.94 | 167.6 | 25.99 | 163.0 | 25.56 | 154.1 | 23.69 |
| | | 553.8 | 183.2 | 27.48 | 176.8 | 26.76 | 171.1 | 26.48 | 167.6 | 25.99 | 163.0 | 25.07 | 154.1 | 23.69 |
| | | 664.5 | 183.4 | 26.94 | 176.8 | 26.39 | 171.1 | 26.22 | 167.6 | 25.99 | 163.0 | 24.84 | 154.1 | 23.69 |
| | 30 | 177.2 | 183.2 | 27.80 | 176.8 | 26.43 | 171.1 | 25.68 | 167.6 | 24.70 | 163.0 | 24.41 | 154.1 | 22.40 |
| | | 221.5 | 183.2 | 27.57 | 176.8 | 26.28 | 171.1 | 25.56 | 167.6 | 24.59 | 163.0 | 24.15 | 154.1 | 22.28 |
| | | 443.0 | 183.2 | 26.65 | 176.8 | 25.65 | 171.1 | 25.07 | 167.6 | 24.15 | 163.0 | 23.20 | 154.1 | 21.80 |
| | | 553.8 | 183.2 | 25.79 | 176.8 | 25.07 | 171.1 | 24.59 | 167.6 | 24.15 | 163.0 | 23.20 | 154.1 | 21.37 |
| | | 664.5 | 183.2 | 25.36 | 176.8 | 24.78 | 171.1 | 24.35 | 167.6 | 24.15 | 163.0 | 23.20 | 154.1 | 21.16 |
| | 35 | 177.2 | 183.2 | 26.56 | 176.8 | 25.10 | 171.1 | 24.41 | 167.6 | 23.43 | 163.0 | 22.51 | 154.1 | 20.53 |
| | | 221.5 | 183.2 | 26.19 | 176.8 | 24.87 | 171.1 | 24.15 | 167.6 | 23.20 | 163.0 | 22.28 | 154.1 | 20.41 |
| | | 443.0 | 183.2 | 24.70 | 176.8 | 23.98 | 171.1 | 23.20 | 167.6 | 22.28 | 163.0 | 21.37 | 154.1 | 19.98 |
| | | 553.8 | 183.2 | 24.41 | 176.8 | 23.78 | 171.1 | 23.20 | 167.6 | 22.28 | 163.0 | 21.37 | 154.1 | 19.50 |
| | | 664.5 | 183.2 | 24.26 | 176.8 | 23.69 | 171.1 | 23.20 | 167.6 | 22.28 | 163.0 | 21.37 | 154.1 | 19.26 |
| | 40 | 177.2 | 183.2 | 25.76 | 176.8 | 23.95 | 171.1 | 23.00 | 167.6 | 22.05 | 163.0 | 21.13 | 154.1 | 19.12 |
| | | 221.5 | 183.2 | 25.27 | 176.8 | 23.69 | 171.1 | 22.77 | 167.6 | 21.80 | 163.0 | 20.90 | 154.1 | 19.03 |
| | | 443.0 | 183.2 | 23.29 | 176.8 | 22.57 | 171.1 | 21.80 | 167.6 | 20.90 | 163.0 | 19.98 | 154.1 | 18.60 |
| | | 553.8 | 183.2 | 23.00 | 176.8 | 22.28 | 171.1 | 21.80 | 167.6 | 20.90 | 163.0 | 19.98 | 154.1 | 18.11 |
| | | 664.5 | 183.2 | 22.86 | 176.8 | 22.14 | 171.1 | 21.80 | 167.6 | 20.90 | 163.0 | 19.98 | 154.1 | 17.86 |
| | 45 | 177.2 | 183.2 | 24.98 | 176.8 | 22.80 | 171.1 | 21.62 | 167.6 | 20.64 | 163.0 | 19.73 | 154.1 | 17.74 |
| | | 221.5 | 183.2 | 24.35 | 176.8 | 22.48 | 171.1 | 21.37 | 167.6 | 20.41 | 163.0 | 19.50 | 154.1 | 17.63 |
| | | 443.0 | 183.2 | 21.91 | 176.8 | 21.19 | 171.1 | 20.41 | 167.6 | 19.50 | 163.0 | 18.60 | 154.1 | 17.19 |
| | | 553.8 | 183.2 | 21.62 | 176.8 | 20.79 | 171.1 | 20.41 | 167.6 | 19.50 | 163.0 | 18.60 | 154.1 | 16.71 |
| | | 664.5 | 183.2 | 21.48 | 176.8 | 20.61 | 171.1 | 20.41 | 167.6 | 19.50 | 163.0 | 18.60 | 154.1 | 16.47 |
| 110 | -5 | 177.2 | 61.6 | 29.56 | 61.2 | 27.46 | 60.9 | 25.56 | 60.1 | 24.49 | 60.4 | 23.78 | 59.0 | 21.28 |
| | | 221.5 | 63.8 | 30.07 | 63.3 | 28.00 | 63.0 | 26.13 | 62.4 | 25.02 | 62.4 | 24.30 | 61.0 | 21.76 |
| | | 443.0 | 72.1 | 32.09 | 71.6 | 30.13 | 71.3 | 28.35 | 70.5 | 27.14 | 70.5 | 26.37 | 69.2 | 23.63 |
| | | 553.8 | 79.6 | 34.16 | 79.1 | 32.18 | 78.8 | 30.56 | 77.9 | 29.30 | 77.9 | 28.44 | 76.2 | 25.45 |
| | | 664.5 | 83.4 | 35.19 | 82.8 | 33.23 | 82.5 | 31.66 | 81.6 | 30.39 | 81.6 | 29.47 | 79.9 | 26.37 |
| | 0 | 177.2 | 110.1 | 40.45 | 107.8 | 38.72 | 105.5 | 37.46 | 103.5 | 35.88 | 102.6 | 34.87 | 98.6 | 31.17 |
| | | 221.5 | 110.7 | 40.54 | 108.4 | 38.81 | 106.1 | 37.55 | 104.1 | 35.97 | 103.2 | 34.96 | 99.2 | 31.28 |
| | | 443.0 | 113.3 | 40.92 | 111.0 | 39.19 | 108.4 | 38.00 | 106.4 | 36.40 | 105.5 | 35.36 | 101.5 | 31.66 |
| | | 553.8 | 115.0 | 40.92 | 112.7 | 39.19 | 110.4 | 38.00 | 108.1 | 36.40 | 107.2 | 35.36 | 102.9 | 31.66 |
| | | 664.5 | 115.9 | 40.92 | 113.6 | 39.19 | 111.2 | 38.00 | 108.9 | 36.40 | 108.1 | 35.36 | 103.8 | 31.66 |
| | 5 | 177.2 | 160.7 | 43.47 | 156.9 | 41.83 | 153.2 | 40.77 | 149.8 | 39.04 | 144.0 | 37.95 | 136.9 | 33.98 |
| | | 221.5 | 161.3 | 43.67 | 157.2 | 42.03 | 153.2 | 40.97 | 149.8 | 39.25 | 144.0 | 38.15 | 136.9 | 34.16 |
| | | 443.0 | 163.3 | 44.42 | 158.4 | 42.81 | 153.5 | 41.80 | 149.8 | 40.05 | 144.0 | 38.90 | 136.9 | 34.82 |
| | | 553.8 | 164.4 | 44.71 | 158.7 | 43.09 | 153.5 | 42.09 | 149.8 | 40.34 | 144.0 | 39.19 | 136.9 | 35.07 |
| | | 664.5 | 164.8 | 44.86 | 159.0 | 43.24 | 153.5 | 42.23 | 149.8 | 40.49 | 144.0 | 39.33 | 136.9 | 35.19 |
| | 10 | 177.2 | 161.3 | 38.98 | 157.3 | 37.64 | 153.0 | 36.83 | 149.5 | 35.59 | 143.7 | 34.42 | 136.8 | 30.94 |
| | | 221.5 | 161.9 | 39.05 | 157.8 | 37.75 | 153.2 | 36.94 | 149.8 | 35.65 | 144.0 | 34.39 | 136.9 | 30.99 |
| | | 443.0 | 164.4 | 39.33 | 159.3 | 38.18 | 154.1 | 37.37 | 150.7 | 35.83 | 144.9 | 34.30 | 137.7 | 31.13 |
| | | 553.8 | 165.3 | 39.33 | 160.1 | 38.18 | 154.7 | 37.27 | 150.9 | 35.74 | 145.2 | 34.44 | 138.0 | 31.46 |
| | | 664.5 | 165.6 | 39.33 | 160.4 | 38.18 | 155.0 | 37.23 | 151.2 | 35.68 | 145.2 | 34.51 | 138.3 | 31.63 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 177.2 | 161.8 | 34.50 | 157.5 | 33.53 | 152.9 | 32.95 | 149.2 | 32.17 | 143.5 | 30.88 | 136.6 | 27.98 |
| | | 221.5 | 162.4 | 34.44 | 158.1 | 33.53 | 153.5 | 32.95 | 149.8 | 32.03 | 144.0 | 30.65 | 136.9 | 27.86 |
| | | 443.0 | 165.1 | 34.24 | 160.4 | 33.53 | 155.2 | 32.95 | 151.5 | 31.57 | 145.8 | 29.73 | 138.3 | 27.37 |
| | | 553.8 | 166.1 | 34.01 | 161.3 | 33.24 | 155.9 | 32.52 | 152.1 | 31.13 | 146.3 | 29.73 | 139.1 | 27.86 |
| | | 664.5 | 166.5 | 33.89 | 161.6 | 33.09 | 156.4 | 32.29 | 152.4 | 30.91 | 146.4 | 29.73 | 139.5 | 28.09 |
| | 20 | 177.2 | 164.7 | 29.76 | 160.2 | 29.07 | 155.0 | 28.35 | 150.9 | 27.86 | 145.5 | 27.06 | 137.7 | 25.31 |
| | | 221.5 | 165.6 | 29.82 | 160.7 | 29.07 | 155.5 | 28.35 | 151.5 | 27.86 | 145.8 | 26.94 | 138.3 | 25.27 |
| | | 443.0 | 169.1 | 30.07 | 163.0 | 29.07 | 157.3 | 28.35 | 153.8 | 27.86 | 147.5 | 26.48 | 140.5 | 25.07 |
| | | 553.8 | 170.2 | 30.07 | 164.4 | 29.07 | 158.2 | 28.35 | 154.1 | 27.37 | 148.4 | 26.48 | 140.9 | 25.07 |
| | | 664.5 | 170.5 | 30.07 | 165.0 | 29.07 | 158.7 | 28.35 | 154.4 | 27.14 | 148.9 | 26.48 | 141.1 | 25.07 |
| | 25 | 177.2 | 169.9 | 27.09 | 164.8 | 26.10 | 158.2 | 25.68 | 154.7 | 24.70 | 149.3 | 23.80 | 141.4 | 21.80 |
| | | 221.5 | 170.2 | 27.05 | 164.8 | 25.99 | 158.2 | 25.56 | 154.7 | 24.59 | 149.3 | 23.69 | 141.4 | 21.80 |
| | | 443.0 | 171.6 | 26.85 | 164.8 | 25.56 | 158.2 | 25.07 | 154.7 | 24.15 | 149.3 | 23.20 | 141.4 | 21.80 |
| | | 553.8 | 172.5 | 26.85 | 164.8 | 25.65 | 158.2 | 24.59 | 154.7 | 24.15 | 149.3 | 22.77 | 141.4 | 21.37 |
| | | 664.5 | 172.8 | 26.85 | 164.8 | 25.70 | 158.2 | 24.35 | 154.7 | 24.15 | 149.3 | 22.54 | 141.4 | 21.16 |
| | 30 | 177.2 | 172.5 | 24.70 | 164.8 | 23.80 | 158.2 | 22.89 | 154.7 | 22.40 | 149.3 | 21.02 | 141.4 | 19.63 |
| | | 221.5 | 172.5 | 24.59 | 164.8 | 23.69 | 158.2 | 22.77 | 154.7 | 22.28 | 149.3 | 20.90 | 141.4 | 19.50 |
| | | 443.0 | 172.5 | 24.15 | 164.8 | 23.20 | 158.2 | 22.28 | 154.7 | 21.80 | 149.3 | 20.41 | 141.4 | 19.03 |
| | | 553.8 | 172.5 | 23.98 | 164.8 | 22.77 | 158.2 | 21.80 | 154.7 | 21.37 | 149.3 | 20.41 | 141.4 | 19.03 |
| | | 664.5 | 172.5 | 23.87 | 164.8 | 22.54 | 158.2 | 21.56 | 154.7 | 21.16 | 149.3 | 20.41 | 141.4 | 19.03 |
| | 35 | 177.2 | 172.5 | 23.43 | 164.8 | 21.91 | 158.2 | 21.02 | 154.7 | 20.10 | 149.3 | 19.12 | 141.4 | 17.74 |
| | | 221.5 | 172.5 | 23.20 | 164.8 | 21.80 | 158.2 | 20.90 | 154.7 | 19.98 | 149.3 | 19.03 | 141.4 | 17.63 |
| | | 443.0 | 172.5 | 22.28 | 164.8 | 21.37 | 158.2 | 20.41 | 154.7 | 19.50 | 149.3 | 18.60 | 141.4 | 17.19 |
| | | 553.8 | 172.5 | 21.71 | 164.8 | 20.90 | 158.2 | 19.98 | 154.7 | 19.50 | 149.3 | 18.60 | 141.4 | 17.19 |
| | | 664.5 | 172.5 | 21.42 | 164.8 | 20.65 | 158.2 | 19.76 | 154.7 | 19.50 | 149.3 | 18.60 | 141.4 | 17.19 |
| | 40 | 177.2 | 172.5 | 22.05 | 164.8 | 21.13 | 158.2 | 19.73 | 154.7 | 18.72 | 149.3 | 17.74 | 141.4 | 16.34 |
| | | 221.5 | 172.5 | 21.80 | 164.8 | 20.90 | 158.2 | 19.50 | 154.7 | 18.60 | 149.3 | 17.63 | 141.4 | 16.24 |
| | | 443.0 | 172.5 | 20.90 | 164.8 | 19.98 | 158.2 | 18.60 | 154.7 | 18.11 | 149.3 | 17.19 | 141.4 | 15.81 |
| | | 553.8 | 172.5 | 20.61 | 164.8 | 19.50 | 158.2 | 18.60 | 154.7 | 17.63 | 149.3 | 16.71 | 141.4 | 15.32 |
| | | 664.5 | 172.5 | 20.47 | 164.8 | 19.26 | 158.2 | 18.60 | 154.7 | 17.39 | 149.3 | 16.47 | 141.4 | 15.09 |
| | 45 | 177.2 | 172.5 | 20.64 | 164.8 | 20.33 | 158.2 | 18.46 | 154.7 | 17.31 | 149.3 | 16.34 | 141.4 | 14.95 |
| | | 221.5 | 172.5 | 20.41 | 164.8 | 19.98 | 158.2 | 18.11 | 154.7 | 17.19 | 149.3 | 16.24 | 141.4 | 14.84 |
| | | 443.0 | 172.5 | 19.50 | 164.8 | 18.60 | 158.2 | 16.71 | 154.7 | 16.71 | 149.3 | 15.81 | 141.4 | 14.41 |
| | | 553.8 | 172.5 | 19.50 | 164.8 | 18.11 | 158.2 | 17.19 | 154.7 | 15.81 | 149.3 | 14.84 | 141.4 | 13.45 |
| | | 664.5 | 172.5 | 19.50 | 164.8 | 17.86 | 158.2 | 17.45 | 154.7 | 15.35 | 149.3 | 14.35 | 141.4 | 12.97 |
| 100 | -5 | 177.2 | 58.3 | 29.56 | 57.8 | 27.86 | 57.5 | 25.56 | 57.2 | 24.49 | 56.6 | 23.40 | 55.5 | 21.28 |
| | | 221.5 | 60.3 | 30.07 | 59.8 | 28.38 | 59.5 | 26.13 | 59.0 | 25.02 | 58.4 | 23.92 | 57.5 | 21.76 |
| | | 443.0 | 68.2 | 32.09 | 67.8 | 30.50 | 67.3 | 28.35 | 66.7 | 27.14 | 66.1 | 25.99 | 65.0 | 23.63 |
| | | 553.8 | 75.3 | 34.16 | 74.8 | 32.61 | 74.4 | 30.56 | 73.6 | 29.30 | 73.3 | 28.00 | 71.9 | 25.45 |
| | | 664.5 | 79.0 | 35.19 | 78.2 | 33.67 | 77.9 | 31.66 | 77.3 | 30.39 | 76.8 | 29.01 | 75.3 | 26.37 |
| | 0 | 177.2 | 104.1 | 40.45 | 101.8 | 39.24 | 99.7 | 37.46 | 98.0 | 35.88 | 96.3 | 34.35 | 92.9 | 31.17 |
| | | 221.5 | 104.7 | 40.54 | 102.4 | 39.33 | 100.3 | 37.55 | 98.6 | 35.97 | 96.9 | 34.44 | 93.4 | 31.28 |
| | | 443.0 | 107.2 | 40.92 | 104.9 | 39.73 | 102.6 | 38.00 | 100.9 | 36.40 | 99.2 | 34.82 | 95.5 | 31.66 |
| | | 553.8 | 108.7 | 40.92 | 106.4 | 39.73 | 104.1 | 38.00 | 102.3 | 36.40 | 100.6 | 34.82 | 97.1 | 31.66 |
| | | 664.5 | 109.6 | 40.92 | 107.3 | 39.73 | 105.0 | 38.00 | 103.0 | 36.40 | 101.2 | 34.82 | 97.8 | 31.66 |
| | 5 | 177.2 | 153.6 | 43.47 | 148.6 | 42.41 | 144.6 | 40.77 | 141.8 | 39.04 | 135.1 | 37.37 | 128.8 | 33.98 |
| | | 221.5 | 154.1 | 43.67 | 148.9 | 42.61 | 144.9 | 40.97 | 141.8 | 39.25 | 135.1 | 37.55 | 128.8 | 34.16 |
| | | 443.0 | 156.4 | 44.42 | 149.8 | 43.38 | 144.9 | 41.80 | 141.8 | 40.05 | 135.1 | 38.33 | 128.8 | 34.82 |
| | | 553.8 | 157.3 | 44.71 | 150.3 | 43.67 | 144.9 | 42.09 | 141.8 | 40.34 | 135.1 | 38.58 | 128.8 | 35.07 |
| | | 664.5 | 157.8 | 44.86 | 150.4 | 43.81 | 144.9 | 42.23 | 141.8 | 40.49 | 135.1 | 38.70 | 128.8 | 35.19 |
| | 10 | 177.2 | 154.4 | 38.87 | 149.0 | 38.01 | 144.9 | 36.83 | 141.8 | 35.59 | 135.1 | 33.84 | 128.8 | 30.94 |
| | | 221.5 | 154.9 | 39.05 | 149.2 | 38.15 | 144.9 | 36.94 | 141.8 | 35.65 | 135.1 | 33.87 | 128.8 | 30.99 |
| | | 443.0 | 156.4 | 39.77 | 150.1 | 38.62 | 144.9 | 37.37 | 141.8 | 35.83 | 135.1 | 34.01 | 128.8 | 31.13 |
| | | 553.8 | 157.5 | 39.62 | 150.7 | 38.62 | 144.9 | 37.27 | 141.8 | 35.74 | 135.1 | 33.92 | 128.8 | 30.99 |
| | | 664.5 | 157.9 | 39.56 | 151.0 | 38.62 | 144.9 | 37.23 | 141.8 | 35.68 | 135.1 | 33.87 | 128.8 | 30.91 |
| | 15 | 177.2 | 155.3 | 34.27 | 149.7 | 33.70 | 144.9 | 32.95 | 141.8 | 32.17 | 135.1 | 30.28 | 128.8 | 27.98 |
| | | 221.5 | 155.5 | 34.44 | 149.8 | 33.72 | 144.9 | 32.95 | 141.8 | 32.03 | 135.1 | 30.16 | 128.8 | 27.86 |
| | | 443.0 | 156.4 | 35.11 | 150.1 | 33.81 | 144.9 | 32.95 | 141.8 | 31.57 | 135.1 | 29.73 | 128.8 | 27.37 |
| | | 553.8 | 157.8 | 34.53 | 150.9 | 33.53 | 144.9 | 32.52 | 141.8 | 31.13 | 135.1 | 29.24 | 128.8 | 26.94 |
| | | 664.5 | 158.4 | 34.24 | 151.5 | 33.38 | 144.9 | 32.29 | 141.8 | 30.91 | 135.1 | 29.01 | 128.8 | 26.74 |
| | 20 | 177.2 | 156.1 | 29.30 | 150.4 | 28.55 | 144.9 | 27.86 | 141.8 | 27.49 | 135.1 | 25.68 | 128.8 | 24.41 |
| | | 221.5 | 156.7 | 29.44 | 150.6 | 28.58 | 144.9 | 27.86 | 141.8 | 27.37 | 135.1 | 25.56 | 128.8 | 24.15 |
| | | 443.0 | 159.0 | 29.98 | 150.9 | 28.67 | 144.9 | 27.86 | 141.8 | 26.94 | 135.1 | 25.07 | 128.8 | 23.20 |
| | | 553.8 | 160.1 | 29.44 | 152.4 | 28.44 | 144.9 | 27.37 | 141.8 | 26.48 | 135.1 | 24.59 | 128.8 | 22.77 |
| | | 664.5 | 160.4 | 29.18 | 153.0 | 28.32 | 144.9 | 27.14 | 141.8 | 26.22 | 135.1 | 24.35 | 128.8 | 22.54 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 177.2 | 158.1 | 25.62 | 152.9 | 24.82 | 144.9 | 23.80 | 141.8 | 22.89 | 135.1 | 21.50 | 128.8 | 19.50 |
| | | 221.5 | 158.7 | 25.65 | 152.9 | 24.70 | 144.9 | 23.69 | 141.8 | 22.77 | 135.1 | 21.37 | 128.8 | 19.50 |
| | | 443.0 | 161.0 | 25.74 | 152.9 | 24.15 | 144.9 | 23.20 | 141.8 | 22.28 | 135.1 | 20.90 | 128.8 | 19.50 |
| | | 553.8 | 161.8 | 25.16 | 152.9 | 23.98 | 144.9 | 22.77 | 141.8 | 21.80 | 135.1 | 20.90 | 128.8 | 19.03 |
| | | 664.5 | 162.2 | 24.87 | 152.9 | 23.87 | 144.9 | 22.54 | 141.8 | 21.56 | 135.1 | 20.90 | 128.8 | 18.78 |
| | 30 | 177.2 | 161.8 | 23.32 | 152.9 | 21.50 | 144.9 | 20.04 | 141.8 | 19.63 | 135.1 | 18.11 | 128.8 | 17.31 |
| | | 221.5 | 161.8 | 23.20 | 152.9 | 21.37 | 144.9 | 19.98 | 141.8 | 19.50 | 135.1 | 18.11 | 128.8 | 17.19 |
| | | 443.0 | 161.8 | 22.77 | 152.9 | 20.90 | 144.9 | 19.78 | 141.8 | 19.03 | 135.1 | 18.11 | 128.8 | 16.71 |
| | | 553.8 | 161.8 | 22.28 | 152.9 | 20.90 | 144.9 | 19.50 | 141.8 | 19.03 | 135.1 | 17.63 | 128.8 | 16.71 |
| | | 664.5 | 161.8 | 22.05 | 152.9 | 20.90 | 144.9 | 19.35 | 141.8 | 19.03 | 135.1 | 17.39 | 128.8 | 16.71 |
| | 35 | 177.2 | 161.8 | 21.62 | 152.9 | 19.73 | 144.9 | 17.68 | 141.8 | 17.31 | 135.1 | 16.34 | 128.8 | 14.95 |
| | | 221.5 | 161.8 | 21.37 | 152.9 | 19.50 | 144.9 | 17.63 | 141.8 | 17.19 | 135.1 | 16.24 | 128.8 | 14.84 |
| | | 443.0 | 161.8 | 20.41 | 152.9 | 18.60 | 144.9 | 17.43 | 141.8 | 16.71 | 135.1 | 15.81 | 128.8 | 14.41 |
| | | 553.8 | 161.8 | 20.41 | 152.9 | 18.60 | 144.9 | 17.19 | 141.8 | 16.71 | 135.1 | 15.81 | 128.8 | 14.41 |
| | | 664.5 | 161.8 | 20.41 | 152.9 | 18.60 | 144.9 | 17.08 | 141.8 | 16.71 | 135.1 | 15.81 | 128.8 | 14.41 |
| | 40 | 177.2 | 161.8 | 20.22 | 152.9 | 18.34 | 144.9 | 15.84 | 141.8 | 15.44 | 135.1 | 14.52 | 128.8 | 13.57 |
| | | 221.5 | 161.8 | 19.98 | 152.9 | 18.11 | 144.9 | 15.81 | 141.8 | 15.32 | 135.1 | 14.41 | 128.8 | 13.45 |
| | | 443.0 | 161.8 | 19.03 | 152.9 | 17.19 | 144.9 | 15.61 | 141.8 | 14.84 | 135.1 | 13.94 | 128.8 | 13.02 |
| | | 553.8 | 161.8 | 18.60 | 152.9 | 17.19 | 144.9 | 15.32 | 141.8 | 14.84 | 135.1 | 13.94 | 128.8 | 13.02 |
| | | 664.5 | 161.8 | 18.37 | 152.9 | 17.19 | 144.9 | 15.18 | 141.8 | 14.84 | 135.1 | 13.94 | 128.8 | 13.02 |
| | 45 | 177.2 | 161.8 | 18.83 | 152.9 | 16.94 | 144.9 | 13.97 | 141.8 | 13.57 | 135.1 | 12.65 | 128.8 | 12.16 |
| | | 221.5 | 161.8 | 18.60 | 152.9 | 16.71 | 144.9 | 13.94 | 141.8 | 13.45 | 135.1 | 12.54 | 128.8 | 12.05 |
| | | 443.0 | 161.8 | 17.63 | 152.9 | 15.81 | 144.9 | 13.74 | 141.8 | 13.02 | 135.1 | 12.05 | 128.8 | 11.62 |
| | | 553.8 | 161.8 | 16.71 | 152.9 | 15.81 | 144.9 | 13.45 | 141.8 | 13.02 | 135.1 | 12.05 | 128.8 | 11.62 |
| | | 664.5 | 161.8 | 16.25 | 152.9 | 15.81 | 144.9 | 13.31 | 141.8 | 13.02 | 135.1 | 12.05 | 128.8 | 11.62 |
| 90 | -5 | 177.2 | 54.9 | 27.43 | 53.2 | 24.98 | 51.7 | 21.94 | 51.4 | 20.91 | 50.9 | 20.16 | 50.0 | 18.09 |
| | | 221.5 | 56.9 | 27.91 | 55.2 | 25.45 | 53.5 | 22.43 | 53.2 | 21.37 | 52.6 | 20.61 | 51.8 | 18.49 |
| | | 443.0 | 64.4 | 29.78 | 62.4 | 27.34 | 60.6 | 24.35 | 60.1 | 23.20 | 59.8 | 22.39 | 58.4 | 20.07 |
| | | 553.8 | 71.3 | 31.66 | 69.0 | 29.24 | 66.9 | 26.28 | 66.4 | 25.02 | 65.9 | 24.12 | 64.7 | 21.65 |
| | | 664.5 | 74.5 | 32.60 | 72.2 | 30.22 | 70.1 | 27.25 | 69.5 | 25.94 | 69.0 | 24.98 | 67.8 | 22.46 |
| | 0 | 177.2 | 98.3 | 37.37 | 93.8 | 35.07 | 89.4 | 32.20 | 88.2 | 30.71 | 86.8 | 29.56 | 83.4 | 26.54 |
| | | 221.5 | 98.9 | 37.46 | 94.3 | 35.16 | 90.0 | 32.29 | 88.6 | 30.79 | 87.1 | 29.64 | 84.0 | 26.62 |
| | | 443.0 | 101.2 | 37.86 | 96.6 | 35.54 | 92.3 | 32.61 | 90.8 | 31.13 | 89.2 | 29.98 | 86.0 | 26.91 |
| | | 553.8 | 102.7 | 37.86 | 98.0 | 35.54 | 93.7 | 32.61 | 92.0 | 31.13 | 90.8 | 29.98 | 87.4 | 26.91 |
| | | 664.5 | 103.5 | 37.86 | 98.7 | 35.54 | 94.3 | 32.61 | 92.8 | 31.13 | 91.4 | 29.98 | 88.0 | 26.91 |
| | 5 | 177.2 | 138.9 | 40.11 | 134.5 | 37.86 | 130.2 | 35.05 | 127.6 | 33.41 | 121.9 | 32.15 | 116.1 | 28.87 |
| | | 221.5 | 139.1 | 40.31 | 134.3 | 38.04 | 130.2 | 35.22 | 127.6 | 33.58 | 121.9 | 32.32 | 116.1 | 29.01 |
| | | 443.0 | 139.7 | 41.03 | 134.0 | 38.76 | 130.2 | 35.88 | 127.6 | 34.24 | 121.9 | 33.00 | 116.1 | 29.59 |
| | | 553.8 | 140.5 | 41.26 | 134.3 | 39.01 | 130.2 | 36.17 | 127.6 | 34.50 | 121.9 | 33.24 | 116.1 | 29.82 |
| | | 664.5 | 140.9 | 41.38 | 134.6 | 39.13 | 130.2 | 36.31 | 127.6 | 34.61 | 121.9 | 33.35 | 116.1 | 29.96 |
| | 10 | 177.2 | 139.7 | 35.42 | 134.9 | 33.69 | 130.2 | 31.71 | 127.6 | 30.42 | 121.9 | 29.18 | 116.1 | 26.30 |
| | | 221.5 | 139.7 | 35.45 | 134.8 | 33.72 | 130.2 | 31.74 | 127.6 | 30.45 | 121.9 | 29.15 | 116.1 | 26.33 |
| | | 443.0 | 139.4 | 35.54 | 134.0 | 33.87 | 130.2 | 31.89 | 127.6 | 30.59 | 121.9 | 29.07 | 116.1 | 26.42 |
| | | 553.8 | 140.3 | 35.45 | 134.5 | 33.76 | 130.2 | 31.80 | 127.6 | 30.50 | 121.9 | 29.15 | 116.1 | 26.51 |
| | | 664.5 | 140.8 | 35.40 | 134.8 | 33.72 | 130.2 | 31.74 | 127.6 | 30.45 | 121.9 | 29.21 | 116.1 | 26.57 |
| | 15 | 177.2 | 140.3 | 30.68 | 135.4 | 29.56 | 130.2 | 28.46 | 127.6 | 27.49 | 121.9 | 26.22 | 116.1 | 23.80 |
| | | 221.5 | 140.3 | 30.56 | 135.1 | 29.44 | 130.2 | 28.35 | 127.6 | 27.37 | 121.9 | 25.99 | 116.1 | 23.69 |
| | | 443.0 | 139.2 | 30.07 | 134.3 | 28.96 | 130.2 | 27.86 | 127.6 | 26.94 | 121.9 | 25.07 | 116.1 | 23.20 |
| | | 553.8 | 140.3 | 29.64 | 134.6 | 28.52 | 130.2 | 27.37 | 127.6 | 26.48 | 121.9 | 25.07 | 116.1 | 23.20 |
| | | 664.5 | 140.6 | 29.41 | 134.8 | 28.32 | 130.2 | 27.14 | 127.6 | 26.22 | 121.9 | 25.07 | 116.1 | 23.20 |
| | 20 | 177.2 | 141.2 | 25.90 | 136.0 | 25.15 | 130.2 | 24.29 | 127.6 | 23.32 | 121.9 | 22.51 | 116.1 | 21.13 |
| | | 221.5 | 141.2 | 25.90 | 135.7 | 25.07 | 130.2 | 24.15 | 127.6 | 23.20 | 121.9 | 22.28 | 116.1 | 20.90 |
| | | 443.0 | 140.6 | 25.90 | 134.6 | 24.78 | 130.2 | 23.69 | 127.6 | 22.77 | 121.9 | 21.37 | 116.1 | 19.98 |
| | | 553.8 | 140.9 | 25.45 | 135.1 | 24.59 | 130.2 | 23.69 | 127.6 | 22.77 | 121.9 | 21.37 | 116.1 | 19.98 |
| | | 664.5 | 141.2 | 25.24 | 135.2 | 24.50 | 130.2 | 23.69 | 127.6 | 22.77 | 121.9 | 21.37 | 116.1 | 19.98 |
| | 25 | 177.2 | 143.7 | 22.63 | 137.7 | 21.42 | 130.2 | 20.53 | 127.6 | 19.50 | 121.9 | 18.72 | 116.1 | 17.31 |
| | | 221.5 | 144.0 | 22.57 | 137.7 | 21.37 | 130.2 | 20.41 | 127.6 | 19.50 | 121.9 | 18.60 | 116.1 | 17.19 |
| | | 443.0 | 145.2 | 22.39 | 137.7 | 21.19 | 130.2 | 19.98 | 127.6 | 19.50 | 121.9 | 18.11 | 116.1 | 16.71 |
| | | 553.8 | 145.8 | 21.80 | 137.7 | 20.70 | 130.2 | 19.98 | 127.6 | 19.03 | 121.9 | 18.11 | 116.1 | 16.71 |
| | | 664.5 | 146.1 | 21.51 | 137.7 | 20.47 | 130.2 | 19.98 | 127.6 | 18.78 | 121.9 | 18.11 | 116.1 | 16.71 |
| | 30 | 177.2 | 145.8 | 20.53 | 137.7 | 19.12 | 130.2 | 17.74 | 127.6 | 17.31 | 121.9 | 16.34 | 116.1 | 14.84 |
| | | 221.5 | 145.8 | 20.41 | 137.7 | 19.03 | 130.2 | 17.63 | 127.6 | 17.19 | 121.9 | 16.24 | 116.1 | 14.84 |
| | | 443.0 | 145.8 | 19.98 | 137.7 | 18.60 | 130.2 | 17.19 | 127.6 | 16.71 | 121.9 | 15.81 | 116.1 | 14.84 |
| | | 553.8 | 145.8 | 19.50 | 137.7 | 18.11 | 130.2 | 17.19 | 127.6 | 16.71 | 121.9 | 15.81 | 116.1 | 14.41 |
| | | 664.5 | 145.8 | 19.26 | 137.7 | 17.86 | 130.2 | 17.19 | 127.6 | 16.71 | 121.9 | 15.81 | 116.1 | 14.20 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 177.2 | 145.8 | 18.72 | 137.7 | 17.31 | 130.2 | 15.93 | 127.6 | 15.44 | 121.9 | 14.52 | 116.1 | 13.57 |
| | | 221.5 | 145.8 | 18.60 | 137.7 | 17.19 | 130.2 | 15.81 | 127.6 | 15.32 | 121.9 | 14.41 | 116.1 | 13.45 |
| | | 443.0 | 145.8 | 18.11 | 137.7 | 16.71 | 130.2 | 15.32 | 127.6 | 14.84 | 121.9 | 13.94 | 116.1 | 13.02 |
| | | 553.8 | 145.8 | 17.63 | 137.7 | 16.24 | 130.2 | 14.84 | 127.6 | 14.41 | 121.9 | 13.94 | 116.1 | 13.02 |
| | | 664.5 | 145.8 | 17.39 | 137.7 | 15.99 | 130.2 | 14.60 | 127.6 | 14.20 | 121.9 | 13.94 | 116.1 | 13.02 |
| | 40 | 177.2 | 145.8 | 17.45 | 137.7 | 15.93 | 130.2 | 14.06 | 127.6 | 13.57 | 121.9 | 13.14 | 116.1 | 12.16 |
| | | 221.5 | 145.8 | 17.19 | 137.7 | 15.81 | 130.2 | 13.94 | 127.6 | 13.45 | 121.9 | 13.02 | 116.1 | 12.05 |
| | | 443.0 | 145.8 | 16.24 | 137.7 | 15.32 | 130.2 | 13.45 | 127.6 | 13.02 | 121.9 | 12.54 | 116.1 | 11.62 |
| | | 553.8 | 145.8 | 16.24 | 137.7 | 15.32 | 130.2 | 13.45 | 127.6 | 13.02 | 121.9 | 12.54 | 116.1 | 11.62 |
| | | 664.5 | 145.8 | 16.24 | 137.7 | 15.32 | 130.2 | 13.45 | 127.6 | 13.02 | 121.9 | 12.54 | 116.1 | 11.62 |
| | 45 | 177.2 | 145.8 | 16.16 | 137.7 | 14.52 | 130.2 | 12.16 | 127.6 | 11.76 | 121.9 | 11.76 | 116.1 | 10.78 |
| | | 221.5 | 145.8 | 15.81 | 137.7 | 14.41 | 130.2 | 12.05 | 127.6 | 11.62 | 121.9 | 11.62 | 116.1 | 10.67 |
| | | 443.0 | 145.8 | 14.41 | 137.7 | 13.94 | 130.2 | 11.62 | 127.6 | 11.15 | 121.9 | 11.15 | 116.1 | 10.23 |
| | | 553.8 | 145.8 | 14.84 | 137.7 | 14.41 | 130.2 | 12.05 | 127.6 | 11.62 | 121.9 | 11.15 | 116.1 | 10.23 |
| | | 664.5 | 145.8 | 15.06 | 137.7 | 14.66 | 130.2 | 12.28 | 127.6 | 11.87 | 121.9 | 11.15 | 116.1 | 10.23 |
| 80 | -5 | 177.2 | 52.0 | 19.55 | 48.8 | 18.80 | 46.2 | 18.00 | 45.7 | 17.40 | 45.4 | 16.59 | 44.5 | 15.29 |
| | | 221.5 | 53.8 | 19.98 | 50.3 | 19.21 | 47.7 | 18.40 | 47.2 | 17.77 | 46.9 | 16.96 | 46.0 | 15.61 |
| | | 443.0 | 60.7 | 21.71 | 57.0 | 20.85 | 54.0 | 19.93 | 53.4 | 19.26 | 53.2 | 18.40 | 52.0 | 16.91 |
| | | 553.8 | 67.3 | 23.40 | 63.0 | 22.48 | 59.5 | 21.51 | 58.9 | 20.79 | 58.6 | 19.84 | 57.5 | 18.26 |
| | | 664.5 | 70.5 | 24.24 | 65.9 | 23.31 | 62.4 | 22.31 | 61.8 | 21.57 | 61.5 | 20.56 | 60.1 | 18.92 |
| | 0 | 177.2 | 92.9 | 28.69 | 85.7 | 27.54 | 79.7 | 26.39 | 78.2 | 25.48 | 77.1 | 24.29 | 74.2 | 22.37 |
| | | 221.5 | 93.4 | 28.78 | 86.2 | 27.63 | 80.2 | 26.48 | 78.8 | 25.56 | 77.6 | 24.35 | 74.7 | 22.43 |
| | | 443.0 | 95.7 | 29.10 | 88.2 | 27.95 | 82.2 | 26.76 | 80.5 | 25.85 | 79.6 | 24.64 | 76.5 | 22.68 |
| | | 553.8 | 97.1 | 29.10 | 89.4 | 27.95 | 83.4 | 26.76 | 81.9 | 25.85 | 80.8 | 24.64 | 77.6 | 22.68 |
| | | 664.5 | 97.7 | 29.10 | 90.2 | 27.95 | 84.2 | 26.76 | 82.5 | 25.85 | 81.4 | 24.64 | 78.2 | 22.68 |
| | 5 | 177.2 | 128.5 | 31.20 | 121.3 | 30.02 | 115.9 | 28.66 | 113.3 | 27.72 | 108.4 | 26.42 | 103.2 | 24.32 |
| | | 221.5 | 128.8 | 31.37 | 121.4 | 30.16 | 115.9 | 28.81 | 113.3 | 27.86 | 108.4 | 26.57 | 103.2 | 24.44 |
| | | 443.0 | 129.7 | 32.03 | 122.4 | 30.74 | 116.1 | 29.44 | 113.3 | 28.44 | 108.4 | 27.09 | 103.2 | 24.98 |
| | | 553.8 | 129.7 | 32.23 | 122.2 | 30.99 | 116.1 | 29.64 | 113.3 | 28.63 | 108.4 | 27.28 | 103.2 | 25.13 |
| | | 664.5 | 129.7 | 32.32 | 122.2 | 31.11 | 116.1 | 29.73 | 113.3 | 28.72 | 108.4 | 27.37 | 103.2 | 25.19 |
| | 10 | 177.2 | 129.1 | 28.72 | 121.6 | 27.42 | 115.9 | 26.02 | 113.3 | 25.30 | 108.4 | 23.95 | 103.2 | 22.17 |
| | | 221.5 | 129.3 | 28.67 | 121.9 | 27.37 | 115.9 | 26.04 | 113.3 | 25.31 | 108.4 | 23.98 | 103.2 | 22.19 |
| | | 443.0 | 129.7 | 28.52 | 122.4 | 27.23 | 116.1 | 26.08 | 113.3 | 25.36 | 108.4 | 24.01 | 103.2 | 22.25 |
| | | 553.8 | 129.7 | 28.44 | 122.2 | 27.34 | 116.1 | 26.19 | 113.3 | 25.22 | 108.4 | 23.87 | 103.2 | 22.11 |
| | | 664.5 | 129.7 | 28.38 | 122.2 | 27.37 | 116.1 | 26.22 | 113.3 | 25.15 | 108.4 | 23.80 | 103.2 | 22.02 |
| | 15 | 177.2 | 129.7 | 26.22 | 122.2 | 24.82 | 116.1 | 23.32 | 113.3 | 22.89 | 108.4 | 21.50 | 103.2 | 20.10 |
| | | 221.5 | 129.7 | 25.99 | 122.2 | 24.59 | 116.1 | 23.20 | 113.3 | 22.77 | 108.4 | 21.37 | 103.2 | 19.98 |
| | | 443.0 | 129.7 | 25.07 | 122.2 | 23.69 | 116.1 | 22.77 | 113.3 | 22.28 | 108.4 | 20.90 | 103.2 | 19.50 |
| | | 553.8 | 129.7 | 24.59 | 122.2 | 23.69 | 116.1 | 22.77 | 113.3 | 21.80 | 108.4 | 20.41 | 103.2 | 19.03 |
| | | 664.5 | 129.7 | 24.35 | 122.2 | 23.69 | 116.1 | 22.77 | 113.3 | 21.56 | 108.4 | 20.18 | 103.2 | 18.78 |
| | 20 | 177.2 | 129.7 | 21.91 | 122.2 | 21.02 | 116.1 | 19.98 | 113.3 | 19.63 | 108.4 | 18.72 | 103.2 | 17.31 |
| | | 221.5 | 129.7 | 21.80 | 122.2 | 20.90 | 116.1 | 19.98 | 113.3 | 19.50 | 108.4 | 18.60 | 103.2 | 17.19 |
| | | 443.0 | 129.7 | 21.37 | 122.2 | 20.41 | 116.1 | 19.98 | 113.3 | 19.03 | 108.4 | 18.11 | 103.2 | 16.71 |
| | | 553.8 | 129.7 | 20.90 | 122.2 | 19.98 | 116.1 | 19.50 | 113.3 | 19.03 | 108.4 | 17.63 | 103.2 | 16.71 |
| | | 664.5 | 129.7 | 20.65 | 122.2 | 19.76 | 116.1 | 19.26 | 113.3 | 19.03 | 108.4 | 17.39 | 103.2 | 16.71 |
| | 25 | 177.2 | 129.7 | 19.63 | 122.2 | 18.23 | 116.1 | 17.19 | 113.3 | 16.84 | 108.4 | 15.93 | 103.2 | 14.95 |
| | | 221.5 | 129.7 | 19.50 | 122.2 | 18.11 | 116.1 | 17.19 | 113.3 | 16.71 | 108.4 | 15.81 | 103.2 | 14.84 |
| | | 443.0 | 129.7 | 19.03 | 122.2 | 17.63 | 116.1 | 17.19 | 113.3 | 16.24 | 108.4 | 15.32 | 103.2 | 14.41 |
| | | 553.8 | 129.7 | 18.60 | 122.2 | 17.63 | 116.1 | 16.71 | 113.3 | 16.24 | 108.4 | 15.32 | 103.2 | 14.41 |
| | | 664.5 | 129.7 | 18.37 | 122.2 | 17.63 | 116.1 | 16.47 | 113.3 | 16.24 | 108.4 | 15.32 | 103.2 | 14.41 |
| | 30 | 177.2 | 129.7 | 17.31 | 122.2 | 16.34 | 116.1 | 15.44 | 113.3 | 14.95 | 108.4 | 14.06 | 103.2 | 13.14 |
| | | 221.5 | 129.7 | 17.19 | 122.2 | 16.24 | 116.1 | 15.32 | 113.3 | 14.84 | 108.4 | 13.94 | 103.2 | 13.02 |
| | | 443.0 | 129.7 | 16.71 | 122.2 | 15.81 | 116.1 | 14.84 | 113.3 | 14.41 | 108.4 | 13.45 | 103.2 | 12.54 |
| | | 553.8 | 129.7 | 16.71 | 122.2 | 15.81 | 116.1 | 14.84 | 113.3 | 14.41 | 108.4 | 13.45 | 103.2 | 12.54 |
| | | 664.5 | 129.7 | 16.71 | 122.2 | 15.81 | 116.1 | 14.84 | 113.3 | 14.41 | 108.4 | 13.45 | 103.2 | 12.54 |
| | 35 | 177.2 | 129.7 | 15.93 | 122.2 | 14.95 | 116.1 | 13.57 | 113.3 | 13.02 | 108.4 | 12.65 | 103.2 | 11.62 |
| | | 221.5 | 129.7 | 15.81 | 122.2 | 14.84 | 116.1 | 13.45 | 113.3 | 13.02 | 108.4 | 12.54 | 103.2 | 11.62 |
| | | 443.0 | 129.7 | 15.32 | 122.2 | 14.41 | 116.1 | 13.02 | 113.3 | 13.02 | 108.4 | 12.05 | 103.2 | 11.62 |
| | | 553.8 | 129.7 | 15.32 | 122.2 | 13.94 | 116.1 | 13.02 | 113.3 | 12.54 | 108.4 | 12.05 | 103.2 | 11.15 |
| | | 664.5 | 129.7 | 15.32 | 122.2 | 13.69 | 116.1 | 13.02 | 113.3 | 12.30 | 108.4 | 12.05 | 103.2 | 10.90 |
| | 40 | 177.2 | 129.7 | 15.07 | 122.2 | 13.57 | 116.1 | 12.05 | 113.3 | 12.16 | 108.4 | 11.15 | 103.2 | 10.78 |
| | | 221.5 | 129.7 | 14.84 | 122.2 | 13.45 | 116.1 | 12.05 | 113.3 | 12.05 | 108.4 | 11.15 | 103.2 | 10.67 |
| | | 443.0 | 129.7 | 13.94 | 122.2 | 13.02 | 116.1 | 12.05 | 113.3 | 11.62 | 108.4 | 11.15 | 103.2 | 10.23 |
| | | 553.8 | 129.7 | 13.94 | 122.2 | 13.02 | 116.1 | 11.62 | 113.3 | 11.62 | 108.4 | 11.15 | 103.2 | 10.23 |
| | | 664.5 | 129.7 | 13.94 | 122.2 | 13.02 | 116.1 | 11.41 | 113.3 | 11.62 | 108.4 | 11.15 | 103.2 | 10.23 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 177.2 | 129.7 | 14.29 | 122.2 | 12.16 | 116.1 | 10.55 | 113.3 | 11.38 | 108.4 | 9.63 | 103.2 | 9.98 |
| | | 221.5 | 129.7 | 13.94 | 122.2 | 12.05 | 116.1 | 10.67 | 113.3 | 11.15 | 108.4 | 9.75 | 103.2 | 9.75 |
| | | 443.0 | 129.7 | 12.54 | 122.2 | 11.62 | 116.1 | 11.15 | 113.3 | 10.23 | 108.4 | 10.23 | 103.2 | 8.83 |
| | | 553.8 | 129.7 | 12.54 | 122.2 | 12.05 | 116.1 | 10.23 | 113.3 | 10.67 | 108.4 | 10.23 | 103.2 | 9.26 |
| | | 664.5 | 129.7 | 12.54 | 122.2 | 12.28 | 116.1 | 9.77 | 113.3 | 10.87 | 108.4 | 10.23 | 103.2 | 9.49 |
| 70 | -5 | 177.2 | 45.4 | 16.79 | 42.6 | 15.98 | 40.3 | 15.47 | 39.9 | 14.58 | 39.7 | 14.06 | 39.1 | 12.79 |
| | | 221.5 | 46.9 | 17.14 | 44.0 | 16.33 | 41.7 | 15.81 | 41.2 | 14.89 | 41.1 | 14.37 | 40.3 | 13.06 |
| | | 443.0 | 53.2 | 18.60 | 49.8 | 17.72 | 47.1 | 17.14 | 46.6 | 16.13 | 46.3 | 15.56 | 45.5 | 14.17 |
| | | 553.8 | 58.7 | 20.07 | 55.2 | 19.12 | 52.0 | 18.49 | 51.7 | 17.39 | 51.2 | 16.82 | 50.3 | 15.27 |
| | | 664.5 | 61.6 | 20.82 | 57.8 | 19.81 | 54.6 | 19.18 | 54.1 | 18.02 | 53.7 | 17.45 | 52.6 | 15.84 |
| | 0 | 177.2 | 81.1 | 24.58 | 75.0 | 23.43 | 69.6 | 22.65 | 68.4 | 21.31 | 67.3 | 20.59 | 65.0 | 18.74 |
| | | 221.5 | 81.7 | 24.64 | 75.6 | 23.49 | 70.1 | 22.72 | 69.0 | 21.37 | 67.8 | 20.65 | 65.3 | 18.78 |
| | | 443.0 | 83.6 | 24.93 | 77.3 | 23.72 | 71.6 | 23.00 | 70.5 | 21.62 | 69.3 | 20.90 | 66.9 | 18.98 |
| | | 553.8 | 84.8 | 24.93 | 78.5 | 23.72 | 72.8 | 23.00 | 71.6 | 21.62 | 70.5 | 20.90 | 67.9 | 18.98 |
| | | 664.5 | 85.4 | 24.93 | 79.1 | 23.72 | 73.3 | 23.00 | 72.1 | 21.62 | 71.0 | 20.90 | 68.4 | 18.98 |
| | 5 | 177.2 | 112.1 | 26.77 | 106.3 | 25.47 | 101.2 | 24.64 | 99.2 | 23.23 | 94.6 | 22.40 | 90.2 | 20.36 |
| | | 221.5 | 112.4 | 26.91 | 106.4 | 25.59 | 101.2 | 24.78 | 99.2 | 23.35 | 94.6 | 22.54 | 90.2 | 20.47 |
| | | 443.0 | 113.3 | 27.43 | 107.3 | 26.13 | 101.4 | 25.31 | 99.2 | 23.78 | 94.6 | 23.00 | 90.2 | 20.90 |
| | | 553.8 | 113.3 | 27.63 | 107.2 | 26.33 | 101.4 | 25.50 | 99.2 | 23.98 | 94.6 | 23.15 | 90.2 | 21.04 |
| | | 664.5 | 113.3 | 27.72 | 107.0 | 26.42 | 101.4 | 25.61 | 99.2 | 24.07 | 94.6 | 23.23 | 90.2 | 21.11 |
| | 10 | 177.2 | 112.7 | 24.64 | 106.7 | 23.29 | 101.4 | 22.43 | 99.2 | 21.19 | 94.6 | 20.32 | 90.2 | 18.60 |
| | | 221.5 | 112.7 | 24.59 | 106.7 | 23.26 | 101.4 | 22.39 | 99.2 | 21.19 | 94.6 | 20.32 | 90.2 | 18.60 |
| | | 443.0 | 113.3 | 24.41 | 107.2 | 23.06 | 101.4 | 22.19 | 99.2 | 21.19 | 94.6 | 20.32 | 90.2 | 18.60 |
| | | 553.8 | 113.3 | 24.50 | 107.2 | 23.15 | 101.4 | 22.28 | 99.2 | 21.28 | 94.6 | 20.18 | 90.2 | 18.63 |
| | | 664.5 | 113.3 | 24.55 | 107.2 | 23.20 | 101.4 | 22.34 | 99.2 | 21.33 | 94.6 | 20.10 | 90.2 | 18.66 |
| | 15 | 177.2 | 113.3 | 22.51 | 107.2 | 21.13 | 101.4 | 20.22 | 99.2 | 19.12 | 94.6 | 18.23 | 90.2 | 16.84 |
| | | 221.5 | 113.3 | 22.28 | 107.2 | 20.90 | 101.4 | 19.98 | 99.2 | 19.03 | 94.6 | 18.11 | 90.2 | 16.71 |
| | | 443.0 | 113.3 | 21.37 | 107.2 | 19.98 | 101.4 | 19.03 | 99.2 | 18.60 | 94.6 | 17.63 | 90.2 | 16.24 |
| | | 553.8 | 113.3 | 21.37 | 107.2 | 19.98 | 101.4 | 19.03 | 99.2 | 18.60 | 94.6 | 17.19 | 90.2 | 16.24 |
| | | 664.5 | 113.3 | 21.37 | 107.2 | 19.98 | 101.4 | 19.03 | 99.2 | 18.60 | 94.6 | 16.99 | 90.2 | 16.24 |
| | 20 | 177.2 | 113.3 | 18.72 | 107.2 | 17.74 | 101.4 | 17.31 | 99.2 | 16.84 | 94.6 | 15.93 | 90.2 | 14.95 |
| | | 221.5 | 113.3 | 18.60 | 107.2 | 17.63 | 101.4 | 17.19 | 99.2 | 16.71 | 94.6 | 15.81 | 90.2 | 14.84 |
| | | 443.0 | 113.3 | 18.11 | 107.2 | 17.19 | 101.4 | 16.71 | 99.2 | 16.24 | 94.6 | 15.32 | 90.2 | 14.41 |
| | | 553.8 | 113.3 | 18.11 | 107.2 | 17.19 | 101.4 | 16.71 | 99.2 | 15.81 | 94.6 | 15.32 | 90.2 | 13.94 |
| | | 664.5 | 113.3 | 18.11 | 107.2 | 17.19 | 101.4 | 16.71 | 99.2 | 15.58 | 94.6 | 15.32 | 90.2 | 13.69 |
| | 25 | 177.2 | 113.3 | 16.84 | 107.2 | 15.93 | 101.4 | 14.95 | 99.2 | 14.52 | 94.6 | 13.45 | 90.2 | 12.54 |
| | | 221.5 | 113.3 | 16.71 | 107.2 | 15.81 | 101.4 | 14.84 | 99.2 | 14.41 | 94.6 | 13.45 | 90.2 | 12.54 |
| | | 443.0 | 113.3 | 16.24 | 107.2 | 15.32 | 101.4 | 14.41 | 99.2 | 13.94 | 94.6 | 13.45 | 90.2 | 12.54 |
| | | 553.8 | 113.3 | 15.81 | 107.2 | 14.84 | 101.4 | 14.41 | 99.2 | 13.94 | 94.6 | 13.02 | 90.2 | 12.54 |
| | | 664.5 | 113.3 | 15.58 | 107.2 | 14.60 | 101.4 | 14.41 | 99.2 | 13.94 | 94.6 | 12.80 | 90.2 | 12.54 |
| | 30 | 177.2 | 113.3 | 14.95 | 107.2 | 14.06 | 101.4 | 13.14 | 99.2 | 12.54 | 94.6 | 12.16 | 90.2 | 11.15 |
| | | 221.5 | 113.3 | 14.84 | 107.2 | 13.94 | 101.4 | 13.02 | 99.2 | 12.54 | 94.6 | 12.05 | 90.2 | 11.15 |
| | | 443.0 | 113.3 | 14.41 | 107.2 | 13.45 | 101.4 | 12.54 | 99.2 | 12.54 | 94.6 | 11.62 | 90.2 | 11.15 |
| | | 553.8 | 113.3 | 14.41 | 107.2 | 13.45 | 101.4 | 12.54 | 99.2 | 12.05 | 94.6 | 11.62 | 90.2 | 11.15 |
| | | 664.5 | 113.3 | 14.41 | 107.2 | 13.45 | 101.4 | 12.54 | 99.2 | 11.82 | 94.6 | 11.62 | 90.2 | 11.15 |
| | 35 | 177.2 | 113.3 | 13.57 | 107.2 | 12.65 | 101.4 | 11.62 | 99.2 | 11.76 | 94.6 | 10.67 | 90.2 | 10.35 |
| | | 221.5 | 113.3 | 13.45 | 107.2 | 12.54 | 101.4 | 11.62 | 99.2 | 11.62 | 94.6 | 10.67 | 90.2 | 10.23 |
| | | 443.0 | 113.3 | 13.02 | 107.2 | 12.05 | 101.4 | 11.62 | 99.2 | 11.15 | 94.6 | 10.67 | 90.2 | 9.75 |
| | | 553.8 | 113.3 | 13.02 | 107.2 | 12.05 | 101.4 | 11.15 | 99.2 | 11.15 | 94.6 | 10.67 | 90.2 | 9.75 |
| | | 664.5 | 113.3 | 13.02 | 107.2 | 12.05 | 101.4 | 10.90 | 99.2 | 11.15 | 94.6 | 10.67 | 90.2 | 9.75 |
| | 40 | 177.2 | 113.3 | 12.65 | 107.2 | 11.76 | 101.4 | 10.78 | 99.2 | 10.23 | 94.6 | 9.75 | 90.2 | 9.38 |
| | | 221.5 | 113.3 | 12.54 | 107.2 | 11.62 | 101.4 | 10.67 | 99.2 | 10.23 | 94.6 | 9.75 | 90.2 | 9.26 |
| | | 443.0 | 113.3 | 12.05 | 107.2 | 11.15 | 101.4 | 10.23 | 99.2 | 10.23 | 94.6 | 9.75 | 90.2 | 8.83 |
| | | 553.8 | 113.3 | 12.05 | 107.2 | 11.15 | 101.4 | 10.23 | 99.2 | 9.75 | 94.6 | 9.26 | 90.2 | 8.83 |
| | | 664.5 | 113.3 | 12.05 | 107.2 | 11.15 | 101.4 | 10.23 | 99.2 | 9.51 | 94.6 | 9.03 | 90.2 | 8.83 |
| | 45 | 177.2 | 113.3 | 11.76 | 107.2 | 10.78 | 101.4 | 9.98 | 99.2 | 8.74 | 94.6 | 8.83 | 90.2 | 8.48 |
| | | 221.5 | 113.3 | 11.62 | 107.2 | 10.67 | 101.4 | 9.75 | 99.2 | 8.83 | 94.6 | 8.83 | 90.2 | 8.36 |
| | | 443.0 | 113.3 | 11.15 | 107.2 | 10.23 | 101.4 | 8.83 | 99.2 | 9.26 | 94.6 | 8.83 | 90.2 | 7.88 |
| | | 553.8 | 113.3 | 11.15 | 107.2 | 10.23 | 101.4 | 9.26 | 99.2 | 8.36 | 94.6 | 7.88 | 90.2 | 7.88 |
| | | 664.5 | 113.3 | 11.15 | 107.2 | 10.23 | 101.4 | 9.49 | 99.2 | 7.90 | 94.6 | 7.39 | 90.2 | 7.88 |
| 60 | -5 | 177.2 | 38.9 | 13.63 | 36.5 | 13.11 | 34.5 | 12.59 | 34.2 | 11.70 | 33.9 | 11.50 | 33.3 | 10.29 |
| | | 221.5 | 40.3 | 13.94 | 37.7 | 13.40 | 35.7 | 12.88 | 35.3 | 11.96 | 35.1 | 11.76 | 34.5 | 10.52 |
| | | 443.0 | 45.7 | 15.13 | 42.8 | 14.55 | 40.5 | 13.97 | 40.0 | 12.97 | 39.9 | 12.77 | 39.1 | 11.44 |
| | | 553.8 | 50.3 | 16.28 | 47.2 | 15.70 | 44.8 | 15.09 | 44.3 | 14.03 | 44.0 | 13.78 | 43.1 | 12.30 |
| | | 664.5 | 52.9 | 16.87 | 49.4 | 16.30 | 46.9 | 15.64 | 46.3 | 14.55 | 46.3 | 14.29 | 45.1 | 12.74 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 177.2 | 69.6 | 19.98 | 64.1 | 19.26 | 59.8 | 18.43 | 58.7 | 17.14 | 57.8 | 16.91 | 55.8 | 15.09 |
| | | 221.5 | 70.1 | 20.04 | 64.7 | 19.32 | 60.3 | 18.49 | 59.0 | 17.19 | 58.3 | 16.96 | 56.1 | 15.13 |
| | | 443.0 | 71.6 | 20.27 | 66.1 | 19.50 | 61.8 | 18.74 | 60.4 | 17.39 | 59.5 | 17.14 | 57.2 | 15.27 |
| | | 553.8 | 72.8 | 20.27 | 67.0 | 19.50 | 62.7 | 18.74 | 61.3 | 17.39 | 60.6 | 17.14 | 58.3 | 15.27 |
| | | 664.5 | 73.3 | 20.27 | 67.6 | 19.50 | 63.2 | 18.74 | 61.8 | 17.39 | 61.0 | 17.14 | 58.7 | 15.27 |
| | 5 | 177.2 | 96.3 | 21.74 | 90.8 | 20.93 | 87.1 | 20.07 | 84.8 | 18.69 | 81.3 | 18.40 | 77.3 | 16.39 |
| | | 221.5 | 96.6 | 21.85 | 90.9 | 21.04 | 87.1 | 20.18 | 84.8 | 18.78 | 81.3 | 18.49 | 77.3 | 16.47 |
| | | 443.0 | 97.4 | 22.28 | 91.7 | 21.48 | 87.1 | 20.61 | 84.8 | 19.17 | 81.3 | 18.89 | 77.3 | 16.82 |
| | | 553.8 | 97.4 | 22.48 | 91.5 | 21.62 | 87.1 | 20.76 | 84.8 | 19.32 | 81.3 | 18.98 | 77.3 | 16.96 |
| | | 664.5 | 97.4 | 22.57 | 91.4 | 21.68 | 87.1 | 20.82 | 84.8 | 19.38 | 81.3 | 19.03 | 77.3 | 17.02 |
| | 10 | 177.2 | 96.9 | 19.98 | 91.1 | 19.12 | 87.1 | 18.20 | 84.8 | 17.00 | 81.3 | 16.68 | 77.3 | 14.95 |
| | | 221.5 | 96.9 | 19.98 | 91.2 | 19.12 | 87.1 | 18.20 | 84.8 | 17.05 | 81.3 | 16.67 | 77.3 | 14.98 |
| | | 443.0 | 97.4 | 19.98 | 91.7 | 19.12 | 87.1 | 18.20 | 84.8 | 17.25 | 81.3 | 16.62 | 77.3 | 15.13 |
| | | 553.8 | 97.4 | 20.04 | 91.5 | 18.92 | 87.1 | 18.02 | 84.8 | 17.05 | 81.3 | 16.47 | 77.3 | 14.98 |
| | | 664.5 | 97.4 | 20.06 | 91.4 | 18.83 | 87.1 | 17.91 | 84.8 | 16.96 | 81.3 | 16.41 | 77.3 | 14.92 |
| | 15 | 177.2 | 97.4 | 18.23 | 91.5 | 17.31 | 87.1 | 16.34 | 84.8 | 15.32 | 81.3 | 14.95 | 77.3 | 13.45 |
| | | 221.5 | 97.4 | 18.11 | 91.5 | 17.19 | 87.1 | 16.24 | 84.8 | 15.32 | 81.3 | 14.84 | 77.3 | 13.45 |
| | | 443.0 | 97.4 | 17.63 | 91.5 | 16.71 | 87.1 | 15.81 | 84.8 | 15.32 | 81.3 | 14.41 | 77.3 | 13.45 |
| | | 553.8 | 97.4 | 17.63 | 91.5 | 16.24 | 87.1 | 15.32 | 84.8 | 14.84 | 81.3 | 13.94 | 77.3 | 13.02 |
| | | 664.5 | 97.4 | 17.63 | 91.5 | 15.99 | 87.1 | 15.09 | 84.8 | 14.60 | 81.3 | 13.69 | 77.3 | 12.80 |
| | 20 | 177.2 | 97.4 | 15.93 | 91.5 | 14.95 | 87.1 | 14.06 | 84.8 | 13.57 | 81.3 | 13.14 | 77.3 | 12.16 |
| | | 221.5 | 97.4 | 15.81 | 91.5 | 14.84 | 87.1 | 13.94 | 84.8 | 13.45 | 81.3 | 13.02 | 77.3 | 12.05 |
| | | 443.0 | 97.4 | 15.32 | 91.5 | 14.41 | 87.1 | 13.45 | 84.8 | 13.02 | 81.3 | 12.54 | 77.3 | 11.62 |
| | | 553.8 | 97.4 | 15.32 | 91.5 | 14.41 | 87.1 | 13.45 | 84.8 | 13.02 | 81.3 | 12.54 | 77.3 | 11.62 |
| | | 664.5 | 97.4 | 15.32 | 91.5 | 14.41 | 87.1 | 13.45 | 84.8 | 13.02 | 81.3 | 12.54 | 77.3 | 11.62 |
| | 25 | 177.2 | 97.4 | 14.06 | 91.5 | 13.14 | 87.1 | 12.05 | 84.8 | 12.16 | 81.3 | 11.15 | 77.3 | 10.78 |
| | | 221.5 | 97.4 | 13.94 | 91.5 | 13.02 | 87.1 | 12.05 | 84.8 | 12.05 | 81.3 | 11.15 | 77.3 | 10.67 |
| | | 443.0 | 97.4 | 13.45 | 91.5 | 12.54 | 87.1 | 12.05 | 84.8 | 11.62 | 81.3 | 11.15 | 77.3 | 10.23 |
| | | 553.8 | 97.4 | 13.45 | 91.5 | 12.54 | 87.1 | 11.62 | 84.8 | 11.62 | 81.3 | 11.15 | 77.3 | 10.23 |
| | | 664.5 | 97.4 | 13.45 | 91.5 | 12.54 | 87.1 | 11.41 | 84.8 | 11.62 | 81.3 | 11.15 | 77.3 | 10.23 |
| | 30 | 177.2 | 97.4 | 12.65 | 91.5 | 11.76 | 87.1 | 11.27 | 84.8 | 10.78 | 81.3 | 10.35 | 77.3 | 9.86 |
| | | 221.5 | 97.4 | 12.54 | 91.5 | 11.62 | 87.1 | 11.15 | 84.8 | 10.67 | 81.3 | 10.23 | 77.3 | 9.75 |
| | | 443.0 | 97.4 | 12.05 | 91.5 | 11.15 | 87.1 | 10.67 | 84.8 | 10.23 | 81.3 | 9.75 | 77.3 | 9.26 |
| | | 553.8 | 97.4 | 12.05 | 91.5 | 11.15 | 87.1 | 10.67 | 84.8 | 10.23 | 81.3 | 9.75 | 77.3 | 9.26 |
| | | 664.5 | 97.4 | 12.05 | 91.5 | 11.15 | 87.1 | 10.67 | 84.8 | 10.23 | 81.3 | 9.75 | 77.3 | 9.26 |
| | 35 | 177.2 | 97.4 | 11.15 | 91.5 | 10.78 | 87.1 | 9.75 | 84.8 | 9.86 | 81.3 | 9.38 | 77.3 | 8.97 |
| | | 221.5 | 97.4 | 11.15 | 91.5 | 10.67 | 87.1 | 9.75 | 84.8 | 9.75 | 81.3 | 9.26 | 77.3 | 8.83 |
| | | 443.0 | 97.4 | 11.15 | 91.5 | 10.23 | 87.1 | 9.75 | 84.8 | 9.26 | 81.3 | 8.83 | 77.3 | 8.36 |
| | | 553.8 | 97.4 | 11.15 | 91.5 | 10.23 | 87.1 | 9.26 | 84.8 | 9.26 | 81.3 | 8.83 | 77.3 | 8.36 |
| | | 664.5 | 97.4 | 11.15 | 91.5 | 10.23 | 87.1 | 9.03 | 84.8 | 9.26 | 81.3 | 8.83 | 77.3 | 8.36 |
| | 40 | 177.2 | 97.4 | 10.23 | 91.5 | 9.86 | 87.1 | 8.83 | 84.8 | 8.97 | 81.3 | 8.48 | 77.3 | 7.88 |
| | | 221.5 | 97.4 | 10.23 | 91.5 | 9.75 | 87.1 | 8.83 | 84.8 | 8.83 | 81.3 | 8.36 | 77.3 | 7.88 |
| | | 443.0 | 97.4 | 10.23 | 91.5 | 9.26 | 87.1 | 8.83 | 84.8 | 8.36 | 81.3 | 7.88 | 77.3 | 7.88 |
| | | 553.8 | 97.4 | 10.23 | 91.5 | 9.26 | 87.1 | 8.83 | 84.8 | 8.36 | 81.3 | 7.88 | 77.3 | 7.88 |
| | | 664.5 | 97.4 | 10.23 | 91.5 | 9.26 | 87.1 | 8.83 | 84.8 | 8.36 | 81.3 | 7.88 | 77.3 | 7.88 |
| | 45 | 177.2 | 97.4 | 9.26 | 91.5 | 8.97 | 87.1 | 7.88 | 84.8 | 7.99 | 81.3 | 7.56 | 77.3 | 6.84 |
| | | 221.5 | 97.4 | 9.26 | 91.5 | 8.83 | 87.1 | 7.88 | 84.8 | 7.88 | 81.3 | 7.45 | 77.3 | 6.96 |
| | | 443.0 | 97.4 | 9.26 | 91.5 | 8.36 | 87.1 | 7.88 | 84.8 | 7.45 | 81.3 | 6.96 | 77.3 | 7.45 |
| | | 553.8 | 97.4 | 9.26 | 91.5 | 8.36 | 87.1 | 8.36 | 84.8 | 7.45 | 81.3 | 6.96 | 77.3 | 7.45 |
| | | 664.5 | 97.4 | 9.26 | 91.5 | 8.36 | 87.1 | 8.60 | 84.8 | 7.45 | 81.3 | 6.96 | 77.3 | 7.45 |
| 50 | -5 | 177.2 | 32.5 | 10.87 | 30.5 | 10.29 | 28.8 | 9.74 | 28.4 | 9.20 | 28.2 | 8.65 | 27.8 | 8.19 |
| | | 221.5 | 33.6 | 11.10 | 31.6 | 10.52 | 29.9 | 9.95 | 29.3 | 9.41 | 29.3 | 8.83 | 28.7 | 8.36 |
| | | 443.0 | 37.9 | 12.02 | 35.6 | 11.44 | 33.7 | 10.76 | 33.3 | 10.23 | 33.1 | 9.60 | 32.5 | 9.03 |
| | | 553.8 | 42.0 | 12.97 | 39.4 | 12.30 | 37.1 | 11.62 | 36.8 | 11.04 | 36.5 | 10.32 | 36.0 | 9.75 |
| | | 664.5 | 44.0 | 13.45 | 41.4 | 12.74 | 39.1 | 12.05 | 38.5 | 11.47 | 38.2 | 10.69 | 37.7 | 10.12 |
| | 0 | 177.2 | 57.8 | 15.90 | 53.5 | 15.09 | 49.8 | 14.23 | 48.8 | 13.49 | 48.0 | 12.68 | 46.3 | 11.96 |
| | | 221.5 | 58.3 | 15.95 | 54.0 | 15.13 | 50.1 | 14.26 | 49.1 | 13.54 | 48.3 | 12.73 | 46.6 | 12.02 |
| | | 443.0 | 59.5 | 16.10 | 55.2 | 15.27 | 51.4 | 14.46 | 50.3 | 13.74 | 49.7 | 12.88 | 47.7 | 12.16 |
| | | 553.8 | 60.6 | 16.10 | 56.0 | 15.27 | 52.0 | 14.46 | 51.1 | 13.74 | 50.3 | 12.88 | 48.6 | 12.16 |
| | | 664.5 | 61.0 | 16.10 | 56.3 | 15.27 | 52.3 | 14.46 | 51.5 | 13.74 | 50.6 | 12.88 | 48.9 | 12.16 |
| | 5 | 177.2 | 80.0 | 17.31 | 75.9 | 16.39 | 72.4 | 15.47 | 70.7 | 14.72 | 67.6 | 13.83 | 64.4 | 12.99 |
| | | 221.5 | 80.2 | 17.39 | 75.9 | 16.47 | 72.4 | 15.56 | 70.7 | 14.80 | 67.6 | 13.89 | 64.4 | 13.06 |
| | | 443.0 | 80.8 | 17.72 | 76.5 | 16.82 | 72.5 | 15.90 | 70.7 | 15.09 | 67.6 | 14.12 | 64.4 | 13.34 |
| | | 553.8 | 80.8 | 17.86 | 76.5 | 16.96 | 72.5 | 15.99 | 70.7 | 15.18 | 67.6 | 14.26 | 64.4 | 13.45 |
| | | 664.5 | 80.8 | 17.94 | 76.4 | 17.02 | 72.5 | 16.04 | 70.7 | 15.23 | 67.6 | 14.34 | 64.4 | 13.49 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(46HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 177.2 | 80.5 | 15.93 | 76.1 | 15.01 | 72.4 | 14.09 | 70.7 | 13.48 | 67.6 | 12.45 | 64.4 | 11.90 |
| | | 221.5 | 80.5 | 15.90 | 76.2 | 14.98 | 72.4 | 14.08 | 70.7 | 13.45 | 67.6 | 12.48 | 64.4 | 11.87 |
| | | 443.0 | 80.8 | 15.81 | 76.5 | 14.95 | 72.5 | 13.97 | 70.7 | 13.34 | 67.6 | 12.63 | 64.4 | 11.76 |
| | | 553.8 | 80.8 | 15.90 | 76.5 | 14.98 | 72.5 | 14.03 | 70.7 | 13.40 | 67.6 | 12.45 | 64.4 | 11.82 |
| | | 664.5 | 80.8 | 15.95 | 76.4 | 15.01 | 72.5 | 14.06 | 70.7 | 13.43 | 67.6 | 12.34 | 64.4 | 11.84 |
| | 15 | 177.2 | 80.8 | 14.52 | 76.5 | 13.57 | 72.5 | 12.65 | 70.7 | 12.16 | 67.6 | 11.15 | 64.4 | 10.78 |
| | | 221.5 | 80.8 | 14.41 | 76.5 | 13.45 | 72.5 | 12.54 | 70.7 | 12.05 | 67.6 | 11.15 | 64.4 | 10.67 |
| | | 443.0 | 80.8 | 13.94 | 76.5 | 13.02 | 72.5 | 12.05 | 70.7 | 11.62 | 67.6 | 11.15 | 64.4 | 10.23 |
| | | 553.8 | 80.8 | 13.94 | 76.5 | 13.02 | 72.5 | 12.05 | 70.7 | 11.62 | 67.6 | 10.67 | 64.4 | 10.23 |
| | | 664.5 | 80.8 | 13.94 | 76.5 | 13.02 | 72.5 | 12.05 | 70.7 | 11.62 | 67.6 | 10.41 | 64.4 | 10.23 |
| | 20 | 177.2 | 80.8 | 12.65 | 76.5 | 11.76 | 72.5 | 11.27 | 70.7 | 10.78 | 67.6 | 10.35 | 64.4 | 9.26 |
| | | 221.5 | 80.8 | 12.54 | 76.5 | 11.62 | 72.5 | 11.15 | 70.7 | 10.67 | 67.6 | 10.23 | 64.4 | 9.26 |
| | | 443.0 | 80.8 | 12.05 | 76.5 | 11.15 | 72.5 | 10.67 | 70.7 | 10.23 | 67.6 | 9.75 | 64.4 | 9.26 |
| | | 553.8 | 80.8 | 12.05 | 76.5 | 11.15 | 72.5 | 10.67 | 70.7 | 10.23 | 67.6 | 9.75 | 64.4 | 9.26 |
| | | 664.5 | 80.8 | 12.05 | 76.5 | 11.15 | 72.5 | 10.67 | 70.7 | 10.23 | 67.6 | 9.75 | 64.4 | 9.26 |
| | 25 | 177.2 | 80.8 | 11.27 | 76.5 | 10.23 | 72.5 | 9.86 | 70.7 | 9.26 | 67.6 | 8.83 | 64.4 | 8.36 |
| | | 221.5 | 80.8 | 11.15 | 76.5 | 10.23 | 72.5 | 9.75 | 70.7 | 9.26 | 67.6 | 8.83 | 64.4 | 8.36 |
| | | 443.0 | 80.8 | 10.67 | 76.5 | 10.23 | 72.5 | 9.26 | 70.7 | 9.26 | 67.6 | 8.83 | 64.4 | 8.36 |
| | | 553.8 | 80.8 | 10.67 | 76.5 | 10.23 | 72.5 | 9.26 | 70.7 | 9.26 | 67.6 | 8.83 | 64.4 | 8.36 |
| | | 664.5 | 80.8 | 10.67 | 76.5 | 10.23 | 72.5 | 9.26 | 70.7 | 9.26 | 67.6 | 8.83 | 64.4 | 8.36 |
| | 30 | 177.2 | 80.8 | 10.35 | 76.5 | 9.38 | 72.5 | 8.97 | 70.7 | 8.36 | 67.6 | 8.48 | 64.4 | 7.99 |
| | | 221.5 | 80.8 | 10.23 | 76.5 | 9.26 | 72.5 | 8.83 | 70.7 | 8.36 | 67.6 | 8.36 | 64.4 | 7.88 |
| | | 443.0 | 80.8 | 9.75 | 76.5 | 8.83 | 72.5 | 8.36 | 70.7 | 8.36 | 67.6 | 7.88 | 64.4 | 7.45 |
| | | 553.8 | 80.8 | 9.75 | 76.5 | 8.83 | 72.5 | 8.36 | 70.7 | 8.36 | 67.6 | 7.88 | 64.4 | 7.45 |
| | | 664.5 | 80.8 | 9.75 | 76.5 | 8.83 | 72.5 | 8.36 | 70.7 | 8.36 | 67.6 | 7.88 | 64.4 | 7.45 |
| | 35 | 177.2 | 80.8 | 9.38 | 76.5 | 8.36 | 72.5 | 7.88 | 70.7 | 7.99 | 67.6 | 7.45 | 64.4 | 6.96 |
| | | 221.5 | 80.8 | 9.26 | 76.5 | 8.36 | 72.5 | 7.88 | 70.7 | 7.88 | 67.6 | 7.45 | 64.4 | 6.96 |
| | | 443.0 | 80.8 | 8.83 | 76.5 | 8.36 | 72.5 | 7.88 | 70.7 | 7.45 | 67.6 | 7.45 | 64.4 | 6.96 |
| | | 553.8 | 80.8 | 8.83 | 76.5 | 8.36 | 72.5 | 7.88 | 70.7 | 7.45 | 67.6 | 7.45 | 64.4 | 6.96 |
| | | 664.5 | 80.8 | 8.83 | 76.5 | 8.36 | 72.5 | 7.88 | 70.7 | 7.45 | 67.6 | 7.45 | 64.4 | 6.96 |
| | 40 | 177.2 | 80.8 | 8.48 | 76.5 | 7.99 | 72.5 | 7.56 | 70.7 | 6.96 | 67.6 | 7.08 | 64.4 | 6.49 |
| | | 221.5 | 80.8 | 8.36 | 76.5 | 7.88 | 72.5 | 7.45 | 70.7 | 6.96 | 67.6 | 6.96 | 64.4 | 6.49 |
| | | 443.0 | 80.8 | 7.88 | 76.5 | 7.45 | 72.5 | 6.96 | 70.7 | 6.96 | 67.6 | 6.49 | 64.4 | 6.49 |
| | | 553.8 | 80.8 | 7.88 | 76.5 | 7.45 | 72.5 | 6.96 | 70.7 | 6.96 | 67.6 | 6.49 | 64.4 | 6.49 |
| | | 664.5 | 80.8 | 7.88 | 76.5 | 7.45 | 72.5 | 6.96 | 70.7 | 6.96 | 67.6 | 6.49 | 64.4 | 6.49 |
| | 45 | 177.2 | 80.8 | 7.56 | 76.5 | 7.68 | 72.5 | 7.19 | 70.7 | 5.95 | 67.6 | 6.72 | 64.4 | 6.06 |
| | | 221.5 | 80.8 | 7.45 | 76.5 | 7.45 | 72.5 | 6.96 | 70.7 | 6.06 | 67.6 | 6.49 | 64.4 | 6.06 |
| | | 443.0 | 80.8 | 6.96 | 76.5 | 6.49 | 72.5 | 6.06 | 70.7 | 6.49 | 67.6 | 5.58 | 64.4 | 6.06 |
| | | 553.8 | 80.8 | 6.96 | 76.5 | 6.49 | 72.5 | 6.06 | 70.7 | 6.49 | 67.6 | 5.58 | 64.4 | 6.06 |
| | | 664.5 | 80.8 | 6.96 | 76.5 | 6.49 | 72.5 | 6.06 | 70.7 | 6.49 | 67.6 | 5.58 | 64.4 | 6.06 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## ARWN480BAS4

**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 130 | -5 | 184.8 | 71.4 | 30.45 | 71.1 | 28.65 | 70.5 | 26.67 | 69.6 | 25.89 | 70.5 | 25.23 | 68.4 | 22.62 |
| | | 231.0 | 74.1 | 30.96 | 73.5 | 29.22 | 72.9 | 27.27 | 72.0 | 26.46 | 72.9 | 25.77 | 70.8 | 23.10 |
| | | 462.0 | 83.7 | 33.09 | 83.1 | 31.44 | 82.5 | 29.58 | 81.3 | 28.71 | 82.5 | 27.93 | 80.4 | 25.05 |
| | | 577.5 | 92.4 | 35.19 | 91.8 | 33.57 | 91.2 | 31.89 | 90.0 | 31.02 | 91.2 | 30.12 | 88.8 | 27.03 |
| | | 693.0 | 96.9 | 36.24 | 96.0 | 34.68 | 95.4 | 33.03 | 94.2 | 32.19 | 95.4 | 31.23 | 93.0 | 27.99 |
| | 0 | 184.8 | 127.8 | 41.64 | 124.8 | 40.41 | 122.1 | 39.09 | 119.4 | 37.98 | 120.0 | 36.93 | 114.6 | 33.09 |
| | | 231.0 | 128.7 | 41.76 | 125.7 | 40.50 | 123.0 | 39.18 | 120.3 | 38.10 | 120.6 | 37.05 | 115.2 | 33.18 |
| | | 462.0 | 131.7 | 42.21 | 128.4 | 40.89 | 125.7 | 39.66 | 123.0 | 38.55 | 123.6 | 37.44 | 117.9 | 33.57 |
| | | 577.5 | 133.5 | 42.21 | 130.5 | 40.89 | 127.8 | 39.66 | 124.8 | 38.55 | 125.4 | 37.44 | 119.7 | 33.57 |
| | | 693.0 | 134.7 | 42.21 | 131.4 | 40.89 | 128.7 | 39.66 | 125.7 | 38.55 | 126.3 | 37.44 | 120.6 | 33.57 |
| | 5 | 184.8 | 183.9 | 44.76 | 181.2 | 43.65 | 177.6 | 42.54 | 173.1 | 41.34 | 168.3 | 40.20 | 159.0 | 36.00 |
| | | 231.0 | 184.8 | 44.97 | 181.5 | 43.86 | 177.6 | 42.75 | 173.1 | 41.55 | 168.3 | 40.41 | 159.0 | 36.18 |
| | | 462.0 | 187.2 | 45.75 | 182.7 | 44.67 | 177.6 | 43.62 | 173.1 | 42.39 | 168.3 | 41.19 | 159.0 | 36.93 |
| | | 577.5 | 188.4 | 46.05 | 183.3 | 44.97 | 177.6 | 43.92 | 173.1 | 42.69 | 168.3 | 41.49 | 159.0 | 37.20 |
| | | 693.0 | 189.0 | 46.20 | 183.6 | 45.12 | 177.6 | 44.07 | 173.1 | 42.84 | 168.3 | 41.64 | 159.0 | 37.32 |
| | 10 | 184.8 | 184.2 | 40.71 | 181.2 | 39.36 | 177.0 | 38.61 | 172.2 | 37.74 | 167.7 | 36.45 | 158.4 | 32.91 |
| | | 231.0 | 185.4 | 40.65 | 182.1 | 39.39 | 177.6 | 38.70 | 173.1 | 37.74 | 168.3 | 36.45 | 159.0 | 32.88 |
| | | 462.0 | 189.6 | 40.35 | 185.4 | 39.54 | 180.6 | 39.00 | 175.8 | 37.68 | 171.0 | 36.33 | 161.7 | 32.79 |
| | | 577.5 | 190.8 | 40.89 | 186.9 | 40.11 | 181.5 | 39.15 | 176.7 | 37.83 | 171.9 | 36.93 | 162.6 | 34.32 |
| | | 693.0 | 191.1 | 41.19 | 187.5 | 40.38 | 182.1 | 39.21 | 177.0 | 37.92 | 172.5 | 37.23 | 163.2 | 35.13 |
| | 15 | 184.8 | 184.5 | 36.69 | 181.2 | 35.13 | 176.1 | 34.77 | 171.6 | 34.17 | 167.1 | 32.73 | 157.8 | 29.82 |
| | | 231.0 | 186.0 | 36.33 | 182.7 | 34.98 | 177.6 | 34.68 | 173.1 | 33.93 | 168.3 | 32.49 | 159.0 | 29.58 |
| | | 462.0 | 192.0 | 34.89 | 188.1 | 34.38 | 183.3 | 34.38 | 178.5 | 32.94 | 173.4 | 31.47 | 164.1 | 28.56 |
| | | 577.5 | 193.2 | 35.73 | 189.9 | 35.19 | 185.4 | 34.38 | 180.6 | 32.94 | 175.8 | 32.37 | 166.2 | 31.47 |
| | | 693.0 | 193.5 | 36.18 | 190.8 | 35.58 | 186.6 | 34.38 | 181.5 | 32.94 | 177.0 | 32.82 | 167.1 | 32.94 |
| | 20 | 184.8 | 191.7 | 33.66 | 188.1 | 32.10 | 183.0 | 31.41 | 177.9 | 30.39 | 172.8 | 29.73 | 162.6 | 28.80 |
| | | 231.0 | 193.2 | 33.42 | 189.6 | 32.07 | 184.5 | 31.38 | 179.4 | 30.51 | 174.3 | 29.91 | 164.1 | 28.56 |
| | | 462.0 | 199.2 | 32.49 | 195.6 | 31.98 | 190.2 | 31.29 | 185.1 | 31.02 | 180.6 | 30.72 | 170.1 | 27.63 |
| | | 577.5 | 200.1 | 32.49 | 197.1 | 31.98 | 192.3 | 31.47 | 186.9 | 31.02 | 181.8 | 30.72 | 171.6 | 29.37 |
| | | 693.0 | 200.4 | 32.49 | 197.7 | 31.98 | 193.5 | 31.59 | 187.8 | 31.02 | 182.7 | 30.72 | 172.2 | 30.24 |
| | 25 | 184.8 | 202.2 | 32.10 | 197.1 | 31.17 | 192.3 | 30.66 | 188.7 | 30.15 | 184.5 | 29.70 | 174.0 | 27.75 |
| | | 231.0 | 202.2 | 31.98 | 197.1 | 31.11 | 192.3 | 30.51 | 188.7 | 30.03 | 184.5 | 29.58 | 174.0 | 27.63 |
| | | 462.0 | 202.2 | 31.47 | 197.1 | 30.93 | 192.3 | 30.03 | 188.7 | 29.58 | 184.5 | 29.07 | 174.0 | 27.12 |
| | | 577.5 | 202.2 | 31.02 | 197.1 | 30.12 | 192.3 | 29.58 | 188.7 | 29.07 | 184.5 | 28.56 | 174.0 | 26.67 |
| | | 693.0 | 202.2 | 30.81 | 197.1 | 29.73 | 192.3 | 29.34 | 188.7 | 28.83 | 184.5 | 28.32 | 174.0 | 26.43 |
| | 30 | 184.8 | 202.2 | 31.29 | 197.1 | 29.73 | 192.3 | 29.46 | 188.7 | 28.68 | 184.5 | 28.38 | 174.0 | 26.40 |
| | | 231.0 | 202.2 | 31.02 | 197.1 | 29.67 | 192.3 | 29.28 | 188.7 | 28.56 | 184.5 | 28.11 | 174.0 | 26.16 |
| | | 462.0 | 202.2 | 30.03 | 197.1 | 29.46 | 192.3 | 28.56 | 188.7 | 28.11 | 184.5 | 27.12 | 174.0 | 25.20 |
| | | 577.5 | 202.2 | 29.58 | 197.1 | 28.68 | 192.3 | 28.11 | 188.7 | 27.63 | 184.5 | 27.12 | 174.0 | 25.20 |
| | | 693.0 | 202.2 | 29.34 | 197.1 | 28.26 | 192.3 | 27.90 | 188.7 | 27.36 | 184.5 | 27.12 | 174.0 | 25.20 |
| | 35 | 184.8 | 202.2 | 29.82 | 197.1 | 28.83 | 192.3 | 28.23 | 188.7 | 27.24 | 184.5 | 26.28 | 174.0 | 24.45 |
| | | 231.0 | 202.2 | 29.58 | 197.1 | 28.68 | 192.3 | 28.11 | 188.7 | 27.12 | 184.5 | 26.16 | 174.0 | 24.21 |
| | | 462.0 | 202.2 | 28.56 | 197.1 | 28.02 | 192.3 | 27.63 | 188.7 | 26.67 | 184.5 | 25.65 | 174.0 | 23.25 |
| | | 577.5 | 202.2 | 28.56 | 197.1 | 27.72 | 192.3 | 27.12 | 188.7 | 26.16 | 184.5 | 25.20 | 174.0 | 23.25 |
| | | 693.0 | 202.2 | 28.56 | 197.1 | 27.57 | 192.3 | 26.85 | 188.7 | 25.92 | 184.5 | 24.99 | 174.0 | 23.25 |
| | 40 | 184.8 | 202.2 | 28.80 | 197.1 | 27.90 | 192.3 | 27.36 | 188.7 | 26.40 | 184.5 | 25.47 | 174.0 | 23.01 |
| | | 231.0 | 202.2 | 28.56 | 197.1 | 27.72 | 192.3 | 27.12 | 188.7 | 26.16 | 184.5 | 25.20 | 174.0 | 22.74 |
| | | 462.0 | 202.2 | 27.63 | 197.1 | 27.03 | 192.3 | 26.16 | 188.7 | 25.20 | 184.5 | 24.21 | 174.0 | 21.81 |
| | | 577.5 | 202.2 | 27.12 | 197.1 | 26.55 | 192.3 | 26.16 | 188.7 | 25.20 | 184.5 | 24.21 | 174.0 | 21.81 |
| | | 693.0 | 202.2 | 26.85 | 197.1 | 26.34 | 192.3 | 26.16 | 188.7 | 25.20 | 184.5 | 24.21 | 174.0 | 21.81 |
| | 45 | 184.8 | 202.2 | 27.87 | 197.1 | 26.94 | 192.3 | 26.52 | 188.7 | 25.59 | 184.5 | 24.57 | 174.0 | 21.54 |
| | | 231.0 | 202.2 | 27.63 | 197.1 | 26.76 | 192.3 | 26.16 | 188.7 | 25.20 | 184.5 | 24.21 | 174.0 | 21.30 |
| | | 462.0 | 202.2 | 26.67 | 197.1 | 26.07 | 192.3 | 24.72 | 188.7 | 23.76 | 184.5 | 22.74 | 174.0 | 20.34 |
| | | 577.5 | 202.2 | 25.65 | 197.1 | 25.41 | 192.3 | 25.20 | 188.7 | 24.21 | 184.5 | 23.25 | 174.0 | 20.34 |
| | | 693.0 | 202.2 | 25.17 | 197.1 | 25.08 | 192.3 | 25.47 | 188.7 | 24.45 | 184.5 | 23.52 | 174.0 | 20.34 |
| 120 | -5 | 184.8 | 68.1 | 30.45 | 67.5 | 28.65 | 66.9 | 26.67 | 66.3 | 25.56 | 66.9 | 24.81 | 65.1 | 22.20 |
| | | 231.0 | 70.2 | 30.96 | 69.9 | 29.22 | 69.3 | 27.27 | 68.4 | 26.10 | 69.0 | 25.35 | 67.2 | 22.71 |
| | | 462.0 | 79.5 | 33.09 | 78.9 | 31.44 | 78.6 | 29.58 | 77.4 | 28.32 | 78.3 | 27.51 | 76.2 | 24.66 |
| | | 577.5 | 87.9 | 35.19 | 87.3 | 33.57 | 86.7 | 31.89 | 85.8 | 30.57 | 86.4 | 29.67 | 84.0 | 26.55 |
| | | 693.0 | 92.1 | 36.24 | 91.5 | 34.68 | 90.9 | 33.03 | 89.7 | 31.71 | 90.6 | 30.75 | 87.9 | 27.51 |
| | 0 | 184.8 | 121.5 | 41.64 | 118.5 | 40.41 | 116.1 | 39.09 | 113.7 | 37.44 | 113.7 | 36.39 | 108.6 | 32.52 |
| | | 231.0 | 122.1 | 41.76 | 119.4 | 40.50 | 116.7 | 39.18 | 114.3 | 37.53 | 114.3 | 36.48 | 109.2 | 32.64 |
| | | 462.0 | 125.1 | 42.21 | 122.1 | 40.89 | 119.7 | 39.66 | 117.0 | 37.98 | 117.0 | 36.90 | 111.9 | 33.03 |
| | | 577.5 | 126.9 | 42.21 | 124.2 | 40.89 | 121.5 | 39.66 | 118.8 | 37.98 | 118.8 | 36.90 | 113.4 | 33.03 |
| | | 693.0 | 128.1 | 42.21 | 125.1 | 40.89 | 122.4 | 39.66 | 119.7 | 37.98 | 119.7 | 36.90 | 114.3 | 33.03 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 120 | 5 | 184.8 | 175.2 | 44.76 | 172.5 | 43.65 | 168.9 | 42.54 | 164.7 | 40.74 | 159.6 | 39.60 | 150.9 | 35.46 |
| | | 231.0 | 175.8 | 44.97 | 172.8 | 43.86 | 168.9 | 42.75 | 164.7 | 40.95 | 159.6 | 39.81 | 150.9 | 35.64 |
| | | 462.0 | 178.2 | 45.75 | 174.0 | 44.67 | 168.9 | 43.62 | 164.7 | 41.79 | 159.6 | 40.59 | 150.9 | 36.33 |
| | | 577.5 | 179.4 | 46.05 | 173.1 | 44.97 | 168.9 | 43.92 | 164.7 | 42.09 | 159.6 | 40.89 | 150.9 | 36.60 |
| | | 693.0 | 179.7 | 46.20 | 172.5 | 45.12 | 168.9 | 44.07 | 164.7 | 42.24 | 159.6 | 41.04 | 150.9 | 36.72 |
| | 10 | 184.8 | 175.8 | 40.20 | 172.5 | 39.09 | 168.3 | 38.31 | 164.1 | 37.14 | 159.0 | 35.91 | 150.3 | 32.28 |
| | | 231.0 | 176.7 | 40.35 | 173.4 | 39.24 | 168.9 | 38.43 | 164.7 | 37.20 | 159.6 | 35.88 | 150.9 | 32.34 |
| | | 462.0 | 180.0 | 40.89 | 176.1 | 39.84 | 170.7 | 39.00 | 166.5 | 37.38 | 161.1 | 35.79 | 152.4 | 32.49 |
| | | 577.5 | 180.9 | 40.74 | 175.5 | 39.84 | 171.3 | 39.15 | 167.1 | 37.53 | 162.0 | 35.94 | 153.0 | 33.57 |
| | | 693.0 | 181.5 | 40.68 | 175.2 | 39.84 | 171.6 | 39.21 | 167.7 | 37.62 | 162.3 | 36.00 | 153.3 | 34.14 |
| | 15 | 184.8 | 176.4 | 35.67 | 172.8 | 34.62 | 167.7 | 34.08 | 163.8 | 33.57 | 158.7 | 32.22 | 150.0 | 29.19 |
| | | 231.0 | 177.3 | 35.73 | 173.7 | 34.68 | 168.9 | 34.14 | 164.7 | 33.42 | 159.6 | 31.98 | 150.9 | 29.07 |
| | | 462.0 | 181.5 | 36.03 | 178.2 | 34.98 | 172.5 | 34.38 | 168.3 | 32.94 | 162.6 | 31.02 | 153.9 | 28.56 |
| | | 577.5 | 182.4 | 35.49 | 177.9 | 34.68 | 174.0 | 34.38 | 169.8 | 32.94 | 164.1 | 31.02 | 155.4 | 30.51 |
| | | 693.0 | 183.0 | 35.22 | 177.9 | 34.53 | 174.6 | 34.38 | 170.4 | 32.94 | 164.7 | 31.02 | 156.0 | 31.50 |
| | 20 | 184.8 | 181.2 | 32.07 | 177.9 | 30.72 | 172.5 | 29.91 | 167.7 | 29.46 | 162.3 | 29.10 | 153.6 | 27.63 |
| | | 231.0 | 182.4 | 32.07 | 178.8 | 30.81 | 173.4 | 30.03 | 168.9 | 29.58 | 163.2 | 29.07 | 154.5 | 27.51 |
| | | 462.0 | 187.2 | 32.07 | 183.0 | 31.29 | 177.3 | 30.51 | 173.1 | 30.03 | 167.4 | 28.98 | 158.1 | 27.12 |
| | | 577.5 | 187.8 | 31.77 | 183.0 | 31.02 | 178.5 | 30.51 | 174.0 | 30.03 | 168.3 | 29.07 | 159.0 | 28.11 |
| | | 693.0 | 188.4 | 31.62 | 183.0 | 30.90 | 179.4 | 30.51 | 174.6 | 30.03 | 168.9 | 29.13 | 159.6 | 28.62 |
| | 25 | 184.8 | 190.2 | 30.33 | 184.5 | 28.92 | 178.5 | 28.38 | 174.9 | 27.75 | 170.1 | 27.24 | 160.8 | 25.35 |
| | | 231.0 | 190.2 | 30.21 | 184.5 | 28.86 | 178.5 | 28.32 | 174.9 | 27.63 | 170.1 | 27.12 | 160.8 | 25.20 |
| | | 462.0 | 190.5 | 29.76 | 184.5 | 28.68 | 178.5 | 28.11 | 174.9 | 27.12 | 170.1 | 26.67 | 160.8 | 24.72 |
| | | 577.5 | 191.1 | 28.68 | 184.5 | 27.93 | 178.5 | 27.63 | 174.9 | 27.12 | 170.1 | 26.16 | 160.8 | 24.72 |
| | | 693.0 | 191.4 | 28.11 | 184.5 | 27.54 | 178.5 | 27.36 | 174.9 | 27.12 | 170.1 | 25.92 | 160.8 | 24.72 |
| | 30 | 184.8 | 191.1 | 29.01 | 184.5 | 27.57 | 178.5 | 26.79 | 174.9 | 25.77 | 170.1 | 25.47 | 160.8 | 23.37 |
| | | 231.0 | 191.1 | 28.77 | 184.5 | 27.42 | 178.5 | 26.67 | 174.9 | 25.65 | 170.1 | 25.20 | 160.8 | 23.25 |
| | | 462.0 | 191.1 | 27.81 | 184.5 | 26.76 | 178.5 | 26.16 | 174.9 | 25.20 | 170.1 | 24.21 | 160.8 | 22.74 |
| | | 577.5 | 191.1 | 26.91 | 184.5 | 26.16 | 178.5 | 25.65 | 174.9 | 25.20 | 170.1 | 24.21 | 160.8 | 22.29 |
| | | 693.0 | 191.1 | 26.46 | 184.5 | 25.86 | 178.5 | 25.41 | 174.9 | 25.20 | 170.1 | 24.21 | 160.8 | 22.08 |
| | 35 | 184.8 | 191.1 | 27.72 | 184.5 | 26.19 | 178.5 | 25.47 | 174.9 | 24.45 | 170.1 | 23.49 | 160.8 | 21.42 |
| | | 231.0 | 191.1 | 27.33 | 184.5 | 25.95 | 178.5 | 25.20 | 174.9 | 24.21 | 170.1 | 23.25 | 160.8 | 21.30 |
| | | 462.0 | 191.1 | 25.77 | 184.5 | 25.02 | 178.5 | 24.21 | 174.9 | 23.25 | 170.1 | 22.29 | 160.8 | 20.85 |
| | | 577.5 | 191.1 | 25.47 | 184.5 | 24.81 | 178.5 | 24.21 | 174.9 | 23.25 | 170.1 | 22.29 | 160.8 | 20.34 |
| | | 693.0 | 191.1 | 25.32 | 184.5 | 24.72 | 178.5 | 24.21 | 174.9 | 23.25 | 170.1 | 22.29 | 160.8 | 20.10 |
| | 40 | 184.8 | 191.1 | 26.88 | 184.5 | 24.99 | 178.5 | 24.00 | 174.9 | 23.01 | 170.1 | 22.05 | 160.8 | 19.95 |
| | | 231.0 | 191.1 | 26.37 | 184.5 | 24.72 | 178.5 | 23.76 | 174.9 | 22.74 | 170.1 | 21.81 | 160.8 | 19.86 |
| | | 462.0 | 191.1 | 24.30 | 184.5 | 23.55 | 178.5 | 22.74 | 174.9 | 21.81 | 170.1 | 20.85 | 160.8 | 19.41 |
| | | 577.5 | 191.1 | 24.00 | 184.5 | 23.25 | 178.5 | 22.74 | 174.9 | 21.81 | 170.1 | 20.85 | 160.8 | 18.90 |
| | | 693.0 | 191.1 | 23.85 | 184.5 | 23.10 | 178.5 | 22.74 | 174.9 | 21.81 | 170.1 | 20.85 | 160.8 | 18.63 |
| | 45 | 184.8 | 191.1 | 26.07 | 184.5 | 23.79 | 178.5 | 22.56 | 174.9 | 21.54 | 170.1 | 20.58 | 160.8 | 18.51 |
| | | 231.0 | 191.1 | 25.41 | 184.5 | 23.46 | 178.5 | 22.29 | 174.9 | 21.30 | 170.1 | 20.34 | 160.8 | 18.39 |
| | | 462.0 | 191.1 | 22.86 | 184.5 | 22.11 | 178.5 | 21.30 | 174.9 | 20.34 | 170.1 | 19.41 | 160.8 | 17.94 |
| | | 577.5 | 191.1 | 22.56 | 184.5 | 21.69 | 178.5 | 21.30 | 174.9 | 20.34 | 170.1 | 19.41 | 160.8 | 17.43 |
| | | 693.0 | 191.1 | 22.41 | 184.5 | 21.51 | 178.5 | 21.30 | 174.9 | 20.34 | 170.1 | 19.41 | 160.8 | 17.19 |
| 110 | -5 | 184.8 | 64.2 | 30.84 | 63.9 | 28.65 | 63.6 | 26.67 | 62.7 | 25.56 | 63.0 | 24.81 | 61.5 | 22.20 |
| | | 231.0 | 66.6 | 31.38 | 66.0 | 29.22 | 65.7 | 27.27 | 65.1 | 26.10 | 65.1 | 25.35 | 63.6 | 22.71 |
| | | 462.0 | 75.3 | 33.48 | 74.7 | 31.44 | 74.4 | 29.58 | 73.5 | 28.32 | 73.5 | 27.51 | 72.3 | 24.66 |
| | | 577.5 | 83.1 | 35.64 | 82.5 | 33.57 | 82.2 | 31.89 | 81.3 | 30.57 | 81.3 | 29.67 | 79.5 | 26.55 |
| | | 693.0 | 87.0 | 36.72 | 86.4 | 34.68 | 86.1 | 33.03 | 85.2 | 31.71 | 85.2 | 30.75 | 83.4 | 27.51 |
| | 0 | 184.8 | 114.9 | 42.21 | 112.5 | 40.41 | 110.1 | 39.09 | 108.0 | 37.44 | 107.1 | 36.39 | 102.9 | 32.52 |
| | | 231.0 | 115.5 | 42.30 | 113.1 | 40.50 | 110.7 | 39.18 | 108.6 | 37.53 | 107.7 | 36.48 | 103.5 | 32.64 |
| | | 462.0 | 118.2 | 42.69 | 115.8 | 40.89 | 113.1 | 39.66 | 111.0 | 37.98 | 110.1 | 36.90 | 105.9 | 33.03 |
| | | 577.5 | 120.0 | 42.69 | 117.6 | 40.89 | 115.2 | 39.66 | 112.8 | 37.98 | 111.9 | 36.90 | 107.4 | 33.03 |
| | | 693.0 | 120.9 | 42.69 | 118.5 | 40.89 | 116.1 | 39.66 | 113.7 | 37.98 | 112.8 | 36.90 | 108.3 | 33.03 |
| | 5 | 184.8 | 167.7 | 45.36 | 163.8 | 43.65 | 159.9 | 42.54 | 156.3 | 40.74 | 150.3 | 39.60 | 142.8 | 35.46 |
| | | 231.0 | 168.3 | 45.57 | 164.1 | 43.86 | 159.9 | 42.75 | 156.3 | 40.95 | 150.3 | 39.81 | 142.8 | 35.64 |
| | | 462.0 | 170.4 | 46.35 | 165.3 | 44.67 | 160.2 | 43.62 | 156.3 | 41.79 | 150.3 | 40.59 | 142.8 | 36.33 |
| | | 577.5 | 171.6 | 46.65 | 165.6 | 44.97 | 160.2 | 43.92 | 156.3 | 42.09 | 150.3 | 40.89 | 142.8 | 36.60 |
| | | 693.0 | 171.9 | 46.80 | 165.9 | 45.12 | 160.2 | 44.07 | 156.3 | 42.24 | 150.3 | 41.04 | 142.8 | 36.72 |
| | 10 | 184.8 | 168.3 | 40.68 | 164.1 | 39.27 | 159.6 | 38.43 | 156.0 | 37.14 | 150.0 | 35.91 | 142.8 | 32.28 |
| | | 231.0 | 168.9 | 40.74 | 164.7 | 39.39 | 159.9 | 38.55 | 156.3 | 37.20 | 150.3 | 35.88 | 142.8 | 32.34 |
| | | 462.0 | 171.6 | 41.04 | 166.2 | 39.84 | 160.8 | 39.00 | 157.2 | 37.38 | 151.2 | 35.79 | 143.7 | 32.49 |
| | | 577.5 | 172.5 | 41.04 | 167.1 | 39.84 | 161.4 | 38.88 | 157.5 | 37.29 | 151.5 | 35.94 | 144.0 | 32.82 |
| | | 693.0 | 172.8 | 41.04 | 167.4 | 39.84 | 161.7 | 38.85 | 157.8 | 37.23 | 151.5 | 36.00 | 144.3 | 33.00 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 110 | 15 | 184.8 | 168.9 | 36.00 | 164.4 | 34.98 | 159.6 | 34.38 | 155.7 | 33.57 | 149.7 | 32.22 | 142.5 | 29.19 |
| | | 231.0 | 169.5 | 35.94 | 165.0 | 34.98 | 160.2 | 34.38 | 156.3 | 33.42 | 150.3 | 31.98 | 142.8 | 29.07 |
| | | 462.0 | 172.2 | 35.73 | 167.4 | 34.98 | 162.0 | 34.38 | 158.1 | 32.94 | 152.1 | 31.02 | 144.3 | 28.56 |
| | | 577.5 | 173.4 | 35.49 | 168.3 | 34.68 | 162.6 | 33.93 | 158.7 | 32.49 | 152.7 | 31.02 | 145.2 | 29.07 |
| | | 693.0 | 173.7 | 35.37 | 168.6 | 34.53 | 163.2 | 33.69 | 159.0 | 32.25 | 152.7 | 31.02 | 145.5 | 29.31 |
| | 20 | 184.8 | 171.9 | 31.05 | 167.1 | 30.33 | 161.7 | 29.58 | 157.5 | 29.07 | 151.8 | 28.23 | 143.7 | 26.40 |
| | | 231.0 | 172.8 | 31.11 | 167.7 | 30.33 | 162.3 | 29.58 | 158.1 | 29.07 | 152.1 | 28.11 | 144.3 | 26.37 |
| | | 462.0 | 176.4 | 31.38 | 170.1 | 30.33 | 164.1 | 29.58 | 160.5 | 29.07 | 153.9 | 27.63 | 146.7 | 26.16 |
| | | 577.5 | 177.6 | 31.38 | 171.6 | 30.33 | 165.0 | 29.58 | 160.8 | 28.56 | 154.8 | 27.63 | 147.0 | 26.16 |
| | | 693.0 | 177.9 | 31.38 | 172.2 | 30.33 | 165.6 | 29.58 | 161.1 | 28.32 | 155.4 | 27.63 | 147.3 | 26.16 |
| | 25 | 184.8 | 177.3 | 28.26 | 171.9 | 27.24 | 165.0 | 26.79 | 161.4 | 25.77 | 155.7 | 24.84 | 147.6 | 22.74 |
| | | 231.0 | 177.6 | 28.23 | 171.9 | 27.12 | 165.0 | 26.67 | 161.4 | 25.65 | 155.7 | 24.72 | 147.6 | 22.74 |
| | | 462.0 | 179.1 | 28.02 | 171.9 | 26.67 | 165.0 | 26.16 | 161.4 | 25.20 | 155.7 | 24.21 | 147.6 | 22.74 |
| | | 577.5 | 180.0 | 28.02 | 171.9 | 26.76 | 165.0 | 25.65 | 161.4 | 25.20 | 155.7 | 23.76 | 147.6 | 22.29 |
| | | 693.0 | 180.3 | 28.02 | 171.9 | 26.82 | 165.0 | 25.41 | 161.4 | 25.20 | 155.7 | 23.52 | 147.6 | 22.08 |
| | 30 | 184.8 | 180.0 | 25.77 | 171.9 | 24.84 | 165.0 | 23.88 | 161.4 | 23.37 | 155.7 | 21.93 | 147.6 | 20.49 |
| | | 231.0 | 180.0 | 25.65 | 171.9 | 24.72 | 165.0 | 23.76 | 161.4 | 23.25 | 155.7 | 21.81 | 147.6 | 20.34 |
| | | 462.0 | 180.0 | 25.20 | 171.9 | 24.21 | 165.0 | 23.25 | 161.4 | 22.74 | 155.7 | 21.30 | 147.6 | 19.86 |
| | | 577.5 | 180.0 | 25.02 | 171.9 | 23.76 | 165.0 | 22.74 | 161.4 | 22.29 | 155.7 | 21.30 | 147.6 | 19.86 |
| | | 693.0 | 180.0 | 24.90 | 171.9 | 23.52 | 165.0 | 22.50 | 161.4 | 22.08 | 155.7 | 21.30 | 147.6 | 19.86 |
| | 35 | 184.8 | 180.0 | 24.45 | 171.9 | 22.86 | 165.0 | 21.93 | 161.4 | 20.97 | 155.7 | 19.95 | 147.6 | 18.51 |
| | | 231.0 | 180.0 | 24.21 | 171.9 | 22.74 | 165.0 | 21.81 | 161.4 | 20.85 | 155.7 | 19.86 | 147.6 | 18.39 |
| | | 462.0 | 180.0 | 23.25 | 171.9 | 22.29 | 165.0 | 21.30 | 161.4 | 20.34 | 155.7 | 19.41 | 147.6 | 17.94 |
| | | 577.5 | 180.0 | 22.65 | 171.9 | 21.81 | 165.0 | 20.85 | 161.4 | 20.34 | 155.7 | 19.41 | 147.6 | 17.94 |
| | | 693.0 | 180.0 | 22.35 | 171.9 | 21.54 | 165.0 | 20.61 | 161.4 | 20.34 | 155.7 | 19.41 | 147.6 | 17.94 |
| | 40 | 184.8 | 180.0 | 23.01 | 171.9 | 22.05 | 165.0 | 20.58 | 161.4 | 19.53 | 155.7 | 18.51 | 147.6 | 17.04 |
| | | 231.0 | 180.0 | 22.74 | 171.9 | 21.81 | 165.0 | 20.34 | 161.4 | 19.41 | 155.7 | 18.39 | 147.6 | 16.95 |
| | | 462.0 | 180.0 | 21.81 | 171.9 | 20.85 | 165.0 | 19.41 | 161.4 | 18.90 | 155.7 | 17.94 | 147.6 | 16.50 |
| | | 577.5 | 180.0 | 21.51 | 171.9 | 20.34 | 165.0 | 19.41 | 161.4 | 18.39 | 155.7 | 17.43 | 147.6 | 15.99 |
| | | 693.0 | 180.0 | 21.36 | 171.9 | 20.10 | 165.0 | 19.41 | 161.4 | 18.15 | 155.7 | 17.19 | 147.6 | 15.75 |
| | 45 | 184.8 | 180.0 | 21.54 | 171.9 | 21.21 | 165.0 | 19.26 | 161.4 | 18.06 | 155.7 | 17.04 | 147.6 | 15.60 |
| | | 231.0 | 180.0 | 21.30 | 171.9 | 20.85 | 165.0 | 18.90 | 161.4 | 17.94 | 155.7 | 16.95 | 147.6 | 15.48 |
| | | 462.0 | 180.0 | 20.34 | 171.9 | 19.41 | 165.0 | 17.43 | 161.4 | 17.43 | 155.7 | 16.50 | 147.6 | 15.03 |
| | | 577.5 | 180.0 | 20.34 | 171.9 | 18.90 | 165.0 | 17.94 | 161.4 | 16.50 | 155.7 | 15.48 | 147.6 | 14.04 |
| | | 693.0 | 180.0 | 20.34 | 171.9 | 18.63 | 165.0 | 18.21 | 161.4 | 16.02 | 155.7 | 14.97 | 147.6 | 13.53 |
| 100 | -5 | 184.8 | 60.9 | 30.84 | 60.3 | 29.07 | 60.0 | 26.67 | 59.7 | 25.56 | 59.1 | 24.42 | 57.9 | 22.20 |
| | | 231.0 | 63.0 | 31.38 | 62.4 | 29.61 | 62.1 | 27.27 | 61.5 | 26.10 | 60.9 | 24.96 | 60.0 | 22.71 |
| | | 462.0 | 71.1 | 33.48 | 70.8 | 31.83 | 70.2 | 29.58 | 69.6 | 28.32 | 69.0 | 27.12 | 67.8 | 24.66 |
| | | 577.5 | 78.6 | 35.64 | 78.0 | 34.02 | 77.7 | 31.89 | 76.8 | 30.57 | 76.5 | 29.22 | 75.0 | 26.55 |
| | | 693.0 | 82.5 | 36.72 | 81.6 | 35.13 | 81.3 | 33.03 | 80.7 | 31.71 | 80.1 | 30.27 | 78.6 | 27.51 |
| | 0 | 184.8 | 108.6 | 42.21 | 106.2 | 40.95 | 104.1 | 39.09 | 102.3 | 37.44 | 100.5 | 35.85 | 96.9 | 32.52 |
| | | 231.0 | 109.2 | 42.30 | 106.8 | 41.04 | 104.7 | 39.18 | 102.9 | 37.53 | 101.1 | 35.94 | 97.5 | 32.64 |
| | | 462.0 | 111.9 | 42.69 | 109.5 | 41.46 | 107.1 | 39.66 | 105.3 | 37.98 | 103.5 | 36.33 | 99.6 | 33.03 |
| | | 577.5 | 113.4 | 42.69 | 111.0 | 41.46 | 108.6 | 39.66 | 106.8 | 37.98 | 105.0 | 36.33 | 101.4 | 33.03 |
| | | 693.0 | 114.3 | 42.69 | 111.9 | 41.46 | 109.5 | 39.66 | 107.4 | 37.98 | 105.6 | 36.33 | 102.0 | 33.03 |
| | 5 | 184.8 | 160.2 | 45.36 | 155.1 | 44.25 | 150.9 | 42.54 | 147.9 | 40.74 | 141.0 | 39.00 | 134.4 | 35.46 |
| | | 231.0 | 160.8 | 45.57 | 155.4 | 44.46 | 151.2 | 42.75 | 147.9 | 40.95 | 141.0 | 39.18 | 134.4 | 35.64 |
| | | 462.0 | 163.2 | 46.35 | 156.3 | 45.27 | 151.2 | 43.62 | 147.9 | 41.79 | 141.0 | 39.99 | 134.4 | 36.33 |
| | | 577.5 | 164.1 | 46.65 | 156.9 | 45.57 | 151.2 | 43.92 | 147.9 | 42.09 | 141.0 | 40.26 | 134.4 | 36.60 |
| | | 693.0 | 164.7 | 46.80 | 156.9 | 45.72 | 151.2 | 44.07 | 147.9 | 42.24 | 141.0 | 40.38 | 134.4 | 36.72 |
| | 10 | 184.8 | 161.1 | 40.56 | 155.4 | 39.66 | 151.2 | 38.43 | 147.9 | 37.14 | 141.0 | 35.31 | 134.4 | 32.28 |
| | | 231.0 | 161.7 | 40.74 | 155.7 | 39.81 | 151.2 | 38.55 | 147.9 | 37.20 | 141.0 | 35.34 | 134.4 | 32.34 |
| | | 462.0 | 163.2 | 41.49 | 156.6 | 40.29 | 151.2 | 39.00 | 147.9 | 37.38 | 141.0 | 35.49 | 134.4 | 32.49 |
| | | 577.5 | 164.4 | 41.34 | 157.2 | 40.29 | 151.2 | 38.88 | 147.9 | 37.29 | 141.0 | 35.40 | 134.4 | 32.34 |
| | | 693.0 | 164.7 | 41.28 | 157.5 | 40.29 | 151.2 | 38.85 | 147.9 | 37.23 | 141.0 | 35.34 | 134.4 | 32.25 |
| | 15 | 184.8 | 162.0 | 35.76 | 156.3 | 35.16 | 151.2 | 34.38 | 147.9 | 33.57 | 141.0 | 31.59 | 134.4 | 29.19 |
| | | 231.0 | 162.3 | 35.94 | 156.3 | 35.19 | 151.2 | 34.38 | 147.9 | 33.42 | 141.0 | 31.47 | 134.4 | 29.07 |
| | | 462.0 | 163.2 | 36.63 | 156.6 | 35.28 | 151.2 | 34.38 | 147.9 | 32.94 | 141.0 | 31.02 | 134.4 | 28.56 |
| | | 577.5 | 164.7 | 36.03 | 157.5 | 34.98 | 151.2 | 33.93 | 147.9 | 32.49 | 141.0 | 30.51 | 134.4 | 28.11 |
| | | 693.0 | 165.3 | 35.73 | 158.1 | 34.83 | 151.2 | 33.69 | 147.9 | 32.25 | 141.0 | 30.27 | 134.4 | 27.90 |
| | 20 | 184.8 | 162.9 | 30.57 | 156.9 | 29.79 | 151.2 | 29.07 | 147.9 | 28.68 | 141.0 | 26.79 | 134.4 | 25.47 |
| | | 231.0 | 163.5 | 30.72 | 157.2 | 29.82 | 151.2 | 29.07 | 147.9 | 28.56 | 141.0 | 26.67 | 134.4 | 25.20 |
| | | 462.0 | 165.9 | 31.29 | 157.5 | 29.91 | 151.2 | 29.07 | 147.9 | 28.11 | 141.0 | 26.16 | 134.4 | 24.21 |
| | | 577.5 | 167.1 | 30.72 | 159.0 | 29.67 | 151.2 | 28.56 | 147.9 | 27.63 | 141.0 | 25.65 | 134.4 | 23.76 |
| | | 693.0 | 167.4 | 30.45 | 159.6 | 29.55 | 151.2 | 28.32 | 147.9 | 27.36 | 141.0 | 25.41 | 134.4 | 23.52 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 100 | 25 | 184.8 | 165.0 | 26.73 | 159.6 | 25.89 | 151.2 | 24.84 | 147.9 | 23.88 | 141.0 | 22.44 | 134.4 | 20.34 |
| | | 231.0 | 165.6 | 26.76 | 159.6 | 25.77 | 151.2 | 24.72 | 147.9 | 23.76 | 141.0 | 22.29 | 134.4 | 20.34 |
| | | 462.0 | 168.0 | 26.85 | 159.6 | 25.20 | 151.2 | 24.21 | 147.9 | 23.25 | 141.0 | 21.81 | 134.4 | 20.34 |
| | | 577.5 | 168.9 | 26.25 | 159.6 | 25.02 | 151.2 | 23.76 | 147.9 | 22.74 | 141.0 | 21.81 | 134.4 | 19.86 |
| | | 693.0 | 169.2 | 25.95 | 159.6 | 24.90 | 151.2 | 23.52 | 147.9 | 22.50 | 141.0 | 21.81 | 134.4 | 19.59 |
| | 30 | 184.8 | 168.9 | 24.33 | 159.6 | 22.44 | 151.2 | 20.91 | 147.9 | 20.49 | 141.0 | 18.90 | 134.4 | 18.06 |
| | | 231.0 | 168.9 | 24.21 | 159.6 | 22.29 | 151.2 | 20.85 | 147.9 | 20.34 | 141.0 | 18.90 | 134.4 | 17.94 |
| | | 462.0 | 168.9 | 23.76 | 159.6 | 21.81 | 151.2 | 20.64 | 147.9 | 19.86 | 141.0 | 18.90 | 134.4 | 17.43 |
| | | 577.5 | 168.9 | 23.25 | 159.6 | 21.81 | 151.2 | 20.34 | 147.9 | 19.86 | 141.0 | 18.39 | 134.4 | 17.43 |
| | | 693.0 | 168.9 | 23.01 | 159.6 | 21.81 | 151.2 | 20.19 | 147.9 | 19.86 | 141.0 | 18.15 | 134.4 | 17.43 |
| | 35 | 184.8 | 168.9 | 22.56 | 159.6 | 20.58 | 151.2 | 18.45 | 147.9 | 18.06 | 141.0 | 17.04 | 134.4 | 15.60 |
| | | 231.0 | 168.9 | 22.29 | 159.6 | 20.34 | 151.2 | 18.39 | 147.9 | 17.94 | 141.0 | 16.95 | 134.4 | 15.48 |
| | | 462.0 | 168.9 | 21.30 | 159.6 | 19.41 | 151.2 | 18.18 | 147.9 | 17.43 | 141.0 | 16.50 | 134.4 | 15.03 |
| | | 577.5 | 168.9 | 21.30 | 159.6 | 19.41 | 151.2 | 17.94 | 147.9 | 17.43 | 141.0 | 16.50 | 134.4 | 15.03 |
| | | 693.0 | 168.9 | 21.30 | 159.6 | 19.41 | 151.2 | 17.82 | 147.9 | 17.43 | 141.0 | 16.50 | 134.4 | 15.03 |
| | 40 | 184.8 | 168.9 | 21.09 | 159.6 | 19.14 | 151.2 | 16.53 | 147.9 | 16.11 | 141.0 | 15.15 | 134.4 | 14.16 |
| | | 231.0 | 168.9 | 20.85 | 159.6 | 18.90 | 151.2 | 16.50 | 147.9 | 15.99 | 141.0 | 15.03 | 134.4 | 14.04 |
| | | 462.0 | 168.9 | 19.86 | 159.6 | 17.94 | 151.2 | 16.29 | 147.9 | 15.48 | 141.0 | 14.55 | 134.4 | 13.59 |
| | | 577.5 | 168.9 | 19.41 | 159.6 | 17.94 | 151.2 | 15.99 | 147.9 | 15.48 | 141.0 | 14.55 | 134.4 | 13.59 |
| | | 693.0 | 168.9 | 19.17 | 159.6 | 17.94 | 151.2 | 15.84 | 147.9 | 15.48 | 141.0 | 14.55 | 134.4 | 13.59 |
| | 45 | 184.8 | 168.9 | 19.65 | 159.6 | 17.67 | 151.2 | 14.58 | 147.9 | 14.16 | 141.0 | 13.20 | 134.4 | 12.69 |
| | | 231.0 | 168.9 | 19.41 | 159.6 | 17.43 | 151.2 | 14.55 | 147.9 | 14.04 | 141.0 | 13.08 | 134.4 | 12.57 |
| | | 462.0 | 168.9 | 18.39 | 159.6 | 16.50 | 151.2 | 14.34 | 147.9 | 13.59 | 141.0 | 12.57 | 134.4 | 12.12 |
| | | 577.5 | 168.9 | 17.43 | 159.6 | 16.50 | 151.2 | 14.04 | 147.9 | 13.59 | 141.0 | 12.57 | 134.4 | 12.12 |
| | | 693.0 | 168.9 | 16.95 | 159.6 | 16.50 | 151.2 | 13.89 | 147.9 | 13.59 | 141.0 | 12.57 | 134.4 | 12.12 |
| 90 | -5 | 184.8 | 57.3 | 28.62 | 55.5 | 26.07 | 54.0 | 22.89 | 53.7 | 21.81 | 53.1 | 21.03 | 52.2 | 18.87 |
| | | 231.0 | 59.4 | 29.13 | 57.6 | 26.55 | 55.8 | 23.40 | 55.5 | 22.29 | 54.9 | 21.51 | 54.0 | 19.29 |
| | | 462.0 | 67.2 | 31.08 | 65.1 | 28.53 | 63.3 | 25.41 | 62.7 | 24.21 | 62.4 | 23.37 | 60.9 | 20.94 |
| | | 577.5 | 74.4 | 33.03 | 72.0 | 30.51 | 69.9 | 27.42 | 69.3 | 26.10 | 68.7 | 25.17 | 67.5 | 22.59 |
| | | 693.0 | 77.7 | 34.02 | 75.3 | 31.53 | 73.2 | 28.44 | 72.6 | 27.06 | 72.0 | 26.07 | 70.8 | 23.43 |
| | 0 | 184.8 | 102.6 | 39.00 | 97.8 | 36.60 | 93.3 | 33.60 | 92.1 | 32.04 | 90.6 | 30.84 | 87.0 | 27.69 |
| | | 231.0 | 103.2 | 39.09 | 98.4 | 36.69 | 93.9 | 33.69 | 92.4 | 32.13 | 90.9 | 30.93 | 87.6 | 27.78 |
| | | 462.0 | 105.6 | 39.51 | 100.8 | 37.08 | 96.3 | 34.02 | 94.8 | 32.49 | 93.0 | 31.29 | 89.7 | 28.08 |
| | | 577.5 | 107.1 | 39.51 | 102.3 | 37.08 | 97.8 | 34.02 | 96.0 | 32.49 | 94.8 | 31.29 | 91.2 | 28.08 |
| | | 693.0 | 108.0 | 39.51 | 102.9 | 37.08 | 98.4 | 34.02 | 96.9 | 32.49 | 95.4 | 31.29 | 91.8 | 28.08 |
| | 5 | 184.8 | 144.9 | 41.85 | 140.4 | 39.51 | 135.9 | 36.57 | 133.2 | 34.86 | 127.2 | 33.54 | 121.2 | 30.12 |
| | | 231.0 | 145.2 | 42.06 | 140.1 | 39.69 | 135.9 | 36.75 | 133.2 | 35.04 | 127.2 | 33.72 | 121.2 | 30.27 |
| | | 462.0 | 145.8 | 42.81 | 139.8 | 40.44 | 135.9 | 37.44 | 133.2 | 35.73 | 127.2 | 34.44 | 121.2 | 30.87 |
| | | 577.5 | 146.7 | 43.05 | 140.1 | 40.71 | 135.9 | 37.74 | 133.2 | 36.00 | 127.2 | 34.68 | 121.2 | 31.11 |
| | | 693.0 | 147.0 | 43.17 | 140.4 | 40.83 | 135.9 | 37.89 | 133.2 | 36.12 | 127.2 | 34.80 | 121.2 | 31.26 |
| | 10 | 184.8 | 145.8 | 36.96 | 140.7 | 35.16 | 135.9 | 33.09 | 133.2 | 31.74 | 127.2 | 30.45 | 121.2 | 27.45 |
| | | 231.0 | 145.8 | 36.99 | 140.7 | 35.19 | 135.9 | 33.12 | 133.2 | 31.77 | 127.2 | 30.42 | 121.2 | 27.48 |
| | | 462.0 | 145.5 | 37.08 | 139.8 | 35.34 | 135.9 | 33.27 | 133.2 | 31.92 | 127.2 | 30.33 | 121.2 | 27.57 |
| | | 577.5 | 146.4 | 36.99 | 140.4 | 35.22 | 135.9 | 33.18 | 133.2 | 31.83 | 127.2 | 30.42 | 121.2 | 27.66 |
| | | 693.0 | 147.0 | 36.93 | 140.7 | 35.19 | 135.9 | 33.12 | 133.2 | 31.77 | 127.2 | 30.48 | 121.2 | 27.72 |
| | 15 | 184.8 | 146.4 | 32.01 | 141.3 | 30.84 | 135.9 | 29.70 | 133.2 | 28.68 | 127.2 | 27.36 | 121.2 | 24.84 |
| | | 231.0 | 146.4 | 31.89 | 141.0 | 30.72 | 135.9 | 29.58 | 133.2 | 28.56 | 127.2 | 27.12 | 121.2 | 24.72 |
| | | 462.0 | 145.2 | 31.38 | 140.1 | 30.21 | 135.9 | 29.07 | 133.2 | 28.11 | 127.2 | 26.16 | 121.2 | 24.21 |
| | | 577.5 | 146.4 | 30.93 | 140.4 | 29.76 | 135.9 | 28.56 | 133.2 | 27.63 | 127.2 | 26.16 | 121.2 | 24.21 |
| | | 693.0 | 146.7 | 30.69 | 140.7 | 29.55 | 135.9 | 28.32 | 133.2 | 27.36 | 127.2 | 26.16 | 121.2 | 24.21 |
| | 20 | 184.8 | 147.3 | 27.03 | 141.9 | 26.25 | 135.9 | 25.35 | 133.2 | 24.33 | 127.2 | 23.49 | 121.2 | 22.05 |
| | | 231.0 | 147.3 | 27.03 | 141.6 | 26.16 | 135.9 | 25.20 | 133.2 | 24.21 | 127.2 | 23.25 | 121.2 | 21.81 |
| | | 462.0 | 146.7 | 27.03 | 140.4 | 25.86 | 135.9 | 24.72 | 133.2 | 23.76 | 127.2 | 22.29 | 121.2 | 20.85 |
| | | 577.5 | 147.0 | 26.55 | 141.0 | 25.65 | 135.9 | 24.72 | 133.2 | 23.76 | 127.2 | 22.29 | 121.2 | 20.85 |
| | | 693.0 | 147.3 | 26.34 | 141.0 | 25.56 | 135.9 | 24.72 | 133.2 | 23.76 | 127.2 | 22.29 | 121.2 | 20.85 |
| | 25 | 184.8 | 150.0 | 23.61 | 143.7 | 22.35 | 135.9 | 21.42 | 133.2 | 20.34 | 127.2 | 19.53 | 121.2 | 18.06 |
| | | 231.0 | 150.3 | 23.55 | 143.7 | 22.29 | 135.9 | 21.30 | 133.2 | 20.34 | 127.2 | 19.41 | 121.2 | 17.94 |
| | | 462.0 | 151.5 | 23.37 | 143.7 | 22.11 | 135.9 | 20.85 | 133.2 | 20.34 | 127.2 | 18.90 | 121.2 | 17.43 |
| | | 577.5 | 152.1 | 22.74 | 143.7 | 21.60 | 135.9 | 20.85 | 133.2 | 19.86 | 127.2 | 18.90 | 121.2 | 17.43 |
| | | 693.0 | 152.4 | 22.44 | 143.7 | 21.36 | 135.9 | 20.85 | 133.2 | 19.59 | 127.2 | 18.90 | 121.2 | 17.43 |
| | 30 | 184.8 | 152.1 | 21.42 | 143.7 | 19.95 | 135.9 | 18.51 | 133.2 | 18.06 | 127.2 | 17.04 | 121.2 | 15.48 |
| | | 231.0 | 152.1 | 21.30 | 143.7 | 19.86 | 135.9 | 18.39 | 133.2 | 17.94 | 127.2 | 16.95 | 121.2 | 15.48 |
| | | 462.0 | 152.1 | 20.85 | 143.7 | 19.41 | 135.9 | 17.94 | 133.2 | 17.43 | 127.2 | 16.50 | 121.2 | 15.48 |
| | | 577.5 | 152.1 | 20.34 | 143.7 | 18.90 | 135.9 | 17.94 | 133.2 | 17.43 | 127.2 | 16.50 | 121.2 | 15.03 |
| | | 693.0 | 152.1 | 20.10 | 143.7 | 18.63 | 135.9 | 17.94 | 133.2 | 17.43 | 127.2 | 16.50 | 121.2 | 14.82 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 90 | 35 | 184.8 | 152.1 | 19.53 | 143.7 | 18.06 | 135.9 | 16.62 | 133.2 | 16.11 | 127.2 | 15.15 | 121.2 | 14.16 |
| | | 231.0 | 152.1 | 19.41 | 143.7 | 17.94 | 135.9 | 16.50 | 133.2 | 15.99 | 127.2 | 15.03 | 121.2 | 14.04 |
| | | 462.0 | 152.1 | 18.90 | 143.7 | 17.43 | 135.9 | 15.99 | 133.2 | 15.48 | 127.2 | 14.55 | 121.2 | 13.59 |
| | | 577.5 | 152.1 | 18.39 | 143.7 | 16.95 | 135.9 | 15.48 | 133.2 | 15.03 | 127.2 | 14.55 | 121.2 | 13.59 |
| | | 693.0 | 152.1 | 18.15 | 143.7 | 16.68 | 135.9 | 15.24 | 133.2 | 14.82 | 127.2 | 14.55 | 121.2 | 13.59 |
| | 40 | 184.8 | 152.1 | 18.21 | 143.7 | 16.62 | 135.9 | 14.67 | 133.2 | 14.16 | 127.2 | 13.71 | 121.2 | 12.69 |
| | | 231.0 | 152.1 | 17.94 | 143.7 | 16.50 | 135.9 | 14.55 | 133.2 | 14.04 | 127.2 | 13.59 | 121.2 | 12.57 |
| | | 462.0 | 152.1 | 16.95 | 143.7 | 15.99 | 135.9 | 14.04 | 133.2 | 13.59 | 127.2 | 13.08 | 121.2 | 12.12 |
| | | 577.5 | 152.1 | 16.95 | 143.7 | 15.99 | 135.9 | 14.04 | 133.2 | 13.59 | 127.2 | 13.08 | 121.2 | 12.12 |
| | | 693.0 | 152.1 | 16.95 | 143.7 | 15.99 | 135.9 | 14.04 | 133.2 | 13.59 | 127.2 | 13.08 | 121.2 | 12.12 |
| | 45 | 184.8 | 152.1 | 16.86 | 143.7 | 15.15 | 135.9 | 12.69 | 133.2 | 12.27 | 127.2 | 12.27 | 121.2 | 11.25 |
| | | 231.0 | 152.1 | 16.50 | 143.7 | 15.03 | 135.9 | 12.57 | 133.2 | 12.12 | 127.2 | 12.12 | 121.2 | 11.13 |
| | | 462.0 | 152.1 | 15.03 | 143.7 | 14.55 | 135.9 | 12.12 | 133.2 | 11.64 | 127.2 | 11.64 | 121.2 | 10.68 |
| | | 577.5 | 152.1 | 15.48 | 143.7 | 15.03 | 135.9 | 12.57 | 133.2 | 12.12 | 127.2 | 11.64 | 121.2 | 10.68 |
| | | 693.0 | 152.1 | 15.72 | 143.7 | 15.30 | 135.9 | 12.81 | 133.2 | 12.39 | 127.2 | 11.64 | 121.2 | 10.68 |
| 80 | -5 | 184.8 | 54.3 | 20.40 | 51.0 | 19.62 | 48.3 | 18.78 | 47.7 | 18.15 | 47.4 | 17.31 | 46.5 | 15.96 |
| | | 231.0 | 56.1 | 20.85 | 52.5 | 20.04 | 49.8 | 19.20 | 49.2 | 18.54 | 48.9 | 17.70 | 48.0 | 16.29 |
| | | 462.0 | 63.3 | 22.65 | 59.4 | 21.75 | 56.4 | 20.79 | 55.8 | 20.10 | 55.5 | 19.20 | 54.3 | 17.64 |
| | | 577.5 | 70.2 | 24.42 | 65.7 | 23.46 | 62.1 | 22.44 | 61.5 | 21.69 | 61.2 | 20.70 | 60.0 | 19.05 |
| | | 693.0 | 73.5 | 25.29 | 68.7 | 24.33 | 65.1 | 23.28 | 64.5 | 22.50 | 64.2 | 21.45 | 62.7 | 19.74 |
| | 0 | 184.8 | 96.9 | 29.94 | 89.4 | 28.74 | 83.1 | 27.54 | 81.6 | 26.58 | 80.4 | 25.35 | 77.4 | 23.34 |
| | | 231.0 | 97.5 | 30.03 | 90.0 | 28.83 | 83.7 | 27.63 | 82.2 | 26.67 | 81.0 | 25.41 | 78.0 | 23.40 |
| | | 462.0 | 99.9 | 30.36 | 92.1 | 29.16 | 85.8 | 27.93 | 84.0 | 26.97 | 83.1 | 25.71 | 79.8 | 23.67 |
| | | 577.5 | 101.4 | 30.36 | 93.3 | 29.16 | 87.0 | 27.93 | 85.5 | 26.97 | 84.3 | 25.71 | 81.0 | 23.67 |
| | | 693.0 | 102.0 | 30.36 | 94.2 | 29.16 | 87.9 | 27.93 | 86.1 | 26.97 | 84.9 | 25.71 | 81.6 | 23.67 |
| | 5 | 184.8 | 134.1 | 32.55 | 126.6 | 31.32 | 120.9 | 29.91 | 118.2 | 28.92 | 113.1 | 27.57 | 107.7 | 25.38 |
| | | 231.0 | 134.4 | 32.73 | 126.6 | 31.47 | 120.9 | 30.06 | 118.2 | 29.07 | 113.1 | 27.72 | 107.7 | 25.50 |
| | | 462.0 | 135.3 | 33.42 | 127.8 | 32.07 | 121.2 | 30.72 | 118.2 | 29.67 | 113.1 | 28.26 | 107.7 | 26.07 |
| | | 577.5 | 135.3 | 33.63 | 127.5 | 32.34 | 121.2 | 30.93 | 118.2 | 29.88 | 113.1 | 28.47 | 107.7 | 26.22 |
| | | 693.0 | 135.3 | 33.72 | 127.5 | 32.46 | 121.2 | 31.02 | 118.2 | 29.97 | 113.1 | 28.56 | 107.7 | 26.28 |
| | 10 | 184.8 | 134.7 | 29.97 | 126.9 | 28.62 | 120.9 | 27.15 | 118.2 | 26.40 | 113.1 | 24.99 | 107.7 | 23.13 |
| | | 231.0 | 135.0 | 29.91 | 127.2 | 28.56 | 120.9 | 27.18 | 118.2 | 26.40 | 113.1 | 25.02 | 107.7 | 23.16 |
| | | 462.0 | 135.3 | 29.76 | 127.8 | 28.41 | 121.2 | 27.21 | 118.2 | 26.46 | 113.1 | 25.05 | 107.7 | 23.22 |
| | | 577.5 | 135.3 | 29.67 | 127.5 | 28.53 | 121.2 | 27.33 | 118.2 | 26.31 | 113.1 | 24.90 | 107.7 | 23.07 |
| | | 693.0 | 135.3 | 29.61 | 127.5 | 28.56 | 121.2 | 27.36 | 118.2 | 26.25 | 113.1 | 24.84 | 107.7 | 22.98 |
| | 15 | 184.8 | 135.3 | 27.36 | 127.5 | 25.89 | 121.2 | 24.33 | 118.2 | 23.88 | 113.1 | 22.44 | 107.7 | 20.97 |
| | | 231.0 | 135.3 | 27.12 | 127.5 | 25.65 | 121.2 | 24.21 | 118.2 | 23.76 | 113.1 | 22.29 | 107.7 | 20.85 |
| | | 462.0 | 135.3 | 26.16 | 127.5 | 24.72 | 121.2 | 23.76 | 118.2 | 23.25 | 113.1 | 21.81 | 107.7 | 20.34 |
| | | 577.5 | 135.3 | 25.65 | 127.5 | 24.72 | 121.2 | 23.76 | 118.2 | 22.74 | 113.1 | 21.30 | 107.7 | 19.86 |
| | | 693.0 | 135.3 | 25.41 | 127.5 | 24.72 | 121.2 | 23.76 | 118.2 | 22.50 | 113.1 | 21.06 | 107.7 | 19.59 |
| | 20 | 184.8 | 135.3 | 22.86 | 127.5 | 21.93 | 121.2 | 20.85 | 118.2 | 20.49 | 113.1 | 19.53 | 107.7 | 18.06 |
| | | 231.0 | 135.3 | 22.74 | 127.5 | 21.81 | 121.2 | 20.85 | 118.2 | 20.34 | 113.1 | 19.41 | 107.7 | 17.94 |
| | | 462.0 | 135.3 | 22.29 | 127.5 | 21.30 | 121.2 | 20.85 | 118.2 | 19.86 | 113.1 | 18.90 | 107.7 | 17.43 |
| | | 577.5 | 135.3 | 21.81 | 127.5 | 20.85 | 121.2 | 20.34 | 118.2 | 19.86 | 113.1 | 18.39 | 107.7 | 17.43 |
| | | 693.0 | 135.3 | 21.54 | 127.5 | 20.61 | 121.2 | 20.10 | 118.2 | 19.86 | 113.1 | 18.15 | 107.7 | 17.43 |
| | 25 | 184.8 | 135.3 | 20.49 | 127.5 | 19.02 | 121.2 | 17.94 | 118.2 | 17.58 | 113.1 | 16.62 | 107.7 | 15.60 |
| | | 231.0 | 135.3 | 20.34 | 127.5 | 18.90 | 121.2 | 17.94 | 118.2 | 17.43 | 113.1 | 16.50 | 107.7 | 15.48 |
| | | 462.0 | 135.3 | 19.86 | 127.5 | 18.39 | 121.2 | 17.94 | 118.2 | 16.95 | 113.1 | 15.99 | 107.7 | 15.03 |
| | | 577.5 | 135.3 | 19.41 | 127.5 | 18.39 | 121.2 | 17.43 | 118.2 | 16.95 | 113.1 | 15.99 | 107.7 | 15.03 |
| | | 693.0 | 135.3 | 19.17 | 127.5 | 18.39 | 121.2 | 17.19 | 118.2 | 16.95 | 113.1 | 15.99 | 107.7 | 15.03 |
| | 30 | 184.8 | 135.3 | 18.06 | 127.5 | 17.04 | 121.2 | 16.11 | 118.2 | 15.60 | 113.1 | 14.67 | 107.7 | 13.71 |
| | | 231.0 | 135.3 | 17.94 | 127.5 | 16.95 | 121.2 | 15.99 | 118.2 | 15.48 | 113.1 | 14.55 | 107.7 | 13.59 |
| | | 462.0 | 135.3 | 17.43 | 127.5 | 16.50 | 121.2 | 15.48 | 118.2 | 15.03 | 113.1 | 14.04 | 107.7 | 13.08 |
| | | 577.5 | 135.3 | 17.43 | 127.5 | 16.50 | 121.2 | 15.48 | 118.2 | 15.03 | 113.1 | 14.04 | 107.7 | 13.08 |
| | | 693.0 | 135.3 | 17.43 | 127.5 | 16.50 | 121.2 | 15.48 | 118.2 | 15.03 | 113.1 | 14.04 | 107.7 | 13.08 |
| | 35 | 184.8 | 135.3 | 16.62 | 127.5 | 15.60 | 121.2 | 14.16 | 118.2 | 13.59 | 113.1 | 13.20 | 107.7 | 12.12 |
| | | 231.0 | 135.3 | 16.50 | 127.5 | 15.48 | 121.2 | 14.04 | 118.2 | 13.59 | 113.1 | 13.08 | 107.7 | 12.12 |
| | | 462.0 | 135.3 | 15.99 | 127.5 | 15.03 | 121.2 | 13.59 | 118.2 | 13.59 | 113.1 | 12.57 | 107.7 | 12.12 |
| | | 577.5 | 135.3 | 15.99 | 127.5 | 14.55 | 121.2 | 13.59 | 118.2 | 13.08 | 113.1 | 12.57 | 107.7 | 11.64 |
| | | 693.0 | 135.3 | 15.99 | 127.5 | 14.28 | 121.2 | 13.59 | 118.2 | 12.84 | 113.1 | 12.57 | 107.7 | 11.37 |
| | 40 | 184.8 | 135.3 | 15.72 | 127.5 | 14.16 | 121.2 | 12.57 | 118.2 | 12.69 | 113.1 | 11.64 | 107.7 | 11.25 |
| | | 231.0 | 135.3 | 15.48 | 127.5 | 14.04 | 121.2 | 12.57 | 118.2 | 12.57 | 113.1 | 11.64 | 107.7 | 11.13 |
| | | 462.0 | 135.3 | 14.55 | 127.5 | 13.59 | 121.2 | 12.57 | 118.2 | 12.12 | 113.1 | 11.64 | 107.7 | 10.68 |
| | | 577.5 | 135.3 | 14.55 | 127.5 | 13.59 | 121.2 | 12.12 | 118.2 | 12.12 | 113.1 | 11.64 | 107.7 | 10.68 |
| | | 693.0 | 135.3 | 14.55 | 127.5 | 13.59 | 121.2 | 11.91 | 118.2 | 12.12 | 113.1 | 11.64 | 107.7 | 10.68 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 80 | 45 | 184.8 | 135.3 | 14.91 | 127.5 | 12.69 | 121.2 | 11.01 | 118.2 | 11.88 | 113.1 | 10.05 | 107.7 | 10.41 |
| | | 231.0 | 135.3 | 14.55 | 127.5 | 12.57 | 121.2 | 11.13 | 118.2 | 11.64 | 113.1 | 10.17 | 107.7 | 10.17 |
| | | 462.0 | 135.3 | 13.08 | 127.5 | 12.12 | 121.2 | 11.64 | 118.2 | 10.68 | 113.1 | 10.68 | 107.7 | 9.21 |
| | | 577.5 | 135.3 | 13.08 | 127.5 | 12.57 | 121.2 | 10.68 | 118.2 | 11.13 | 113.1 | 10.68 | 107.7 | 9.66 |
| | | 693.0 | 135.3 | 13.08 | 127.5 | 12.81 | 121.2 | 10.20 | 118.2 | 11.34 | 113.1 | 10.68 | 107.7 | 9.90 |
| 70 | -5 | 184.8 | 47.4 | 17.52 | 44.4 | 16.68 | 42.0 | 16.14 | 41.7 | 15.21 | 41.4 | 14.67 | 40.8 | 13.35 |
| | | 231.0 | 48.9 | 17.88 | 45.9 | 17.04 | 43.5 | 16.50 | 42.9 | 15.54 | 42.9 | 15.00 | 42.0 | 13.62 |
| | | 462.0 | 55.5 | 19.41 | 51.9 | 18.48 | 49.2 | 17.88 | 48.6 | 16.83 | 48.3 | 16.23 | 47.4 | 14.79 |
| | | 577.5 | 61.2 | 20.94 | 57.6 | 19.95 | 54.3 | 19.29 | 54.0 | 18.15 | 53.4 | 17.55 | 52.5 | 15.93 |
| | | 693.0 | 64.2 | 21.72 | 60.3 | 20.67 | 57.0 | 20.01 | 56.4 | 18.81 | 56.1 | 18.21 | 54.9 | 16.53 |
| | 0 | 184.8 | 84.6 | 25.65 | 78.3 | 24.45 | 72.6 | 23.64 | 71.4 | 22.23 | 70.2 | 21.48 | 67.8 | 19.56 |
| | | 231.0 | 85.2 | 25.71 | 78.9 | 24.51 | 73.2 | 23.70 | 72.0 | 22.29 | 70.8 | 21.54 | 68.1 | 19.59 |
| | | 462.0 | 87.3 | 26.01 | 80.7 | 24.75 | 74.7 | 24.00 | 73.5 | 22.56 | 72.3 | 21.81 | 69.9 | 19.80 |
| | | 577.5 | 88.5 | 26.01 | 81.9 | 24.75 | 75.9 | 24.00 | 74.7 | 22.56 | 73.5 | 21.81 | 70.8 | 19.80 |
| | | 693.0 | 89.1 | 26.01 | 82.5 | 24.75 | 76.5 | 24.00 | 75.3 | 22.56 | 74.1 | 21.81 | 71.4 | 19.80 |
| | 5 | 184.8 | 117.0 | 27.93 | 111.0 | 26.58 | 105.6 | 25.71 | 103.5 | 24.24 | 98.7 | 23.37 | 94.2 | 21.24 |
| | | 231.0 | 117.3 | 28.08 | 111.0 | 26.70 | 105.6 | 25.86 | 103.5 | 24.36 | 98.7 | 23.52 | 94.2 | 21.36 |
| | | 462.0 | 118.2 | 28.62 | 111.9 | 27.27 | 105.9 | 26.40 | 103.5 | 24.81 | 98.7 | 24.00 | 94.2 | 21.81 |
| | | 577.5 | 118.2 | 28.83 | 111.9 | 27.48 | 105.9 | 26.61 | 103.5 | 25.02 | 98.7 | 24.15 | 94.2 | 21.96 |
| | | 693.0 | 118.2 | 28.92 | 111.6 | 27.57 | 105.9 | 26.73 | 103.5 | 25.11 | 98.7 | 24.24 | 94.2 | 22.02 |
| | 10 | 184.8 | 117.6 | 25.71 | 111.3 | 24.30 | 105.9 | 23.40 | 103.5 | 22.11 | 98.7 | 21.21 | 94.2 | 19.41 |
| | | 231.0 | 117.6 | 25.65 | 111.3 | 24.27 | 105.9 | 23.37 | 103.5 | 22.11 | 98.7 | 21.21 | 94.2 | 19.41 |
| | | 462.0 | 118.2 | 25.47 | 111.9 | 24.06 | 105.9 | 23.16 | 103.5 | 22.11 | 98.7 | 21.21 | 94.2 | 19.41 |
| | | 577.5 | 118.2 | 25.56 | 111.9 | 24.15 | 105.9 | 23.25 | 103.5 | 22.20 | 98.7 | 21.06 | 94.2 | 19.44 |
| | | 693.0 | 118.2 | 25.62 | 111.9 | 24.21 | 105.9 | 23.31 | 103.5 | 22.26 | 98.7 | 20.97 | 94.2 | 19.47 |
| | 15 | 184.8 | 118.2 | 23.49 | 111.9 | 22.05 | 105.9 | 21.09 | 103.5 | 19.95 | 98.7 | 19.02 | 94.2 | 17.58 |
| | | 231.0 | 118.2 | 23.25 | 111.9 | 21.81 | 105.9 | 20.85 | 103.5 | 19.86 | 98.7 | 18.90 | 94.2 | 17.43 |
| | | 462.0 | 118.2 | 22.29 | 111.9 | 20.85 | 105.9 | 19.86 | 103.5 | 19.41 | 98.7 | 18.39 | 94.2 | 16.95 |
| | | 577.5 | 118.2 | 22.29 | 111.9 | 20.85 | 105.9 | 19.86 | 103.5 | 19.41 | 98.7 | 17.94 | 94.2 | 16.95 |
| | | 693.0 | 118.2 | 22.29 | 111.9 | 20.85 | 105.9 | 19.86 | 103.5 | 19.41 | 98.7 | 17.73 | 94.2 | 16.95 |
| | 20 | 184.8 | 118.2 | 19.53 | 111.9 | 18.51 | 105.9 | 18.06 | 103.5 | 17.58 | 98.7 | 16.62 | 94.2 | 15.60 |
| | | 231.0 | 118.2 | 19.41 | 111.9 | 18.39 | 105.9 | 17.94 | 103.5 | 17.43 | 98.7 | 16.50 | 94.2 | 15.48 |
| | | 462.0 | 118.2 | 18.90 | 111.9 | 17.94 | 105.9 | 17.43 | 103.5 | 16.95 | 98.7 | 15.99 | 94.2 | 15.03 |
| | | 577.5 | 118.2 | 18.90 | 111.9 | 17.94 | 105.9 | 17.43 | 103.5 | 16.50 | 98.7 | 15.99 | 94.2 | 14.55 |
| | | 693.0 | 118.2 | 18.90 | 111.9 | 17.94 | 105.9 | 17.43 | 103.5 | 16.26 | 98.7 | 15.99 | 94.2 | 14.28 |
| | 25 | 184.8 | 118.2 | 17.58 | 111.9 | 16.62 | 105.9 | 15.60 | 103.5 | 15.15 | 98.7 | 14.04 | 94.2 | 13.08 |
| | | 231.0 | 118.2 | 17.43 | 111.9 | 16.50 | 105.9 | 15.48 | 103.5 | 15.03 | 98.7 | 14.04 | 94.2 | 13.08 |
| | | 462.0 | 118.2 | 16.95 | 111.9 | 15.99 | 105.9 | 15.03 | 103.5 | 14.55 | 98.7 | 14.04 | 94.2 | 13.08 |
| | | 577.5 | 118.2 | 16.50 | 111.9 | 15.48 | 105.9 | 15.03 | 103.5 | 14.55 | 98.7 | 13.59 | 94.2 | 13.08 |
| | | 693.0 | 118.2 | 16.26 | 111.9 | 15.24 | 105.9 | 15.03 | 103.5 | 14.55 | 98.7 | 13.35 | 94.2 | 13.08 |
| | 30 | 184.8 | 118.2 | 15.60 | 111.9 | 14.67 | 105.9 | 13.71 | 103.5 | 13.08 | 98.7 | 12.69 | 94.2 | 11.64 |
| | | 231.0 | 118.2 | 15.48 | 111.9 | 14.55 | 105.9 | 13.59 | 103.5 | 13.08 | 98.7 | 12.57 | 94.2 | 11.64 |
| | | 462.0 | 118.2 | 15.03 | 111.9 | 14.04 | 105.9 | 13.08 | 103.5 | 13.08 | 98.7 | 12.12 | 94.2 | 11.64 |
| | | 577.5 | 118.2 | 15.03 | 111.9 | 14.04 | 105.9 | 13.08 | 103.5 | 12.57 | 98.7 | 12.12 | 94.2 | 11.64 |
| | | 693.0 | 118.2 | 15.03 | 111.9 | 14.04 | 105.9 | 13.08 | 103.5 | 12.33 | 98.7 | 12.12 | 94.2 | 11.64 |
| | 35 | 184.8 | 118.2 | 14.16 | 111.9 | 13.20 | 105.9 | 12.12 | 103.5 | 12.27 | 98.7 | 11.13 | 94.2 | 10.80 |
| | | 231.0 | 118.2 | 14.04 | 111.9 | 13.08 | 105.9 | 12.12 | 103.5 | 12.12 | 98.7 | 11.13 | 94.2 | 10.68 |
| | | 462.0 | 118.2 | 13.59 | 111.9 | 12.57 | 105.9 | 12.12 | 103.5 | 11.64 | 98.7 | 11.13 | 94.2 | 10.17 |
| | | 577.5 | 118.2 | 13.59 | 111.9 | 12.57 | 105.9 | 11.64 | 103.5 | 11.64 | 98.7 | 11.13 | 94.2 | 10.17 |
| | | 693.0 | 118.2 | 13.59 | 111.9 | 12.57 | 105.9 | 11.37 | 103.5 | 11.64 | 98.7 | 11.13 | 94.2 | 10.17 |
| | 40 | 184.8 | 118.2 | 13.20 | 111.9 | 12.27 | 105.9 | 11.25 | 103.5 | 10.68 | 98.7 | 10.17 | 94.2 | 9.78 |
| | | 231.0 | 118.2 | 13.08 | 111.9 | 12.12 | 105.9 | 11.13 | 103.5 | 10.68 | 98.7 | 10.17 | 94.2 | 9.66 |
| | | 462.0 | 118.2 | 12.57 | 111.9 | 11.64 | 105.9 | 10.68 | 103.5 | 10.68 | 98.7 | 10.17 | 94.2 | 9.21 |
| | | 577.5 | 118.2 | 12.57 | 111.9 | 11.64 | 105.9 | 10.68 | 103.5 | 10.17 | 98.7 | 9.66 | 94.2 | 9.21 |
| | | 693.0 | 118.2 | 12.57 | 111.9 | 11.64 | 105.9 | 10.68 | 103.5 | 9.93 | 98.7 | 9.42 | 94.2 | 9.21 |
| | 45 | 184.8 | 118.2 | 12.27 | 111.9 | 11.25 | 105.9 | 10.41 | 103.5 | 9.12 | 98.7 | 9.21 | 94.2 | 8.85 |
| | | 231.0 | 118.2 | 12.12 | 111.9 | 11.13 | 105.9 | 10.17 | 103.5 | 9.21 | 98.7 | 9.21 | 94.2 | 8.73 |
| | | 462.0 | 118.2 | 11.64 | 111.9 | 10.68 | 105.9 | 9.21 | 103.5 | 9.66 | 98.7 | 9.21 | 94.2 | 8.22 |
| | | 577.5 | 118.2 | 11.64 | 111.9 | 10.68 | 105.9 | 9.66 | 103.5 | 8.73 | 98.7 | 8.22 | 94.2 | 8.22 |
| | | 693.0 | 118.2 | 11.64 | 111.9 | 10.68 | 105.9 | 9.90 | 103.5 | 8.25 | 98.7 | 7.71 | 94.2 | 8.22 |
| 60 | -5 | 184.8 | 40.5 | 14.22 | 38.1 | 13.68 | 36.0 | 13.14 | 35.7 | 12.21 | 35.4 | 12.00 | 34.8 | 10.74 |
| | | 231.0 | 42.0 | 14.55 | 39.3 | 13.98 | 37.2 | 13.44 | 36.9 | 12.48 | 36.6 | 12.27 | 36.0 | 10.98 |
| | | 462.0 | 47.7 | 15.78 | 44.7 | 15.18 | 42.3 | 14.58 | 41.7 | 13.53 | 41.7 | 13.32 | 40.8 | 11.94 |
| | | 577.5 | 52.5 | 16.98 | 49.2 | 16.38 | 46.8 | 15.75 | 46.2 | 14.64 | 45.9 | 14.37 | 45.0 | 12.84 |
| | | 693.0 | 55.2 | 17.61 | 51.6 | 17.01 | 48.9 | 16.32 | 48.3 | 15.18 | 48.3 | 14.91 | 47.1 | 13.29 |

**Notes:**

TC: Total Capacity(kW) PI : Power Input(kW)

1. Capacity tables show the representative value of conditions which may occur.
2. : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables

**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 60 | 0 | 184.8 | 72.6 | 20.85 | 66.9 | 20.10 | 62.4 | 19.23 | 61.2 | 17.88 | 60.3 | 17.64 | 58.2 | 15.75 |
| | | 231.0 | 73.2 | 20.91 | 67.5 | 20.16 | 63.0 | 19.29 | 61.5 | 17.94 | 60.9 | 17.70 | 58.5 | 15.78 |
| | | 462.0 | 74.7 | 21.15 | 69.0 | 20.34 | 64.5 | 19.56 | 63.0 | 18.15 | 62.1 | 17.88 | 59.7 | 15.93 |
| | | 577.5 | 75.9 | 21.15 | 69.9 | 20.34 | 65.4 | 19.56 | 63.9 | 18.15 | 63.3 | 17.88 | 60.9 | 15.93 |
| | | 693.0 | 76.5 | 21.15 | 70.5 | 20.34 | 66.0 | 19.56 | 64.5 | 18.15 | 63.6 | 17.88 | 61.2 | 15.93 |
| | 5 | 184.8 | 100.5 | 22.68 | 94.8 | 21.84 | 90.9 | 20.94 | 88.5 | 19.50 | 84.9 | 19.20 | 80.7 | 17.10 |
| | | 231.0 | 100.8 | 22.80 | 94.8 | 21.96 | 90.9 | 21.06 | 88.5 | 19.59 | 84.9 | 19.29 | 80.7 | 17.19 |
| | | 462.0 | 101.7 | 23.25 | 95.7 | 22.41 | 90.9 | 21.51 | 88.5 | 20.01 | 84.9 | 19.71 | 80.7 | 17.55 |
| | | 577.5 | 101.7 | 23.46 | 95.4 | 22.56 | 90.9 | 21.66 | 88.5 | 20.16 | 84.9 | 19.80 | 80.7 | 17.70 |
| | | 693.0 | 101.7 | 23.55 | 95.4 | 22.62 | 90.9 | 21.72 | 88.5 | 20.22 | 84.9 | 19.86 | 80.7 | 17.76 |
| | 10 | 184.8 | 101.1 | 20.85 | 95.1 | 19.95 | 90.9 | 18.99 | 88.5 | 17.73 | 84.9 | 17.40 | 80.7 | 15.60 |
| | | 231.0 | 101.1 | 20.85 | 95.1 | 19.95 | 90.9 | 18.99 | 88.5 | 17.79 | 84.9 | 17.40 | 80.7 | 15.63 |
| | | 462.0 | 101.7 | 20.85 | 95.7 | 19.95 | 90.9 | 18.99 | 88.5 | 18.00 | 84.9 | 17.34 | 80.7 | 15.78 |
| | | 577.5 | 101.7 | 20.91 | 95.4 | 19.74 | 90.9 | 18.81 | 88.5 | 17.79 | 84.9 | 17.19 | 80.7 | 15.63 |
| | | 693.0 | 101.7 | 20.94 | 95.4 | 19.65 | 90.9 | 18.69 | 88.5 | 17.70 | 84.9 | 17.13 | 80.7 | 15.57 |
| | 15 | 184.8 | 101.7 | 19.02 | 95.4 | 18.06 | 90.9 | 17.04 | 88.5 | 15.99 | 84.9 | 15.60 | 80.7 | 14.04 |
| | | 231.0 | 101.7 | 18.90 | 95.4 | 17.94 | 90.9 | 16.95 | 88.5 | 15.99 | 84.9 | 15.48 | 80.7 | 14.04 |
| | | 462.0 | 101.7 | 18.39 | 95.4 | 17.43 | 90.9 | 16.50 | 88.5 | 15.99 | 84.9 | 15.03 | 80.7 | 14.04 |
| | | 577.5 | 101.7 | 18.39 | 95.4 | 16.95 | 90.9 | 15.99 | 88.5 | 15.48 | 84.9 | 14.55 | 80.7 | 13.59 |
| | | 693.0 | 101.7 | 18.39 | 95.4 | 16.68 | 90.9 | 15.75 | 88.5 | 15.24 | 84.9 | 14.28 | 80.7 | 13.35 |
| | 20 | 184.8 | 101.7 | 16.62 | 95.4 | 15.60 | 90.9 | 14.67 | 88.5 | 14.16 | 84.9 | 13.71 | 80.7 | 12.69 |
| | | 231.0 | 101.7 | 16.50 | 95.4 | 15.48 | 90.9 | 14.55 | 88.5 | 14.04 | 84.9 | 13.59 | 80.7 | 12.57 |
| | | 462.0 | 101.7 | 15.99 | 95.4 | 15.03 | 90.9 | 14.04 | 88.5 | 13.59 | 84.9 | 13.08 | 80.7 | 12.12 |
| | | 577.5 | 101.7 | 15.99 | 95.4 | 15.03 | 90.9 | 14.04 | 88.5 | 13.59 | 84.9 | 13.08 | 80.7 | 12.12 |
| | | 693.0 | 101.7 | 15.99 | 95.4 | 15.03 | 90.9 | 14.04 | 88.5 | 13.59 | 84.9 | 13.08 | 80.7 | 12.12 |
| | 25 | 184.8 | 101.7 | 14.67 | 95.4 | 13.71 | 90.9 | 12.57 | 88.5 | 12.69 | 84.9 | 11.64 | 80.7 | 11.25 |
| | | 231.0 | 101.7 | 14.55 | 95.4 | 13.59 | 90.9 | 12.57 | 88.5 | 12.57 | 84.9 | 11.64 | 80.7 | 11.13 |
| | | 462.0 | 101.7 | 14.04 | 95.4 | 13.08 | 90.9 | 12.57 | 88.5 | 12.12 | 84.9 | 11.64 | 80.7 | 10.68 |
| | | 577.5 | 101.7 | 14.04 | 95.4 | 13.08 | 90.9 | 12.12 | 88.5 | 12.12 | 84.9 | 11.64 | 80.7 | 10.68 |
| | | 693.0 | 101.7 | 14.04 | 95.4 | 13.08 | 90.9 | 11.91 | 88.5 | 12.12 | 84.9 | 11.64 | 80.7 | 10.68 |
| | 30 | 184.8 | 101.7 | 13.20 | 95.4 | 12.27 | 90.9 | 11.76 | 88.5 | 11.25 | 84.9 | 10.80 | 80.7 | 10.29 |
| | | 231.0 | 101.7 | 13.08 | 95.4 | 12.12 | 90.9 | 11.64 | 88.5 | 11.13 | 84.9 | 10.68 | 80.7 | 10.17 |
| | | 462.0 | 101.7 | 12.57 | 95.4 | 11.64 | 90.9 | 11.13 | 88.5 | 10.68 | 84.9 | 10.17 | 80.7 | 9.66 |
| | | 577.5 | 101.7 | 12.57 | 95.4 | 11.64 | 90.9 | 11.13 | 88.5 | 10.68 | 84.9 | 10.17 | 80.7 | 9.66 |
| | | 693.0 | 101.7 | 12.57 | 95.4 | 11.64 | 90.9 | 11.13 | 88.5 | 10.68 | 84.9 | 10.17 | 80.7 | 9.66 |
| | 35 | 184.8 | 101.7 | 11.64 | 95.4 | 11.25 | 90.9 | 10.17 | 88.5 | 10.29 | 84.9 | 9.78 | 80.7 | 9.36 |
| | | 231.0 | 101.7 | 11.64 | 95.4 | 11.13 | 90.9 | 10.17 | 88.5 | 10.17 | 84.9 | 9.66 | 80.7 | 9.21 |
| | | 462.0 | 101.7 | 11.64 | 95.4 | 10.68 | 90.9 | 10.17 | 88.5 | 9.66 | 84.9 | 9.21 | 80.7 | 8.73 |
| | | 577.5 | 101.7 | 11.64 | 95.4 | 10.68 | 90.9 | 9.66 | 88.5 | 9.66 | 84.9 | 9.21 | 80.7 | 8.73 |
| | | 693.0 | 101.7 | 11.64 | 95.4 | 10.68 | 90.9 | 9.42 | 88.5 | 9.66 | 84.9 | 9.21 | 80.7 | 8.73 |
| | 40 | 184.8 | 101.7 | 10.68 | 95.4 | 10.29 | 90.9 | 9.21 | 88.5 | 9.36 | 84.9 | 8.85 | 80.7 | 8.22 |
| | | 231.0 | 101.7 | 10.68 | 95.4 | 10.17 | 90.9 | 9.21 | 88.5 | 9.21 | 84.9 | 8.73 | 80.7 | 8.22 |
| | | 462.0 | 101.7 | 10.68 | 95.4 | 9.66 | 90.9 | 9.21 | 88.5 | 8.73 | 84.9 | 8.22 | 80.7 | 8.22 |
| | | 577.5 | 101.7 | 10.68 | 95.4 | 9.66 | 90.9 | 9.21 | 88.5 | 8.73 | 84.9 | 8.22 | 80.7 | 8.22 |
| | | 693.0 | 101.7 | 10.68 | 95.4 | 9.66 | 90.9 | 9.21 | 88.5 | 8.73 | 84.9 | 8.22 | 80.7 | 8.22 |
| | 45 | 184.8 | 101.7 | 9.66 | 95.4 | 9.36 | 90.9 | 8.22 | 88.5 | 8.34 | 84.9 | 7.89 | 80.7 | 7.14 |
| | | 231.0 | 101.7 | 9.66 | 95.4 | 9.21 | 90.9 | 8.22 | 88.5 | 8.22 | 84.9 | 7.77 | 80.7 | 7.26 |
| | | 462.0 | 101.7 | 9.66 | 95.4 | 8.73 | 90.9 | 8.22 | 88.5 | 7.77 | 84.9 | 7.26 | 80.7 | 7.77 |
| | | 577.5 | 101.7 | 9.66 | 95.4 | 8.73 | 90.9 | 8.73 | 88.5 | 7.77 | 84.9 | 7.26 | 80.7 | 7.77 |
| | | 693.0 | 101.7 | 9.66 | 95.4 | 8.73 | 90.9 | 8.97 | 88.5 | 7.77 | 84.9 | 7.26 | 80.7 | 7.77 |
| 50 | -5 | 184.8 | 33.9 | 11.34 | 31.8 | 10.74 | 30.0 | 10.17 | 29.7 | 9.60 | 29.4 | 9.03 | 29.1 | 8.55 |
| | | 231.0 | 35.1 | 11.58 | 33.0 | 10.98 | 31.2 | 10.38 | 30.6 | 9.81 | 30.6 | 9.21 | 30.0 | 8.73 |
| | | 462.0 | 39.6 | 12.54 | 37.2 | 11.94 | 35.1 | 11.22 | 34.8 | 10.68 | 34.5 | 10.02 | 33.9 | 9.42 |
| | | 577.5 | 43.8 | 13.53 | 41.1 | 12.84 | 38.7 | 12.12 | 38.4 | 11.52 | 38.1 | 10.77 | 37.5 | 10.17 |
| | | 693.0 | 45.9 | 14.04 | 43.2 | 13.29 | 40.8 | 12.57 | 40.2 | 11.97 | 39.9 | 11.16 | 39.3 | 10.56 |
| | 0 | 184.8 | 60.3 | 16.59 | 55.8 | 15.75 | 51.9 | 14.85 | 51.0 | 14.07 | 50.1 | 13.23 | 48.3 | 12.48 |
| | | 231.0 | 60.9 | 16.65 | 56.4 | 15.78 | 52.2 | 14.88 | 51.3 | 14.13 | 50.4 | 13.29 | 48.6 | 12.54 |
| | | 462.0 | 62.1 | 16.80 | 57.6 | 15.93 | 53.7 | 15.09 | 52.5 | 14.34 | 51.9 | 13.44 | 49.8 | 12.69 |
| | | 577.5 | 63.3 | 16.80 | 58.5 | 15.93 | 54.3 | 15.09 | 53.4 | 14.34 | 52.5 | 13.44 | 50.7 | 12.69 |
| | | 693.0 | 63.6 | 16.80 | 58.8 | 15.93 | 54.6 | 15.09 | 53.7 | 14.34 | 52.8 | 13.44 | 51.0 | 12.69 |
| | 5 | 184.8 | 83.4 | 18.06 | 79.2 | 17.10 | 75.6 | 16.14 | 73.8 | 15.36 | 70.5 | 14.43 | 67.2 | 13.56 |
| | | 231.0 | 83.7 | 18.15 | 79.2 | 17.19 | 75.6 | 16.23 | 73.8 | 15.45 | 70.5 | 14.49 | 67.2 | 13.62 |
| | | 462.0 | 84.3 | 18.48 | 79.8 | 17.55 | 75.6 | 16.59 | 73.8 | 15.75 | 70.5 | 14.73 | 67.2 | 13.92 |
| | | 577.5 | 84.3 | 18.63 | 79.8 | 17.70 | 75.6 | 16.68 | 73.8 | 15.84 | 70.5 | 14.88 | 67.2 | 14.04 |
| | | 693.0 | 84.3 | 18.72 | 79.8 | 17.76 | 75.6 | 16.74 | 73.8 | 15.90 | 70.5 | 14.97 | 67.2 | 14.07 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

# 7. Capacity Tables



**Heating Capacity(48HP)**

| Combination (%) | Inlet water Temp.(°C) | Water flow rate [L/min] | Indoor Air temperature (°CDB) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 16 | | 18 | | 20 | | 21 | | 22 | | 24 | |
| | | | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 50 | 10 | 184.8 | 84.0 | 16.62 | 79.5 | 15.66 | 75.6 | 14.70 | 73.8 | 14.07 | 70.5 | 12.99 | 67.2 | 12.42 |
| | | 231.0 | 84.0 | 16.59 | 79.5 | 15.63 | 75.6 | 14.70 | 73.8 | 14.04 | 70.5 | 13.02 | 67.2 | 12.39 |
| | | 462.0 | 84.3 | 16.50 | 79.8 | 15.60 | 75.6 | 14.58 | 73.8 | 13.92 | 70.5 | 13.17 | 67.2 | 12.27 |
| | | 577.5 | 84.3 | 16.59 | 79.8 | 15.63 | 75.6 | 14.64 | 73.8 | 13.98 | 70.5 | 12.99 | 67.2 | 12.33 |
| | | 693.0 | 84.3 | 16.65 | 79.8 | 15.66 | 75.6 | 14.67 | 73.8 | 14.01 | 70.5 | 12.87 | 67.2 | 12.36 |
| | 15 | 184.8 | 84.3 | 15.15 | 79.8 | 14.16 | 75.6 | 13.20 | 73.8 | 12.69 | 70.5 | 11.64 | 67.2 | 11.25 |
| | | 231.0 | 84.3 | 15.03 | 79.8 | 14.04 | 75.6 | 13.08 | 73.8 | 12.57 | 70.5 | 11.64 | 67.2 | 11.13 |
| | | 462.0 | 84.3 | 14.55 | 79.8 | 13.59 | 75.6 | 12.57 | 73.8 | 12.12 | 70.5 | 11.64 | 67.2 | 10.68 |
| | | 577.5 | 84.3 | 14.55 | 79.8 | 13.59 | 75.6 | 12.57 | 73.8 | 12.12 | 70.5 | 11.13 | 67.2 | 10.68 |
| | | 693.0 | 84.3 | 14.55 | 79.8 | 13.59 | 75.6 | 12.57 | 73.8 | 12.12 | 70.5 | 10.86 | 67.2 | 10.68 |
| | 20 | 184.8 | 84.3 | 13.20 | 79.8 | 12.27 | 75.6 | 11.76 | 73.8 | 11.25 | 70.5 | 10.80 | 67.2 | 9.66 |
| | | 231.0 | 84.3 | 13.08 | 79.8 | 12.12 | 75.6 | 11.64 | 73.8 | 11.13 | 70.5 | 10.68 | 67.2 | 9.66 |
| | | 462.0 | 84.3 | 12.57 | 79.8 | 11.64 | 75.6 | 11.13 | 73.8 | 10.68 | 70.5 | 10.17 | 67.2 | 9.66 |
| | | 577.5 | 84.3 | 12.57 | 79.8 | 11.64 | 75.6 | 11.13 | 73.8 | 10.68 | 70.5 | 10.17 | 67.2 | 9.66 |
| | | 693.0 | 84.3 | 12.57 | 79.8 | 11.64 | 75.6 | 11.13 | 73.8 | 10.68 | 70.5 | 10.17 | 67.2 | 9.66 |
| | 25 | 184.8 | 84.3 | 11.76 | 79.8 | 10.68 | 75.6 | 10.29 | 73.8 | 9.66 | 70.5 | 9.21 | 67.2 | 8.73 |
| | | 231.0 | 84.3 | 11.64 | 79.8 | 10.68 | 75.6 | 10.17 | 73.8 | 9.66 | 70.5 | 9.21 | 67.2 | 8.73 |
| | | 462.0 | 84.3 | 11.13 | 79.8 | 10.68 | 75.6 | 9.66 | 73.8 | 9.66 | 70.5 | 9.21 | 67.2 | 8.73 |
| | | 577.5 | 84.3 | 11.13 | 79.8 | 10.68 | 75.6 | 9.66 | 73.8 | 9.66 | 70.5 | 9.21 | 67.2 | 8.73 |
| | | 693.0 | 84.3 | 11.13 | 79.8 | 10.68 | 75.6 | 9.66 | 73.8 | 9.66 | 70.5 | 9.21 | 67.2 | 8.73 |
| | 30 | 184.8 | 84.3 | 10.80 | 79.8 | 9.78 | 75.6 | 9.36 | 73.8 | 8.73 | 70.5 | 8.85 | 67.2 | 8.34 |
| | | 231.0 | 84.3 | 10.68 | 79.8 | 9.66 | 75.6 | 9.21 | 73.8 | 8.73 | 70.5 | 8.73 | 67.2 | 8.22 |
| | | 462.0 | 84.3 | 10.17 | 79.8 | 9.21 | 75.6 | 8.73 | 73.8 | 8.73 | 70.5 | 8.22 | 67.2 | 7.77 |
| | | 577.5 | 84.3 | 10.17 | 79.8 | 9.21 | 75.6 | 8.73 | 73.8 | 8.73 | 70.5 | 8.22 | 67.2 | 7.77 |
| | | 693.0 | 84.3 | 10.17 | 79.8 | 9.21 | 75.6 | 8.73 | 73.8 | 8.73 | 70.5 | 8.22 | 67.2 | 7.77 |
| | 35 | 184.8 | 84.3 | 9.78 | 79.8 | 8.73 | 75.6 | 8.22 | 73.8 | 8.34 | 70.5 | 7.77 | 67.2 | 7.26 |
| | | 231.0 | 84.3 | 9.66 | 79.8 | 8.73 | 75.6 | 8.22 | 73.8 | 8.22 | 70.5 | 7.77 | 67.2 | 7.26 |
| | | 462.0 | 84.3 | 9.21 | 79.8 | 8.73 | 75.6 | 8.22 | 73.8 | 7.77 | 70.5 | 7.77 | 67.2 | 7.26 |
| | | 577.5 | 84.3 | 9.21 | 79.8 | 8.73 | 75.6 | 8.22 | 73.8 | 7.77 | 70.5 | 7.77 | 67.2 | 7.26 |
| | | 693.0 | 84.3 | 9.21 | 79.8 | 8.73 | 75.6 | 8.22 | 73.8 | 7.77 | 70.5 | 7.77 | 67.2 | 7.26 |
| | 40 | 184.8 | 84.3 | 8.85 | 79.8 | 8.34 | 75.6 | 7.89 | 73.8 | 7.26 | 70.5 | 7.38 | 67.2 | 6.78 |
| | | 231.0 | 84.3 | 8.73 | 79.8 | 8.22 | 75.6 | 7.77 | 73.8 | 7.26 | 70.5 | 7.26 | 67.2 | 6.78 |
| | | 462.0 | 84.3 | 8.22 | 79.8 | 7.77 | 75.6 | 7.26 | 73.8 | 7.26 | 70.5 | 6.78 | 67.2 | 6.78 |
| | | 577.5 | 84.3 | 8.22 | 79.8 | 7.77 | 75.6 | 7.26 | 73.8 | 7.26 | 70.5 | 6.78 | 67.2 | 6.78 |
| | | 693.0 | 84.3 | 8.22 | 79.8 | 7.77 | 75.6 | 7.26 | 73.8 | 7.26 | 70.5 | 6.78 | 67.2 | 6.78 |
| | 45 | 184.8 | 84.3 | 7.89 | 79.8 | 8.01 | 75.6 | 7.50 | 73.8 | 6.21 | 70.5 | 7.02 | 67.2 | 6.33 |
| | | 231.0 | 84.3 | 7.77 | 79.8 | 7.77 | 75.6 | 7.26 | 73.8 | 6.33 | 70.5 | 6.78 | 67.2 | 6.33 |
| | | 462.0 | 84.3 | 7.26 | 79.8 | 6.78 | 75.6 | 6.33 | 73.8 | 6.78 | 70.5 | 5.82 | 67.2 | 6.33 |
| | | 577.5 | 84.3 | 7.26 | 79.8 | 6.78 | 75.6 | 6.33 | 73.8 | 6.78 | 70.5 | 5.82 | 67.2 | 6.33 |
| | | 693.0 | 84.3 | 7.26 | 79.8 | 6.78 | 75.6 | 6.33 | 73.8 | 6.78 | 70.5 | 5.82 | 67.2 | 6.33 |

**Notes:**
TC: Total Capacity(kW) PI : Power Input(kW)
1. Capacity tables show the representative value of conditions which may occur.
2. ▒ : By applying the Variable Water Flow Valve Control KIT, the minimum flow rate to 40% is applied.

## 7.2 Integrated Part Load Value

### Chiller Condition (AHRI 550/590)

| Test | Inlet Air DB | Inlet Air WB | Inlet Water | Flow Rate | Capacity (W) | Input (W) | COP | IPLV |
|---|---|---|---|---|---|---|---|---|
| Standard Rating Cooling | 27 | 19 | 29.4 | Standard | 40398.4 | 8062.9 | 5.01 | 10.03 |
| IPLV 75% | 27 | 19 | 23.9 | Standard | 30872.6 | 3218.6 | 9.59 | |
| IPLV 50% | 27 | 19 | 18.3 | Standard | 22365.9 | 2140.1 | 10.45 | |
| IPLV 25% | 27 | 19 | 18.3 | Standard | 10422.4 | 1001.5 | 10.41 | |

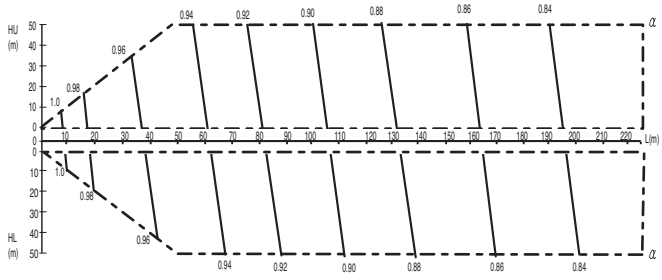
### VRF Condition (AHRI 1230)

| Test | Inlet Air DB | Inlet Air WB | Inlet Water | Flow Rate | Capacity (W) | Input (W) | COP | IPLV |
|---|---|---|---|---|---|---|---|---|
| Standard Rating Cooling | 27 | 19 | 30 | Standard | 41427.6 | 8352 | 4.96 | 9.67 |
| IPLV 75% | 27 | 19 | 23 | Standard | 34138.3 | 3864.3 | 8.83 | |
| IPLV 50% | 27 | 19 | 16.7 | Standard | 20721.4 | 1887.4 | 10.98 | |
| IPLV 25% | 27 | 19 | 12.7 | Standard | 12441.3 | 1031.5 | 12.06 | |

## 7.3 Capacity Correction Factor

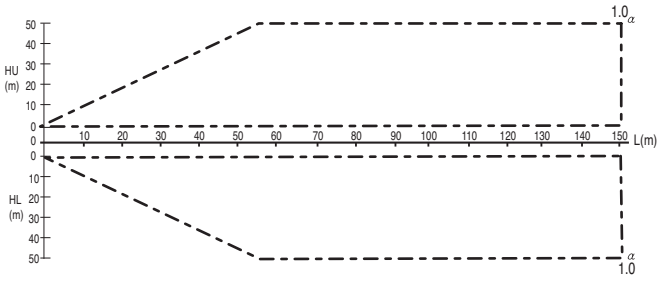
### ■ 8, 10, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 HP

#### Rate of change in Cooling capacity




| HU (m) \ L(m) | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 220 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | - | - | - | - | - | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.89 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.83 | 0.82 |
| 40 | - | - | - | - | 0.95 | 0.94 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.89 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 30 | - | - | - | 0.96 | 0.95 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.90 | 0.89 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 20 | - | - | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.90 | 0.89 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 10 | - | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 7.5 | 0.99 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.90 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 0 | 1.0 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 0 | 7.5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 225 |
| 0 | 1.0 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 7.5 | 1.0 | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 10 | - | 0.99 | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 20 | - | - | 0.98 | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.91 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.84 | 0.84 | 0.83 | 0.82 |
| 30 | - | - | - | 0.97 | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.92 | 0.91 | 0.90 | 0.89 | 0.88 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.83 |
| 40 | - | - | - | - | 0.96 | 0.95 | 0.94 | 0.93 | 0.92 | 0.92 | 0.91 | 0.90 | 0.89 | 0.89 | 0.88 | 0.87 | 0.86 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.83 |
| 50 | - | - | - | - | - | 0.95 | 0.94 | 0.93 | 0.93 | 0.92 | 0.91 | 0.90 | 0.89 | 0.89 | 0.88 | 0.87 | 0.87 | 0.86 | 0.85 | 0.85 | 0.84 | 0.83 | 0.83 |

#### Rate of change in Heating capacity



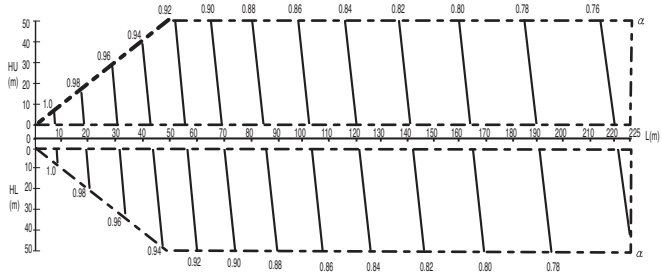

| HU (m) \ L(m) | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | - | - | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 40 | - | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 30 | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 20 | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 10 | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 7.5 | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 0 | 7.5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 |
| 7.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 10 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 20 | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 30 | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 40 | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 50 | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

**[Symbols]**

HU : Level difference between indoor and outside units where outside unit in upper position (m).
HL : Level difference between indoor and outside units where outside unit in lower position (m).
L : Equivalent pipe length (m)
α : Capacity correction factor

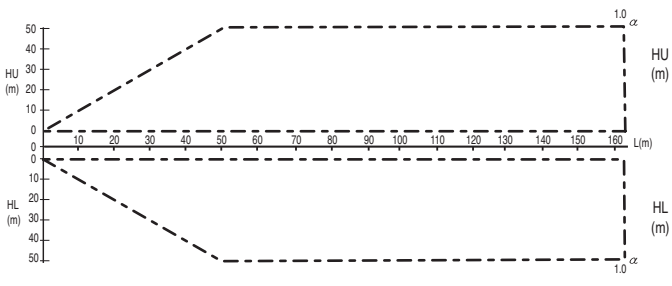
## ■ 36, 38, 40, 42, 44, 46, 48 HP

### Rate of change in Cooling capacity




| HU (m) \ L(m) | 0 | 7.5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 225 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | - | - | - | - | - | 0.92 | 0.91 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.79 | 0.78 | 0.77 | 0.76 | 0.75 |
| 40 | - | - | - | - | 0.94 | 0.92 | 0.91 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.79 | 0.78 | 0.77 | 0.76 | 0.75 |
| 30 | - | - | - | 0.95 | 0.94 | 0.92 | 0.91 | 0.90 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.79 | 0.78 | 0.77 | 0.76 | 0.76 |
| 20 | - | - | 0.97 | 0.95 | 0.94 | 0.92 | 0.91 | 0.90 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 |
| 10 | - | 0.99 | 0.97 | 0.96 | 0.94 | 0.92 | 0.91 | 0.90 | 0.89 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 |
| 7.5 | 0.99 | 0.99 | 0.97 | 0.96 | 0.94 | 0.93 | 0.91 | 0.90 | 0.89 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 |
| 0 | 1.0 | 0.99 | 0.97 | 0.96 | 0.94 | 0.93 | 0.91 | 0.90 | 0.89 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 |
| HL (m) \ L(m) | 0 | 7.5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | 210 | 225 |
| 0 | 1.0 | 0.99 | 0.97 | 0.96 | 0.94 | 0.93 | 0.91 | 0.90 | 0.89 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 |
| 7.5 | 1.0 | 0.99 | 0.97 | 0.96 | 0.94 | 0.93 | 0.91 | 0.90 | 0.89 | 0.88 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 |
| 10 | - | 0.99 | 0.98 | 0.96 | 0.94 | 0.93 | 0.91 | 0.90 | 0.89 | 0.88 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.81 | 0.80 | 0.79 | 0.78 | 0.77 | 0.77 | 0.76 |
| 20 | - | - | 0.98 | 0.96 | 0.94 | 0.93 | 0.91 | 0.90 | 0.89 | 0.88 | 0.87 | 0.85 | 0.84 | 0.83 | 0.82 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.78 | 0.77 | 0.76 |
| 30 | - | - | - | 0.96 | 0.95 | 0.93 | 0.92 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.84 | 0.83 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.78 | 0.77 | 0.76 |
| 40 | - | - | - | - | 0.95 | 0.93 | 0.92 | 0.90 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.78 | 0.77 | 0.76 |
| 50 | - | - | - | - | - | 0.93 | 0.92 | 0.91 | 0.89 | 0.88 | 0.87 | 0.86 | 0.85 | 0.84 | 0.83 | 0.82 | 0.81 | 0.80 | 0.79 | 0.78 | 0.78 | 0.77 | 0.76 |

### Rate of change in Heating capacity




| HU (m) \ L(m) | 0 | 7.5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 50 | - | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 40 | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 30 | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 20 | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 10 | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 7.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| HL (m) \ L(m) | 0 | 7.5 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 |
| 0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 7.5 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 10 | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 20 | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 30 | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 40 | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 50 | - | - | - | - | - | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

**[Symbols]**

HU : Level difference between indoor and outside units where outside unit in upper position (m).
HL : Level difference between indoor and outside units where outside unit in lower position (m).
L : Equivalent pipe length (m)
α : Capacity correction factor

# 7. Capacity Tables



## *Notes*

1. These figures illustrate the rate of change in capacity of a standard indoor unit system at maximum load under standard conditions. (Moreover, under partial load conditions there is only a minor deviation from the rate of change in capacity shown in the above figures.)
2. With this outside unit, evaporating pressure constant control when cooling, and condensing pressure constant control when heating is carried out.
3. If heat insulation of piping is insufficient, heat loss will become larger and capacity will decrease
4. Method of calculating cooling / heating capacity : maximum cooling / heating capacity of outside units
   = cooling / heating capacity of outside units obtained from capacity table X capacity correction factor due to piping length to the farthest indoor unit
5. Equivalent piping length for Y branch and other pipes can be calculated with following table.

| mm | Ø6.35 | Ø9.52 | Ø12.7 | Ø15.88 | Ø19.05 | Ø22.2 | Ø25.4 | Ø28.58 | Ø31.8 | Ø34.9 | Ø38.1 | Ø41.3 | Ø44.5 | Ø53.98 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (inch) | (1/4) | (3/8) | (1/2) | (5/8) | (3/4) | (7/8) | (1) | (1-1/8) | (1-1/4) | (1-3/8) | (1-1/2) | (1-5/8) | (1-3/4) | (2-1/8) |
| Elbow m(inch) | 0.16 (6.3) | 0.18 (7.1) | 0.2 (7.9) | 0.25 (9.8) | 0.35 (13.8) | 0.4 (15.7) | 0.45 (17.7) | 0.5 (19.7) | 0.55 (21.7) | 0.6 (23.6) | 0.65 (25.6) | 0.7 (27.6) | 0.75 (29.5) | 0.85 (33.5) |
| Y Branch m(inch) | 0.5(19.7) | | | | | | | | | | | | | |
| Header m(inch) | 1(39.4) | | | | | | | | | | | | | |

6. When overall equivalent pipe length is 90 m or more, the diameter of the main gas and liquid pipes.

| Upward outside unit total capacity | Standard pipe diameter | | Increased pipe diameter | |
|---|---|---|---|---|
| | | | When equivalent pipe length from the outside unit to farthest indoor unit is 90m and over | |
| HP | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] |
| 8 | Ø 9.52(3/8) | Ø 22.2(7/8) | Ø 12.7(1/2) | not increased |
| 10 | Ø 9.52(3/8) | Ø 22.2(7/8) | Ø 12.7(1/2) | Ø 25.4(1) |
| 12 | Ø 12.7(1/2) | Ø 25.4(1) | Ø 15.88(5/8) | Ø 28.58(1-1/8) |
| 14 | Ø 12.7(1/2) | Ø 25.4(1) | Ø 15.88(5/8) | Ø 28.58(1-1/8) |
| 16 ~ 20 | Ø 12.7(1/2) | Ø 28.58(1-1/8) | Ø 15.88(5/8) | Ø 31.8(1-1/4) |
| 22 ~34 | Ø 19.05(3/4) | Ø 34.9(1-3/8) | Ø 22.2(7/8) | Ø 38.1(1-1/2) |
| 36 ~ 60 | Ø 19.05(3/4) | Ø 41.3(1-5/8) | Ø 22.2(7/8) | not increased |
| 62 ~ 64 | Ø 22.2(7/8) | Ø 44.5(1-3/4) | Ø 25.4(1) | Ø 53.98(2-1/8) |
| 66 ~ 80 | Ø 22.2(7/8) | Ø 53.98(2-1/8) | Ø 25.4(1) | not increased |

* If available on site, select pipe size according to upper table. Otherwise it doesn't need to be increased.
* Model line up could be different in accordance with target region.

7. Read cooling / heating capacity rate of change in the above figures based on the following equivalent length. : overall equivalent length = (equivalent length of main pipe) X correction factor + (equivalent length after first branching)

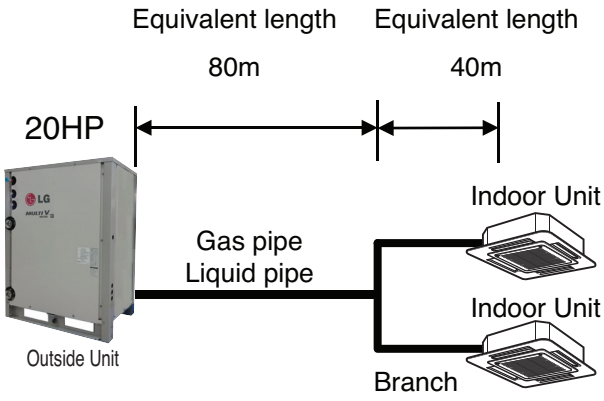
# 7. Capacity Tables

**• 8, 10, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34 HP**

| Rate of change (object piping) | Correction factor | |
|---|---|---|
| | standard size | size increase |
| Cooling(Gas pipe) | 1.0 | 0.5 |
| Heating(Liquid pipe) | 1.0 | 0.2 |

**• 36, 38, 40, 42, 44, 46, 48 HP**

| Rate of change (object piping) | Correction factor | |
|---|---|---|
| | standard size | size increase |
| Cooling(Gas pipe) | 1.0 | 0.5 |
| Heating(Liquid pipe) | 1.0 | 0.4 |




- (Cooling) Overall equivalent length =80 m x 0.5 + 40 m = 80 m
- (Heating) Overall equivalent length =80 m x 0.2 + 40 m = 56 m

The rate of change in

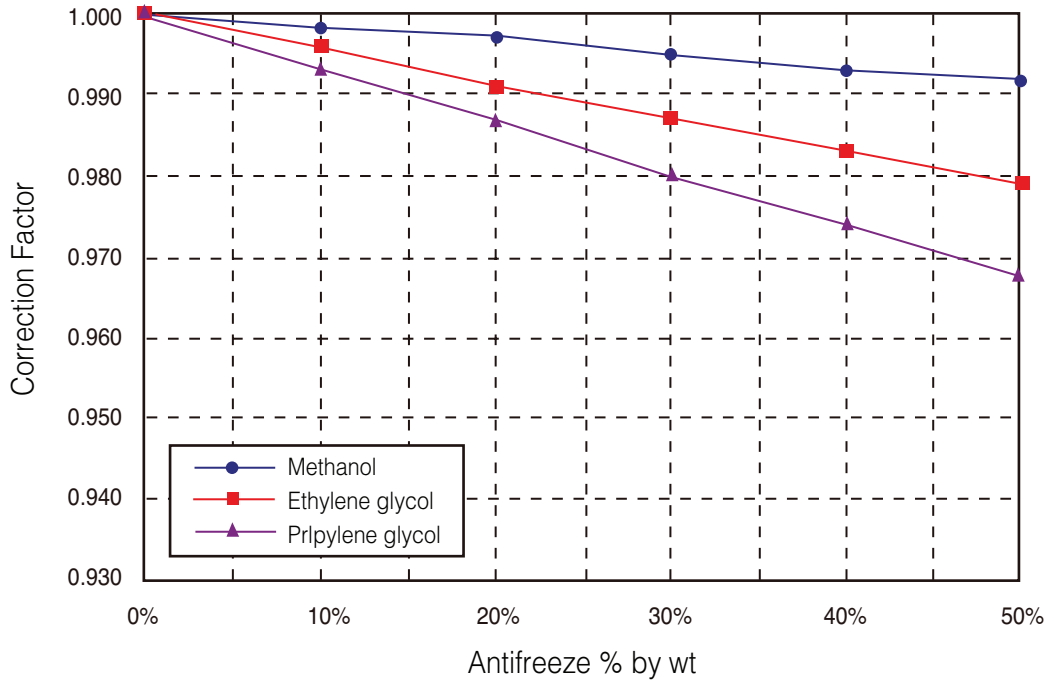
Cooling capacity when HU=0m is thus approximately 0.92

Heating capacity when HU=0m is thus approximately 1.00

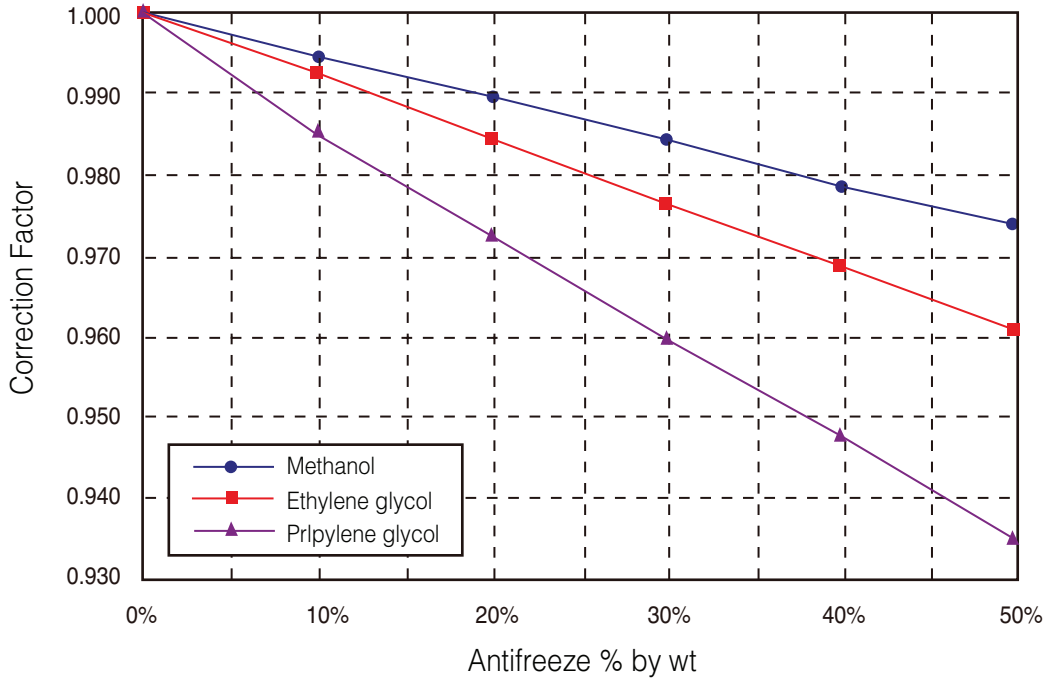
## 7.4 Antifreeze Corrections

| Antifreeze Type | Item | Antifreeze % by wt | | | | |
|---|---|---|---|---|---|---|
| | | 10% | 20% | 30% | 40% | 50% |
| Methanol | Cooling | 0.998 | 0.997 | 0.995 | 0.993 | 0.992 |
| | Heating | 0.995 | 0.99 | 0.985 | 0.979 | 0.974 |
| | Pressure Drop | 1.023 | 1.057 | 1.091 | 1.122 | 1.160 |
| Ethylene glycol | Cooling | 0.996 | 0.991 | 0.987 | 0.983 | 0.979 |
| | Heating | 0.993 | 0.985 | 0.997 | 0.969 | 0.961 |
| | Pressure Drop | 1.024 | 1.068 | 1.124 | 1.188 | 1.263 |
| Propylene glycol | Cooling | 0.993 | 0.987 | 0.98 | 0.974 | 0.968 |
| | Heating | 0.986 | 0.973 | 0.96 | 0.948 | 0.935 |
| | Pressure Drop | 1.040 | 1.098 | 1.174 | 1.273 | 1.405 |

### Correction factor of cooling capacity

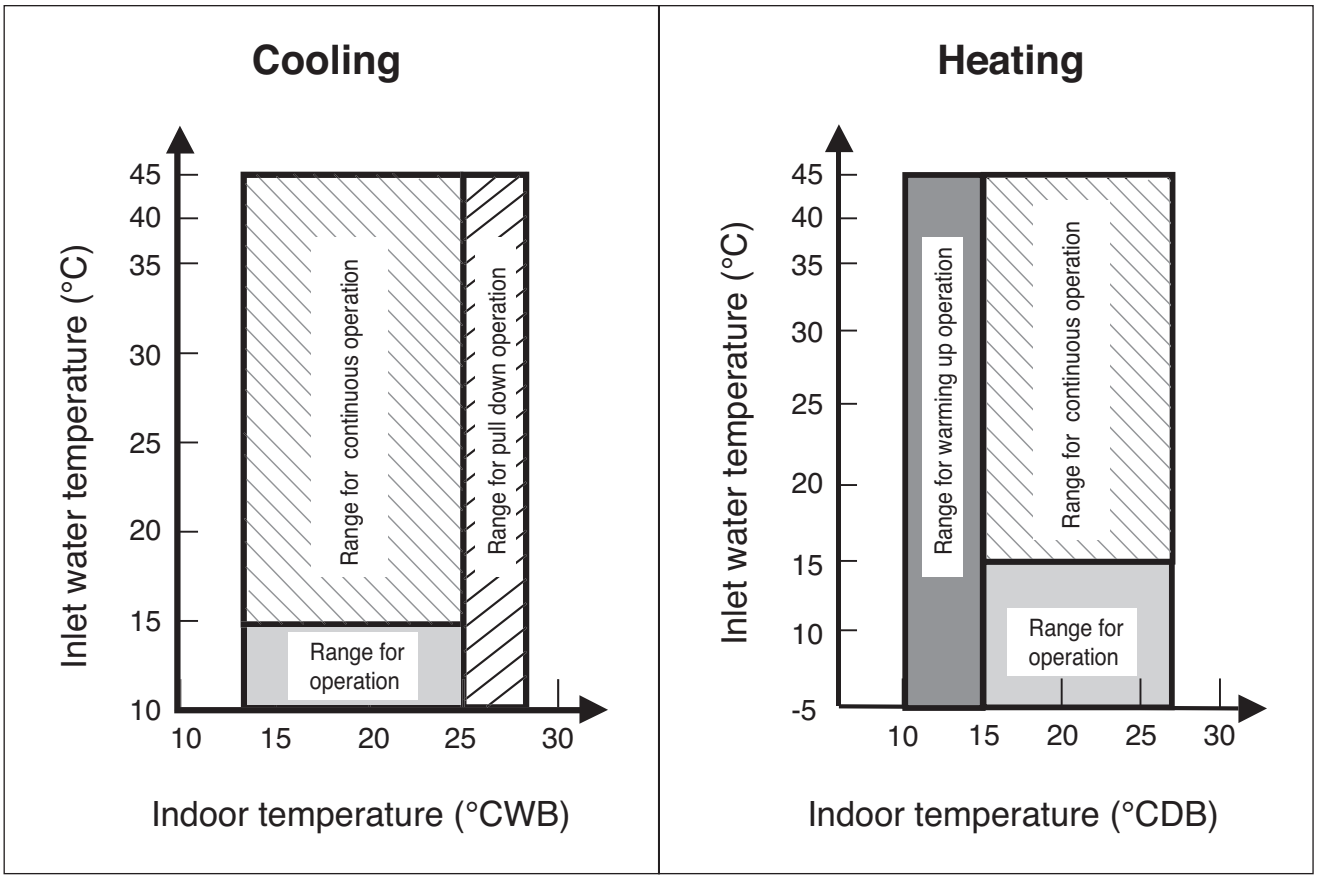


### Correction factor of heating capacity



# 8. Operation Limits






**Notes:**

These figures assume the following operating conditions:

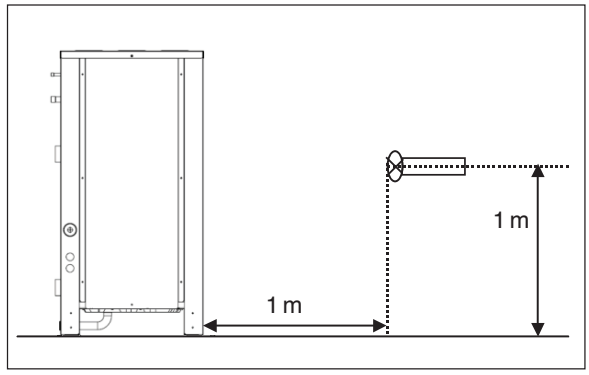
Equivalent piping length:7.5m

Level difference:0m

# 9. Sound Levels

Unit:dB(A)

| Model | Cooling | Heating |
|---|---|---|
| 8 HP | 47 | 51 |
| 10 HP | 50 | 53 |
| 14 HP | 58 | 57 |
| 16 HP | 59 | 59 |
| 18 HP | 52 | 55 |
| 20 HP | 53 | 56 |
| 22 HP | 58 | 58 |
| 24 HP | 59 | 60 |
| 26 HP | 60 | 60 |
| 28 HP | 61 | 60 |
| 30 HP | 62 | 61 |
| 32 HP | 62 | 62 |
| 34 HP | 59 | 60 |
| 36 HP | 61 | 61 |
| 38 HP | 61 | 61 |
| 40 HP | 62 | 62 |
| 42 HP | 63 | 62 |
| 44 HP | 63 | 63 |
| 46 HP | 63 | 63 |
| 48 HP | 64 | 64 |



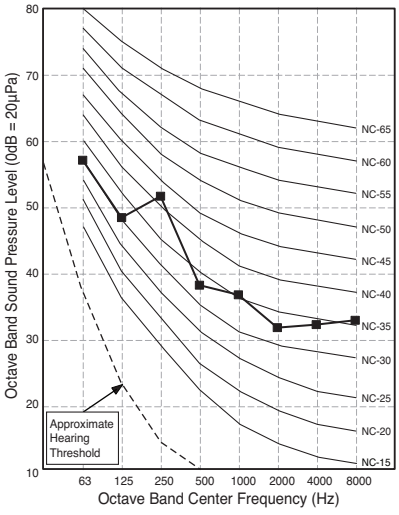

**Notes:**
- Data is valid at free field condition
- Data is valid at nominal operating condition
- Sound level will vary depending on a range of factors such as the construction (acoustic absorption coefficient) of particular room in which the equipment is installed
- The operating conditions are assumed to be standard (ISO conditions)



## Sound Pressure Level

### ■ Cooling

**ARWN080BAS4**

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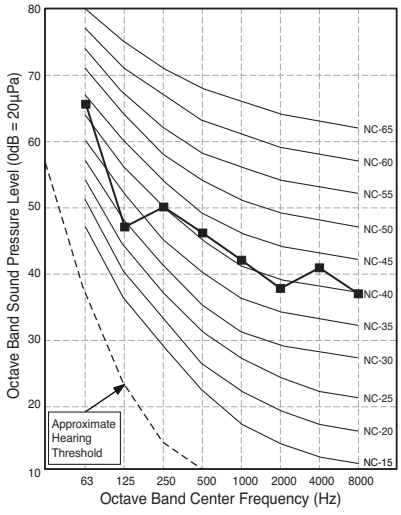


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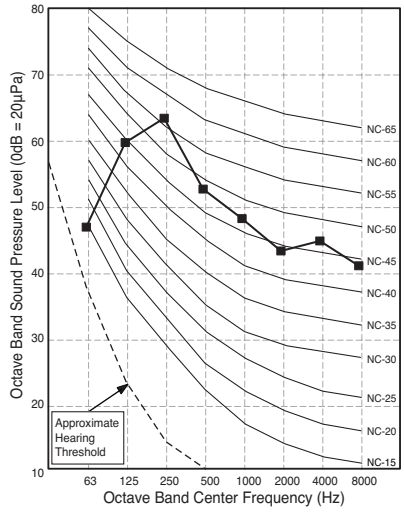
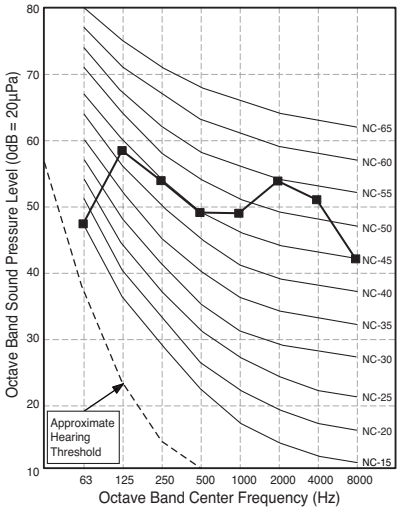


# 9. Sound Levels



## ARWN160BAS4

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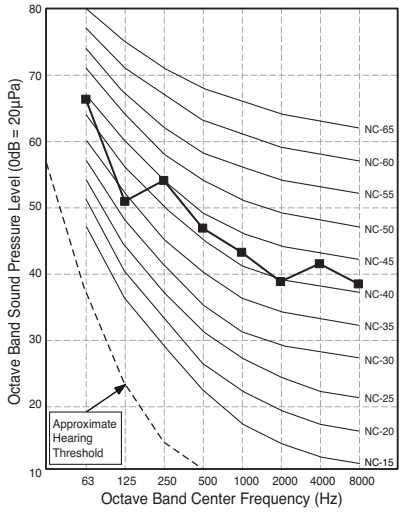


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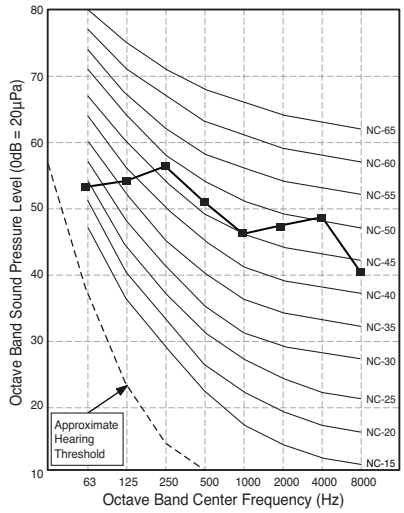


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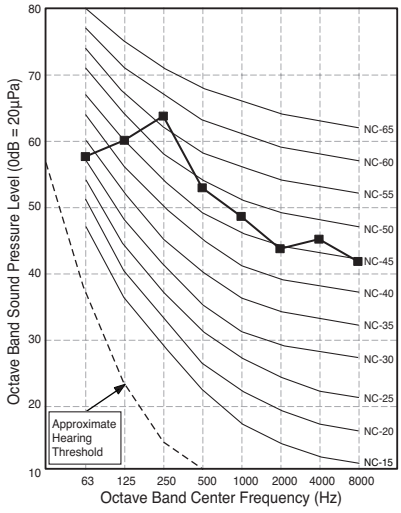


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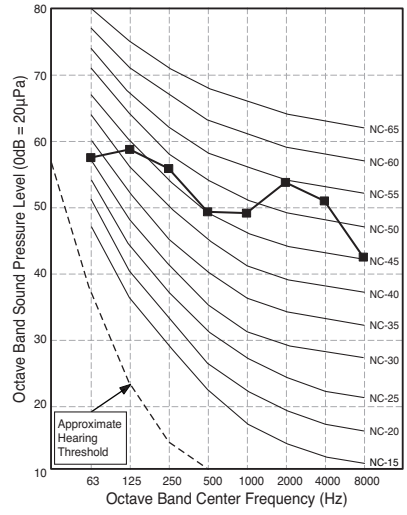


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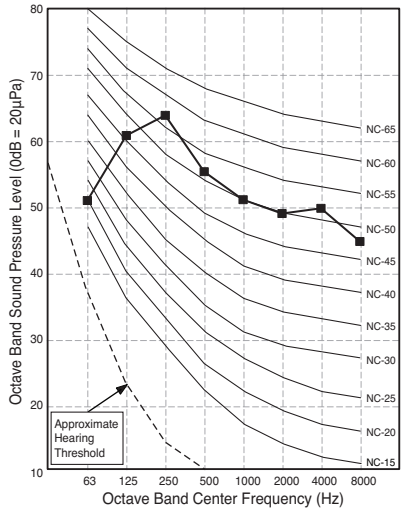


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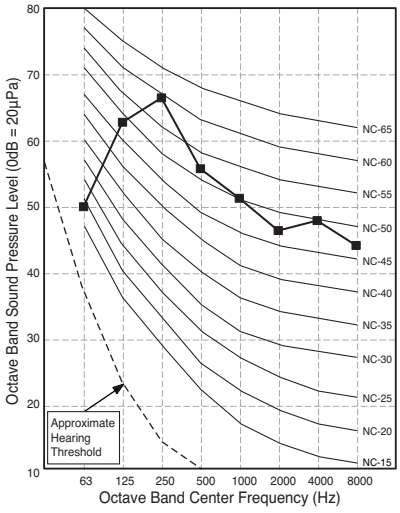


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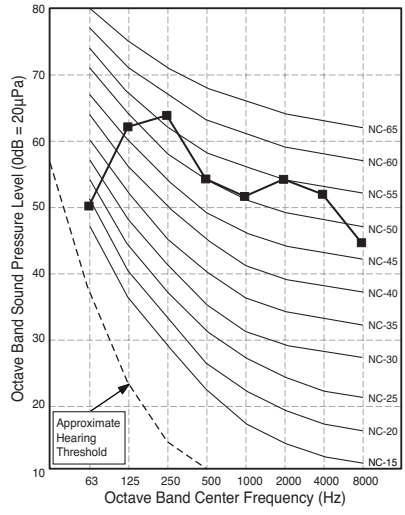


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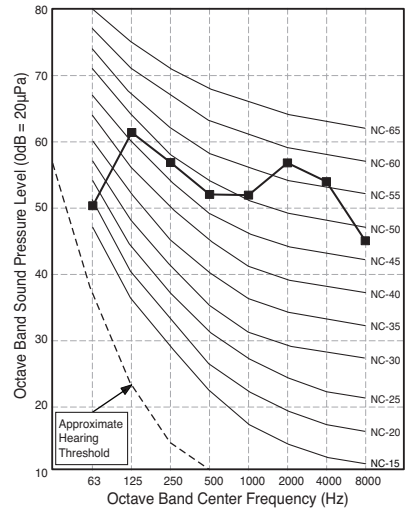
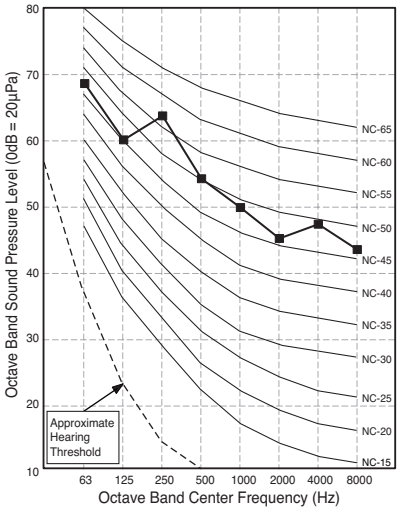


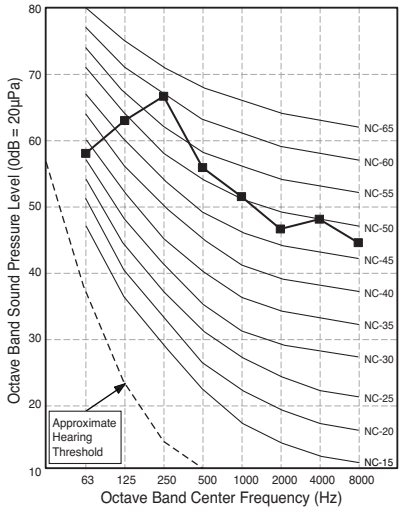
# 9. Sound Levels



## ARWN340BAS4




## ARWN360BAS4

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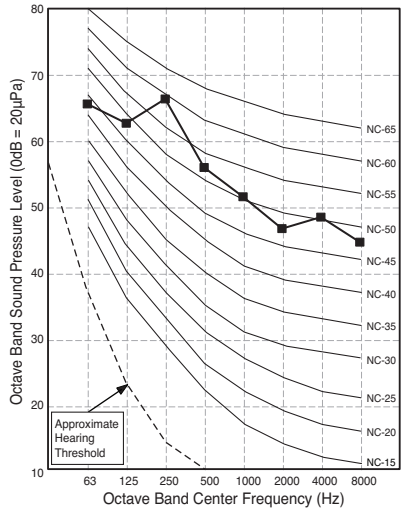


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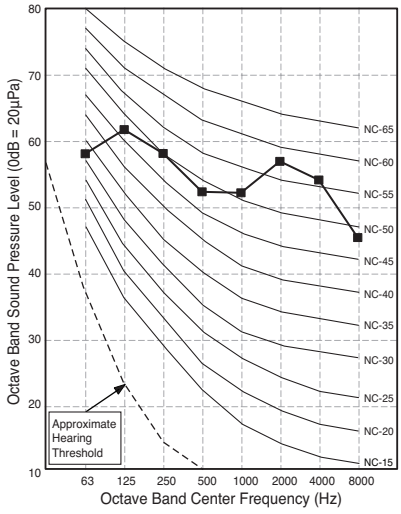


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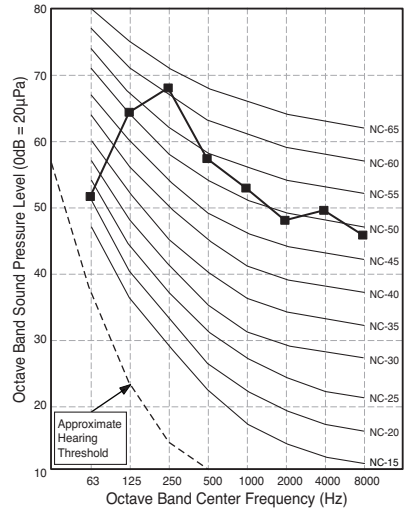


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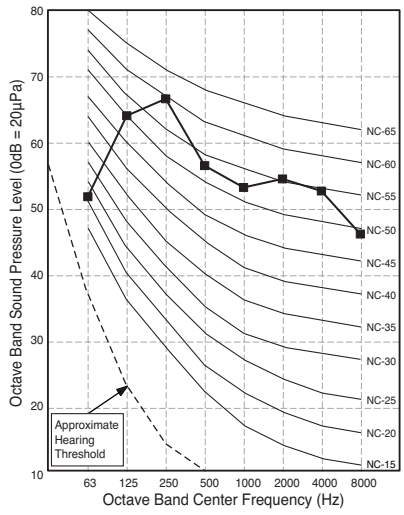


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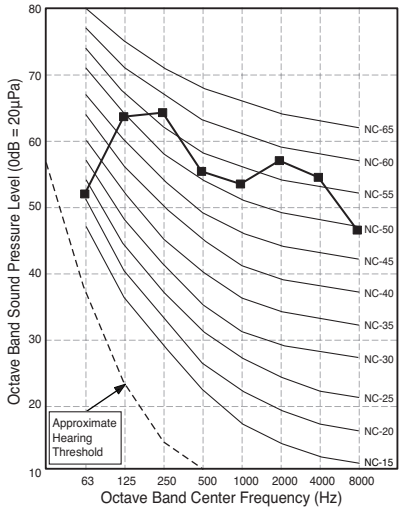


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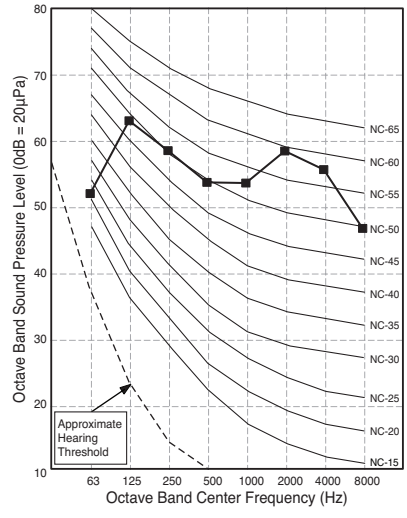
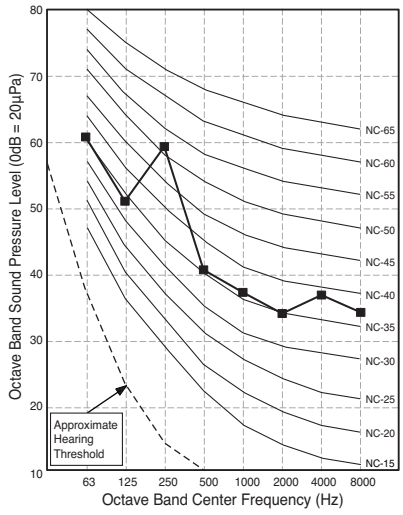


# 9. Sound Levels



## ■ Heating

### ARWN080BAS4

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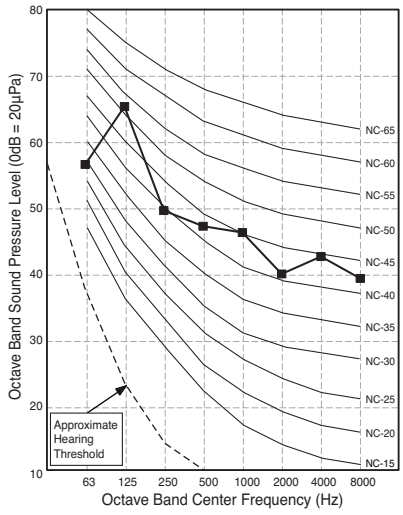


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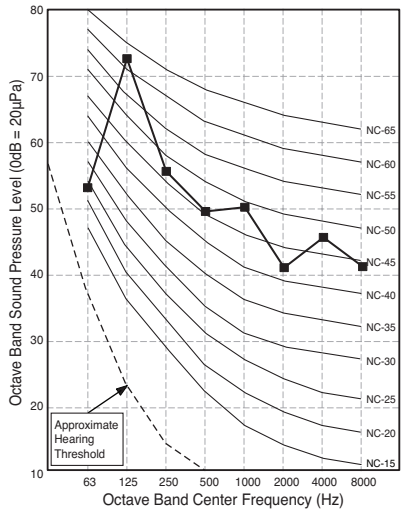


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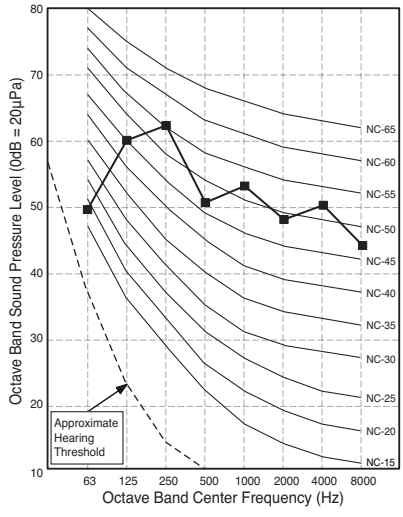


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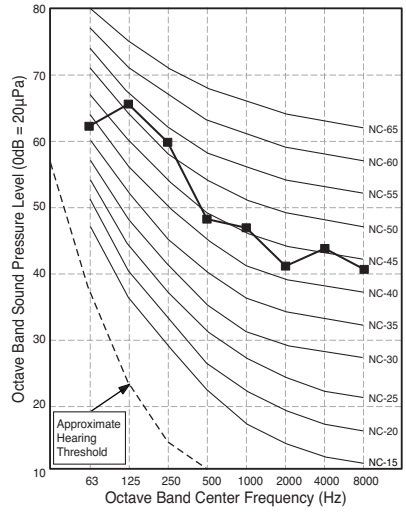


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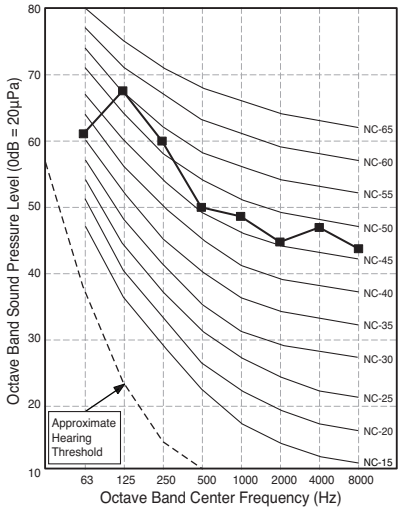


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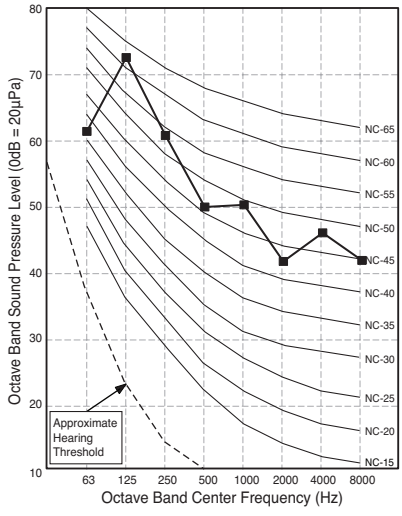


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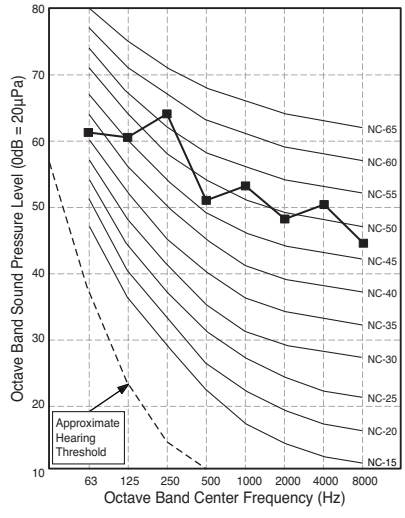
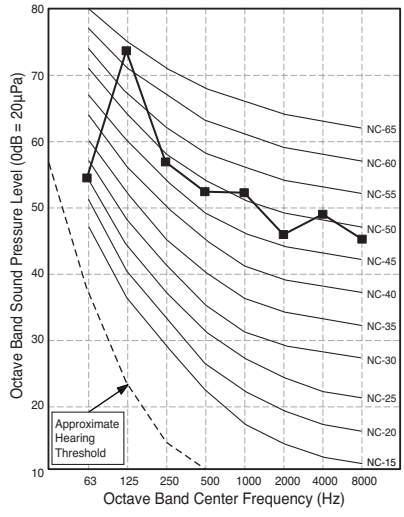


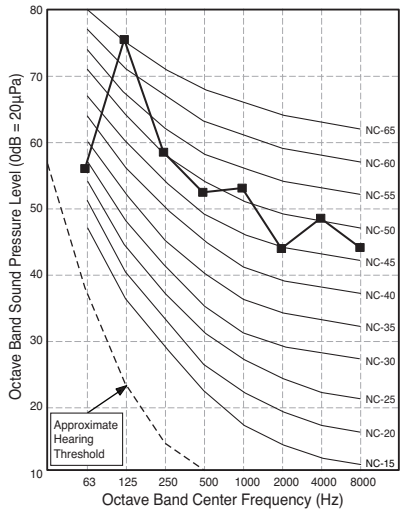

### ARWN260BAS4



# 9. Sound Levels



## ARWN280BAS4

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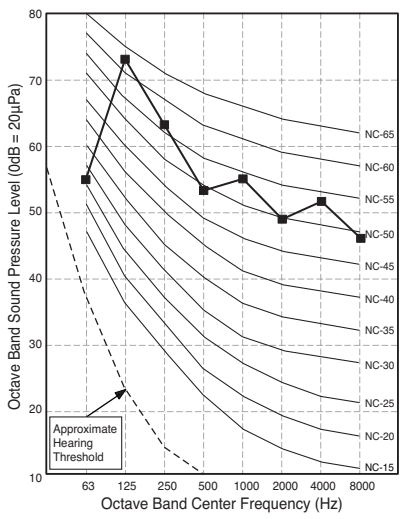


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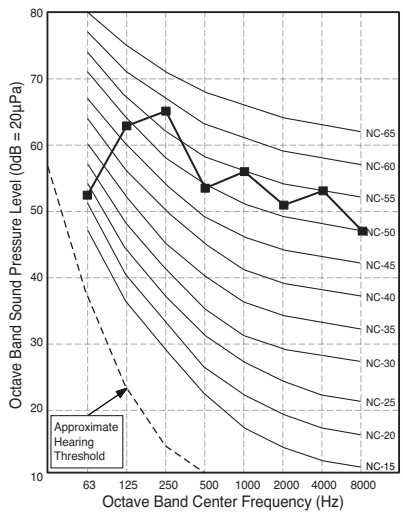


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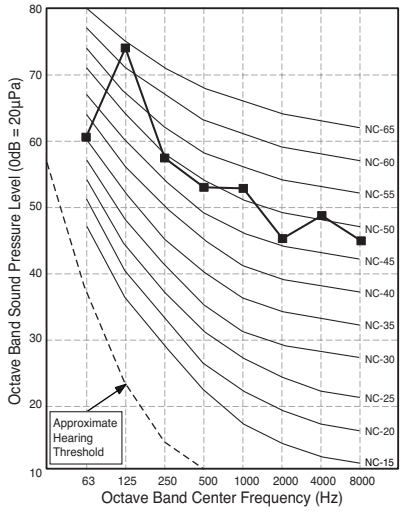


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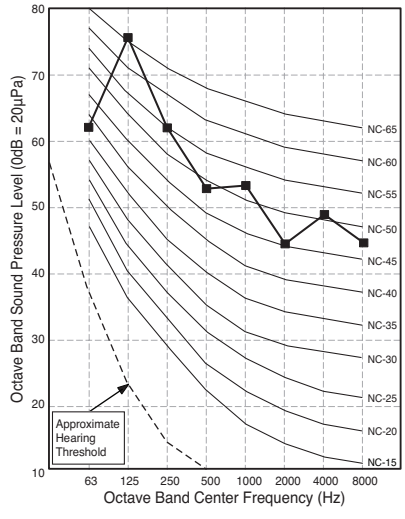


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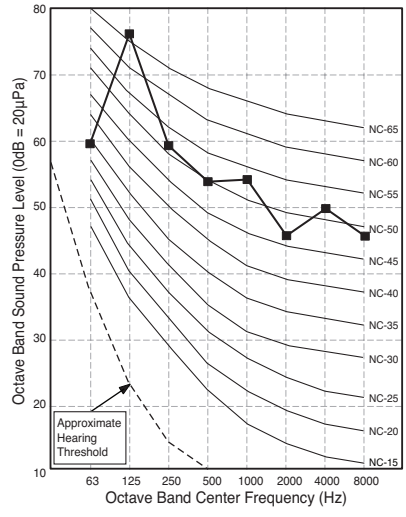


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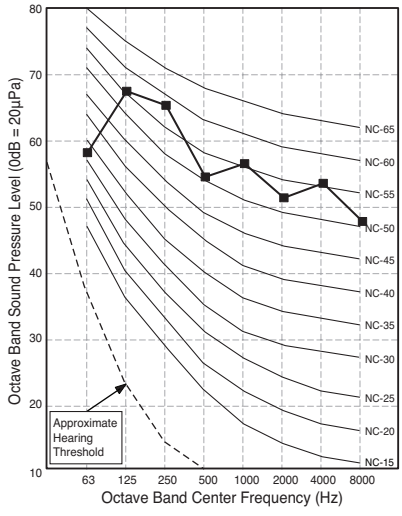


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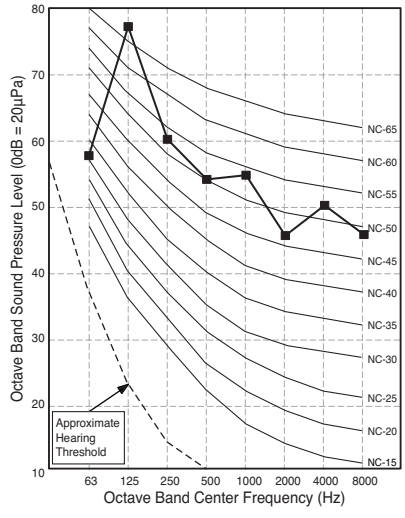


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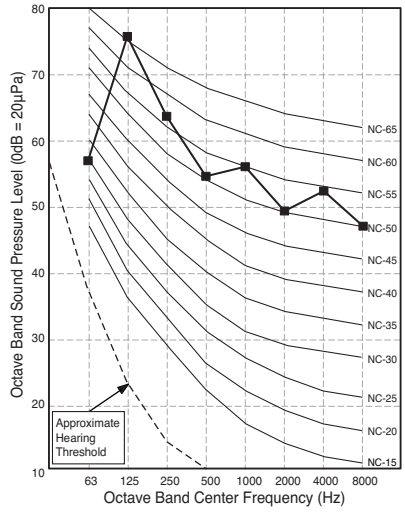
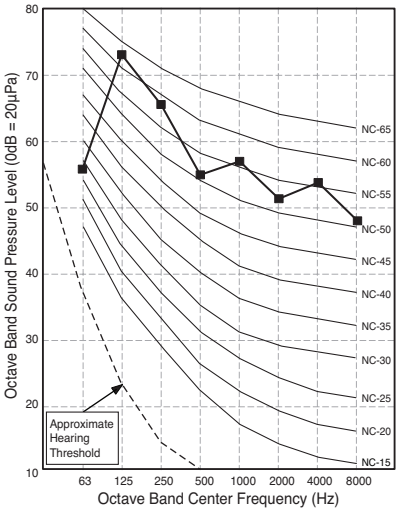


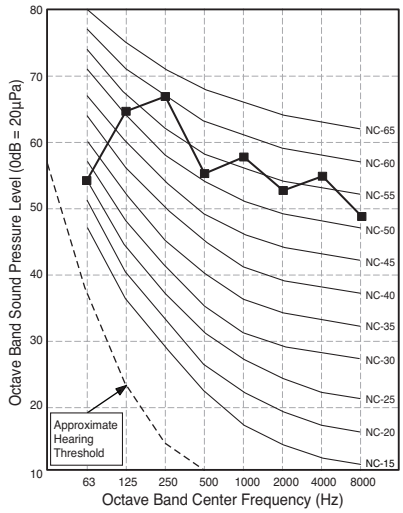
# 9. Sound Levels



**ARWN460BAS4**

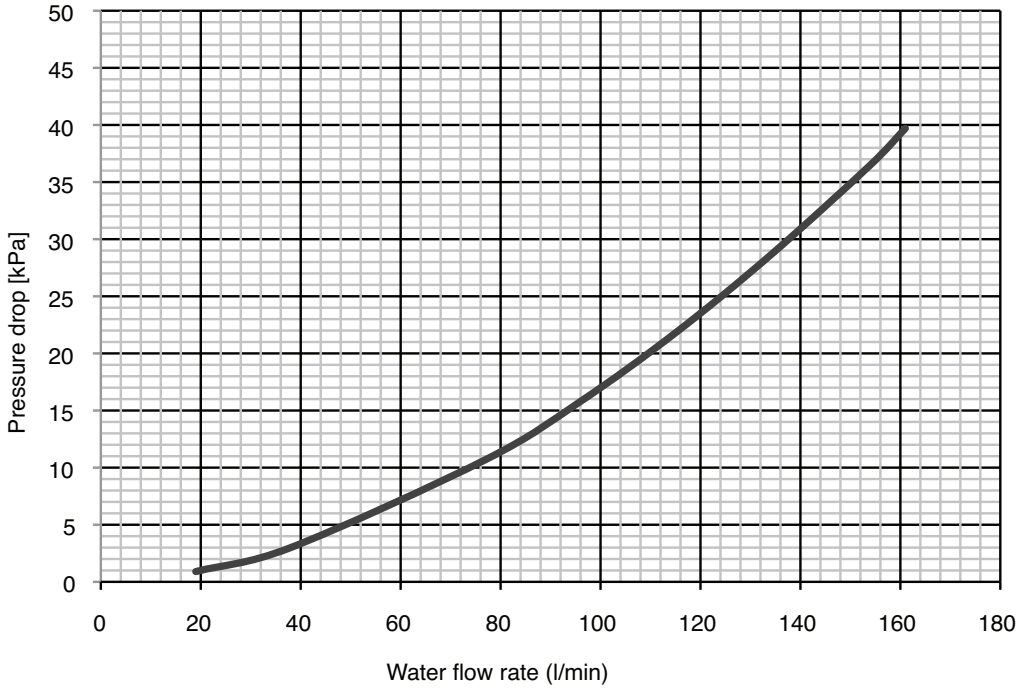



**ARWN480BAS4**



# 10. Head loss by Water flow

## ■ ARWN080BAS4, ARWN100BAS4, ARWN140BAS4, ARWN160BAS4



MULTI V™ WATER IV

# Installation of Outside Units

1. Alternative Refrigerant R410A
2. Select the Best Location
3. Installation Space
4. Water Control
5. Lifting Method
6. Installation
7. Device protection unit
8. Refrigerant Piping System
9. Y Branch and Header Branch Pipe type
10. Electrical Wiring
11. Cooling tower applied method
12. Test Run
13. Water Solenoid Valve Control
14. Variable Water Flow Valve Control KIT (Accessory)

**Appendix information**

**MFL68359801_01G**
**April / 2020**

MULTI V™ WATER IV

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**Appendix information**

**MFL68359801_01G**
**April / 2020**

# 1. Alternative Refrigerant R410A

• The refrigerant R410A has the property of higher operating pressure in comparison with R22.
Therefore, all materials have the characteristics of higher resisting pressure than R22 ones and this characteristic should be also considered during the installation.
R410A is an azeotrope of R32 and R125 mixed at 50:50, so the ozone depletion potential (ODP) of R410A is 0.

**⚠ CAUTION**

- The wall thickness of the piping should comply with the relevant local and national regulations for the designed pressure 3.8MPa
- Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in its gaseous state, its composition changes and the system will not work properly.
- Do not place the refrigerant container under the direct rays of the sun to prevent it from exploding.
- For high-pressure refrigerant, any unapproved pipe must not be used.
- Do not heat pipes more than necessary to prevent them from softening.
- Be careful not to install wrongly to minimize economic loss because it is expensive in comparison with R22.

# 2. Select the Best Location

• Select space for installation outside unit, which will meet the following conditions.
• With strength which bears weight of unit
• With space for air passage and service work
Don't install the unit at the space where generation, inflow, stagnation, and leak of combustible gas is expected.
• Avoid unit installation in a place where acidic solution and spray (sulfur) are often used.
• Location with no leakage of combustible gas
• Recommend the outside unit to be installed within 0~40°C.
• Location with installation or service work space (Refer to required space)
• Do not use the outside unit under any special environment where oil, steam and sulfuric gas exist.
• Install in a separate machine room not exposed to external air
- Establish an anti-freeze plan for the water supply when the product is stopped during the winter.
- Install the product so that the noise from the machine room is not transferred outsides
• The floor of the machine room must be water proof.
• Drainage must be installed in the machine room to process the water drainage.
• Install a floor slope to make the drainage smooth.
• Avoid installing the outside unit in the location with following conditions.
• Location where corrosive gas such as acidic gas is generated. (It may cause the refrigerant leakage by corrosion of the pipe.)
• Location where electromagnetic waves happen. (It may cause the abnormal operation by control parts disorder.)
• Location to be able to leak the combustible gas
• Location with carbon fiber or combustible dust.
• Location with the combustible material like thinner or gasoline. (It may cause a fire by leaking the gas near the product.)

**⚠ CAUTION**

**1. Do not install Multi V water outside. Always install ventilated indoors.**

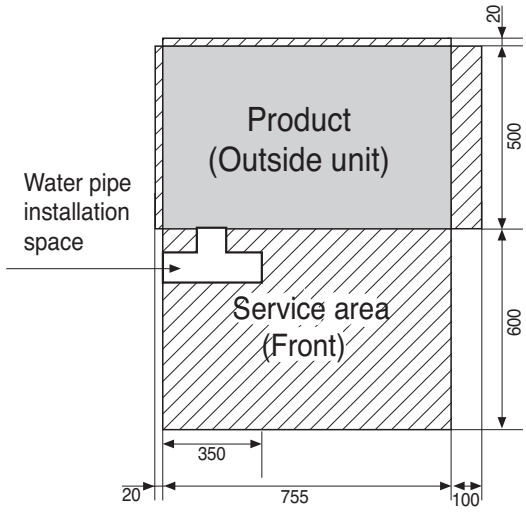
**2. Inverter product may generate electric noise. Keep the body from computer, stereo etc. at enough distance. Specially leave space from indoor remote controller to shoes electric devices at the above 3m in weak electric wave area. Insert the power cable and other wire into separate conduit.**

# 3. Installation space

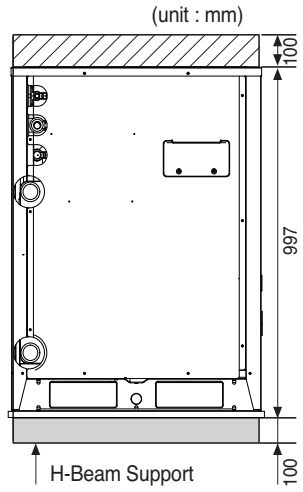
## 3.1 Individual Installation

Required the minimum space as shown below for installation and check.
If the space is not fit on this drawing, consult with LG.

: Service area




<Top View>

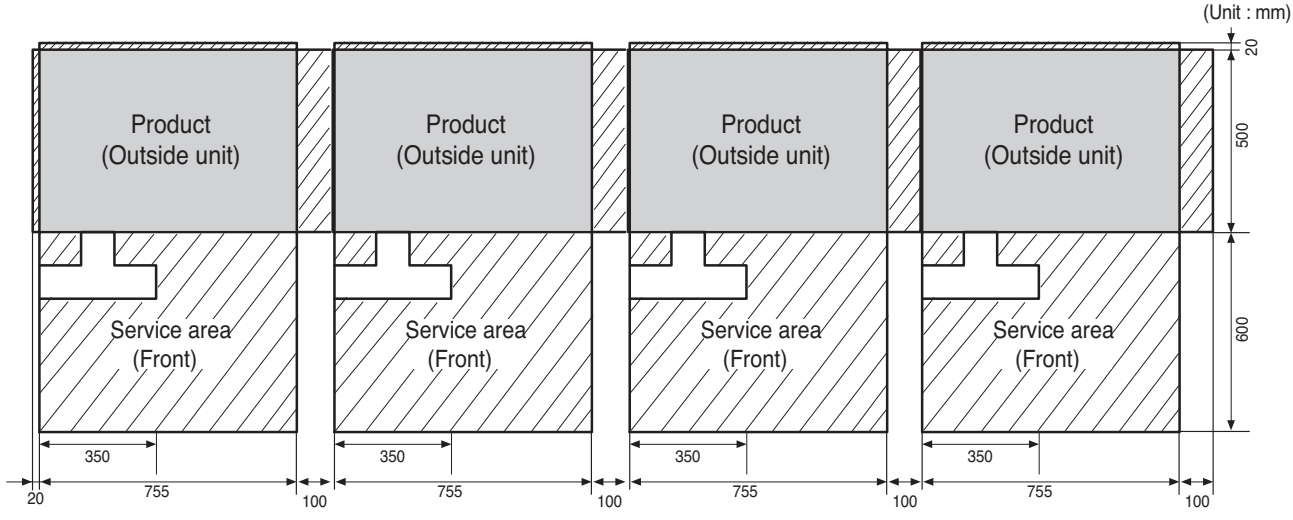



<Front View>

## 3.2 Collective / Continuous Installation

Space required for collective installation and continuous installation as shown below considering passage for air and people.

: Service area



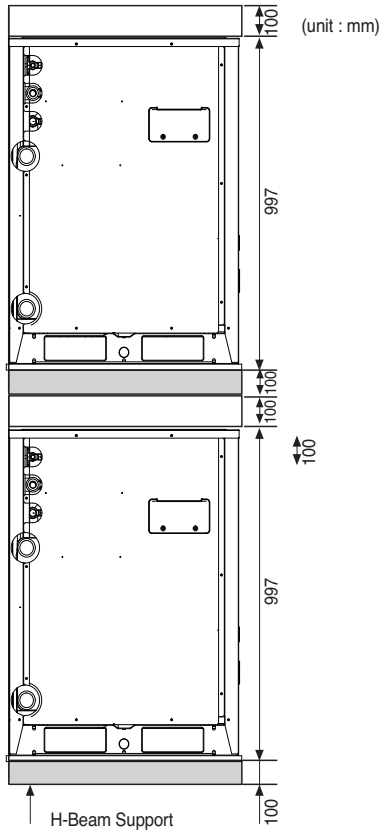

<Top view>

* In case of the water pipe passing side product, please make sufficient service place to avoid occurring between water pipe and product side.
* Maximum number of connectable units could be different in accordance with model line up of target region.

## 3.3 Two Layer Installation

Space required for two layer installation as shown below considering passage for air and people.

▨: Service area




<Front View>

# 4. Water control

## 4.1 Water control

- Keep the water temperature between 10~45°C. Other it may cause the breakdown.
  - Standard water supply temperature is 30°C for Cooling and 20°C for heating.
- Properly control the water velocity. Otherwise it may cause the noise, pipe vibration or pipe contraction, expansion according to the temperature. Use the same water pipe size connected with the product or more.
- Refer to the water source pipe diameter and water velocity table below. As the water velocity is fast, air bubble will increase.

| Diameter (mm) | Velocity range (m/s) |
|---|---|
| < 50 | 0.6 ~ 1.2 |
| 50 ~ 100 | 1.2 ~ 2.1 |
| 100 < | 2.1 ~ 2.7 |

- Be careful of the water purity control. Otherwise it may cause the breakdown due to water pipe corrosion. (Refer to 'Standard Table for Water Purity Control')
- In case the water temperature is above 40°C, it is good to prevent the corrosion by adding The anticorrosive agent.
- Install the pipe, valve and gauge sensor in the space where it is easy to maintain. Install the water valve in the low position for drain, if required.
- Be careful not to let air in. If so, the water velocity will be unstable in the circulation, pump efficiency will also decrease and may cause the piping vibration. Therefore, install the air purge where it may generate the air.
- Choose the following anti freezing methods. Otherwise, it will be dangerous for the pipe to break in the winter.
  - Circulate the water with the pump before dropping the temperature.
  - Keep the normal temperature by boiler.
  - When the cooling tower is not operated for a long time, drain the water in the cooling tower.
  - Use an anti-freeze(For using an anti freeze, change the DIP switch on main PCB in outside unit.)
  - Refer to the additive amount about freezing temperature as in the table given below.

| Anti freeze type | Minimum temperature for anti freezing (°C) | | | | | |
|---|---|---|---|---|---|---|
| | 0 | -5 | -10 | -15 | -20 | -25 |
| Ethylene glycol (%) | 0 | 12 | 20 | 30 | - | - |
| Propylene glycol (%) | 0 | 17 | 25 | 33 | - | - |
| Methanol (%) | 0 | 6 | 12 | 16 | 24 | 30 |

- In addition to anti freeze, it may cause the change of the pressure in the water system and the low performance of the product.
- Make sure to use the closed cooling type tower.
  When applying the open type cooling tower, use a middle heat exchanger to make the water supply system a closed type system.

## 4.2 Standard table for water purity control

The water may contain many foreign substances and hence may influence the performance and lifetime of the product due to the corrosion of the condenser and water pipe. (Use water source that complies with the below standard table for water purity control.)

If you use water supply other than the tap water to supply the water for the cooling tower, you must do a water quality inspection.

- If you use the closed cooling tower, the water quality must be controlled in accordance with the following standard table.
  If you do not control the water quality in accordance with the following standard water quality table, it can cause performance deterioration to the air conditioner and severe problem to the product

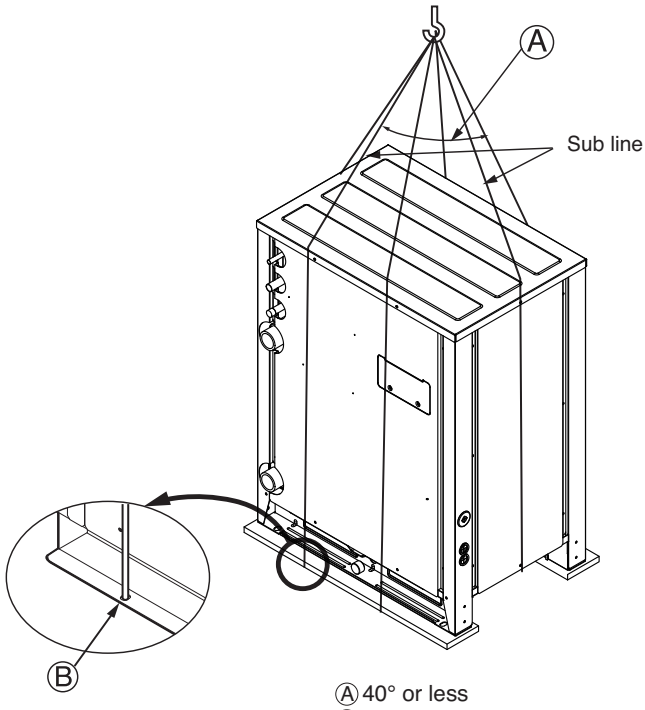
| Items | Closed type | | Effect | |
|---|---|---|---|---|
| | Circulating water | Supplemented water | Corrosion | Scale |
| Basic Item | | | | |
| pH [25C] | 7.0~8.0 | 7.0~8.0 | O | O |
| Conductivity [25C] (mS/m) | Below 30 | Below 30 | O | O |
| Chlorine ions (mg $Cl^-$ /ℓ) | Below 50 | Below 50 | O | - |
| Sulfate ions (mg $SO_4^{2}$ /ℓ) | Below 50 | Below 50 | O | O |
| Acid consumption (pH4.8) (mg $CaCO_3$ /ℓ) | Below 50 | Below 50 | - | O |
| Total hardness (mg $CaCO_3$ /ℓ) | Below 70 | Below 70 | - | O |
| Calcium hardness (mg $CaCO_3$ /ℓ) | Below 50 | Below 50 | - | O |
| Ionic-static silica (mg $SiO_2$ /ℓ) | Below 30 | Below 30 | - | O |
| Reference Item | | | | |
| Iron (mg Fe /ℓ) | Below 1.0 | Below 0.3 | O | O |
| Copper (mg Cu /ℓ) | Below 1.0 | Below 0.1 | O | - |
| Sulfate ion (mg $SO_4^{2}$ /ℓ) | Must not be detected | Must not be detected | O | - |
| Ammonium ion (mg $NH_4^+$ /ℓ) | Below 0.3 | Below 0.1 | O | - |
| Residual chlorine (mg Cl /ℓ) | Below 0.25 | Below 0.3 | O | - |
| Free carbon dioxide (mg $CO_2$ /ℓ) | Below 0.4 | Below 4.0 | O | - |
| Stability index | - | - | O | O |

## [Reference]

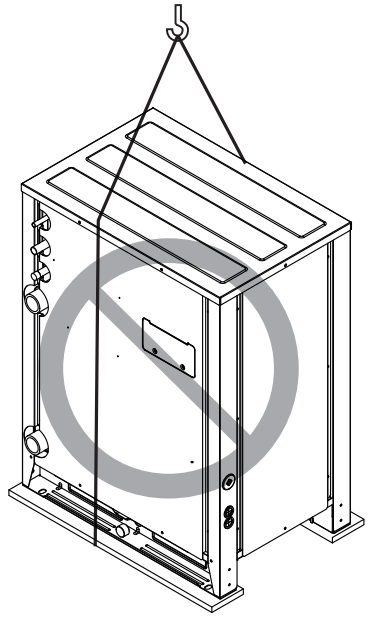
(1) The "O" mark for corrosion and scale means that there is possibility of occurrence.
(2) When the water temperature is 40°C or above or when uncoated iron is exposed to the water, it can result in corrosion. Therefore adding anti-corrosion agent or removing the air can be very effective.
(3) In case of using the closed type cooling tower, the cooling water and supplementing water must satisfy the water quality criteria of closed type system in the table.
(4) Supplementing water and supplied water must be supplied with tap water, industrial water and underground water excluding filtered water, neutral water, soft water etc.
(5) 15 items in the table are general causes of corrosion and scale.

# 5. Lifting method

- When carrying the unit suspended, pass the ropes under the unit and use the two suspension points each at the front and rear.
- Always lift the unit with ropes attached at fours points so that impact is not applied to the unit.
- Attach the ropes to the unit at an angle of 40° or less




Ⓐ 40° or less
Ⓑ Rope supporter

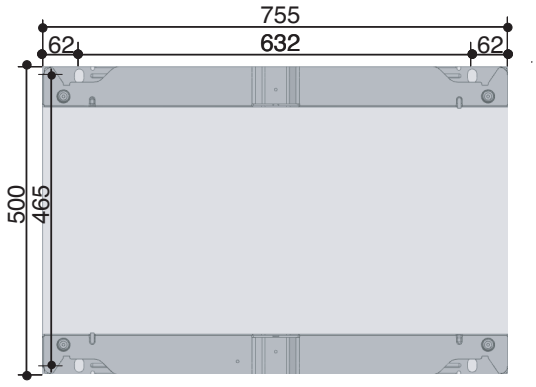


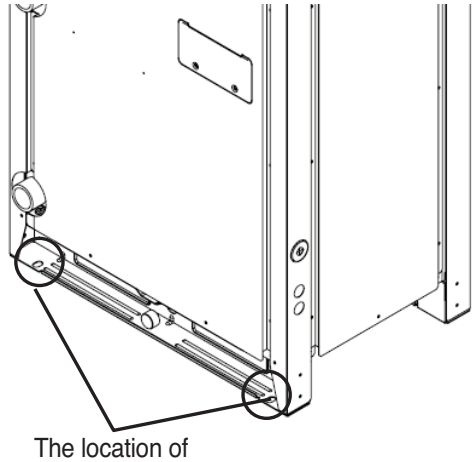
**⚠ WARNING**

## ⚠ CAUTION

- Do not have only one person carry product if it is more than 20kg.
- PP bands are used to pack some products. Do not use them as a means for transportation because they are dangerous.
- Tear the plastic packaging bag and scrap it so that children cannot play with it. Otherwise plastic packaging bag may suffocate children.
- When carrying in outside unit, be sure to support it at four points. Carrying in and lifting with 3-point support may make outside unit unstable, resulting in a fall of it.
- When carrying with the forklift, be careful not to drop the product.

## 6.1 Location of anchor bolt



The location of anchor bolt

**⚠ WARNING**

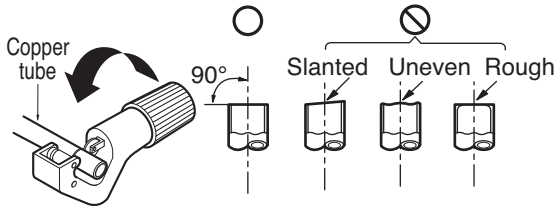
- **Be sure to install unit in a place strong enough to withstand its weight. Any lack of strength may cause unit to fall down, resulting in a personal injury.**
- **Have installation work in order to protect against a strong wind and earthquake. Any installation deficiency may cause unit to fall down, resulting in a personal injury.**
- **Especially take care for support strength of the floor surface, water drain processing (processing of water flown out from the outside unit during operation) and paths of the pipe and wiring when making a base support.**

## 6.2 Preparation of Piping

Main cause of gas leakage is defect in flaring work. Carry out correct flaring work in the following procedure.

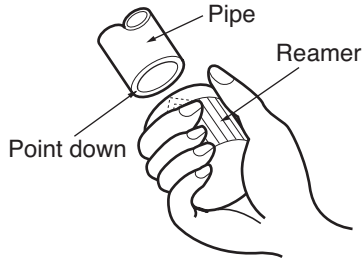
### 1) Cut the pipes and the cable.

- Use the accessory piping kit or the pipes purchased locally.
- Measure the distance between the indoor and the outside unit.
- Cut the pipes a little longer than measured distance.
- Cut the cable 1.5m longer than the pipe length.




### 2) Burrs removal

- Completely remove all burrs from the cut cross section of pipe/tube.
- Put the end of the copper tube/pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the tubing.



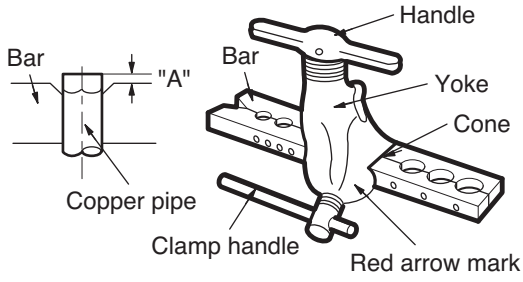

### 3) Flaring work

- Carry out flaring work using flaring tool as shown below.

[Unit:mm]

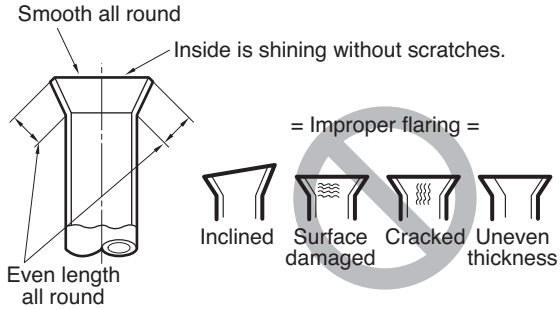
| Indoor unit [kW(Btu/h)] | Pipe | | " A " | |
|---|---|---|---|---|
| | Gas | Liquid | Gas | Liquid |
| ≤5.6(19,100) | Ø12.7 | Ø6.35 | 1.6~1.8 | 1.1~1.3 |
| <16.0(54,600) | Ø15.88 | Ø9.52 | 1.6~1.8 | 1.5~1.7 |
| ≤22.4(76,400) | Ø19.05 | Ø9.52 | 1.9~2.1 | 1.5~1.7 |

Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.




### 4) Check

- Compare the flared work with figure below.
- If flare is noted to be defective, cut off the flared section and do flaring work again



### 5) Pipe connection

1. Follow the pipe path. Bend the pipe more than 3 times in 1 location and do not bend in the opposite direction. (This will strengthen the pipe.)
2. After deforming the pipe, align the union fitting and center of the pipe, and tighten it with the wrench.
3. Connect the pipe to the service valve of the outside unit.
4. After finishing the piping work, check if there is any gas leakage
5. For the flare nut, always use the material that complies with Standard or better.
6. After completing the connection of the pipe, vacuum dry the indoor unit and the connecting pipe. For the vacuum drying, you must use service ports of both the gas and liquid pipes.

| Pipe Size | Tightening Torque | |
|---|---|---|
| (mm) | (N·m) | (kgf·cm) |
| Ø6.35 | 18~25 | 180~250 |
| Ø9.52 | 34~42 | 340~420 |
| Ø12.7 | 55~66 | 550~660 |
| Ø15.88 | 63~82 | 630~820 |
| Ø19.05 | 99~121 | 990~1,210 |

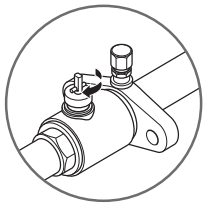
**⚠ CAUTION**

When using two wrenches, tighten at regulated torque

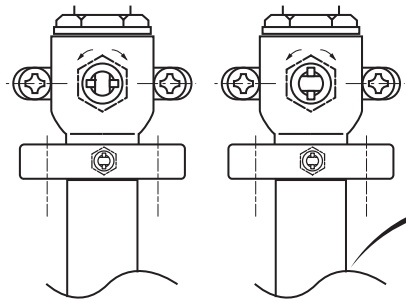
* For the pipe connection, use the method of connecting the end of the pipe to the branch pipe. The refrigerant pipe coming out from the outside unit is branched out at the end and is individually connected to the indoor unit.

**⚠ WARNING**

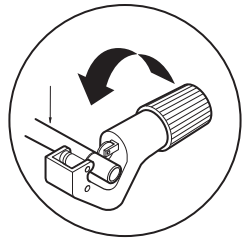
- Always be careful not to leak the refrigerant during the welding.
- When the refrigerant is combusted, it generates a toxic poisonous gas.
- Do not execute the welding work in a closed location.
- Always do a leakage test after welding the pipes.



Open status when both the pipe and the valve are in a straight line.




Cut both the pipe and the valve with a cutter to suit the length
(Don't cut the length of less than 70mm)



**⚠ WARNING**

**After completing work, securely tighten both service ports and caps so that gas does not leak.**

# 6. Installation

* High/low pressure side is the ball valve that is opened and closed by 1/4 rotation

① Pipe joint (auxiliary parts): Securely perform brazing with a nitrogen blow into the service valve port.(Releasing pressure : 0.02 MPa or less)

② Flare nut: Loose or tighten flare nut by using the wrench with both ends. Coat the flare connection part with oil for the compressor.

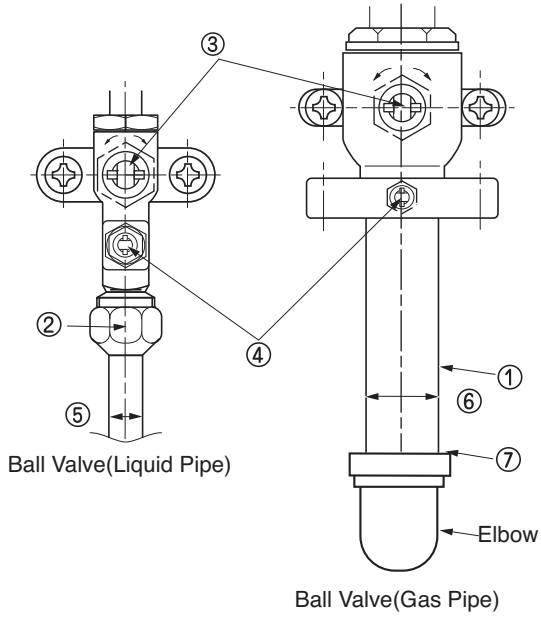
③ Cap: Remove caps and operate valve, etc. After operation, always reattach caps (tightening torque of valve cap: 25Nm (250kg-cm) or more).
(Don't remove the internal part of the port)

④ Service port: Make the refrigerant pipe vacuum and charge it using the service port. Always reattach caps after completing work (tightening torque of service cap: 14Nm (140kg-cm) or more).

⑤ Liquid pipe

⑥ Gas pipe

⑦ Elbow joint (field supply)

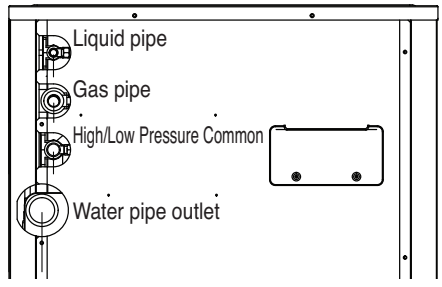



## ⚠ CAUTION

After installing the pipe, block the pipe escape of front and side panel. (It can cause mouse or other animals to enter and cause damage to the wire.)

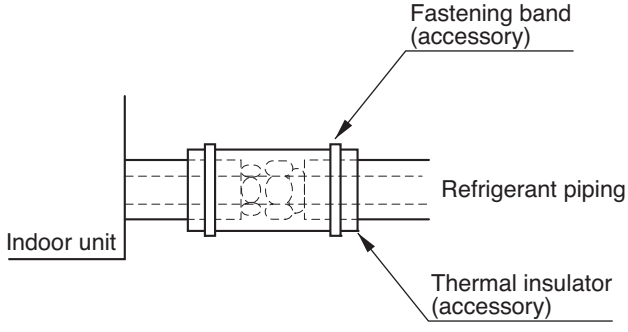


❊ Remove the front panel before pipe connection
❊ Must check the pipe (liquid pipe, gas pipe, high/low pressure common pipe) before pipe connection




### 6) Heat Insulation

1. Use the heat insulation material for the refrigerant piping which has an excellent heat-resistance (Over 120°C)
2. When installing in a humid environment, use thicker heat insulation material.
   * Consult with LG on detailed technical specification.



### 7) Standard refrigerant pipe EPDM heat insulation material thickness

[Unit:mm]

| Classification | | Air conditioned location | | Non-air conditioned location | |
|---|---|---|---|---|---|
| | | Note1) General location | Note2) Special location | Note3) General location | Note4) Negative condition |
| Liquid pipe | Ø6.35 | Above t9 | Above t9 | Above t9 | Above t9 |
| | Ø9.52 | | | | |
| | Above Ø12.7 | Above t13 | Above t13 | Above t13 | Above t13 |
| Gas pipe | Ø9.52 | Above t13 | Above t19 | Above t19 | Above t25 |
| | Ø12.7 | | | | |
| | Ø15.88 | | | | |
| | Ø19.05 | | | | |
| | Ø22.22 | | | | |
| | Ø25.4 | | | | |
| | Ø28.58 | Above t19 | | | |
| | Ø31.75 | | Above t25 | Above t25 | |
| | Ø34.9 | | | | |
| | Ø38.1 | | | | |
| | Ø44.45 | | | | |

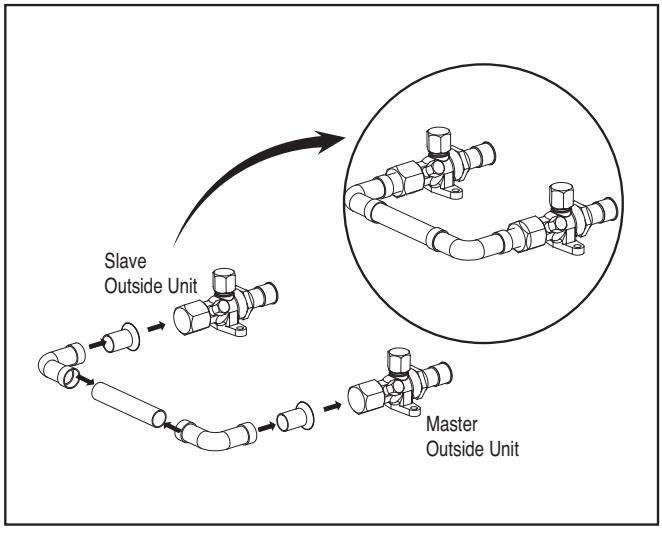
**Note 1)** General location: When the pipe passes through indoors in which the indoor unit is operated
- Apartment, classroom, office, mall, hospital, office-tel etc.

**Note 2)** Special location
1. When the location is air conditioned but has severe temperature/humidity difference due to high ceiling
   - Church, auditorium, theater, lobby etc.
2. When the location is air conditioned but the internal temperature/humidity of the ceiling finishing is high
   - Bathroom/swimming pool locker room etc. (Building with roof ceiling of sandwich assembly type)

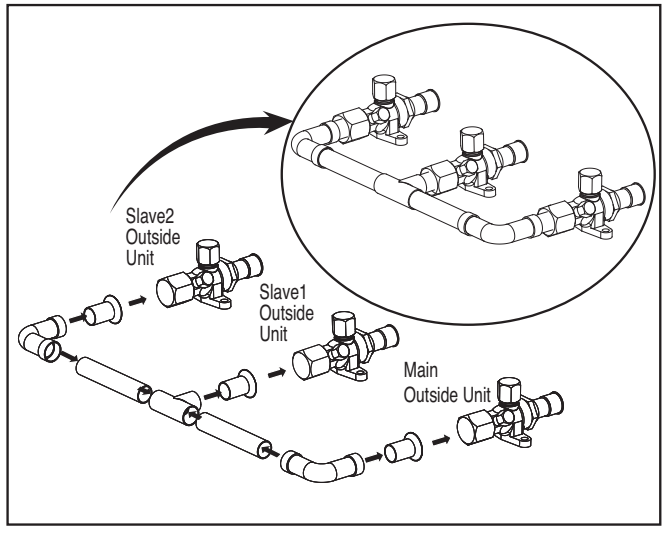
**Note 3)** General location: When the pipe passes indoors where the indoor unit is not operated
- Hall way etc. (Dormitory, school, office-tel)

**Note 4)** Negative condition: When below conditions 1 and 2 are met.
1. When the pipe passes indoors where the indoor unit is not operated
2. When the humidity is high, regionally, and there is no air flow in the pipe passing area
   - When installing the outside unit within the outside pipe tray or at a location where it is ok to have freezes, apply 13t.
   - If you are not sure with the selection of heat insulation material, coordinate with the supervision or HQ.
   - The thickness of the above heat insulation material is based on the heat conductivity of 0.088W/m°C.

### 8) Connection of high/low pressure common pipe




**2 Outside Units**

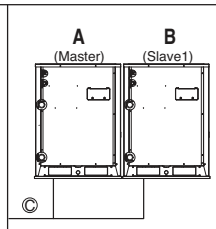
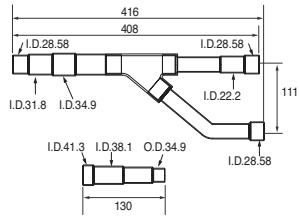
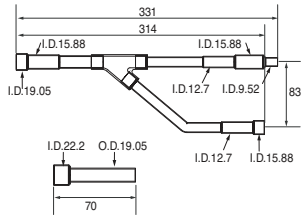
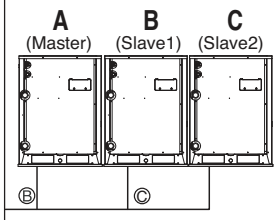
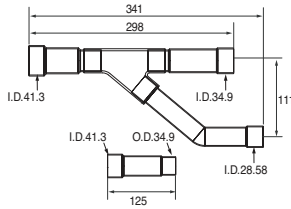
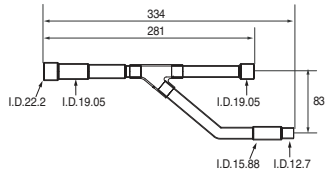
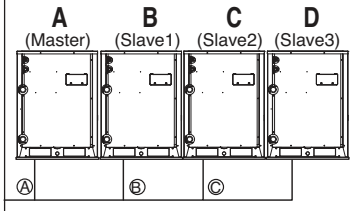
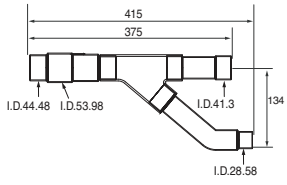
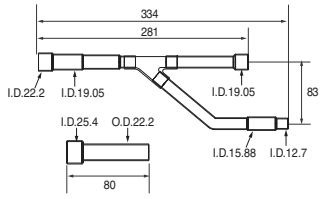



**3 Outside Units**

1. For the high/low pressure common pipe, connect both master outside unit and slave outside units to the pipe by using elbows.
2. For cutting the pipe, connect the high/low pressure common pipe after removing burrs, dusts and foreign material within the pipe. Otherwise, the product may not operate due to sludge within the pipe.
3. For the working part leakage test, apply the nitrogen gas pressure of 3.8MPa (38.7kgf/cm$^2$).
4. The vacuum criteria is to maintain the vacuum level to less than 5 Torr 1 hour after reaching 5 Torr. (Execute the vacuum work again when it is below the criteria.)
5. Open the valve with the hexagon wrench.

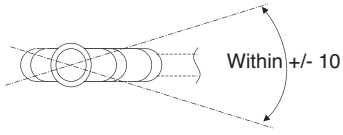
### 9) Connecting branch pipe between outside units

[Unit:mm]

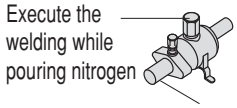
| Outdoor units | | Model | Gas pipe | Liquid pipe |
|---|---|---|---|---|
| 2 Unit |  | Ⓒ ARCNN21 |  |  |
| 3 Unit |  | Ⓑ ARCNN31 |  |  |
| 4 Unit |  | Ⓐ ARCNN41 |  |  |

* Maximum number of connectable units could be different in accordance with model line up of target region.

* Install the branch pipe between outside units so that the outlet pipe is parallel to the surface.




Viewed from point A
in direction of arrow




Do not cut for
70mm or less

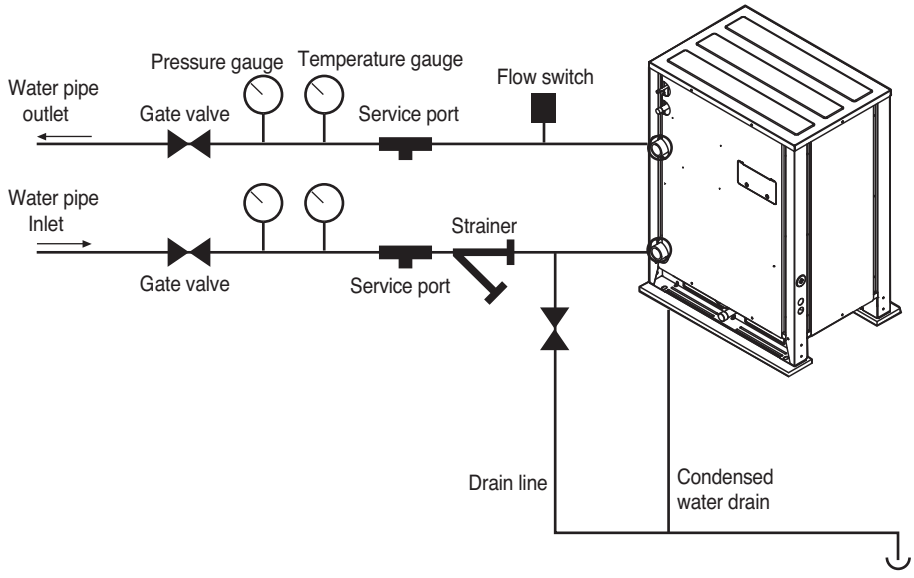
## ⚠ CAUTION

**When installing the branch pipe vertically between the outside units, the refrigerant can be uneven between the outside units, leading to compressor burn and reduced capacity**

### 10) Installation of water pipe

**1. Water pipe system diagram**

- The water pressure resistance of the water pipe system of this product is 1.98MPa
- When the water pipe passes indoors, make sure to execute heat insulation on the pipe so that water drops do not form on the outer side of the water pipe.
- The size of the drain pipe must be equal to or larger than the diameter of the connecting product.
  - Always install a trap so that the drained water does not back flush.
- Always install a strainer (50Mesh or above) at the entrance of the water pipe. (When sand, trash, rusted pieces get mixed into the water supply, it can cause problems to the product due to blocking)
  - If On/Off valve is applied, by interlocking with outside unit, it can save the energy consumption of pump by blocking the water supply to the outside unit not operating.
    Select appropriate valve and install on site if necessary.
- Install a pressure gauge and temperature gauge at the inlet and outlet of the water pipe.
- Flexible joints must be installed not to cause any leakage from the vibration of pipes.
- Install a service port to clean the heat exchanger at the each end of the water inlet and outlet.
- For the components of the water pipe system, always use components above the designed water pressure.
- For protecting the heat exchanger, it should be installed the flow switch.




**⚠ CAUTION**

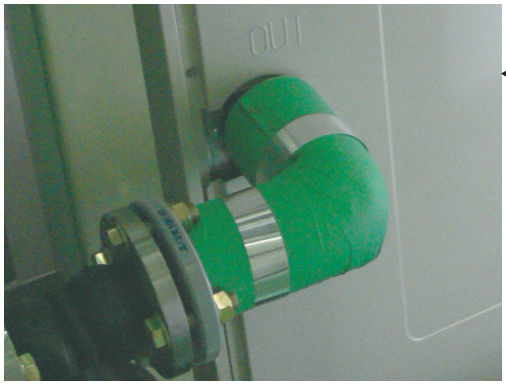
**Do not directly connect the drain outlet to the water pipe outlet.**
**(It can cause problems to the product.)**

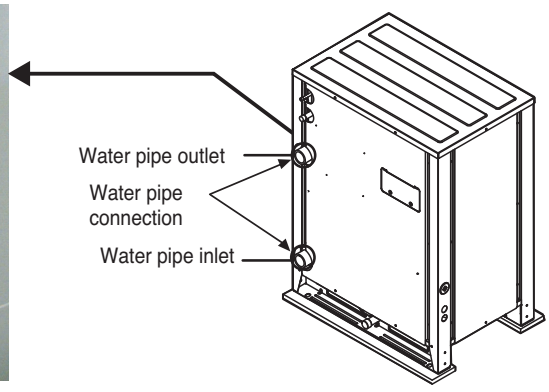
# 6. Installation

**2. Water pipe connection**

- The water pipe should be the same size of the connection on the product or more.
- If necessary install the insulation material in the water pipe inlet/outlet to prevent water drop, freeze and to save energy. (Use the above 20mm thickness Pe insulation material.)
- Tightly connect the socket to the water pipe refer to below table for recommended specification. (Too much torque may cause the damage of the facility.)

| Pipe thickness | | Shear stress | | Tensile stress | | Bending moment | | Torque | |
|---|---|---|---|---|---|---|---|---|---|
| mm | inch | (kN) | (kgf) | (kN) | (kgf) | (N·m) | (kgf·m) | (N·m) | (kgf·m) |
| 12.7 | 1/2 | 3.5 | 350 | 2.5 | 250 | 20 | 2 | 35 | 3.5 |
| 19.05 | 3/4 | 12 | 1,200 | 2.5 | 250 | 20 | 2 | 115 | 11.5 |
| 25.4 | 1 | 11.2 | 1,120 | 4 | 400 | 45 | 4.5 | 155 | 15.5 |
| 31.8 | 1 1/4 | 14.5 | 1,450 | 6.5 | 650 | 87.5 | 8.75 | 265 | 26.5 |
| 38.1 | 1 1/2 | 16.5 | 1,700 | 9.5 | 950 | 155 | 16 | 350 | 35.5 |
| 50.8 | 2 | 21.5 | 2,200 | 13.5 | 1,400 | 255 | 26 | 600 | 61 |



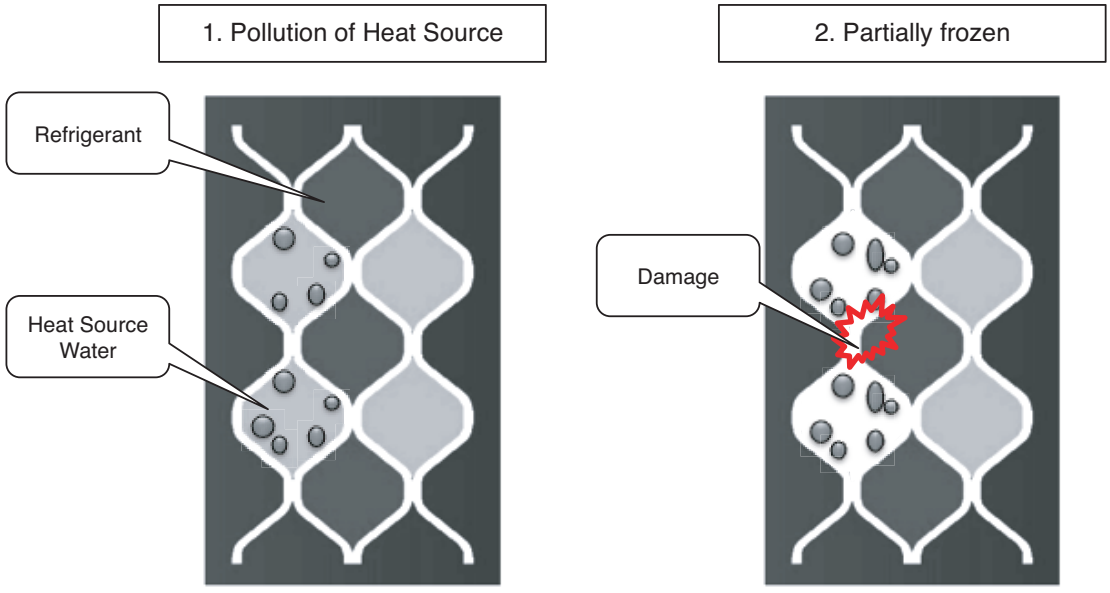



# 7. Device protection unit

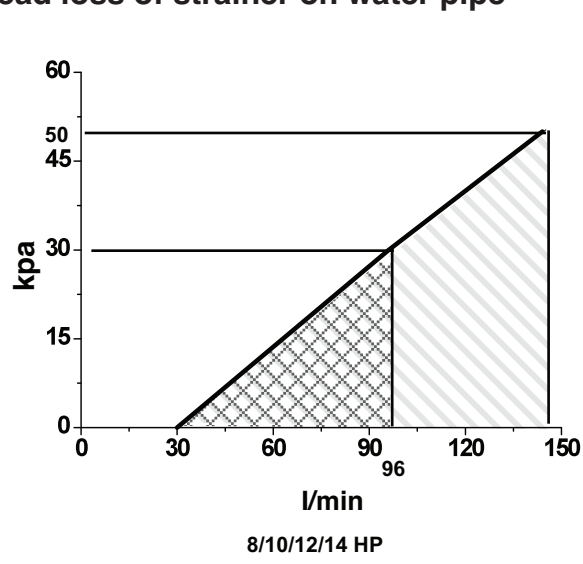
## 7.1 Strainer on water pipe

To protect the water cooling type product, you must install a strainer with 50 mesh or more on the heat water supply pipe. If not installed, it can result in damage of heat exchanger by the following situation.

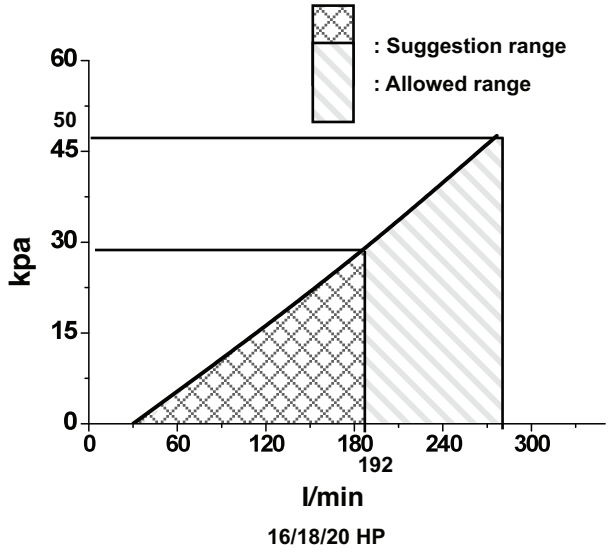
1. Heat water supply within the plate type heat exchanger is composed of multiple small paths.
2. If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
3. When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of the coolant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
4. And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
5. As a result of the damage of the heat exchanger from the freezing, the coolant side and the heat water source side will be mixed to make the product unusable.




### Head loss of strainer on water pipe




8/10/12/14 HP



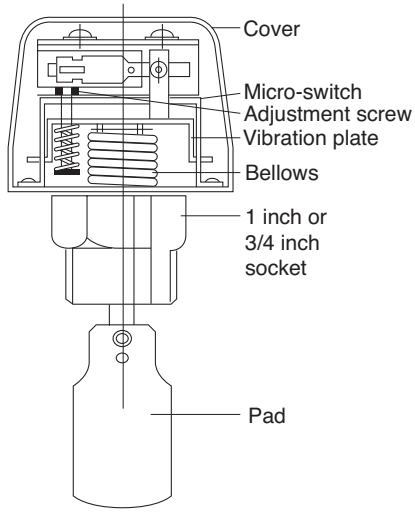

16/18/20 HP

❉ Upper graph is a theoretical value for selection and it may be different according to specification of strainer.
❉ Application for models could be different in accordance with model line up of target region.

# 7. Device protection unit

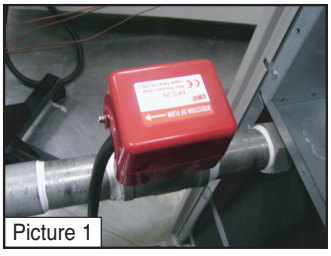
## 7.2 Flow switch work

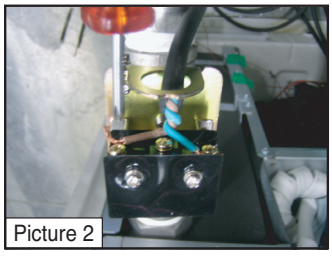
- The flow switch must be installed at the horizontal water pipe of the outside unit outlet connection.
  (Flow switch acts as the 1st protection device when the heat water is not supplied. If a certain level of water does not flow after installing the flow switch, an error sign of CH24 error will be displayed on the product and the product will stop operating.)
- When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product.
  (The minimum flow rate range is 50% of product rated water flow.
  Refer to the specification of each model)
- Select the flow switch with the permitted pressure specification considering the pressure specification of the heat water supply system.
  (Control signal from outside unit is AC 220V.)

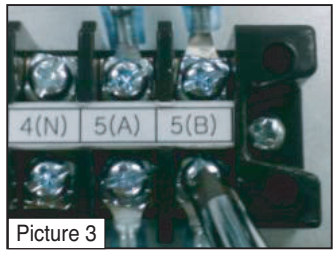



## 7.3 Installation of flow switch

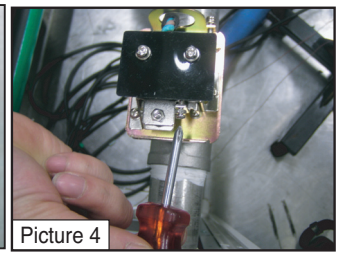
- The flow switch must be installed at the horizontal pipe of the heat water supply outlet of the product and check the direction of the heat water flow before the installation. (Picture 1)
- When connecting the flow switch to the product, remove the jump wire to connect to the communication terminal (5(A) and 5(B)) of the outside unit control box. (Picture 2, 3) (Open the cover of the flow switch and check the wiring diagram before connecting the wires. The wiring method can differ by the manufacturer of the flow switch.)
- If necessary, adjust the flow rate detection screw after consulting with an expert and adjust to the minimum flow rate range. (Picture 4) (Minimum flow rate range of this product is 50%. Adjust the flow switch to touch the contact point when the flow rate reaches 50% of the flow rate.)
  - Refer to the specification of each model.


Picture 1


Picture 2



Picture 3


Picture 4

### ⚠ CAUTION

- If the set value does not satisfy the minimum flow rate or if the set value is changed by the user arbitrarily, it can result in product performance deterioration or serious product problem.
- If the product is operated with the heat water supply not flowing smoothly, it can damage the heat exchanger or cause serious product problems.
- In case of CH24 or CH180 error, there is a possibility that the plate type heat exchanger is partially frozen inside. In this case resolve the issue of partial freezing and then operate the product again. (Cause of partial freezing : Insufficient heat water flux, water not supplied, insufficient coolant, alien particle penetrated inside plate type heat exchanger)
- When the product operates while the flow switch touches the contact point at the flow rate range out of the permitted range, it can cause product performance deterioration or serious product problem.
- Must use the normal closed type flow switch
  - Circuit of outside unit is normal closed type

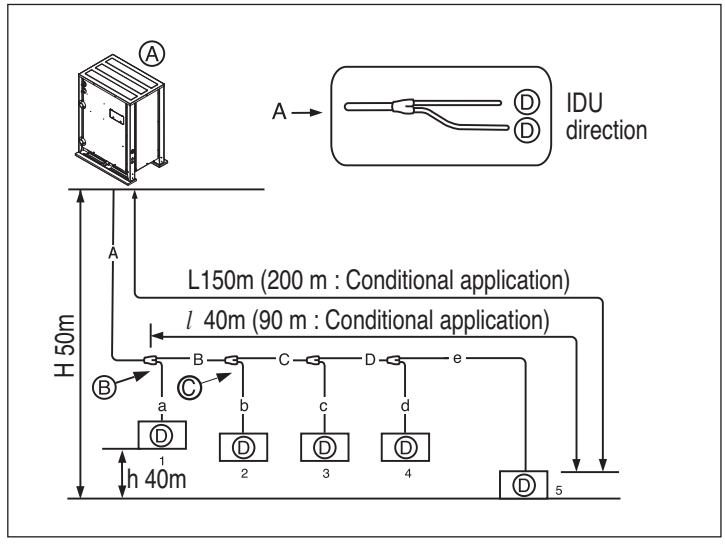
## 8.1 Refrigerant piping system

### Y branch method

**Single outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture

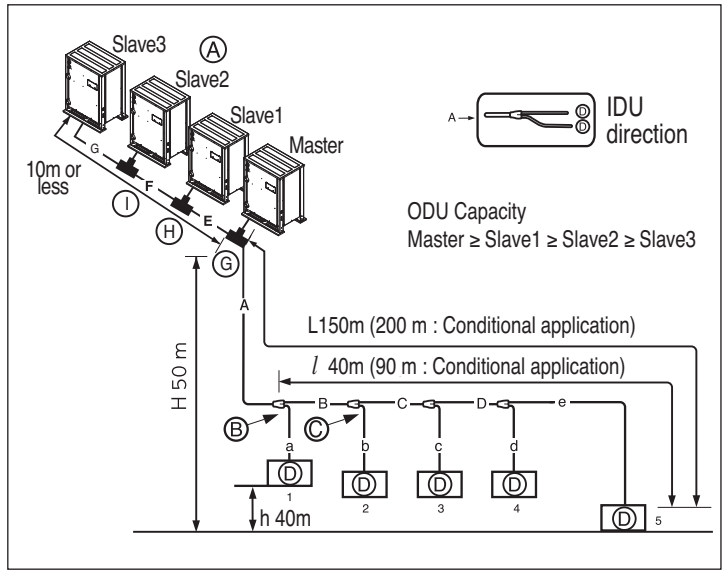



* If it is conditionally installed, refer to (table 1).

**Series outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture
Ⓖ : Outside branch(1st)
Ⓗ : Outside branch(2nd)
Ⓘ : Outside branch(3rd)




* If it is conditionally installed, refer to (table 1).

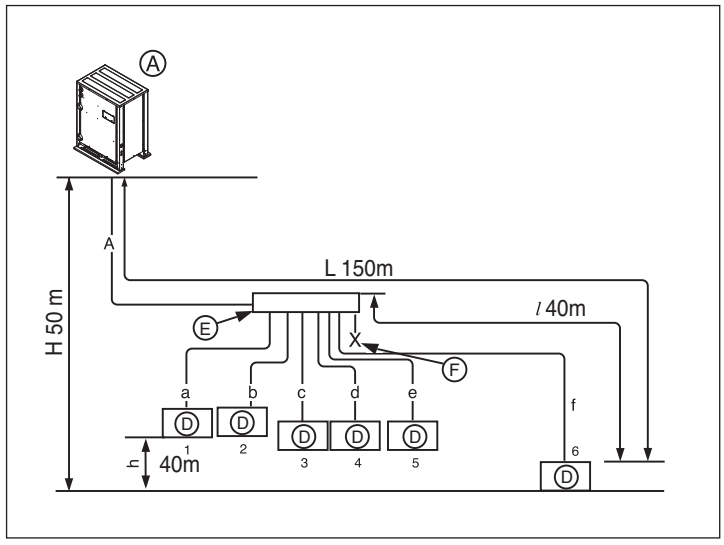
# 8. Refrigerant piping system

## Header Method

**Single outside unit system**

**Example : 6 Indoor Units connected**

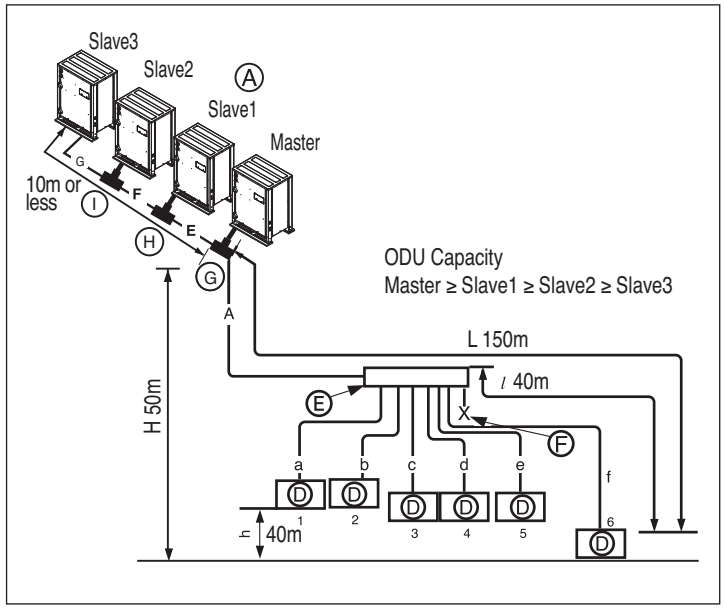
Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture




**Series outside unit system**

**Example : 6 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture
Ⓖ : Outside branch(1st)
Ⓗ : Outside branch(2nd)
Ⓘ : Outside branch(3rd)

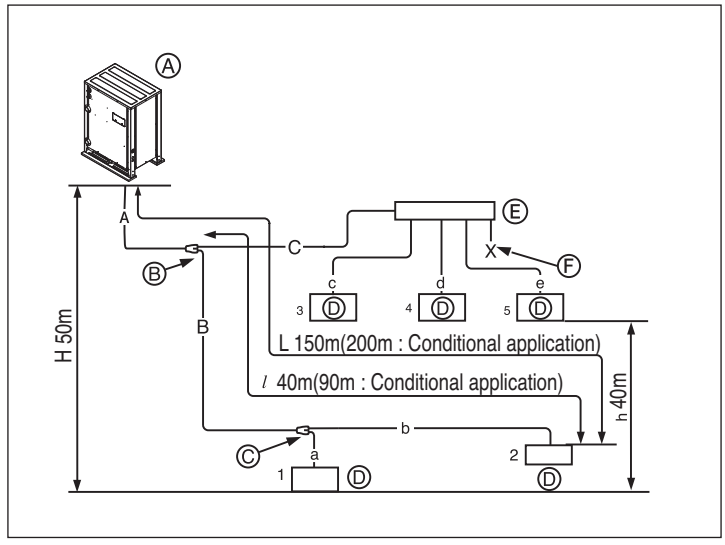


## Combination of Y branch/header method

**Single outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture

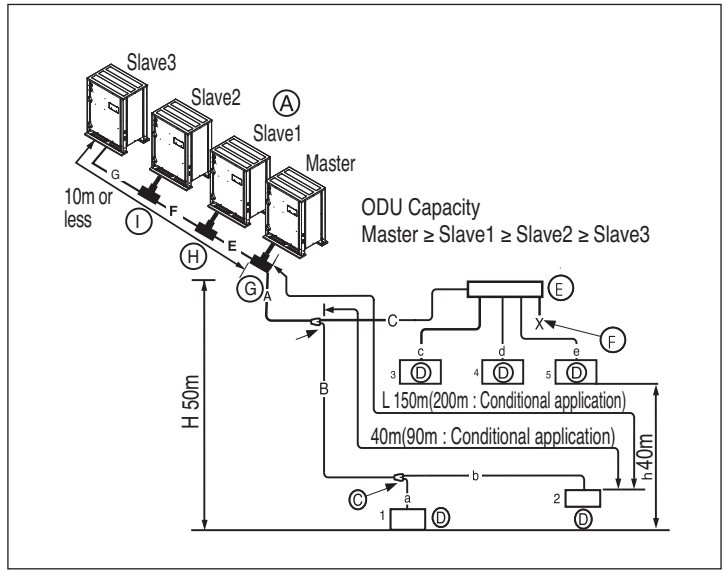



* If it is conditionally installed, refer to (table 1).

**Series outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture
Ⓖ : Outside branch(1st)
Ⓗ : Outside branch(2nd)
Ⓘ : Outside branch(3rd)




* If it is conditionally installed, refer to (table 1).

# 8. Refrigerant piping system

## ➲ Refrigerant pipe diameter from branch to branch (B,C,D)

| Downward Indoor Unit total capacity [kW(Btu/h)] | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] |
|---|---|---|
| ≤ 5.6(19,100) | Ø6.35(1/4) | Ø12.7(1/2) |
| < 16.0(54,600) | Ø9.52(3/8) | Ø15.88(5/8) |
| < 22.4(76,400) | Ø9.52(3/8) | Ø19.05(3/4) |
| < 33.6(114,700) | Ø9.52(3/8) | Ø22.2(7/8) |
| < 50.4(172,000) | Ø12.7(1/2) | Ø28.58(1-1/8 ) |
| < 67.2(229,300) | Ø15.88(5/8) | Ø28.58(1-1/8 ) |
| < 72.8(248,400) | Ø15.88(5/8) | Ø34.9(1-3/8) |
| < 100.8(344,000) | Ø19.05(3/4) | Ø34.9(1-3/8) |
| < 173.6(592,500) | Ø19.05(3/4) | Ø41.3(1-5/8) |
| < 184.8(630,700) | Ø22.2(7/8) | Ø44.5(1-3/4) |
| ≤ 291.2(993,600) | Ø22.2(7/8) | Ø53.98(2-1/8) |

## ➲ Total pipe length limited

| Classification | Section | Type | Y branch | Y/header branch | Header branch |
|---|---|---|---|---|---|
| Maximum permitted length | Outside Unit ↔ indoor unit | Maximum pipe length(L) | A+B+C+D+e ≤ 150 m (Conditionally 200 m)* | A+B+b ≤ 150 m A+C+e ≤ 150 m (Conditionally 200m)* | A+f ≤ 150 m |
| | | Corresponding pipe length | 175 m (Conditionally 225 m)* | 175 m (Conditionally 225 m)* | 175 m |
| | | Total pipe length (Outside Unit ↔ total indoor unit) | 300 m (Conditionally 500 m)* | 300 m (Conditionally 500 m)* | 300 m (Conditionally 500 m)* |
| Permitted height | Outside Unit ↔ indoor unit | height difference(H) | 50 m | 50 m | 50 m |
| | Indoor unit ↔ indoor unit | height difference(h) | 40 m | 40 m | 40 m |
| Maximum pipe length after 1st branch | | Actual pipe length( ℓ ) | 40 m (Conditionally 90m)* | 40 m (Conditionally 90m)* | 40 m |

### ⚠ WARNING

- It is recommended that difference of piping length for pipes connected to the Indoor Unit is minimized. Performance difference between Indoor Units may occur.
- When the any one (or both ) of below conditions are satisfied, the diameter of main pipe (A) must be increased according to below table.
  - The equivalent length between outside unit and the farthest indoor unit is 90m or more (Liquid and Gas pipes are increased)

# 8. Refrigerant piping system

## ➲ Refrigerant pipe diameter from outside unit to first branch. (A, E, F, G)

| Upward outside unit total capacity | Standard pipe diameter | | Increased pipe diameter | |
|---|---|---|---|---|
| | | | When equivalent pipe length from the outside unit to farthest indoor unit is 90m and over | |
| HP | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] |
| 8 | Ø 9.52(3/8) | Ø 22.2(7/8) | Ø 12.7(1/2) | not increased |
| 10 | Ø 9.52(3/8) | Ø 22.2(7/8) | Ø 12.7(1/2) | Ø 25.4(1) |
| 12 | Ø 12.7(1/2) | Ø 25.4(1) | Ø 15.88(5/8) | Ø 28.58(1-1/8) |
| 14 | Ø 12.7(1/2) | Ø 25.4(1) | Ø 15.88(5/8) | Ø 28.58(1-1/8) |
| 16 ~ 20 | Ø 12.7(1/2) | Ø 28.58(1-1/8) | Ø 15.88(5/8) | Ø 31.8(1-1/4) |
| 22 ~34 | Ø 19.05(3/4) | Ø 34.9(1-3/8) | Ø 22.2(7/8) | Ø 38.1(1-1/2) |
| 36 ~ 60 | Ø 19.05(3/4) | Ø 41.3(1-5/8) | Ø 22.2(7/8) | not increased |
| 62 ~ 64 | Ø 22.2(7/8) | Ø 44.5(1-3/4) | Ø 25.4(1) | Ø 53.98(2-1/8) |
| 66 ~ 80 | Ø 22.2(7/8) | Ø 53.98(2-1/8) | Ø 25.4(1) | not increased |

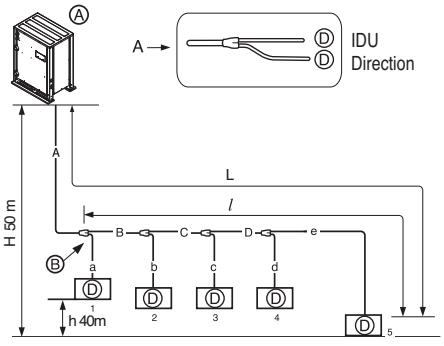
* If available on site, select pipe size from the pipe diameter table according to capacity.
  Otherwise it doesn't need to be increased.

# 8. Refrigerant piping system

## ◆ (Table 1) Cautions during the installation of Maximum pipe length 90m after the 1st branch

### ⚠ WARNING

To install maximum pipe length after the 1st branch exceeding 40 m and 90 m or less, the following conditions must be satisfied.

| | Required | Example | |
|---|---|---|---|
| 1 | Select the diameter of the pipe between the 1st branch and the last branch to be 1 level larger. Provided that, it is not necessary if the pipe diameter is the same as the main pipe. | 40 m < B+C+D+e ≤ 90 m → Change B, C, and D pipe diameter. | Ø6.35 → Ø9.52, Ø9.52 → Ø12.7, Ø12.7 → Ø15.88, Ø15.88 → Ø19.05, Ø19.05 → Ø22.2, Ø22.2 → Ø25.4, Ø25.4 → Ø28.58, Ø28.58 → Ø31.8, Ø31.8 → Ø34.9, Ø34.9 → Ø38.1<br>* If available on site, select pipe size from the pipe diameter table according to capacity. Otherwise it doesn't need to be increased. |
| 2 | During the calculation of the total refrigerant pipe length, the above pipe length shall be calculated as twice. | A+Bx2+Cx2+ Dx2+a+b+c+d+e ≤ 500 m |   |
| 3 | The length from each indoor unit to the nearest branch pipe ≤ 40 m | a,b,c,d,e ≤ 40 m | |
| 4 | Length from outside unit to the farthest indoor unit] – [Length from outside unit to the nearest indoor unit] ≤ 40 m | (A+B+C+D+e)-(A+a) ≤ 40 m | |

## ◆ Cautions for Y branch pipe

### ⚠ WARNING

If the pipe diameter(B, C) connected after the 1st branch is larger than the main pipe diameter(A), install the pipe diameter(B, C) connected after the 1st branch to be the same as the main pipe diameter(A).

Example) If indoor units are connected 120 % to 29 kW

- Outside unit main pipe diameter(A): (Gas pipe) (Fluid pipe)
- Pipe diameter(B, C) after the 1st branch according to 120% indoor unit combination(34.8kW): (Gas pipe) (Fluid pipe)
  Therefore, select the pipe diameter(B, C) after the 1st branch to be main pipe diameter(A) (Gas pipe) (Fluid pipe)

## ◆ Cautions for header branch pipe

### ⚠ WARNING

- It is recommended to install the difference between the length of the pipe after header branch(a~f) and the length of the pipe connected to indoor unit to be the minimum.
- As the pipe length difference increases, there may be performance differences between indoor units.
- Y branch and header branch cannot be used after header branch.

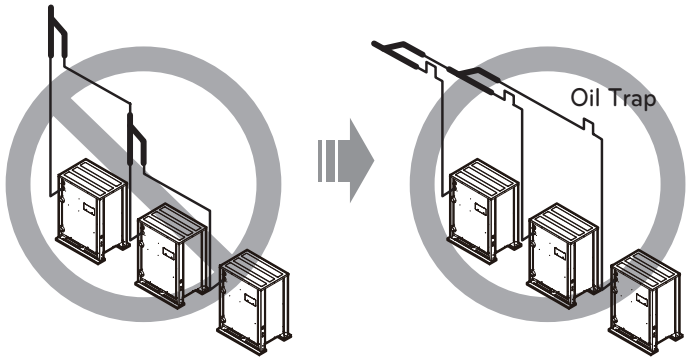
## 8.2 Indoor unit connection

➔ Indoor unit connecting pipe from branch (a~f)

| Indoor unit capacity [kW(Btu/h)] | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] |
|---|---|---|
| ≤ 5.6(19,100) | Ø6.35(1/4) | Ø12.7(1/2) |
| < 16.0(54,600) | Ø9.52(3/8) | Ø15.88(5/8) |
| ≤ 22.4(76,400) | Ø9.52(3/8) | Ø19.05(3/4) |
| < 33(112,600) | Ø9.52(3/8) | Ø22.2(7/8) |

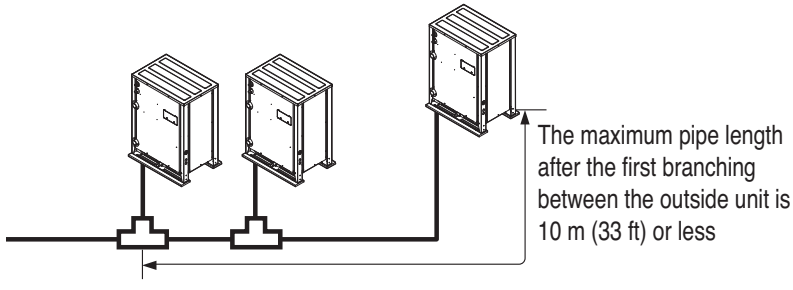
## 8.3 Pipe Connection Method/Precautions for Series connections between Outside units

- Separate Y branch joints are needed for series connections between outside units.
- Y-branches between the outside units must be installed horizontally.



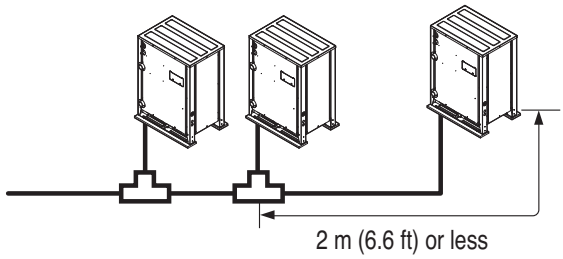

- Please refer to the below connection examples to install pipe connections between outside units.

**Pipe connection between outside units (General Case)**

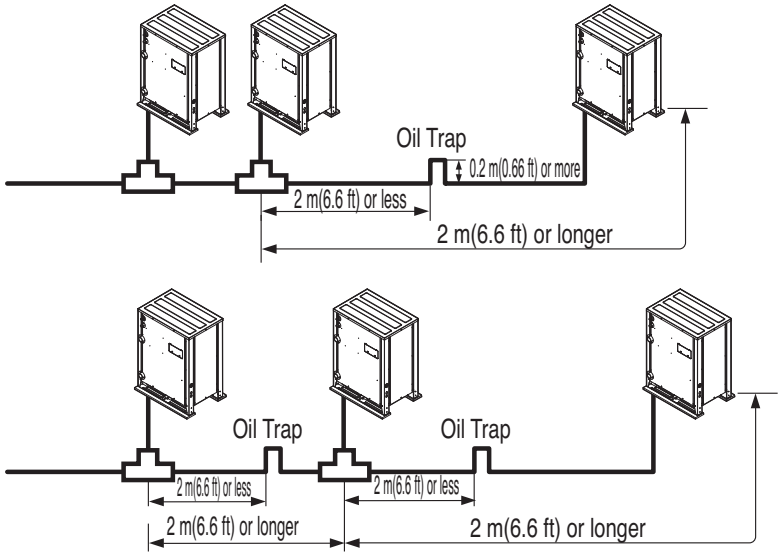


# 8. Refrigerant piping system

### Pipes between outside units are 2 m(6.6 ft) or less




### Pipes between outside units are 2 m(6.6 ft) or longer



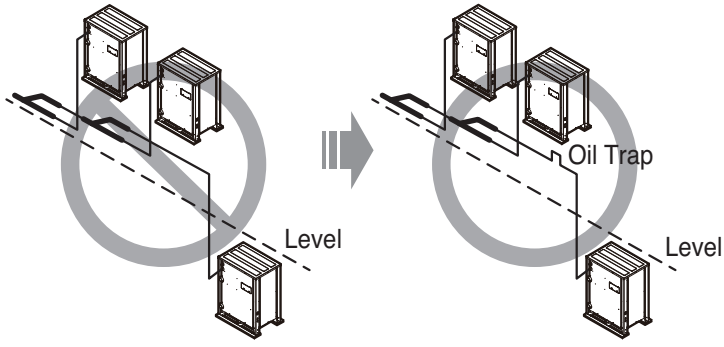

- If the distance between the outside units becomes more than 2 m (6.6 ft), apply Oil Traps between the gas pipes.
- If the outside unit is located lower than the main pipe, apply Oil Trap.

## 8.4 Oil trap application method between outside units

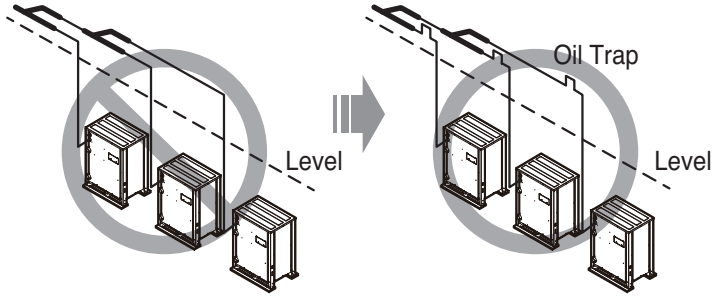
- Because of the possibility of oil being accumulated in the outside unit that has stopped, when there is a height difference between outside unit pipes or if the pipe distance between the outside units is over 2m, you must always apply an oil trap. (But, the oil trap between outside units is limited to 1 time and is only applied to the gas pipe.)
- If the pipe distance between the outside units is 2m or below, and if the location of the main pipe is lower than that of the outside unit and if the location of the main pipe is lower than that of the outside unit, the oil trap does not have to be applied.
- If the location of the main pipe is higher than the location of the outside unit, be careful since the oil can be accumulated in the stopped outside unit.
- If there is high/low difference between the outside unit pipes, oil can be accumulated to the outside unit on the lower location until the unit stops.

### Examples of Wrong Pipe Connections

- If outside units are located at different level, oil trap must be installed after each Y branch.
- Oil trap should be located at same level of Y branch. (Heat Pump : High Pressure Vapor / Heat Recovery : High Pressure Vapor & Low Pressure Vapor)



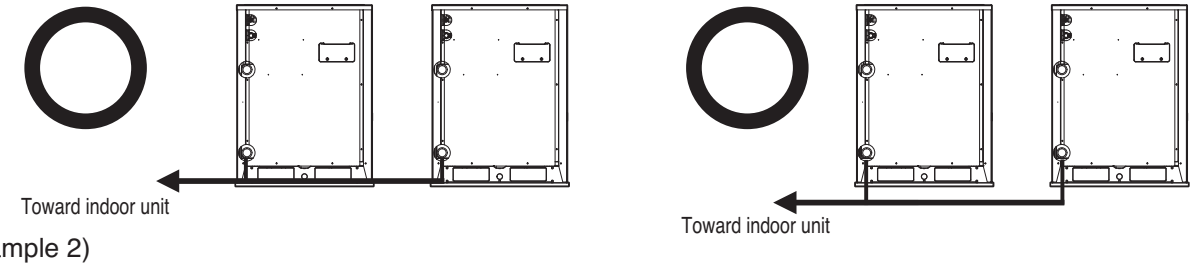

- If pipe is higher than outside unit, oil trap must be installed after each Y branch.
- Oil trap should be located at same level of Y branch. (Heat Pump : High Pressure Vapor / Heat Recovery : High Pressure Vapor & Low Pressure Vapor)



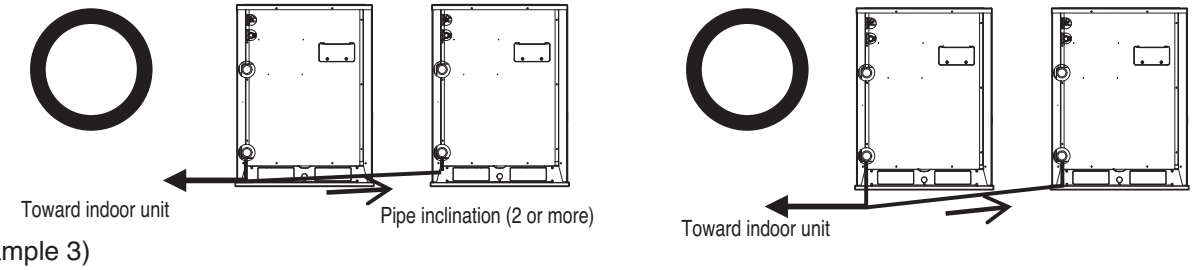
# 8. Refrigerant piping system

- The pipes between the outside unit must maintain horizontal levelness or give an inclination to prevent a back flow toward the slave outside unit. Otherwise, the unit may not operate properly.

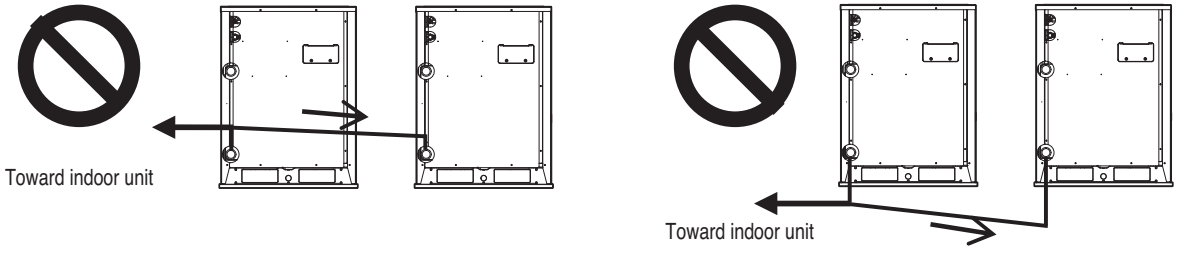
(Example 1)




(Example 2)

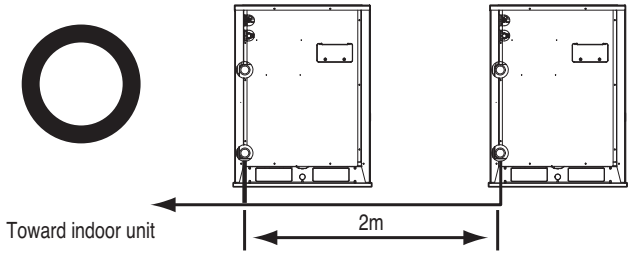



(Example 3)

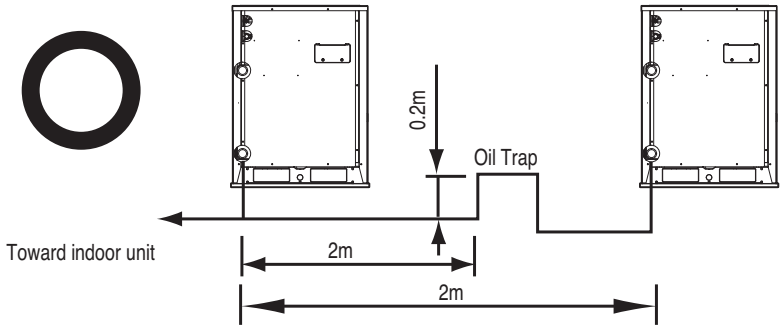



- Apply Oil Trap as shown below when the length of the pipe between the outside units is more than 2m. Otherwise, the unit may not operate properly.

(Example 1)



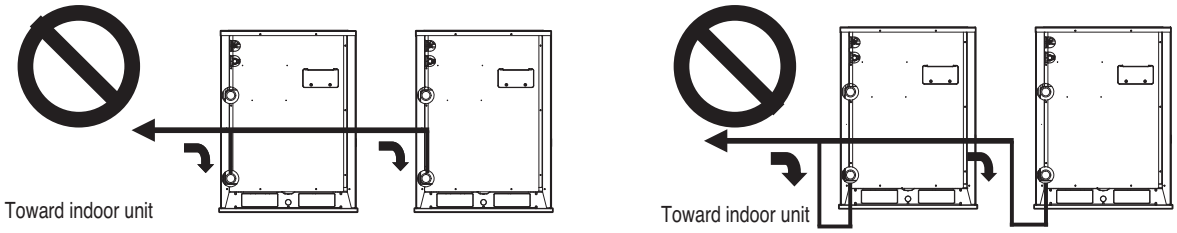

(Example 2)



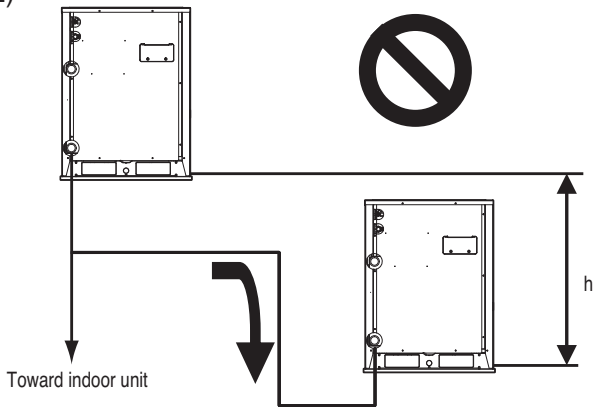
# 8. Refrigerant piping system

- When connecting the pipes between the outside units, the accumulation of oil in the slave outside unit should be avoided. Otherwise, the unit may not operate properly.

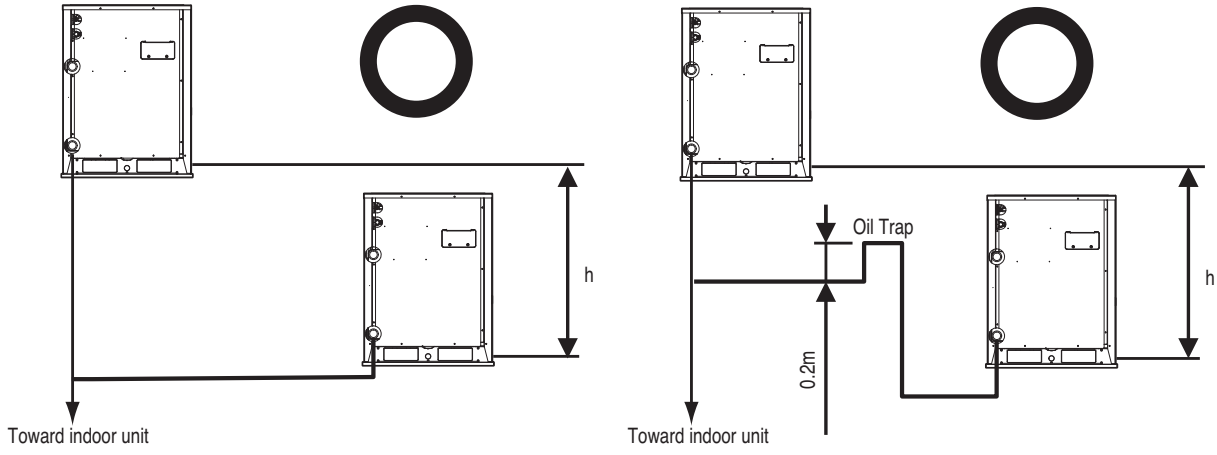
(Example 1)




(Example 2)




(Example 3)



## 8.5 Calculation of amount of refrigerant

The calculation of the additional charge should take into account the length of pipe and CF(correction Factor) value of indoor unit.

| | | | |
|---|---|---|---|
| Additional charge(kg) | = | Total liquid pipe :Ø25.4 mm | × 0.480(kg/m) |
| | + | Total liquid pipe :Ø22.2 mm | × 0.354(kg/m) |
| | + | Total liquid pipe :Ø19.05 mm | × 0.266(kg/m) |
| | + | Total liquid pipe :Ø15.88 mm | × 0.173(kg/m) |
| | + | Total liquid pipe :Ø12.7 mm | × 0.118(kg/m) |
| | + | Total liquid pipe :Ø9.52 mm | × 0.061(kg/m) |
| | + | Total liquid pipe :Ø6.35 mm | × 0.022(kg/m) |
| | + | CF value of indoor unit (kg/EA) | |
| | + | CF value of outside unit | |

**Note:**

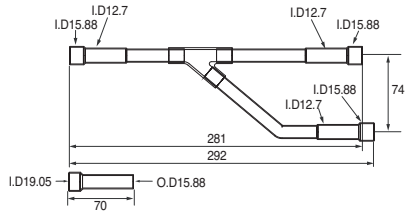
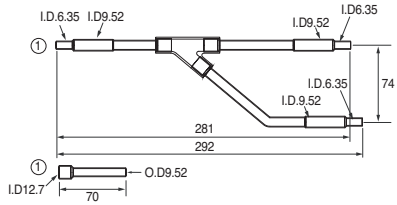
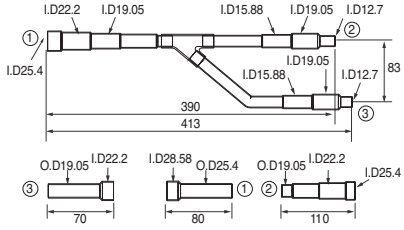
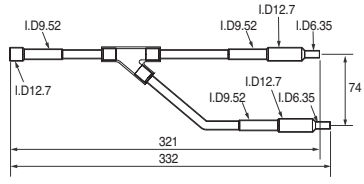
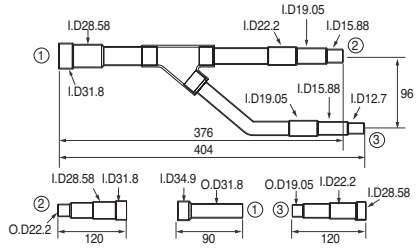
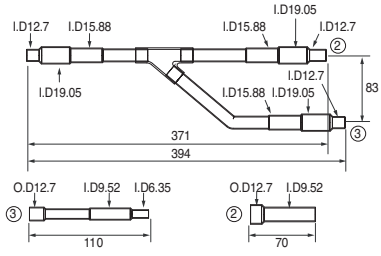
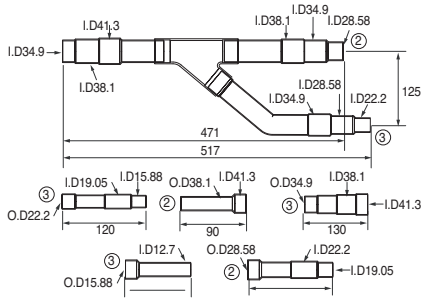
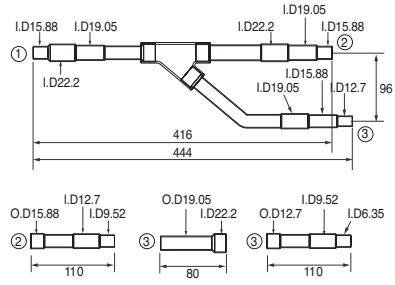
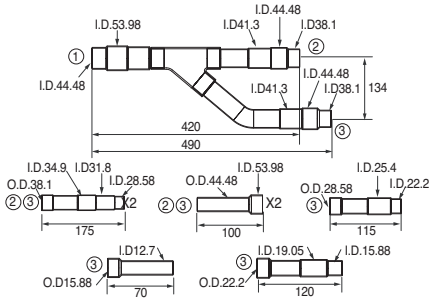
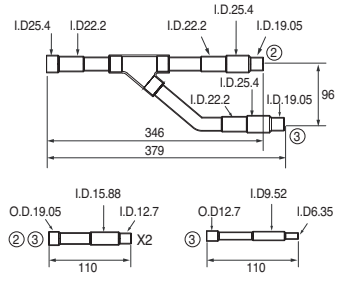
1) Please refer to the indoor unit's PDB or the outside unit's installation manual for the additional refrigerant table of indoor units
2) Please refer to the below table for the CF value of outside unit

| Region | CF | Voltage | Model name |
|---|---|---|---|
| Central & South America | -1.1 kg (-2.42 lb) | 220V | ARWN080BAS4, ARWN100BAS4, ARWN120BAS4, ARWN140BAS4, ARWN160BAS4 |
| | | 380V | ARWN080LAS4, ARWN100LAS4, ARWN120LAS4, ARWN140LAS4 |
| | | 460V | ARWN080DAS4, ARWN100DAS4, ARWN120DAS4, ARWN140DAS4 |
| | 2.3 kg (5.06 lb) | 220V | - |
| | | 380V | ARWN160LAS4, ARWN180LAS4, ARWN200LAS4 |
| | | 460V | ARWN160DAS4, ARWN180DAS4, ARWN200DAS4 |
| EU / Global | -1.1 kg (-2.42 lb) | 380V | ARWN080LAS4, ARWN100LAS4, ARWN120LAS4, ARWN140LAS4 |
| | 2.3 kg (5.06 lb) | | ARWN160LAS4, ARWN180LAS4, ARWN200LAS4 |

# 9. Y branch pipe and header branch pipe type

## 9.1 Y branch pipe

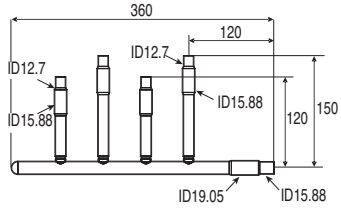
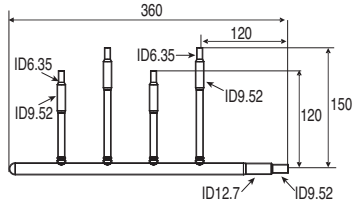
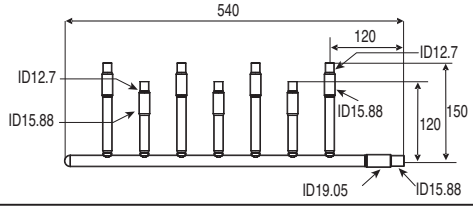
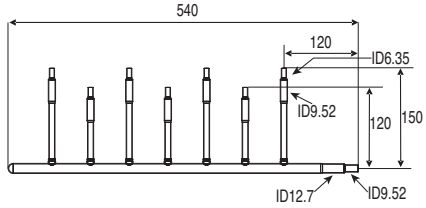
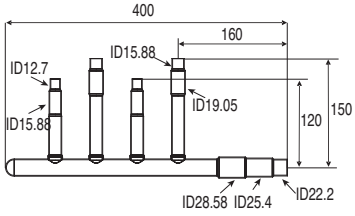
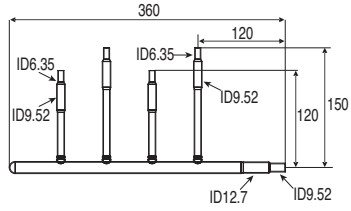
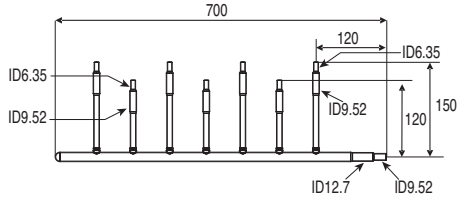
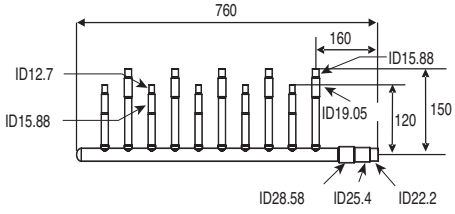
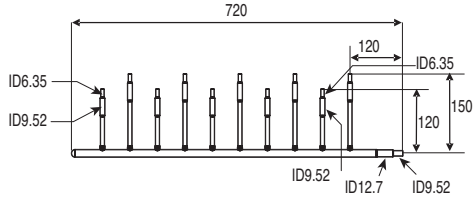
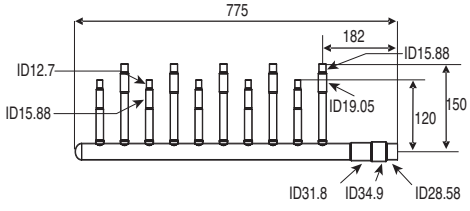
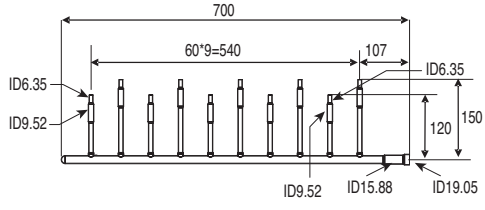
[unit:mm]

| Models | Gas pipe | Liquid pipe |
|---|---|---|
| ARBLN01621 |  |  |
| ARBLN03321 |  |  |
| ARBLN07121 |  |  |
| ARBLN14521 |  |  |
| ARBLN23220 |  |  |

# 9. Y branch pipe and header branch pipe type

## 9.2 Header

[unit:mm]

| Models | Gas pipe | Liquid pipe |
|---|---|---|
| 4 branch<br>ARBL054 |  |  |
| 7 branch<br>ARBL057 |  |  |
| 4 branch<br>ARBL104 |  |  |
| 7 branch<br>ARBL107 | |  |
| 10 branch<br>ARBL1010 |  |  |
| 10 branch<br>ARBL2010 |  |  |

# 10. Electrical Wiring

## 10.1 Areas of Caution

1. Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.

**⚠ WARNING**

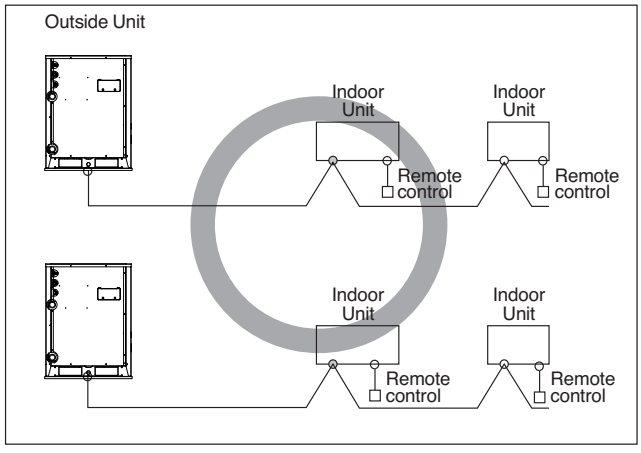
**Be sure to have authorized Electrical engineers do electric work using special circuits in accordance with regulations and this installation manual. If power supply circuit has a lack of capacity or electric work deficiency, it may cause an electric shock or fire.**

2. Install the outside unit transmission line away from the power source wiring so that it may not affected by electric noise from the power source. (Do not run it through the same conduit.)
3. Be sure to provide designated grounding work to outside unit.

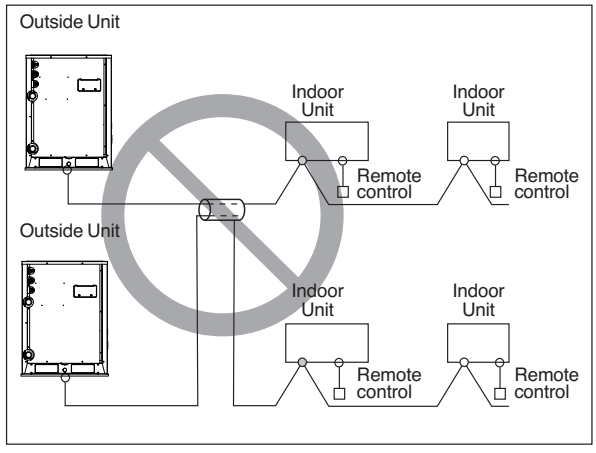
**⚠ CAUTION**

**Be sure to correct the outside unit to earth. Do not connect earth line to any gas pipe, water pipe, lightening rod or telephone earth line. If earth is incomplete, it may cause an electric shock.**

4. Give some allowance to wiring for electrical part box of indoor and outside units, because the box is sometimes removed at the time of service work.
5. Never connect the main power source to terminal block of transmission line. If connected, electrical parts will be burnt out.
6. Use 2-core shield cable for transmission line.(O mark in the figure below) If transmission lines of different systems are wired with the same multiplecore cable, the resultant poor transmission and receiving will cause erroneous operations. ( ⃠ mark in the figure below)
7. Only the transmission line specified should be connected to the terminal block for outside unit transmission.

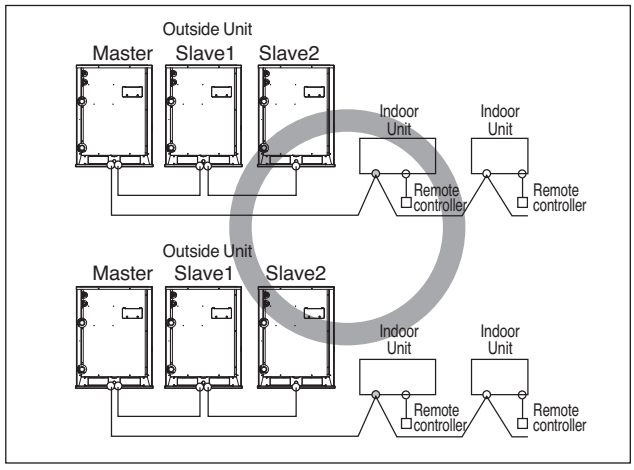



**2-core shield cable**

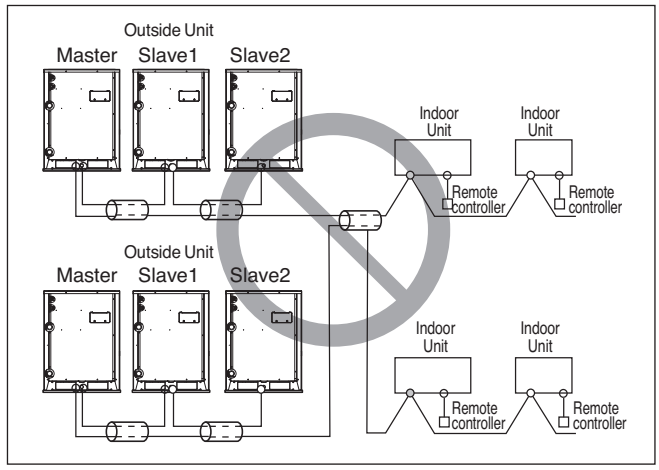



**Multi-core cable**

# 10. Electrical Wiring




**2-Core Shield Cable**



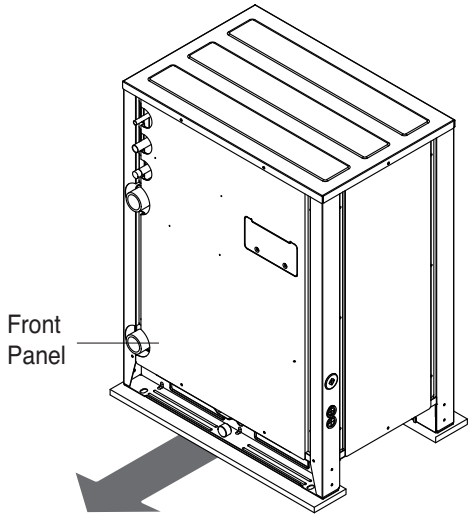

**Multi-Core Cable**

## ⚠ WARNING

- **Use the 2-core shield cables for transmission lines. Never use them together with power cables.**
- **The conductive shielding layer of cable should be grounded to the metal part of both units.**
- **Never use multi-core cable**
- **As this unit is equipped with an inverter, to install a phase leading capacitor not only will deteriorate power factor improvement effect, but also may cause capacitor abnormal heating. Therefore, never install a phase leading capacitor.**
- **Keep power imbalance within 2% of the supply rating. Large imbalance will shorten the life of the smoothing capacitor.**
- **Introducing with a missing N-phase or with a mistaken N-phase will break the equipment.**

## 10.2 Control Box and Wiring Location

- Unscrew all the screw, pull out the panel.
- Connect the transmission wire between outside unit and indoor unit, the connection between outside unit and central controller system pass through the sub PCB for central control.
- When connecting indoor unit with the shield cable, ground at the grounding screw.
  When connecting central controller with the shield cable, ground at the grounding screw.
- Refer to next page about the distance between main power cable and communication cable.
- Refer to 106 page about Auto-Addressing and Test Run.



## 10.3 Transmission and Power Lines

### 1) Transmission cable

- Types : shielding wire CVVS or CPEVS
- Use wires of size : 1.0 ~ 1.5 $mm^2$
- Insulation material : PVC
- Maximum allowable temperature: 60°C
- Maximum allowable line length: under 300m

### 2) Remote control cable

- Types : 3-core cable

### 3) Simple central control cable

- Types : 4-core cable (Shielding wire)
- Use wires of size : 1.0 ~ 1.5 $mm^2$
- Insulation material : PVC

### 4) Separation of transmission and power lines

- If transmission and power lines are run alongside each other then here is a strong likelihood of operational faults developing due to interference in the signal wiring caused by electrostatic and electromagnetic coupling.

| Current capacity of power line | | Spacing |
|---|---|---|
| 100V or more | 10A | 300mm |
| | 50A | 500mm |
| | 100A | 1,000mm |
| | Exceed 100A | 1,500mm |

**Note:**

1. The figures are based on assumed length of parallel cabling up to 100m. For length in excess of 100m the figures will have to be recalculated in direct proportion to the additional length of line involved.
2. If the power supply waveform continues to exhibit some distortion the recommended spacing in the table should be increased.

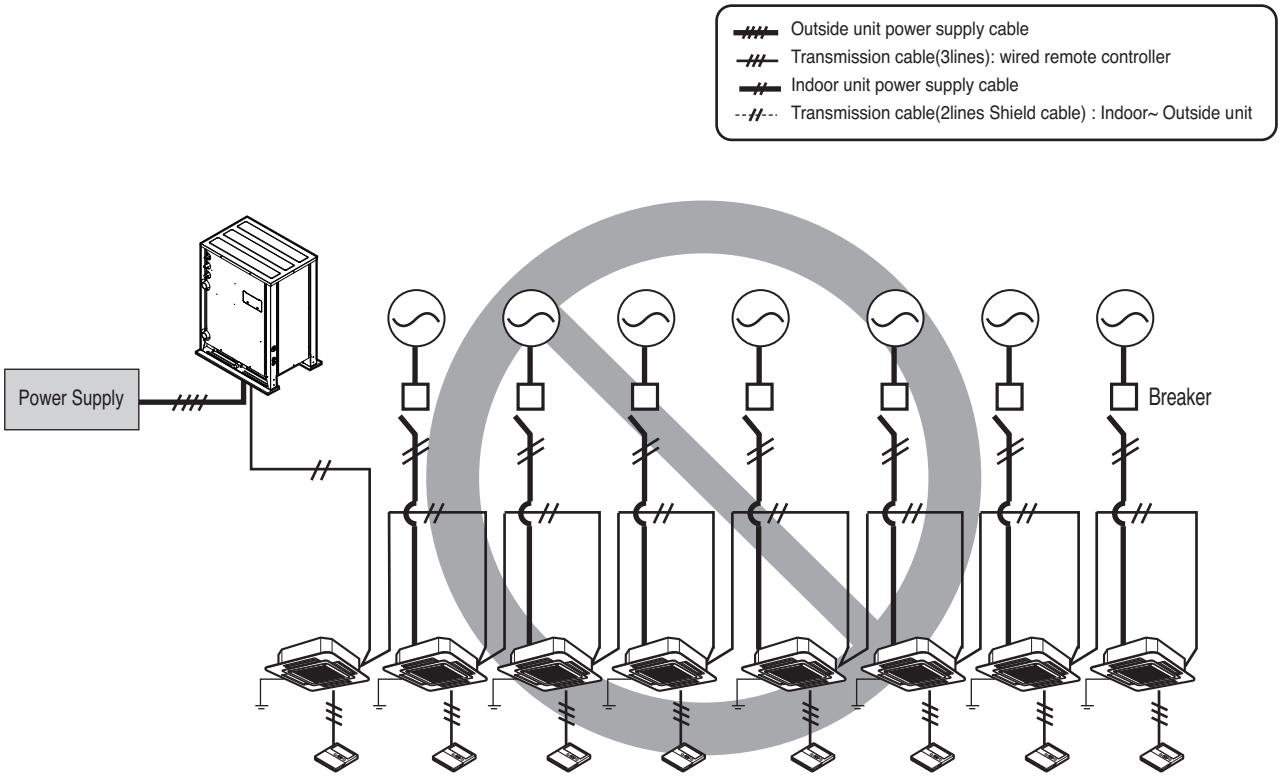
- If the lines are laid inside conduits then the following point must also be taken into account when grouping various lines together for introduction into the conduits.
- Power lines(including power supply to air conditioner) and signal lines must not be laid inside the same conduit.
- In the same way, when grouping the power lines and signal lines should not be bunched together.

**⚠ CAUTION**

- If apparatus is not properly earthed then there is always a risk of electric shocks, the earthing of the apparatus must be carried out by a qualified person.
- Use a power wire pipe for the power wiring.

## ◆ Example for mistake of wiring

• Do not separately connect the power of the indoor unit.




**⚠ CAUTION**

**Never install individual switch or individual outlet to cut the power connecting the indoor unit.**

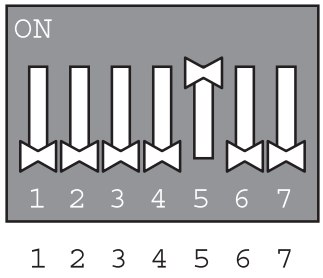
## 10.4 Dip switch setting

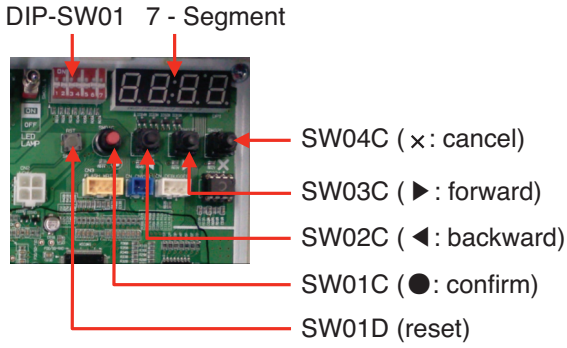
### 10.4.1 Setting the function

Select the mode/function/option/value using '▶', '◀' Button and confirm that using the '●' button after dip switch No.5 is turned on.

**⚠ CAUTION**

- It is only executed when all indoor units are off.




| Mode | | Function | | Option | | | Value | | Action | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Content | Display1 | Content | Display2 | Content | | Display3 | Content | Display4 | Implement | Display5 | |
| Installation | FUC | Cool & Heat Selector | Fn1 | OFF | op1~op2 | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Geothermal mode setting | Fn2 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Sol. Valve 200 V output | Fn3 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Variable water flow control | Fn4 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | ODU address | Fn5 | - | | - | 0~255 | Set the value | Change the set value | Blank | Save in EEPROM |
| | | Target pressure adjusting | Fn7 | OFF | op1~op3 | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Use Sump Heater | Fn8 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |

* Functions save in EEPROM will be kept continuously, though the system power was reset.
To cancel the function you need to set OFF.

### 10.4.2 Dip switch setting

1. Set the dip switch and turn on the power of the outside unit to check whether the set value is correctly entered in the 7 segment.
2. This function is shown for only 2 seconds after the power is connected.

## ■ Checking according to dip switch setting

- You can check the setting values of the Master outside unit from the 7 segment LED. The dip switch setting should be changed when the power is OFF.
- It checks whether the input is properly performed without the bad contact of the dip switch or not

### ■ Checking the initial display

The number is sequentially appeared at the 7 segment in 5 seconds after applying the power. This number represents the setting condition.

Master model capacity → Slave1 model capacity → Slave2 model capacity → Slave3 model capacity → Total capacity → System type → Power type → Product type

Example) 178 kW(62HP) 4Unit R410A combination (Cooling/heating switching type, 380V general type)
16 → 16 → 16 → 14 → 62 → 2 → 38 → 1

**⚠ CAUTION**

Product may not properly operate if the relevant DIP switch is not properly setup.

**EX) Details of each symbol**

| Symbol | Number | Contents |
|---|---|---|
| ① | 8~20 | Master model capacity |
| ② | 10~20 | Slave 1 capacity |
| ③ | 10~20 | Slave 2 capacity |
| ④ | 10~20 | Slave 3 capacity |
| ⑤ | 8~80 | Total capacity |
| ⑥ | 1 | Cooling only |
| | 2 | Cooling/Heating switching type |
| | 3 | Simultaneous Cooling/Heating type |
| ⑦ | 38 | 380 V |
| | 46 | 460 V |
| | 22 | 220 V |
| ⑧ | 1 | General type |
| | 2 | Tropical type |
| | 3 | Factory type |

**Model capacity**

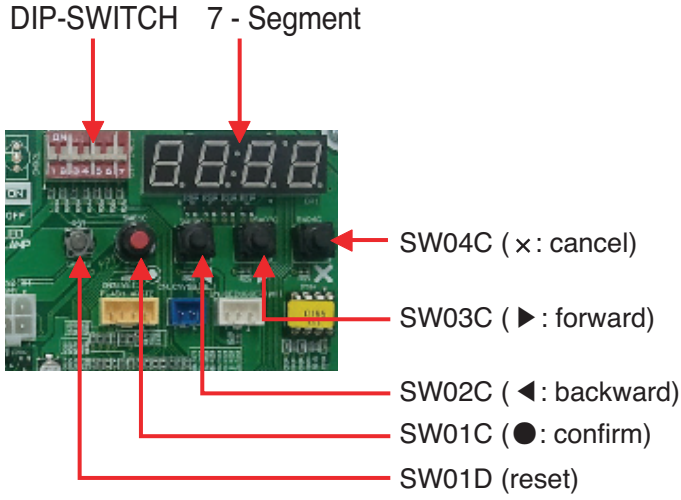
| Capacity(kW) | Capacity(HP) | Remark | Refrigerant |
|---|---|---|---|
| 23 | 8 | Same for master /slave | R410A |
| 29 | 10 | | |
| 35 | 12 | | |
| 41 | 14 | | |
| 46 | 16 | | |
| 52 | 18 | | |
| 57 | 20 | | |

## 10.5 Indoor unit auto addressing

• The address of the indoor units would be set by auto addressing.

1) Wait for 3 minutes after applying power supply (master and slave outside unit, indoor unit)
2) Press the switch of the outside unit (SW02V) for 5 seconds.
3) A "88" is indicated on 7-segment LED of the outside unit PCB.
4) For completing addressing, 2~7 minutes are required depending on numbers of indoor unit connection set.
5) Numbers of indoor unit connection set whose addressing is completed are indicated for 30 seconds on 7-segment LED of the outside unit PCB.
6) After completing addressing, address of each indoor unit is indicated on the wired remote controller display window. (CH01, CH02, CH03, .... CH06 : Indicated as number of indoor unit connection set.)

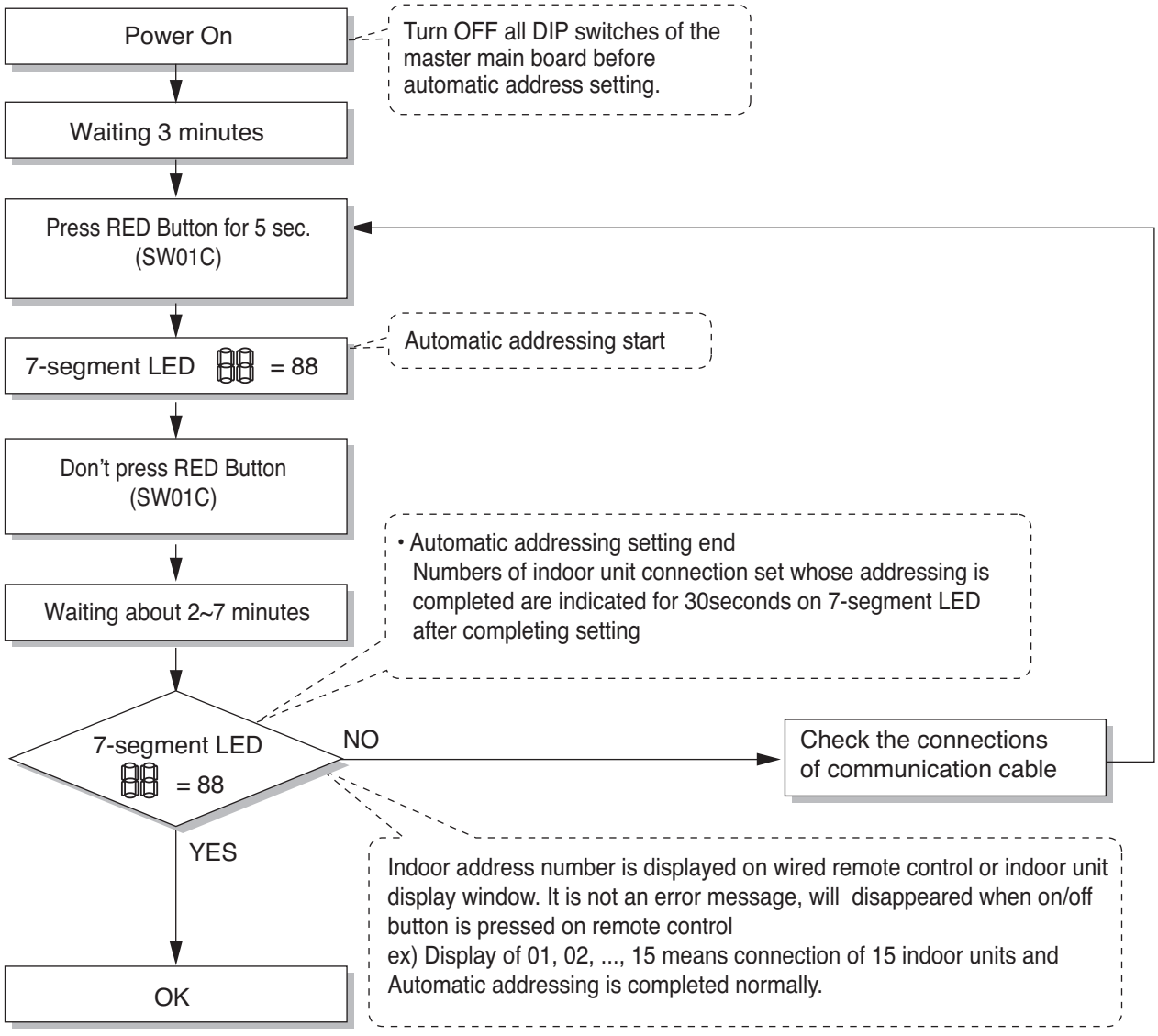
**[Heat Pump (MAIN PCB)]**




**⚠ WARNING**

- **When replacing the indoor unit PCB, you must execute the auto addressing again. Always execute this with all the power of indoor units and outside units connected. If the power is not connected to the indoor unit, it can generate an operation error.**
- **When power is connected to the outside unit for the first time, it will standby for more than 3 minutes to improve the indoor unit communication, and then the address must be set.**

## ◆ The Procedure of Automatic Addressing



## ◆ Group Number setting

### Group Number setting for Indoor Units

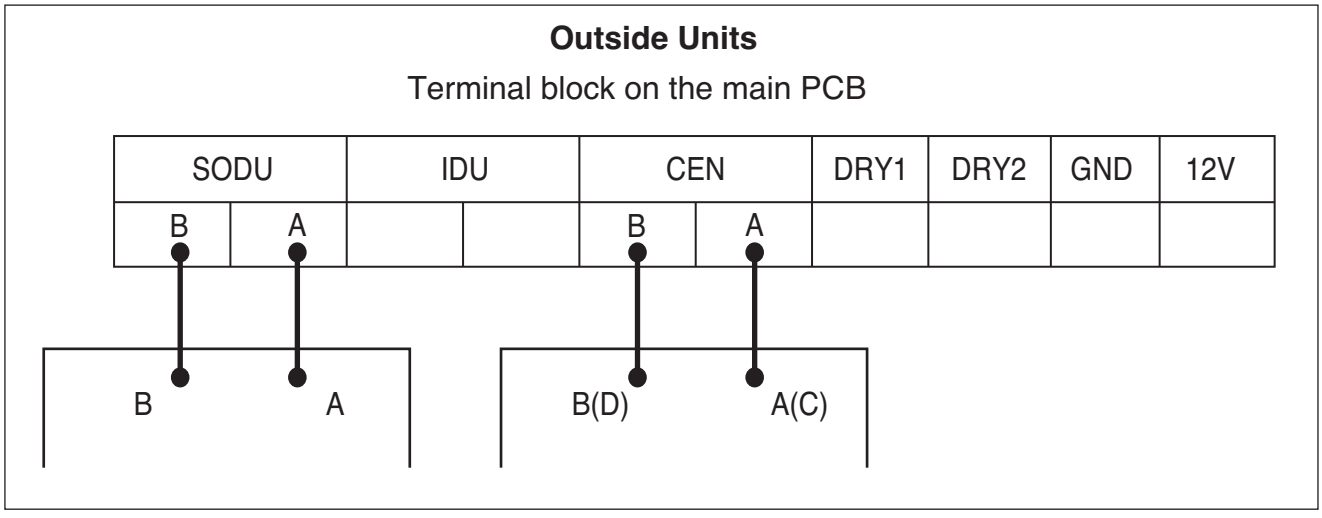
① Confirm the power of whole system(Indoor Unit, Outside Unit) is OFF, otherwise turn off.

② The transmission lines connected to CEN terminal should be connected to central control of Outside unti with care for their polarity( A → A, B → B )

③ Turn the whole system on.

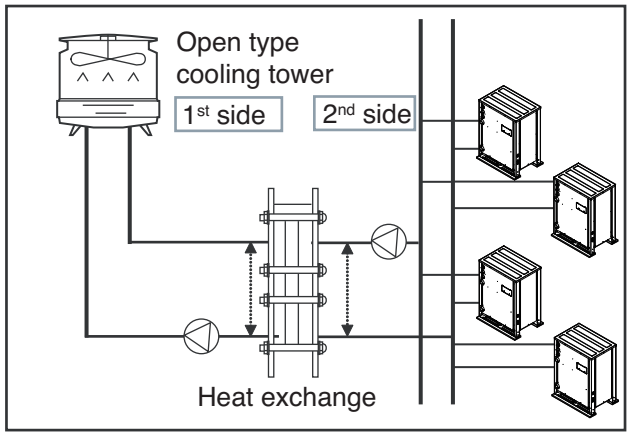
④ Set the group and Indoor Unit number with a wired remote control.

⑤ To control several sets of Indoor Units into a group, set the group ID from 0 to F for this purpose.



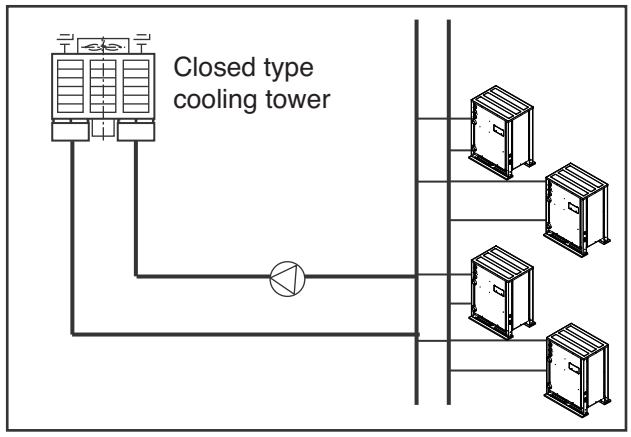

| Group recognizing the simple central controller |
|---|
| No.0 group (00~0F) |
| No.1 group (10~1F) |
| No.2 group (20~2F) |
| No.3 group (30~3F) |
| No.4 group (40~4F) |
| No.5 group (50~5F) |
| No.6 group (60~6F) |
| No.7 group (70~7F) |
| No.8 group (80~8F) |
| No.9 group (90~9F) |
| No. A group (A0~AF) |
| No. B group (B0~BF) |
| No. C group (C0~CF) |
| No. D group (D0~DF) |
| No. E group (E0~EF) |
| No. F group (F0~FF) |

# 11. Cooling tower applied method




**[Open type cooling tower + Middle heat exchanger]**

Heat exchanger is installed between the cooling tower and outside unit system piping, and the temperature difference between 1st side and 2nd side is maintained constantly




**[Closed type cooling tower]**

Heat source water of the cooling tower is supplied directly to the outside unit system.

## ⚠ CAUTION

When the open type cooling tower is used and the water supply is directly connected to the 2nd heat exchanger, product damage by alien particle cannot be repaired for free.

- Always use the 2nd heat exchanger.

## 12.1 Water supply system test run

• Before executing the test run for the product, you must first test the heat source water system.
The test run for the product must be executed after checking the flow rate and temperature of the heat source water supplied.

**Equipment design**
- Design the system including cooling tower, boiler, pump etc.
- Check the equipment capacity (Water volume, temperature control range).

↓

**Water pipe system installation**
- Install the water pipe

↓

**Water supply pipe and product connection**
- Connect the water pipe to the inlet/outlet of the product so that the water can be supplied to the product.

↓

**Water supply system test run**
- Execute water supply system test run
- The product does not operate but the pump and water supply equipment will operate to flow the Heat source water to the heat exchanger on the product side.
- Flow the water to all water piping system to clean any alien particles inside the pipes and execute an air purge to remove an air within the pipes to make the water supply smoother.
- Clean all the strainers of water pipe including around outside units.

↓

**Judging whether there is any problem with the water supply**
- Execute the test of water supply system without operating the product.
- Check whether outside unit inlet/outlet flow rate complies to the product specification.
- Check the water supply temperature. whether is OK

↓

**Execute the product test run**
- After checking the normal condition of the water supply, execute the test run of the product.
To prevent the freezing of the heat exchanger when the refrigerant is discharged with the water supply blocked, discharge the refrigerant after draining out around the outside unit.

## 12.2 Precaution before test run

| | |
|---|---|
| 1 | Check whether the air is completely removed and the water supply is flowing smoothly. |
| 2 | Check whether there is any refrigerant leakage of any disconnected or loose communication or power wire, or use the electric wiring diagram to check the wiring connection condition.<br>Check whether the power and communication wire are connected. |
| 3 | Check whether the power cable R, S, T and N are correctly connected.<br>Check the insulation resistance with the DB mega tester device (DC 500V) between the power terminal block and grounding, and check whether it is 2.0MΩ or above when measured.<br>If the resistance is 2.0MΩ or less, do not operate the product.<br>Precaution:<br>- Never check the insulation resistance for the terminal control board.<br>(The control board can be damaged.)<br>- If you leave the system turned off right after the installation or for a long period of time, the refrigerant gets accumulated within the compressor and the insulation resistance reduces to less than 2 MΩ. When the insulation resistance is 2 MΩ or less, turn on the power and let the electricity be supplied to the crank case heater of the compressor and let the refrigerant including the oil inside the compressor to evaporate.<br>Then the insulation resistance value will increase to more than 2.0 MΩ. |
| 4 | Check whether the liquid and gas pipes are open. |
| 5 | Precaution when blocking the water cooling type Multi V main power<br>- While using the product (Air conditioning season/Heating season), always connect the main power of the outside unit.<br>- During the test run operation after installing the product or during the operation after blocking the outside unit main power (Power outage etc.), you must always connect the power 6 hours prior to heating the crank case heater. If the crank case is not preheated for more than 6 hours with the electric heater, it can cause a burn on the compressor.<br>(Heating the bottom part of the compressor with the crank case heater is to evaporate the refrigerant included in the oil inside the compressor.) |

**⚠ WARNING**

- **Always check whether the water supply is flowing smoothly before the test run. (If sufficient amount of water is not flowing, it can burn the product.)**
- **During the initial test run after installing the product, leaving the product for more than 3 days or after replacing the compressor, power must be connected 6 hours prior to the operation to heat the compressor heater. (If the product is not heated sufficiently, it can burn the product.)**

## 12.3 How to Cope with Abnormal Test Run

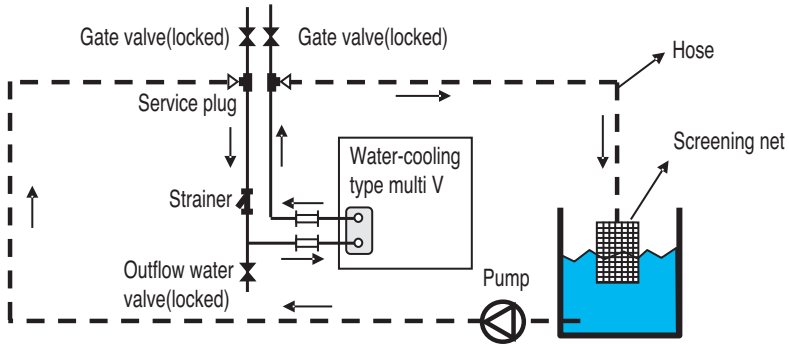
| Item | Phenomenon | Cause | Checkpoint and resolution |
|---|---|---|---|
| Whether heat water is supplied | CH24 | When connecting the flow switch, heat-sourced water doesn't flow or the amount of its flow lacks due to the checked error related to heat-sourced water. | Check whether the heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |
| | | | Check whether the flow switch is normal condition. (Flow switch problem, arbitrary control, disconnection etc.) |
| | CH32 | Heat water not supplied or flow rate is insufficient | Check whether heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |
| | CH34 | Heat water not supplied or flow rate is insufficient (During cooling) | Check whether heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |
| | CH180 | Heat water not supplied or flow rate is insufficient (During heating) | Check whether heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |

❊ When CH24 or CH180 error occurs during the test operation of the heater, the inside of the panel heat exchanger may be partially frozen and therefore, be sure to get rid of its cause and then, re-operate the device.
(The root cause of partial freezing: The lack of flow of heat-sourced water, suspension of water, lack of cooling medium, infiltration of foreign substance inside of panel heat exchanger )

## 12.4 Maintenance of plate type heat exchanger

As the scales are created in the panel heat exchanger, its efficiency may decrease or damage may occur due to winter-sowing due to the decrease in its flow.
Due to this reason, regular maintenance is necessary so that the scales shouldn't be created.

1. Before the season of use, check below points.(Once a year)
   1) inspection on water quality to check if this is within the standard condition.
   2) Clean the strainer.
   3) Check if the flow is appropriate.
   4) Check if the operation environment is appropriate.(Pressure, flow, output temperature)
2. Below procedure should be abided by in order to clean the panel heat exchanger. (Once every 5 years)
   1) Check if the service port is equipped with the water pipe in order to clean the chemical solution.
      5% diluted formic acid, citric acid, oxalic acid, acetate acid, phosphoric acid and etc. are appropriate for the chemical solution for wiping out the scales.(Hydrochloric acid, sulphuric acid, nitric acid and etc. shouldn't be used due to its corrosion.)
   2) Be sure to check if the gate valve of inflow/outflow pipe and the valve for outflow pipe are properly closed when cleaning.
   3) Connect the water pipe for cleaning with the chemical solvent through the service plug of the pipe and fill up the panel heat exchanger with 50°C~60°C of cleaning solvent and circulate it with the pump for 2~5 hours. The circulation time may depend on the temperature of the cleaning solvent or the creation of the scales. Therefore, observe change in the color of the chemical solvent to set the circulation time for removing the scales.
   4) After the circulation of the solvent, extract the solvent inside of the panel heat exchanger and fill up 1~2% of NaOH or $NaHCO_3$ and then, circulate it for 15~20 minutes to neutralize the heat exchanger.
   5) Once the neutralization is completed, clean the inside of the panel heat exchanger with clean water.
      Measure the water Ph to check if the chemical solvent is properly removed or not.
   6) When using a different kind of chemical solvent in the market, be sure to check if there is any corrosive action to stainless or copper in advance or not.
   7) For details on the cleaning chemical solvent, be sure to consult the specialists of the related corporation.
3. After cleaning, operate the device to see if it works properly once again.




[Cleaning the panel heat exchanger]

## 12.5 Daily check/management

### 1. Water quality control

The plate type heat exchanger is not structured to be disassembled, cleaned or replaced with parts.
To prevent corrosion or scaling on the plate type heat exchanger, special care must be taken to control the water quality.
Water quality must satisfy the minimum criteria of the reference water quality items.
When anti-corrosion agent or corrosion inhibitor is added, the substance must not have any corrosive effect on stainless steel and copper. Even if the circulating water is not contaminated by the external air, it is recommended to empty the water flowing in the pipe and to resupply the water.

### 2. Flow rate control

If the flow rate is insufficient, it can cause freezing on the plate type heat exchanger.
Check whether the strainer is clogged or whether the pipe is filled with air and then check the temperature and pressure difference of the inlet and outlet pipe to check whether the flow rate is insufficient.
If the temperature and pressure difference is above the appropriate level, it means that the flow rate is reduced. In this case, the operation must immediately be stopped and re-operated when the root cause is resolved. (*If air is trapped in the pipe, the air must be purged. Air inside the water pipe interferes with the circulation of the heat water supply and can cause insufficient flow rate or freezing.)

### 3. Brine density management

When using the brine (Anti-freeze) in the heat water supply, designated type and density must be used. Calcium chloride brine can cause corrosion on the plate type heat exchanger and must not be used.
If the anti-freeze liquid is left as is, it absorbs the moisture from the air to cause a drop in the density, leading to freezing of plate type heat exchanger. Therefore minimize the contact surface with the atmosphere and periodically measure the density of the brine to supplement the brine as needed to maintain the density.

## 12.6 Maintenance/Repair checklist

| Checkpoint \ Period (Year) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product operating condition | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Heat exchanger cleaning (Wash) | | | | | ● | | | | | ● | | | | | ● |
| Strainer cleaning | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Water quality check | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Refrigerant leakage check | ● | | | | | | | | | | | | | | ● |
| Indoor unit filter cleaning | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

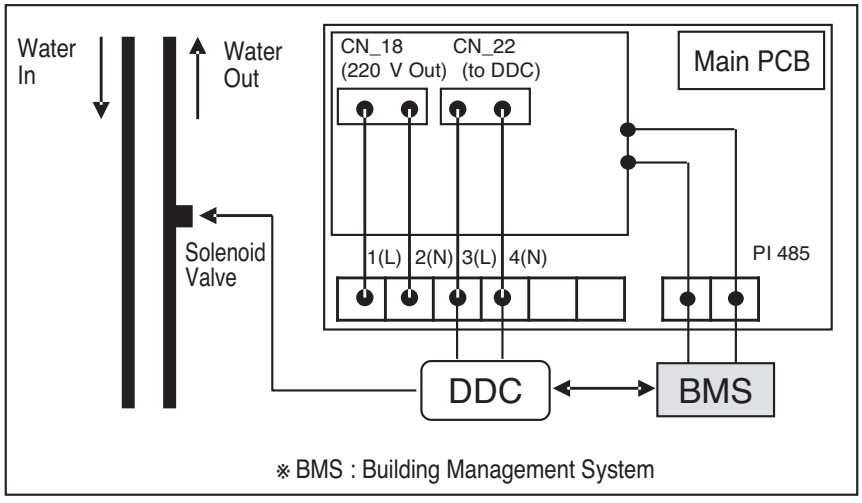
( ● : Check mark)

### ⚠ CAUTION

- The above checklist is set based on the minimum period and more frequent checking can be required depending on the operating condition/water quality condition.
- When cleaning the heat exchanger, make sure to take parts out or lock the value so that chemical detergent does not penetrate into the pressure gauge etc.
- When cleaning the heat exchanger, check the connecting part of the water pipes prior to cleaning so that the chemical detergent does not leak.
- After sufficiently mixing the chemical detergent with water, start cleaning.
- Cleaning the heat exchanger is easier at the initial stage and becomes difficult after the scaling has accumulated.
- In areas where the water quality is poor, cleaning is required periodically.
  Because chemical detergent has strong acidity, it must be washed off thoroughly with water.
- To check whether it is cleaned well inside, remove the hose and check the inside.
- Purge the air to remove any air inside the water pipe.
- After checking, always check whether the heat water supply is flowing normally flowing before operating the product.

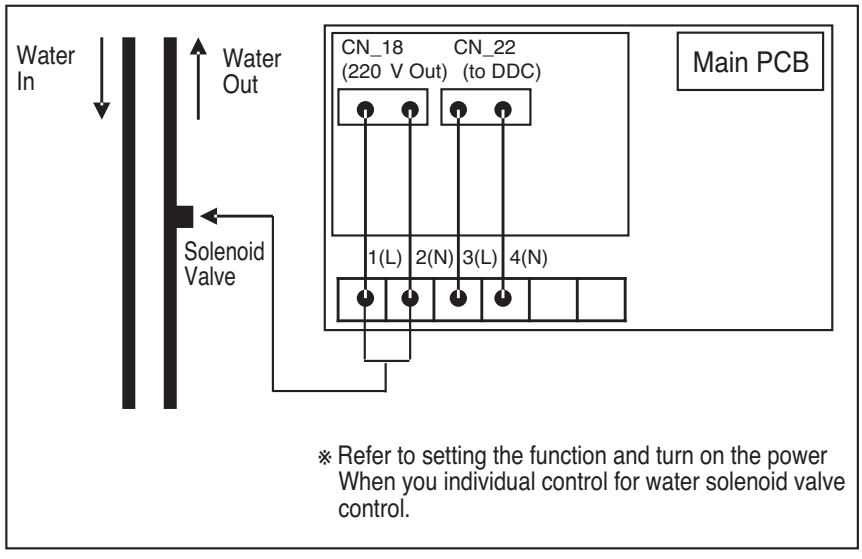
# 13. Water Solenoid Valve Control

## 13.1 Central Control (Use DDC Port)




※ BMS : Building Management System

## 13.2 Individual Control (Use 220V Out Port)

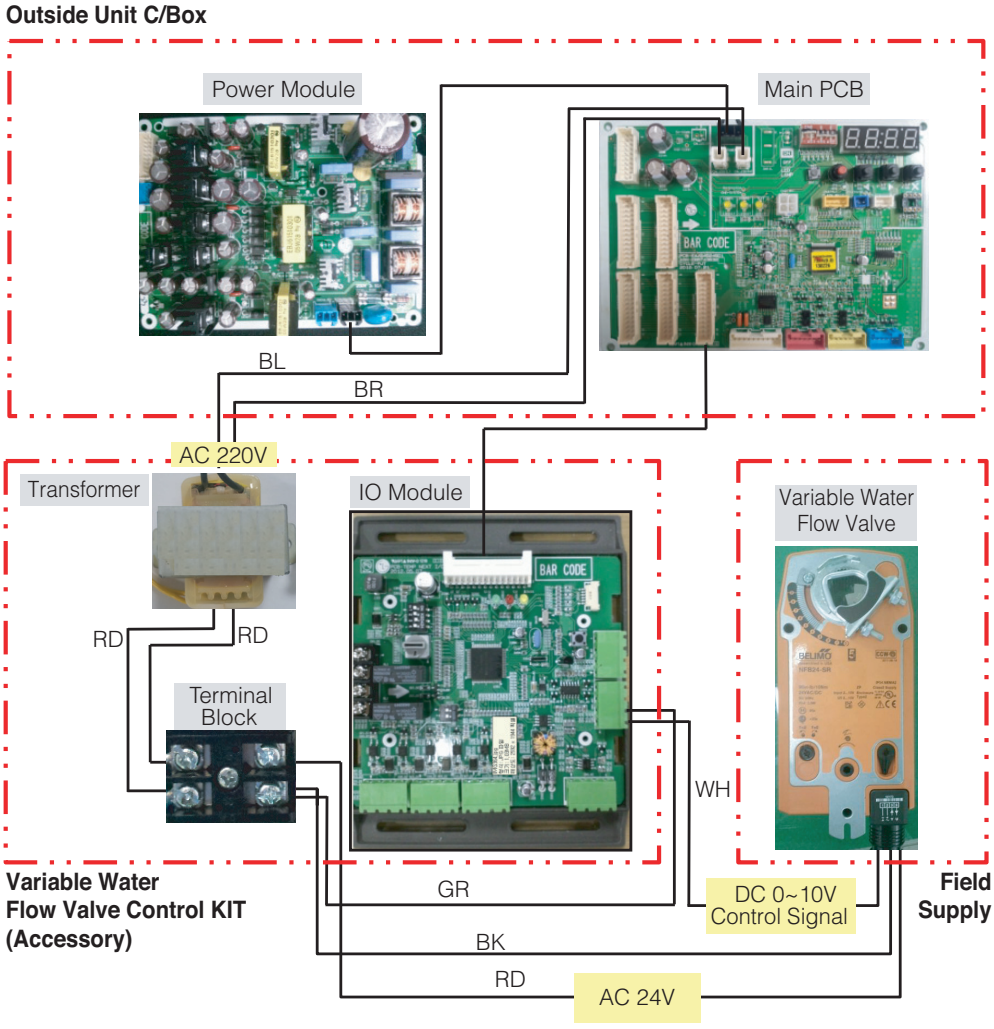



※ Refer to setting the function and turn on the power When you individual control for water solenoid valve control.

# 14. Variable Water Flow Valve Control KIT (Accessory)

## ◆ Installation Method

1. Shut off the main power line of outside unit.
2. Install the case of Variable Water Flow Control Kit on the C/Box by using screws.
3. Attach Transformer, IO Module, Terminal Block of Variable Water Flow Control Kit in the case by using screws.
4. Connect the wire, Refer to the figure below.




❊ BL : Blue, BR : Brown, RD : Red, BK : Black, WH : White, GR : Green

**Notes:**
Transformer can supply only AC 24V to the terminal block.
Do not input external power into Main PCB. Otherwise it will cause a serious damage.
The Variable Water Flow Control Kit controls only 1 valve actuator.
The power (AC 24V) and signal(DC 0~10V) line is recommended by AWG22(1/32 in, (0.644 mm), 0.016 Ω/ft (0.053 Ω/m)).

MULTI V™ WATER IV

# Special Guide

## 1. Cautions for Refrigerant Leaks

### 1.1 Introduction

### 1.2 Checking procedure of limiting concentration

**Appendix information**

**MFL68359801_01D**
**April / 2016**

# 1. Caution For Refrigerant Leaks

The installer and system specialist shall secure safety against leakage according to local regulations or standards.
The following standards may be applicable if local regulations are not available.

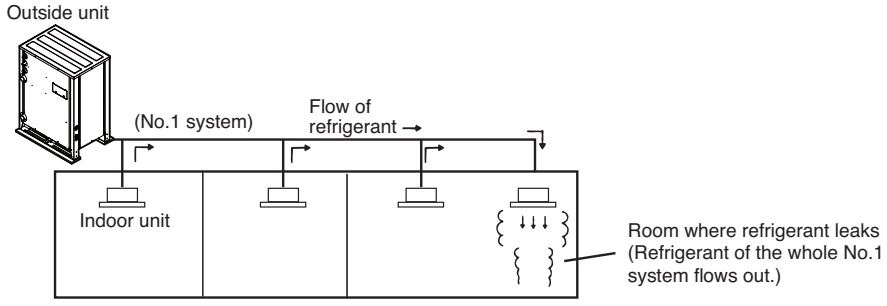
## 1.1 Introduction

Though the R410A refrigerant is harmless and incombustible itself , the room to equip the air conditioner should be large to such an extent that the refrigerant gas will not exceed the limiting concentration even if the refrigerant gas leaks in the room.

### ■ Limiting concentration

Limiting concentration is the limit of Freon gas concentration where immediate measures can be taken without hurting human body when refrigerant leaks in the air. The limiting concentration shall be described in the unit of kg/m$^3$ (Freon gas weight per unit air volume) for facilitating calculation.

**Limiting concentration: 0.44kg/m$^3$(R410A)**




## 1.2 Checking procedure of limiting concentration

Check limiting concentration along following steps and take appropriate measure depending on the situation.

### ■ Calculate amount of all the replenished refrigerant (kg) per each refrigerant system.

Amount of replenished refrigerant per one outside unit system + Amount of additional replenished refrigerant = Total amount of replenished refrigerant in refrigerant facility (kg)

Amount of replenished refrigerant at factory shipment

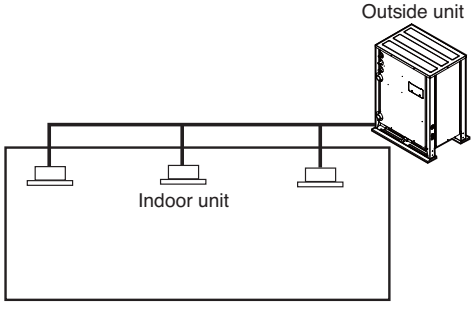
Amount of additionally replenished refrigerant depending on piping length or piping diameter at customer

Note : In case one refrigerant facility is divided into 2 or more refrigerant systems and each system is independent, amount of replenished refrigerant of each system shall be adopted.

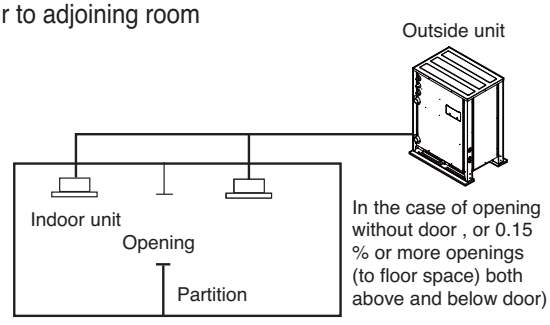
### ■ Calculate minimum room capacity

Calculate room capacity by regarding a portion as one room or the smaller room.

(1) Without partition

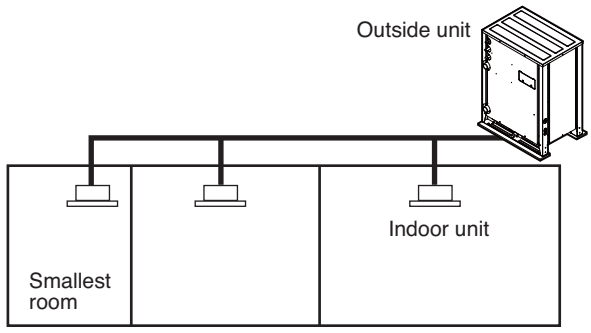



(2) With partition and with opening which serve as passage of air to adjoining room



# 1. Caution For Refrigerant Leaks

(3) With partition and without opening which serve as passage of air to adjoining room




## ■ Calculate refrigerant concentration

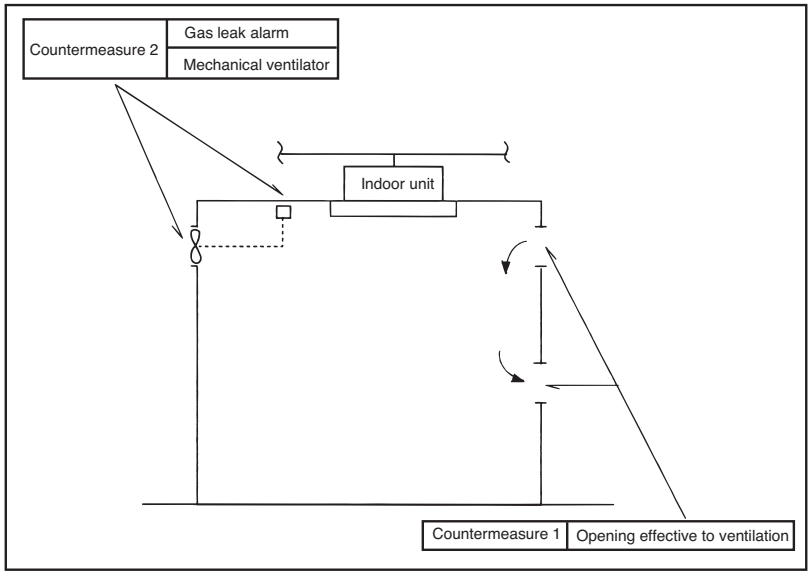
$$\frac{\text{Total amount of replenished refrigerant in refrigerant facility (kg)}}{\text{Capacity of smallest room where indoor unit is installed (m}^3\text{)}} = \text{Refrigerant concentration (kg/m}^3\text{) (R410A)}$$

In case the result of calculation exceeds the limiting concentration, perform the same calculations by shifting to the second smallest, and the third smallest rooms until at last the result is below the limiting concentration.

## ■ In case the concentration exceeds the limit

When the concentration exceeds the limit, change original plan or take one of the counter measure shown below:

- **Counter measure 1**
  Provide opening for ventilation.
  Provide 0.15% or more opening to floor space both above and below door, or provide opening without door.
- **Counter measure 2**
  Provide gas leak alarm linked with mechanical ventilator.
  Reducing the outside refrigerant qty.




**Pay a special attention to the place, such as a basement, etc. where refrigerant can stay, since refrigerant is heavier than air.**

# 1. Alternative Refrigerant R410A

• The refrigerant R410A has the property of higher operating pressure in comparison with R22.
Therefore, all materials have the characteristics of higher resisting pressure than R22 ones and this characteristic should be also considered during the installation.
R410A is an azeotrope of R32 and R125 mixed at 50:50, so the ozone depletion potential (ODP) of R410A is 0.

**⚠ CAUTION**

- The wall thickness of the piping should comply with the relevant local and national regulations for the designed pressure 3.8MPa
- Since R410A is a mixed refrigerant, the required additional refrigerant must be charged in its liquid state. If the refrigerant is charged in its gaseous state, its composition changes and the system will not work properly.
- Do not place the refrigerant container under the direct rays of the sun to prevent it from exploding.
- For high-pressure refrigerant, any unapproved pipe must not be used.
- Do not heat pipes more than necessary to prevent them from softening.
- Be careful not to install wrongly to minimize economic loss because it is expensive in comparison with R22.

# 2. Select the Best Location

• Select space for installation outside unit, which will meet the following conditions.
• With strength which bears weight of unit
• With space for air passage and service work
Don't install the unit at the space where generation, inflow, stagnation, and leak of combustible gas is expected.
• Avoid unit installation in a place where acidic solution and spray (sulfur) are often used.
• Location with no leakage of combustible gas
• Recommend the outside unit to be installed within 0~40°C.
• Location with installation or service work space (Refer to required space)
• Do not use the outside unit under any special environment where oil, steam and sulfuric gas exist.
• Install in a separate machine room not exposed to external air
- Establish an anti-freeze plan for the water supply when the product is stopped during the winter.
- Install the product so that the noise from the machine room is not transferred outsides
• The floor of the machine room must be water proof.
• Drainage must be installed in the machine room to process the water drainage.
• Install a floor slope to make the drainage smooth.
• Avoid installing the outside unit in the location with following conditions.
• Location where corrosive gas such as acidic gas is generated. (It may cause the refrigerant leakage by corrosion of the pipe.)
• Location where electromagnetic waves happen. (It may cause the abnormal operation by control parts disorder.)
• Location to be able to leak the combustible gas
• Location with carbon fiber or combustible dust.
• Location with the combustible material like thinner or gasoline. (It may cause a fire by leaking the gas near the product.)

**⚠ CAUTION**

**1. Do not install Multi V water outside. Always install ventilated indoors.**

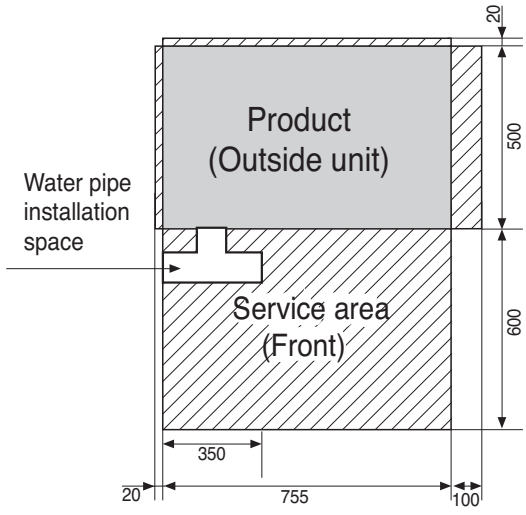
**2. Inverter product may generate electric noise. Keep the body from computer, stereo etc. at enough distance. Specially leave space from indoor remote controller to shoes electric devices at the above 3m in weak electric wave area. Insert the power cable and other wire into separate conduit.**

# 3. Installation space

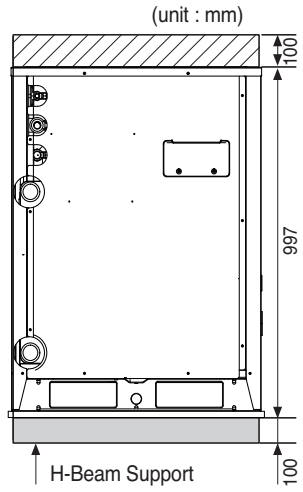
## 3.1 Individual Installation

Required the minimum space as shown below for installation and check.
If the space is not fit on this drawing, consult with LG.

: Service area




<Top View>

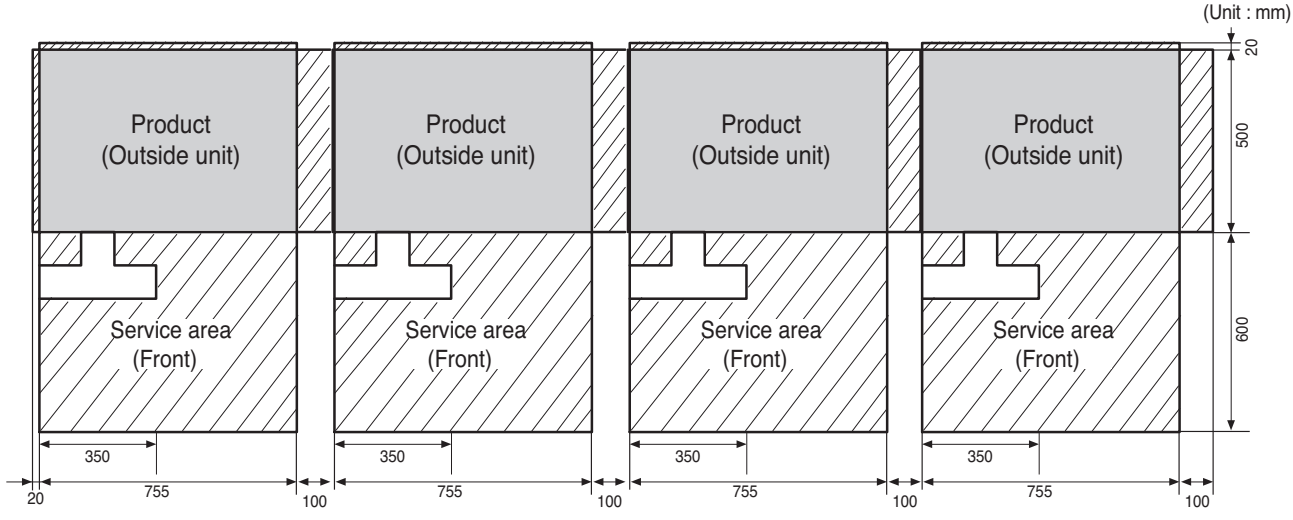



<Front View>

## 3.2 Collective / Continuous Installation

Space required for collective installation and continuous installation as shown below considering passage for air and people.

: Service area



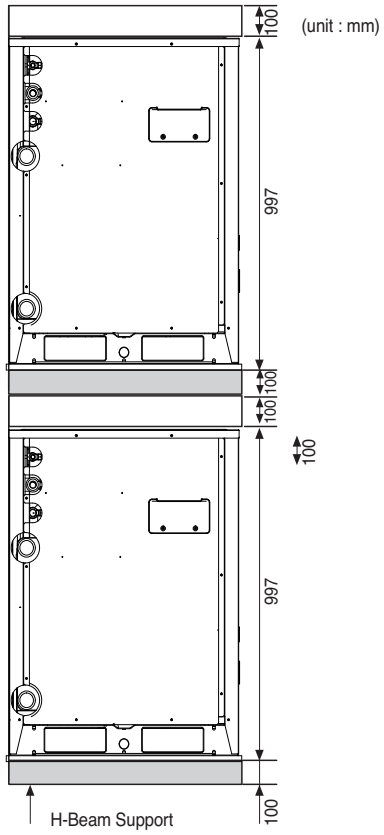

<Top view>

* In case of the water pipe passing side product, please make sufficient service place to avoid occurring between water pipe and product side.
* Maximum number of connectable units could be different in accordance with model line up of target region.

## 3.3 Two Layer Installation

Space required for two layer installation as shown below considering passage for air and people.

▨: Service area




<Front View>

# 4. Water control

## 4.1 Water control

- Keep the water temperature between 10~45°C. Other it may cause the breakdown.
  - Standard water supply temperature is 30°C for Cooling and 20°C for heating.
- Properly control the water velocity. Otherwise it may cause the noise, pipe vibration or pipe contraction, expansion according to the temperature. Use the same water pipe size connected with the product or more.
- Refer to the water source pipe diameter and water velocity table below. As the water velocity is fast, air bubble will increase.

| Diameter (mm) | Velocity range (m/s) |
|---|---|
| < 50 | 0.6 ~ 1.2 |
| 50 ~ 100 | 1.2 ~ 2.1 |
| 100 < | 2.1 ~ 2.7 |

- Be careful of the water purity control. Otherwise it may cause the breakdown due to water pipe corrosion. (Refer to 'Standard Table for Water Purity Control')
- In case the water temperature is above 40°C, it is good to prevent the corrosion by adding The anticorrosive agent.
- Install the pipe, valve and gauge sensor in the space where it is easy to maintain. Install the water valve in the low position for drain, if required.
- Be careful not to let air in. If so, the water velocity will be unstable in the circulation, pump efficiency will also decrease and may cause the piping vibration. Therefore, install the air purge where it may generate the air.
- Choose the following anti freezing methods. Otherwise, it will be dangerous for the pipe to break in the winter.
  - Circulate the water with the pump before dropping the temperature.
  - Keep the normal temperature by boiler.
  - When the cooling tower is not operated for a long time, drain the water in the cooling tower.
  - Use an anti-freeze(For using an anti freeze, change the DIP switch on main PCB in outside unit.)
  - Refer to the additive amount about freezing temperature as in the table given below.

| Anti freeze type | Minimum temperature for anti freezing (°C) | | | | | |
|---|---|---|---|---|---|---|
| | 0 | -5 | -10 | -15 | -20 | -25 |
| Ethylene glycol (%) | 0 | 12 | 20 | 30 | - | - |
| Propylene glycol (%) | 0 | 17 | 25 | 33 | - | - |
| Methanol (%) | 0 | 6 | 12 | 16 | 24 | 30 |

- In addition to anti freeze, it may cause the change of the pressure in the water system and the low performance of the product.
- Make sure to use the closed cooling type tower.
  When applying the open type cooling tower, use a middle heat exchanger to make the water supply system a closed type system.

## 4.2 Standard table for water purity control

The water may contain many foreign substances and hence may influence the performance and lifetime of the product due to the corrosion of the condenser and water pipe. (Use water source that complies with the below standard table for water purity control.)

If you use water supply other than the tap water to supply the water for the cooling tower, you must do a water quality inspection.

- If you use the closed cooling tower, the water quality must be controlled in accordance with the following standard table.
  If you do not control the water quality in accordance with the following standard water quality table, it can cause performance deterioration to the air conditioner and severe problem to the product

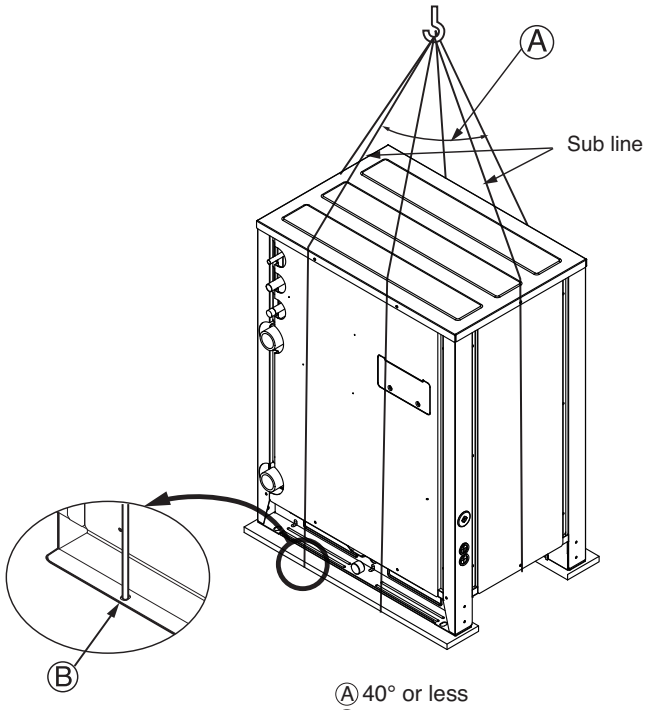
| Items | Closed type | | Effect | |
|---|---|---|---|---|
| | Circulating water | Supplemented water | Corrosion | Scale |
| Basic Item | | | | |
| pH [25C] | 7.0~8.0 | 7.0~8.0 | O | O |
| Conductivity [25C] (mS/m) | Below 30 | Below 30 | O | O |
| Chlorine ions (mg $Cl^-$ /ℓ) | Below 50 | Below 50 | O | - |
| Sulfate ions (mg $SO_4^{2}$ /ℓ) | Below 50 | Below 50 | O | O |
| Acid consumption (pH4.8) (mg $CaCO_3$ /ℓ) | Below 50 | Below 50 | - | O |
| Total hardness (mg $CaCO_3$ /ℓ) | Below 70 | Below 70 | - | O |
| Calcium hardness (mg $CaCO_3$ /ℓ) | Below 50 | Below 50 | - | O |
| Ionic-static silica (mg $SiO_2$ /ℓ) | Below 30 | Below 30 | - | O |
| Reference Item | | | | |
| Iron (mg Fe /ℓ) | Below 1.0 | Below 0.3 | O | O |
| Copper (mg Cu /ℓ) | Below 1.0 | Below 0.1 | O | - |
| Sulfate ion (mg $SO_4^{2}$ /ℓ) | Must not be detected | Must not be detected | O | - |
| Ammonium ion (mg $NH_4^+$ /ℓ) | Below 0.3 | Below 0.1 | O | - |
| Residual chlorine (mg Cl /ℓ) | Below 0.25 | Below 0.3 | O | - |
| Free carbon dioxide (mg $CO_2$ /ℓ) | Below 0.4 | Below 4.0 | O | - |
| Stability index | - | - | O | O |

## [Reference]

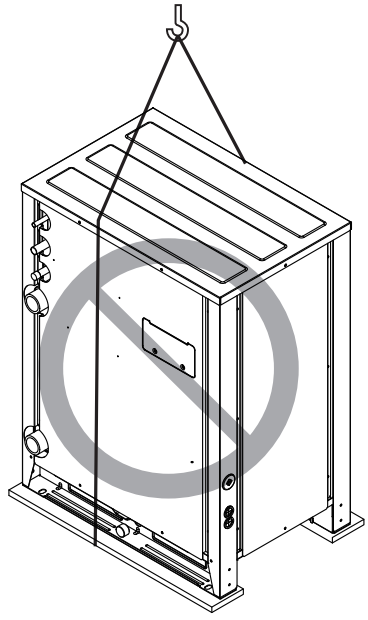
(1) The "O" mark for corrosion and scale means that there is possibility of occurrence.
(2) When the water temperature is 40°C or above or when uncoated iron is exposed to the water, it can result in corrosion. Therefore adding anti-corrosion agent or removing the air can be very effective.
(3) In case of using the closed type cooling tower, the cooling water and supplementing water must satisfy the water quality criteria of closed type system in the table.
(4) Supplementing water and supplied water must be supplied with tap water, industrial water and underground water excluding filtered water, neutral water, soft water etc.
(5) 15 items in the table are general causes of corrosion and scale.

# 5. Lifting method

- When carrying the unit suspended, pass the ropes under the unit and use the two suspension points each at the front and rear.
- Always lift the unit with ropes attached at fours points so that impact is not applied to the unit.
- Attach the ropes to the unit at an angle of 40° or less




Ⓐ 40° or less
Ⓑ Rope supporter

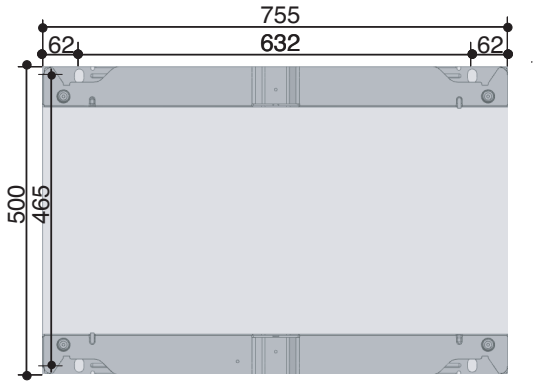


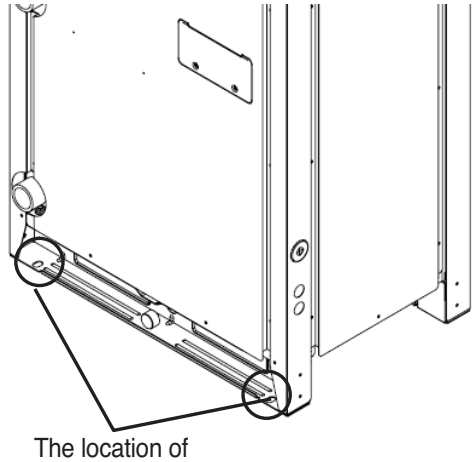
**⚠ WARNING**

## ⚠ CAUTION

- Do not have only one person carry product if it is more than 20kg.
- PP bands are used to pack some products. Do not use them as a means for transportation because they are dangerous.
- Tear the plastic packaging bag and scrap it so that children cannot play with it. Otherwise plastic packaging bag may suffocate children.
- When carrying in outside unit, be sure to support it at four points. Carrying in and lifting with 3-point support may make outside unit unstable, resulting in a fall of it.
- When carrying with the forklift, be careful not to drop the product.

## 6.1 Location of anchor bolt



The location of anchor bolt

**⚠ WARNING**

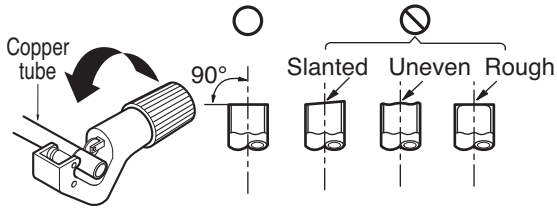
- **Be sure to install unit in a place strong enough to withstand its weight. Any lack of strength may cause unit to fall down, resulting in a personal injury.**
- **Have installation work in order to protect against a strong wind and earthquake. Any installation deficiency may cause unit to fall down, resulting in a personal injury.**
- **Especially take care for support strength of the floor surface, water drain processing (processing of water flown out from the outside unit during operation) and paths of the pipe and wiring when making a base support.**

## 6.2 Preparation of Piping

Main cause of gas leakage is defect in flaring work. Carry out correct flaring work in the following procedure.

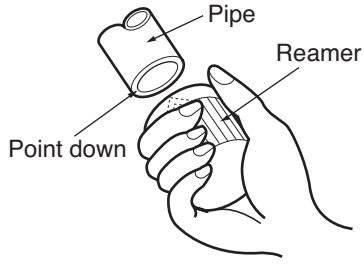
### 1) Cut the pipes and the cable.

- Use the accessory piping kit or the pipes purchased locally.
- Measure the distance between the indoor and the outside unit.
- Cut the pipes a little longer than measured distance.
- Cut the cable 1.5m longer than the pipe length.




### 2) Burrs removal

- Completely remove all burrs from the cut cross section of pipe/tube.
- Put the end of the copper tube/pipe to downward direction as you remove burrs in order to avoid to let burrs drop in the tubing.



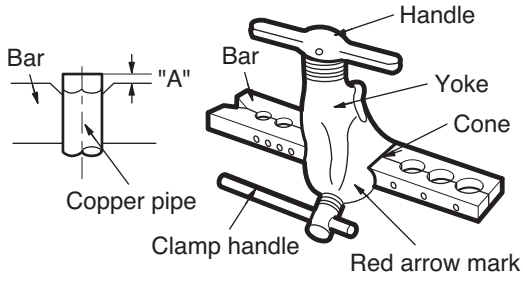

### 3) Flaring work

- Carry out flaring work using flaring tool as shown below.

[Unit:mm]

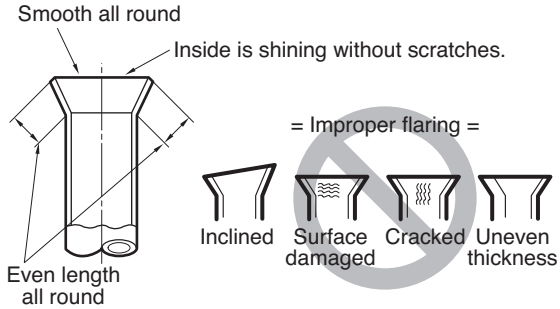
| Indoor unit [kW(Btu/h)] | Pipe | | " A " | |
|---|---|---|---|---|
| | Gas | Liquid | Gas | Liquid |
| ≤5.6(19,100) | Ø12.7 | Ø6.35 | 1.6~1.8 | 1.1~1.3 |
| <16.0(54,600) | Ø15.88 | Ø9.52 | 1.6~1.8 | 1.5~1.7 |
| ≤22.4(76,400) | Ø19.05 | Ø9.52 | 1.9~2.1 | 1.5~1.7 |

Firmly hold copper tube in a bar(or die) as indicated dimension in the table above.




### 4) Check

- Compare the flared work with figure below.
- If flare is noted to be defective, cut off the flared section and do flaring work again



### 5) Pipe connection

1. Follow the pipe path. Bend the pipe more than 3 times in 1 location and do not bend in the opposite direction. (This will strengthen the pipe.)
2. After deforming the pipe, align the union fitting and center of the pipe, and tighten it with the wrench.
3. Connect the pipe to the service valve of the outside unit.
4. After finishing the piping work, check if there is any gas leakage
5. For the flare nut, always use the material that complies with Standard or better.
6. After completing the connection of the pipe, vacuum dry the indoor unit and the connecting pipe. For the vacuum drying, you must use service ports of both the gas and liquid pipes.

| Pipe Size | Tightening Torque | |
|---|---|---|
| (mm) | (N·m) | (kgf·cm) |
| Ø6.35 | 18~25 | 180~250 |
| Ø9.52 | 34~42 | 340~420 |
| Ø12.7 | 55~66 | 550~660 |
| Ø15.88 | 63~82 | 630~820 |
| Ø19.05 | 99~121 | 990~1,210 |

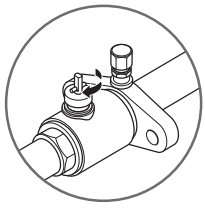
**⚠ CAUTION**

When using two wrenches, tighten at regulated torque

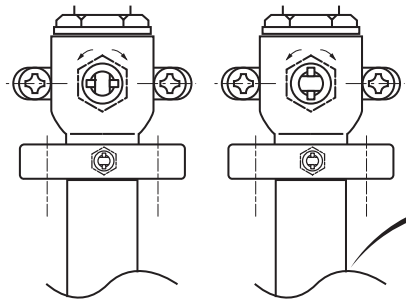
* For the pipe connection, use the method of connecting the end of the pipe to the branch pipe. The refrigerant pipe coming out from the outside unit is branched out at the end and is individually connected to the indoor unit.

**⚠ WARNING**

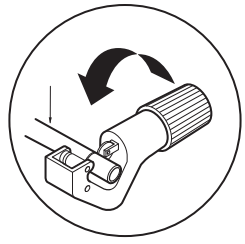
- Always be careful not to leak the refrigerant during the welding.
- When the refrigerant is combusted, it generates a toxic poisonous gas.
- Do not execute the welding work in a closed location.
- Always do a leakage test after welding the pipes.



Open status when both the pipe and the valve are in a straight line.




Cut both the pipe and the valve with a cutter to suit the length
(Don't cut the length of less than 70mm)



**⚠ WARNING**

**After completing work, securely tighten both service ports and caps so that gas does not leak.**

# 6. Installation

* High/low pressure side is the ball valve that is opened and closed by 1/4 rotation

① Pipe joint (auxiliary parts): Securely perform brazing with a nitrogen blow into the service valve port.(Releasing pressure : 0.02 MPa or less)

② Flare nut: Loose or tighten flare nut by using the wrench with both ends. Coat the flare connection part with oil for the compressor.

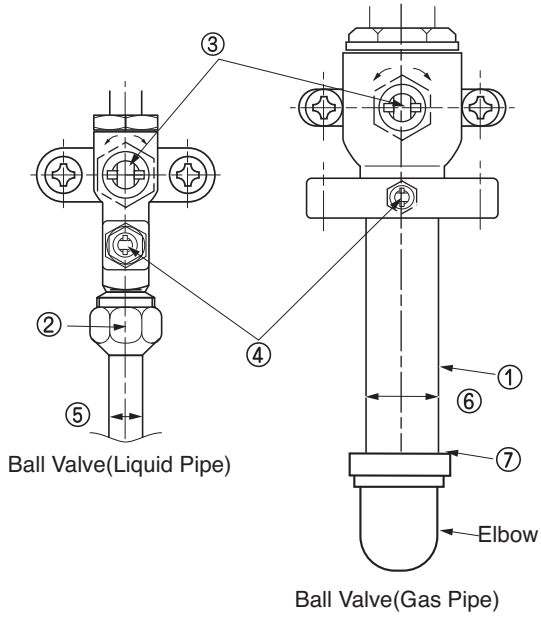
③ Cap: Remove caps and operate valve, etc. After operation, always reattach caps (tightening torque of valve cap: 25Nm (250kg-cm) or more).
(Don't remove the internal part of the port)

④ Service port: Make the refrigerant pipe vacuum and charge it using the service port. Always reattach caps after completing work (tightening torque of service cap: 14Nm (140kg-cm) or more).

⑤ Liquid pipe

⑥ Gas pipe

⑦ Elbow joint (field supply)

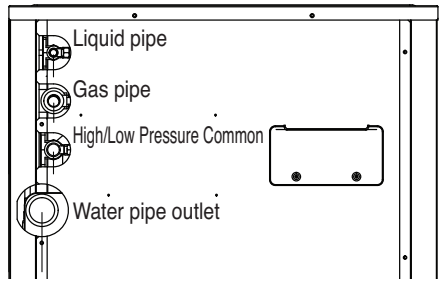



## ⚠ CAUTION

After installing the pipe, block the pipe escape of front and side panel. (It can cause mouse or other animals to enter and cause damage to the wire.)

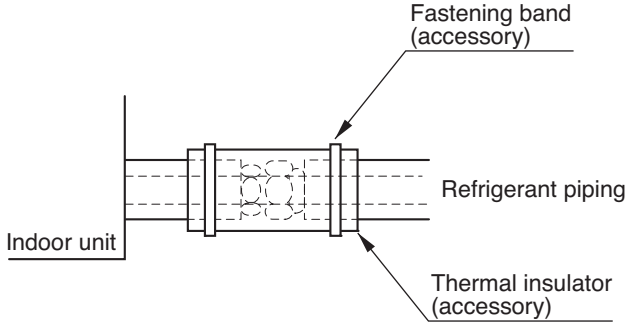


❊ Remove the front panel before pipe connection
❊ Must check the pipe (liquid pipe, gas pipe, high/low pressure common pipe) before pipe connection




### 6) Heat Insulation

1. Use the heat insulation material for the refrigerant piping which has an excellent heat-resistance (Over 120°C)
2. When installing in a humid environment, use thicker heat insulation material.
   * Consult with LG on detailed technical specification.



### 7) Standard refrigerant pipe EPDM heat insulation material thickness

[Unit:mm]

| Classification | | Air conditioned location | | Non-air conditioned location | |
|---|---|---|---|---|---|
| | | Note1) General location | Note2) Special location | Note3) General location | Note4) Negative condition |
| Liquid pipe | Ø6.35 | Above t9 | Above t9 | Above t9 | Above t9 |
| | Ø9.52 | | | | |
| | Above Ø12.7 | Above t13 | Above t13 | Above t13 | Above t13 |
| Gas pipe | Ø9.52 | Above t13 | Above t19 | Above t19 | Above t25 |
| | Ø12.7 | | | | |
| | Ø15.88 | | | | |
| | Ø19.05 | | | | |
| | Ø22.22 | | | | |
| | Ø25.4 | | | | |
| | Ø28.58 | Above t19 | | | |
| | Ø31.75 | | Above t25 | Above t25 | |
| | Ø34.9 | | | | |
| | Ø38.1 | | | | |
| | Ø44.45 | | | | |

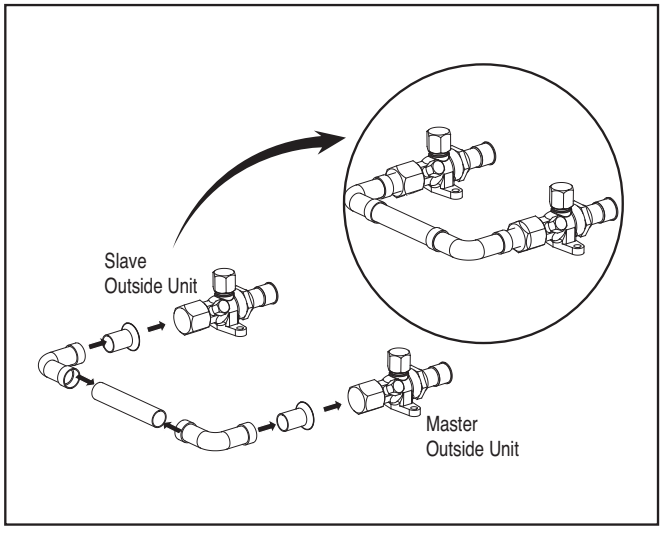
**Note 1)** General location: When the pipe passes through indoors in which the indoor unit is operated
- Apartment, classroom, office, mall, hospital, office-tel etc.

**Note 2)** Special location
1. When the location is air conditioned but has severe temperature/humidity difference due to high ceiling
   - Church, auditorium, theater, lobby etc.
2. When the location is air conditioned but the internal temperature/humidity of the ceiling finishing is high
   - Bathroom/swimming pool locker room etc. (Building with roof ceiling of sandwich assembly type)

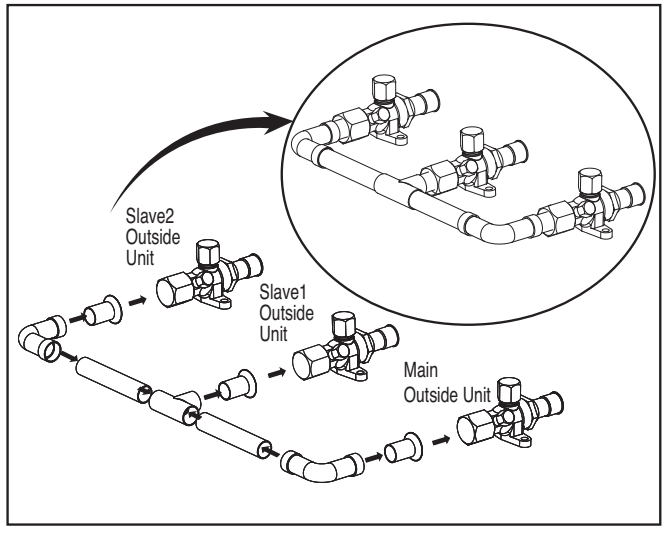
**Note 3)** General location: When the pipe passes indoors where the indoor unit is not operated
- Hall way etc. (Dormitory, school, office-tel)

**Note 4)** Negative condition: When below conditions 1 and 2 are met.
1. When the pipe passes indoors where the indoor unit is not operated
2. When the humidity is high, regionally, and there is no air flow in the pipe passing area
   - When installing the outside unit within the outside pipe tray or at a location where it is ok to have freezes, apply 13t.
   - If you are not sure with the selection of heat insulation material, coordinate with the supervision or HQ.
   - The thickness of the above heat insulation material is based on the heat conductivity of 0.088W/m°C.

### 8) Connection of high/low pressure common pipe




**2 Outside Units**

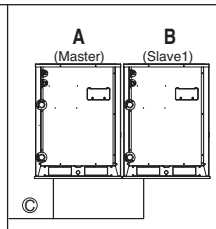
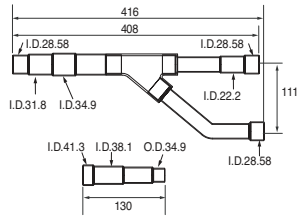
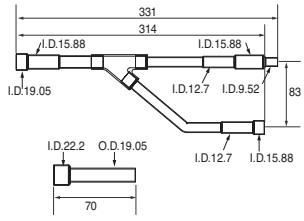
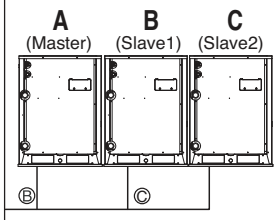
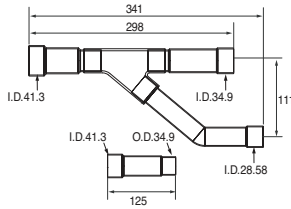
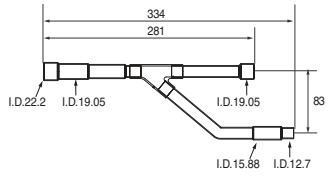
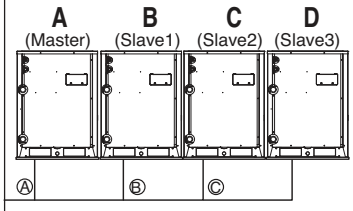
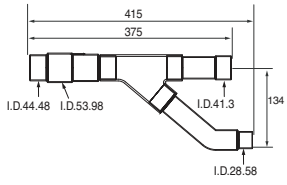
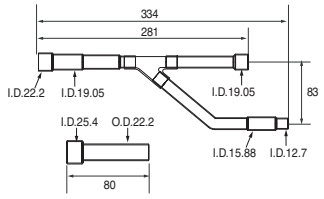



**3 Outside Units**

1. For the high/low pressure common pipe, connect both master outside unit and slave outside units to the pipe by using elbows.
2. For cutting the pipe, connect the high/low pressure common pipe after removing burrs, dusts and foreign material within the pipe. Otherwise, the product may not operate due to sludge within the pipe.
3. For the working part leakage test, apply the nitrogen gas pressure of 3.8MPa (38.7kgf/cm$^2$).
4. The vacuum criteria is to maintain the vacuum level to less than 5 Torr 1 hour after reaching 5 Torr. (Execute the vacuum work again when it is below the criteria.)
5. Open the valve with the hexagon wrench.

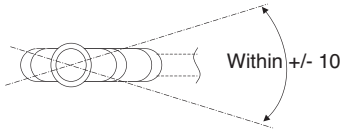
### 9) Connecting branch pipe between outside units

[Unit:mm]

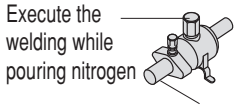
| Outdoor units | | Model | Gas pipe | Liquid pipe |
|---|---|---|---|---|
| 2 Unit |  | Ⓒ ARCNN21 |  |  |
| 3 Unit |  | Ⓑ ARCNN31 |  |  |
| 4 Unit |  | Ⓐ ARCNN41 |  |  |

* Maximum number of connectable units could be different in accordance with model line up of target region.

* Install the branch pipe between outside units so that the outlet pipe is parallel to the surface.




Viewed from point A
in direction of arrow




Do not cut for
70mm or less

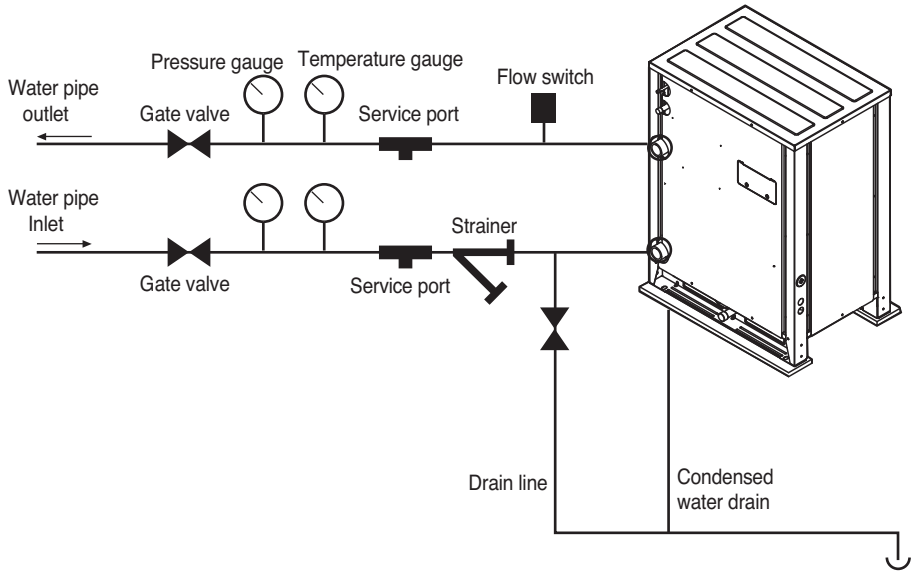
## ⚠ CAUTION

**When installing the branch pipe vertically between the outside units, the refrigerant can be uneven between the outside units, leading to compressor burn and reduced capacity**

### 10) Installation of water pipe

**1. Water pipe system diagram**

- The water pressure resistance of the water pipe system of this product is 1.98MPa
- When the water pipe passes indoors, make sure to execute heat insulation on the pipe so that water drops do not form on the outer side of the water pipe.
- The size of the drain pipe must be equal to or larger than the diameter of the connecting product.
  - Always install a trap so that the drained water does not back flush.
- Always install a strainer (50Mesh or above) at the entrance of the water pipe. (When sand, trash, rusted pieces get mixed into the water supply, it can cause problems to the product due to blocking)
  - If On/Off valve is applied, by interlocking with outside unit, it can save the energy consumption of pump by blocking the water supply to the outside unit not operating.
    Select appropriate valve and install on site if necessary.
- Install a pressure gauge and temperature gauge at the inlet and outlet of the water pipe.
- Flexible joints must be installed not to cause any leakage from the vibration of pipes.
- Install a service port to clean the heat exchanger at the each end of the water inlet and outlet.
- For the components of the water pipe system, always use components above the designed water pressure.
- For protecting the heat exchanger, it should be installed the flow switch.




**⚠ CAUTION**

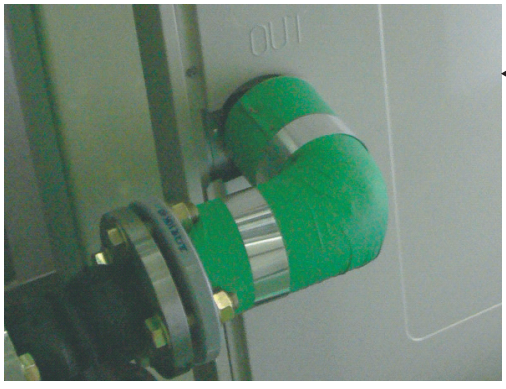
**Do not directly connect the drain outlet to the water pipe outlet.**
**(It can cause problems to the product.)**

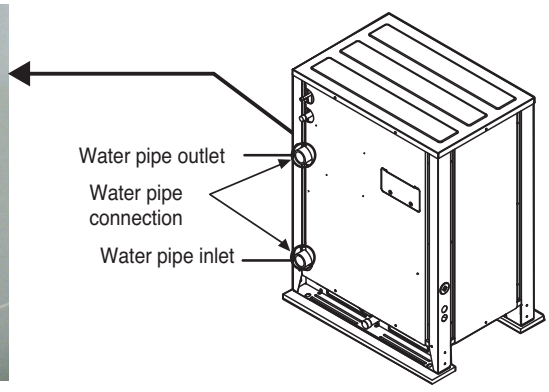
# 6. Installation

**2. Water pipe connection**

- The water pipe should be the same size of the connection on the product or more.
- If necessary install the insulation material in the water pipe inlet/outlet to prevent water drop, freeze and to save energy. (Use the above 20mm thickness Pe insulation material.)
- Tightly connect the socket to the water pipe refer to below table for recommended specification. (Too much torque may cause the damage of the facility.)

| Pipe thickness | | Shear stress | | Tensile stress | | Bending moment | | Torque | |
|---|---|---|---|---|---|---|---|---|---|
| mm | inch | (kN) | (kgf) | (kN) | (kgf) | (N·m) | (kgf·m) | (N·m) | (kgf·m) |
| 12.7 | 1/2 | 3.5 | 350 | 2.5 | 250 | 20 | 2 | 35 | 3.5 |
| 19.05 | 3/4 | 12 | 1,200 | 2.5 | 250 | 20 | 2 | 115 | 11.5 |
| 25.4 | 1 | 11.2 | 1,120 | 4 | 400 | 45 | 4.5 | 155 | 15.5 |
| 31.8 | 1 1/4 | 14.5 | 1,450 | 6.5 | 650 | 87.5 | 8.75 | 265 | 26.5 |
| 38.1 | 1 1/2 | 16.5 | 1,700 | 9.5 | 950 | 155 | 16 | 350 | 35.5 |
| 50.8 | 2 | 21.5 | 2,200 | 13.5 | 1,400 | 255 | 26 | 600 | 61 |



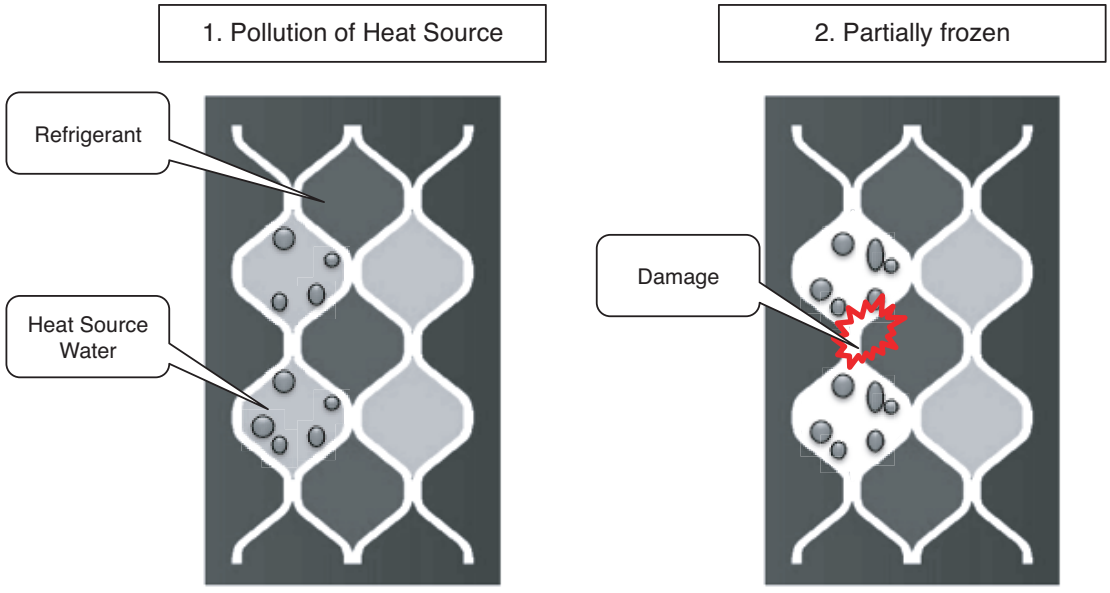



# 7. Device protection unit

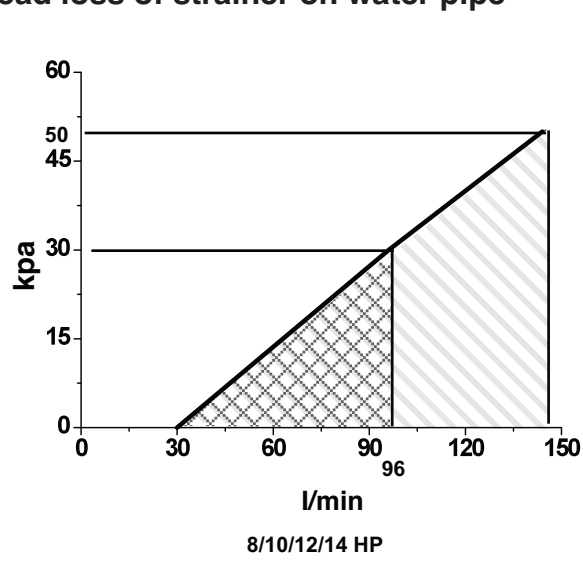
## 7.1 Strainer on water pipe

To protect the water cooling type product, you must install a strainer with 50 mesh or more on the heat water supply pipe. If not installed, it can result in damage of heat exchanger by the following situation.

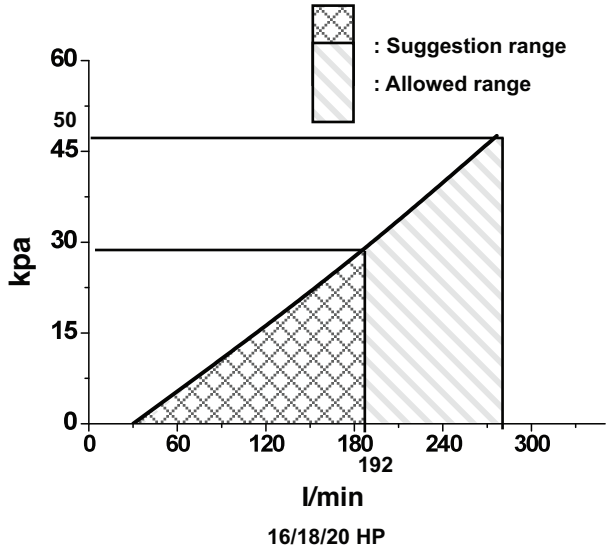
1. Heat water supply within the plate type heat exchanger is composed of multiple small paths.
2. If you do not use a strainer with 50 mesh or more, alien particles can partially block the water paths.
3. When running the heater, the plate type heat exchanger plays the role of the evaporator, and at this time, the temperature of the coolant side drops to drop the temperature of the heat water supply, which can result in icing point in the water paths.
4. And as the heating process progresses, the water paths can be partially frozen to lead to damage in plate type heat exchanger.
5. As a result of the damage of the heat exchanger from the freezing, the coolant side and the heat water source side will be mixed to make the product unusable.




### Head loss of strainer on water pipe




8/10/12/14 HP



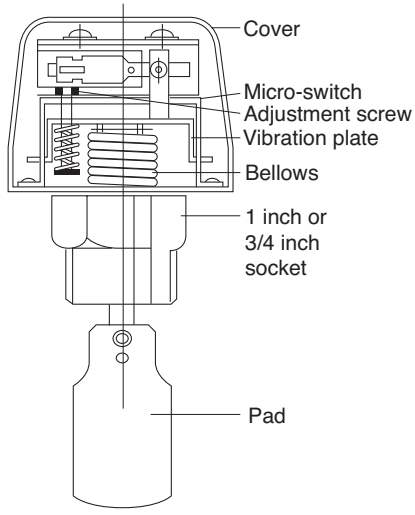

16/18/20 HP

❉ Upper graph is a theoretical value for selection and it may be different according to specification of strainer.
❉ Application for models could be different in accordance with model line up of target region.

# 7. Device protection unit

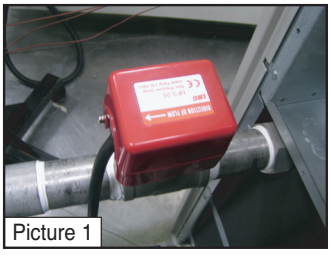
## 7.2 Flow switch work

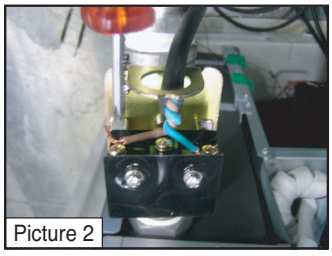
- The flow switch must be installed at the horizontal water pipe of the outside unit outlet connection.
  (Flow switch acts as the 1st protection device when the heat water is not supplied. If a certain level of water does not flow after installing the flow switch, an error sign of CH24 error will be displayed on the product and the product will stop operating.)
- When setting the flow switch, it is recommended to use the product with default set value to satisfy the minimum flow rate of this product.
  (The minimum flow rate range is 50% of product rated water flow.
  Refer to the specification of each model)
- Select the flow switch with the permitted pressure specification considering the pressure specification of the heat water supply system.
  (Control signal from outside unit is AC 220V.)

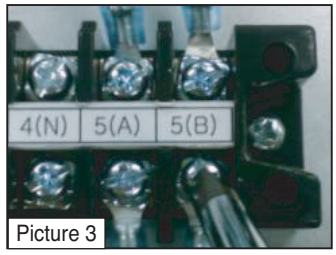



## 7.3 Installation of flow switch

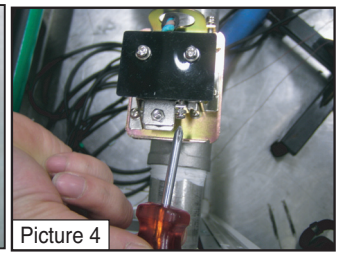
- The flow switch must be installed at the horizontal pipe of the heat water supply outlet of the product and check the direction of the heat water flow before the installation. (Picture 1)
- When connecting the flow switch to the product, remove the jump wire to connect to the communication terminal (5(A) and 5(B)) of the outside unit control box. (Picture 2, 3) (Open the cover of the flow switch and check the wiring diagram before connecting the wires. The wiring method can differ by the manufacturer of the flow switch.)
- If necessary, adjust the flow rate detection screw after consulting with an expert and adjust to the minimum flow rate range. (Picture 4) (Minimum flow rate range of this product is 50%. Adjust the flow switch to touch the contact point when the flow rate reaches 50% of the flow rate.)
  - Refer to the specification of each model.


Picture 1


Picture 2



Picture 3


Picture 4

### ⚠ CAUTION

- If the set value does not satisfy the minimum flow rate or if the set value is changed by the user arbitrarily, it can result in product performance deterioration or serious product problem.
- If the product is operated with the heat water supply not flowing smoothly, it can damage the heat exchanger or cause serious product problems.
- In case of CH24 or CH180 error, there is a possibility that the plate type heat exchanger is partially frozen inside. In this case resolve the issue of partial freezing and then operate the product again. (Cause of partial freezing : Insufficient heat water flux, water not supplied, insufficient coolant, alien particle penetrated inside plate type heat exchanger)
- When the product operates while the flow switch touches the contact point at the flow rate range out of the permitted range, it can cause product performance deterioration or serious product problem.
- Must use the normal closed type flow switch
  - Circuit of outside unit is normal closed type

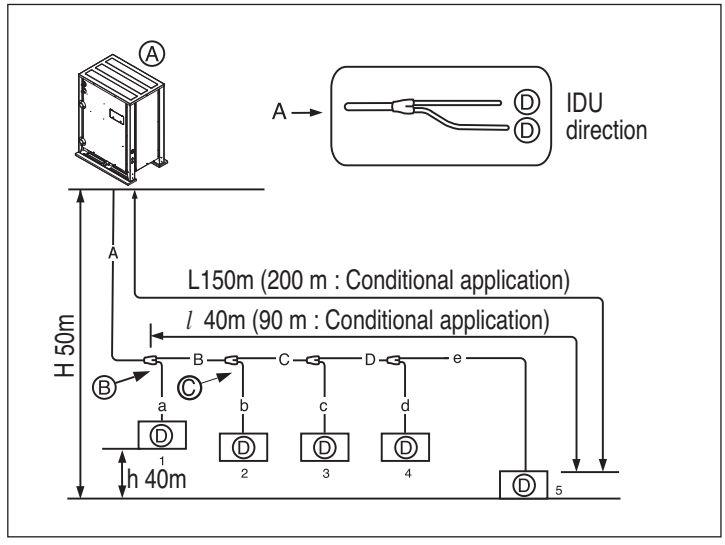
## 8.1 Refrigerant piping system

### Y branch method

**Single outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture

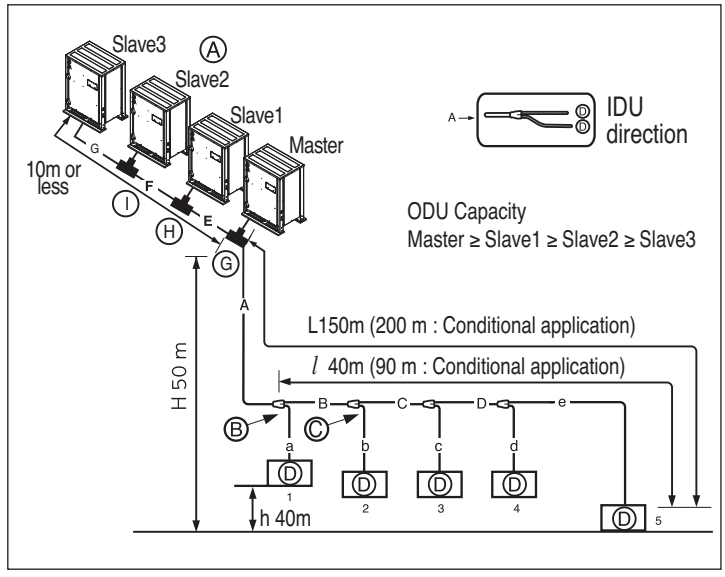



* If it is conditionally installed, refer to (table 1).

**Series outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture
Ⓖ : Outside branch(1st)
Ⓗ : Outside branch(2nd)
Ⓘ : Outside branch(3rd)




* If it is conditionally installed, refer to (table 1).

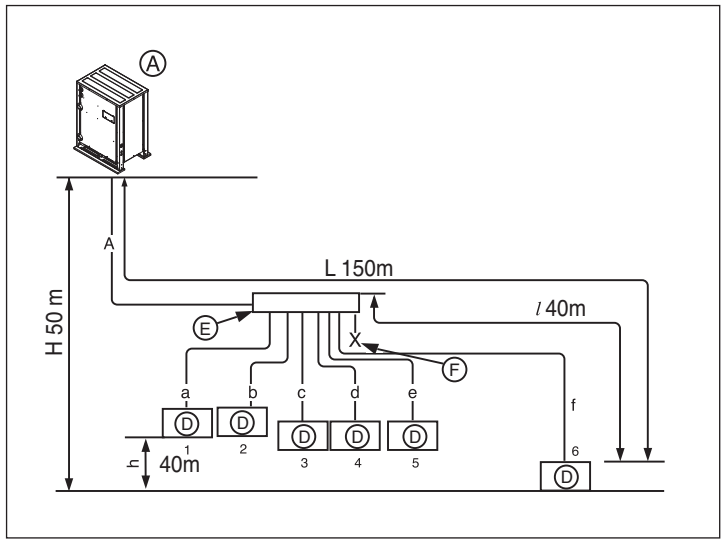
# 8. Refrigerant piping system

## Header Method

**Single outside unit system**

**Example : 6 Indoor Units connected**

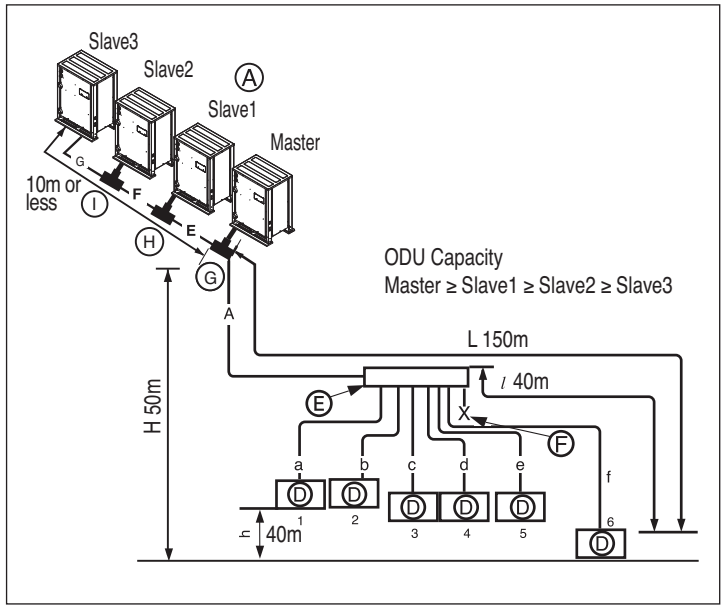
Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture




**Series outside unit system**

**Example : 6 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture
Ⓖ : Outside branch(1st)
Ⓗ : Outside branch(2nd)
Ⓘ : Outside branch(3rd)

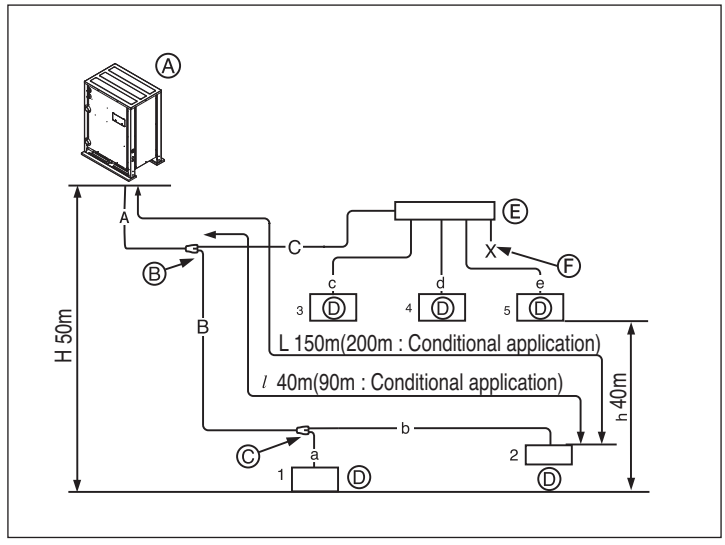


## Combination of Y branch/header method

**Single outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture

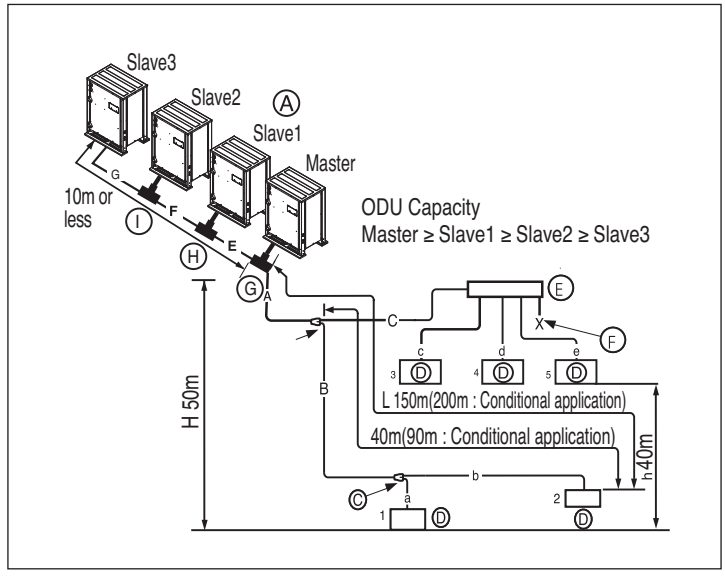



* If it is conditionally installed, refer to (table 1).

**Series outside unit system**

**Example : 5 Indoor Units connected**

Ⓐ : Outside Unit
Ⓑ : 1st branch
Ⓒ : Y branch
Ⓓ : Indoor Unit
Ⓔ : Header branch
Ⓕ : Suture
Ⓖ : Outside branch(1st)
Ⓗ : Outside branch(2nd)
Ⓘ : Outside branch(3rd)




* If it is conditionally installed, refer to (table 1).

# 8. Refrigerant piping system

## ➲ Refrigerant pipe diameter from branch to branch (B,C,D)

| Downward Indoor Unit total capacity [kW(Btu/h)] | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] |
|---|---|---|
| ≤ 5.6(19,100) | Ø6.35(1/4) | Ø12.7(1/2) |
| < 16.0(54,600) | Ø9.52(3/8) | Ø15.88(5/8) |
| < 22.4(76,400) | Ø9.52(3/8) | Ø19.05(3/4) |
| < 33.6(114,700) | Ø9.52(3/8) | Ø22.2(7/8) |
| < 50.4(172,000) | Ø12.7(1/2) | Ø28.58(1-1/8 ) |
| < 67.2(229,300) | Ø15.88(5/8) | Ø28.58(1-1/8 ) |
| < 72.8(248,400) | Ø15.88(5/8) | Ø34.9(1-3/8) |
| < 100.8(344,000) | Ø19.05(3/4) | Ø34.9(1-3/8) |
| < 173.6(592,500) | Ø19.05(3/4) | Ø41.3(1-5/8) |
| < 184.8(630,700) | Ø22.2(7/8) | Ø44.5(1-3/4) |
| ≤ 291.2(993,600) | Ø22.2(7/8) | Ø53.98(2-1/8) |

## ➲ Total pipe length limited

| Classification | Section | Type | Y branch | Y/header branch | Header branch |
|---|---|---|---|---|---|
| Maximum permitted length | Outside Unit ↔ indoor unit | Maximum pipe length(L) | A+B+C+D+e ≤ 150 m (Conditionally 200 m)* | A+B+b ≤ 150 m A+C+e ≤ 150 m (Conditionally 200m)* | A+f ≤ 150 m |
| | | Corresponding pipe length | 175 m (Conditionally 225 m)* | 175 m (Conditionally 225 m)* | 175 m |
| | | Total pipe length (Outside Unit ↔ total indoor unit) | 300 m (Conditionally 500 m)* | 300 m (Conditionally 500 m)* | 300 m (Conditionally 500 m)* |
| Permitted height | Outside Unit ↔ indoor unit | height difference(H) | 50 m | 50 m | 50 m |
| | Indoor unit ↔ indoor unit | height difference(h) | 40 m | 40 m | 40 m |
| Maximum pipe length after 1st branch | | Actual pipe length( ℓ ) | 40 m (Conditionally 90m)* | 40 m (Conditionally 90m)* | 40 m |

### ⚠ WARNING

- It is recommended that difference of piping length for pipes connected to the Indoor Unit is minimized. Performance difference between Indoor Units may occur.
- When the any one (or both ) of below conditions are satisfied, the diameter of main pipe (A) must be increased according to below table.
  - The equivalent length between outside unit and the farthest indoor unit is 90m or more (Liquid and Gas pipes are increased)

# 8. Refrigerant piping system

## ➲ Refrigerant pipe diameter from outside unit to first branch. (A, E, F, G)

| Upward outside unit total capacity | Standard pipe diameter | | Increased pipe diameter | |
|---|---|---|---|---|
| | | | When equivalent pipe length from the outside unit to farthest indoor unit is 90m and over | |
| HP | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] |
| 8 | Ø 9.52(3/8) | Ø 22.2(7/8) | Ø 12.7(1/2) | not increased |
| 10 | Ø 9.52(3/8) | Ø 22.2(7/8) | Ø 12.7(1/2) | Ø 25.4(1) |
| 12 | Ø 12.7(1/2) | Ø 25.4(1) | Ø 15.88(5/8) | Ø 28.58(1-1/8) |
| 14 | Ø 12.7(1/2) | Ø 25.4(1) | Ø 15.88(5/8) | Ø 28.58(1-1/8) |
| 16 ~ 20 | Ø 12.7(1/2) | Ø 28.58(1-1/8) | Ø 15.88(5/8) | Ø 31.8(1-1/4) |
| 22 ~34 | Ø 19.05(3/4) | Ø 34.9(1-3/8) | Ø 22.2(7/8) | Ø 38.1(1-1/2) |
| 36 ~ 60 | Ø 19.05(3/4) | Ø 41.3(1-5/8) | Ø 22.2(7/8) | not increased |
| 62 ~ 64 | Ø 22.2(7/8) | Ø 44.5(1-3/4) | Ø 25.4(1) | Ø 53.98(2-1/8) |
| 66 ~ 80 | Ø 22.2(7/8) | Ø 53.98(2-1/8) | Ø 25.4(1) | not increased |

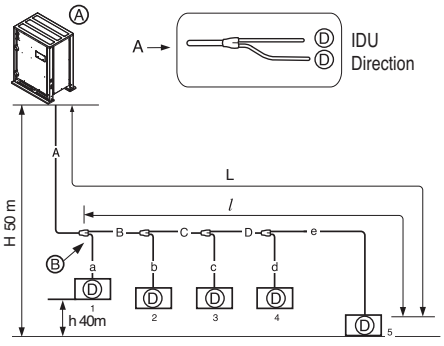
* If available on site, select pipe size from the pipe diameter table according to capacity.
  Otherwise it doesn't need to be increased.

# 8. Refrigerant piping system

## ◆ (Table 1) Cautions during the installation of Maximum pipe length 90m after the 1st branch

### ⚠ WARNING

To install maximum pipe length after the 1st branch exceeding 40 m and 90 m or less, the following conditions must be satisfied.

| | Required | Example | |
|---|---|---|---|
| 1 | Select the diameter of the pipe between the 1st branch and the last branch to be 1 level larger. Provided that, it is not necessary if the pipe diameter is the same as the main pipe. | 40 m < B+C+D+e ≤ 90 m → Change B, C, and D pipe diameter. | Ø6.35 → Ø9.52, Ø9.52 → Ø12.7, Ø12.7 → Ø15.88, Ø15.88 → Ø19.05, Ø19.05 → Ø22.2, Ø22.2 → Ø25.4, Ø25.4 → Ø28.58, Ø28.58 → Ø31.8, Ø31.8 → Ø34.9, Ø34.9 → Ø38.1<br>* If available on site, select pipe size from the pipe diameter table according to capacity. Otherwise it doesn't need to be increased. |
| 2 | During the calculation of the total refrigerant pipe length, the above pipe length shall be calculated as twice. | A+Bx2+Cx2+ Dx2+a+b+c+d+e ≤ 500 m |   |
| 3 | The length from each indoor unit to the nearest branch pipe ≤ 40 m | a,b,c,d,e ≤ 40 m | |
| 4 | Length from outside unit to the farthest indoor unit] – [Length from outside unit to the nearest indoor unit] ≤ 40 m | (A+B+C+D+e)-(A+a) ≤ 40 m | |

## ◆ Cautions for Y branch pipe

### ⚠ WARNING

If the pipe diameter(B, C) connected after the 1st branch is larger than the main pipe diameter(A), install the pipe diameter(B, C) connected after the 1st branch to be the same as the main pipe diameter(A).

Example) If indoor units are connected 120 % to 29 kW

- Outside unit main pipe diameter(A): (Gas pipe) (Fluid pipe)
- Pipe diameter(B, C) after the 1st branch according to 120% indoor unit combination(34.8kW): (Gas pipe) (Fluid pipe)
  Therefore, select the pipe diameter(B, C) after the 1st branch to be main pipe diameter(A) (Gas pipe) (Fluid pipe)

## ◆ Cautions for header branch pipe

### ⚠ WARNING

- It is recommended to install the difference between the length of the pipe after header branch(a~f) and the length of the pipe connected to indoor unit to be the minimum.
- As the pipe length difference increases, there may be performance differences between indoor units.
- Y branch and header branch cannot be used after header branch.

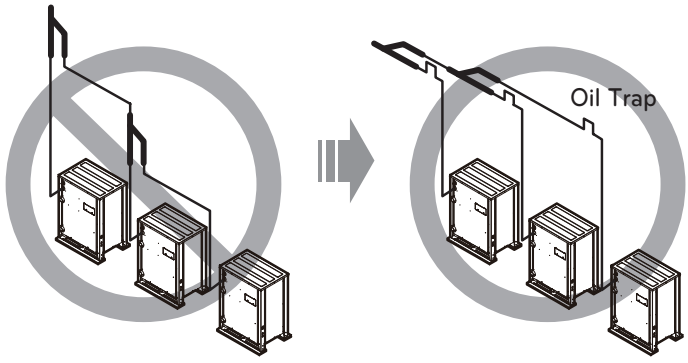
## 8.2 Indoor unit connection

➔ Indoor unit connecting pipe from branch (a~f)

| Indoor unit capacity [kW(Btu/h)] | Liquid pipe [mm(inch)] | Gas pipe [mm(inch)] |
|---|---|---|
| ≤ 5.6(19,100) | Ø6.35(1/4) | Ø12.7(1/2) |
| < 16.0(54,600) | Ø9.52(3/8) | Ø15.88(5/8) |
| ≤ 22.4(76,400) | Ø9.52(3/8) | Ø19.05(3/4) |
| < 33(112,600) | Ø9.52(3/8) | Ø22.2(7/8) |

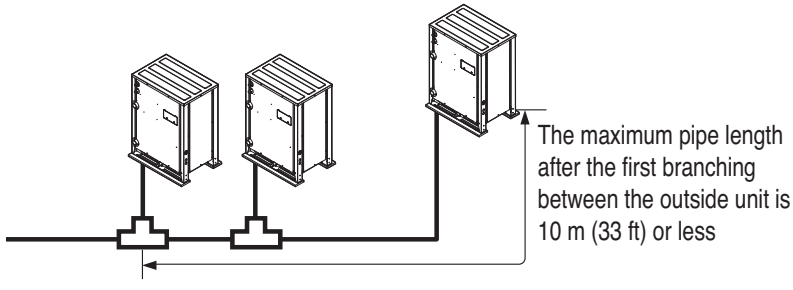
## 8.3 Pipe Connection Method/Precautions for Series connections between Outside units

- Separate Y branch joints are needed for series connections between outside units.
- Y-branches between the outside units must be installed horizontally.



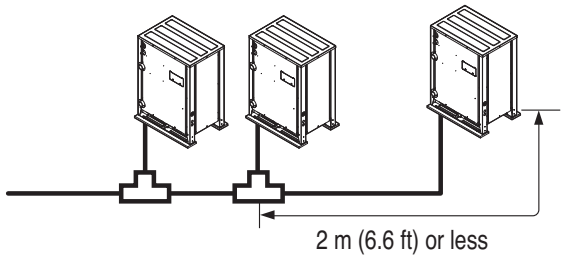

- Please refer to the below connection examples to install pipe connections between outside units.

**Pipe connection between outside units (General Case)**

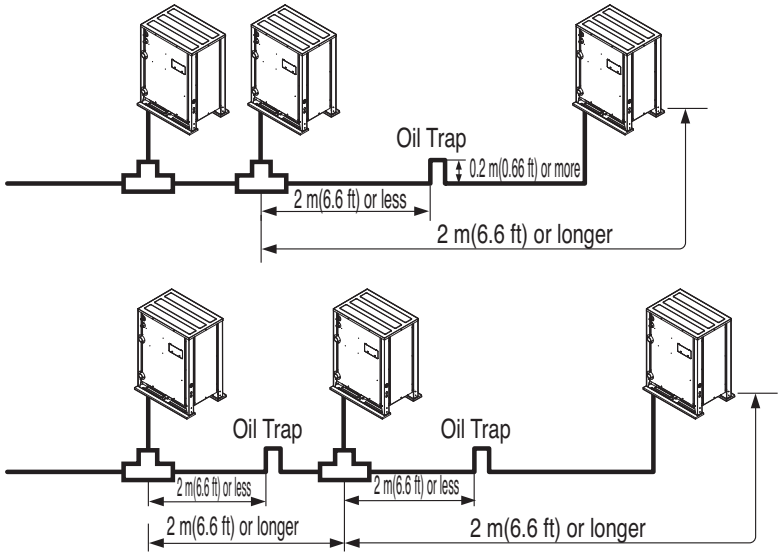


# 8. Refrigerant piping system

### Pipes between outside units are 2 m(6.6 ft) or less




### Pipes between outside units are 2 m(6.6 ft) or longer



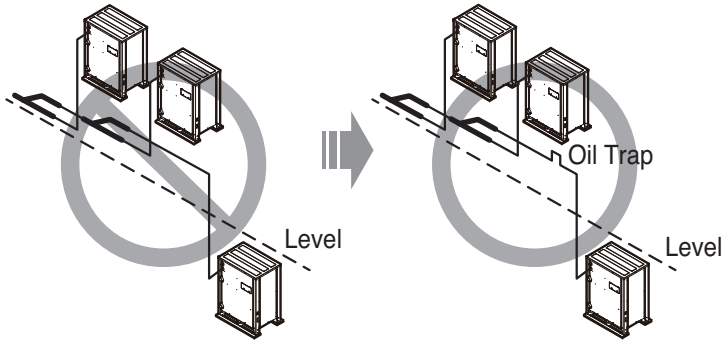

- If the distance between the outside units becomes more than 2 m (6.6 ft), apply Oil Traps between the gas pipes.
- If the outside unit is located lower than the main pipe, apply Oil Trap.

## 8.4 Oil trap application method between outside units

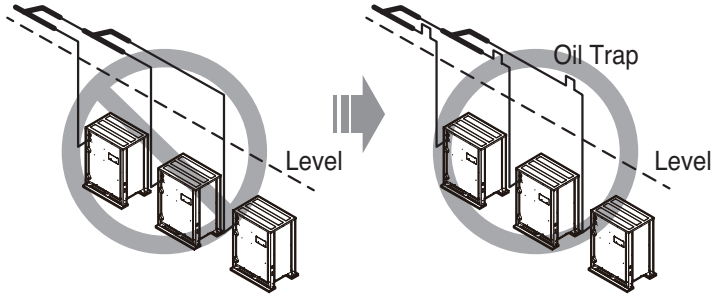
- Because of the possibility of oil being accumulated in the outside unit that has stopped, when there is a height difference between outside unit pipes or if the pipe distance between the outside units is over 2m, you must always apply an oil trap. (But, the oil trap between outside units is limited to 1 time and is only applied to the gas pipe.)
- If the pipe distance between the outside units is 2m or below, and if the location of the main pipe is lower than that of the outside unit and if the location of the main pipe is lower than that of the outside unit, the oil trap does not have to be applied.
- If the location of the main pipe is higher than the location of the outside unit, be careful since the oil can be accumulated in the stopped outside unit.
- If there is high/low difference between the outside unit pipes, oil can be accumulated to the outside unit on the lower location until the unit stops.

### Examples of Wrong Pipe Connections

- If outside units are located at different level, oil trap must be installed after each Y branch.
- Oil trap should be located at same level of Y branch. (Heat Pump : High Pressure Vapor / Heat Recovery : High Pressure Vapor & Low Pressure Vapor)



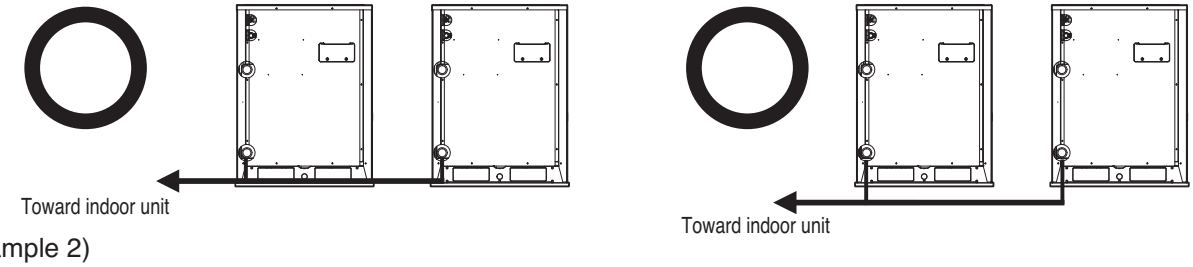

- If pipe is higher than outside unit, oil trap must be installed after each Y branch.
- Oil trap should be located at same level of Y branch. (Heat Pump : High Pressure Vapor / Heat Recovery : High Pressure Vapor & Low Pressure Vapor)



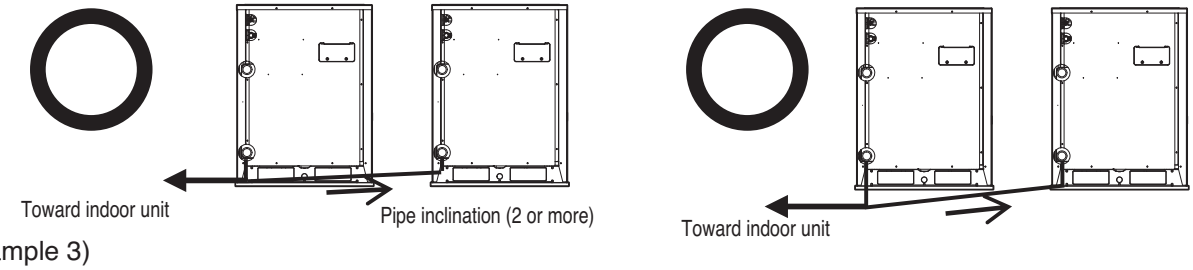
# 8. Refrigerant piping system

- The pipes between the outside unit must maintain horizontal levelness or give an inclination to prevent a back flow toward the slave outside unit. Otherwise, the unit may not operate properly.

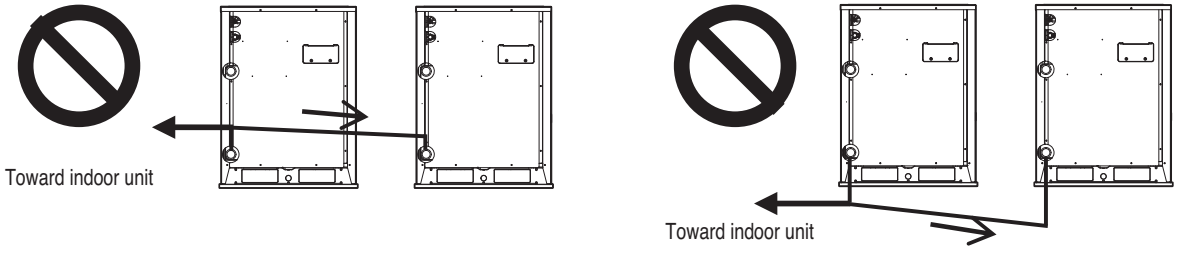
(Example 1)




(Example 2)

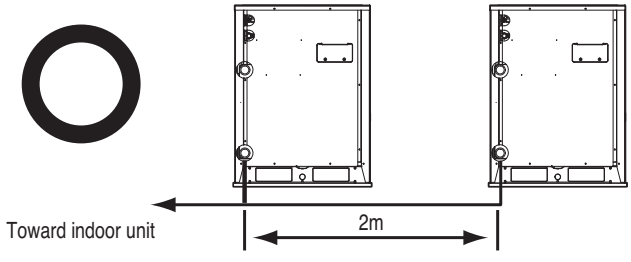



(Example 3)

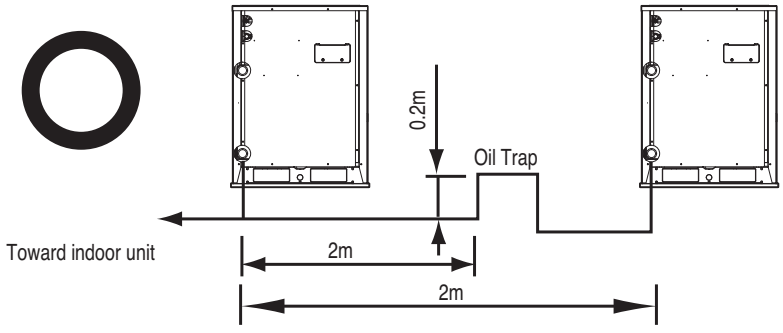



- Apply Oil Trap as shown below when the length of the pipe between the outside units is more than 2m. Otherwise, the unit may not operate properly.

(Example 1)



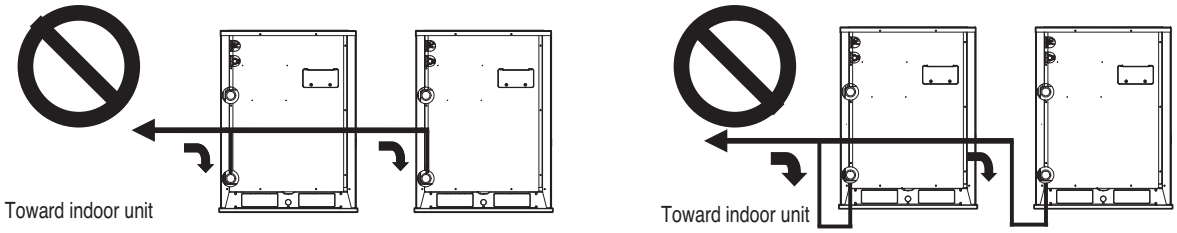

(Example 2)



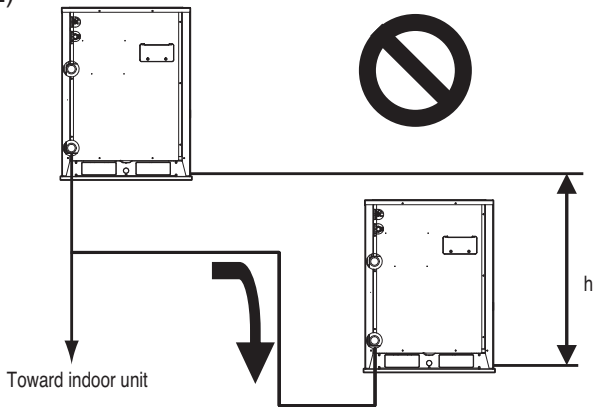
# 8. Refrigerant piping system

- When connecting the pipes between the outside units, the accumulation of oil in the slave outside unit should be avoided. Otherwise, the unit may not operate properly.

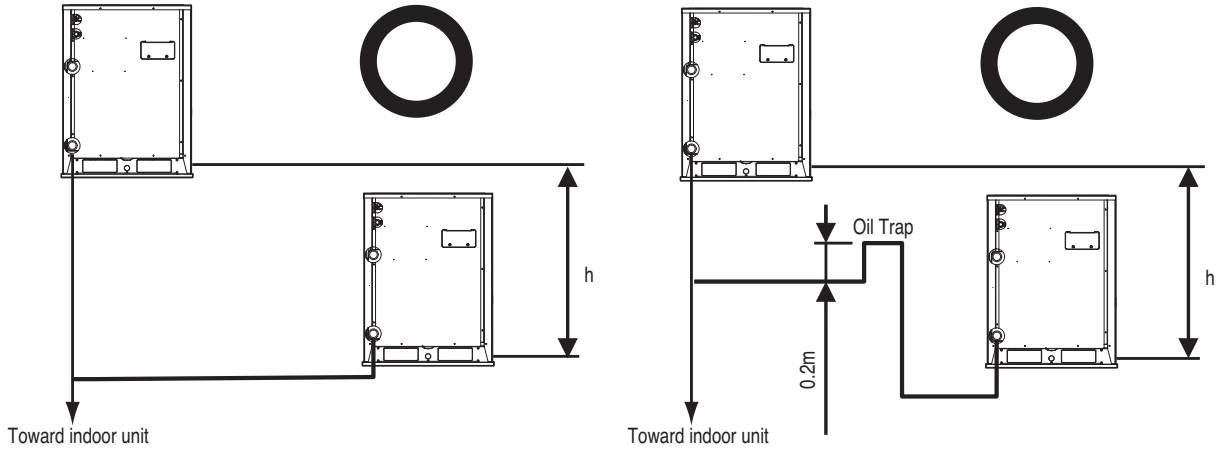
(Example 1)




(Example 2)




(Example 3)



## 8.5 Calculation of amount of refrigerant

The calculation of the additional charge should take into account the length of pipe and CF(correction Factor) value of indoor unit.

| | | | |
|---|---|---|---|
| Additional charge(kg) | = | Total liquid pipe :Ø25.4 mm | × 0.480(kg/m) |
| | + | Total liquid pipe :Ø22.2 mm | × 0.354(kg/m) |
| | + | Total liquid pipe :Ø19.05 mm | × 0.266(kg/m) |
| | + | Total liquid pipe :Ø15.88 mm | × 0.173(kg/m) |
| | + | Total liquid pipe :Ø12.7 mm | × 0.118(kg/m) |
| | + | Total liquid pipe :Ø9.52 mm | × 0.061(kg/m) |
| | + | Total liquid pipe :Ø6.35 mm | × 0.022(kg/m) |
| | + | CF value of indoor unit | |
| | + | CF value of outside unit (kg/EA) | |

**Note:**

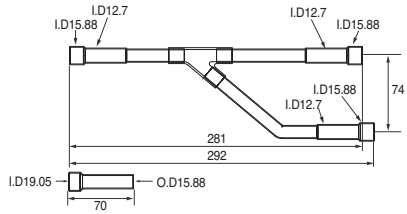
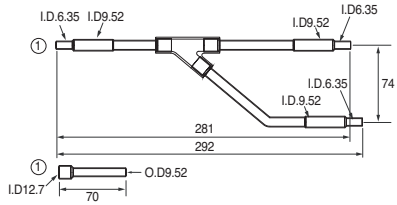
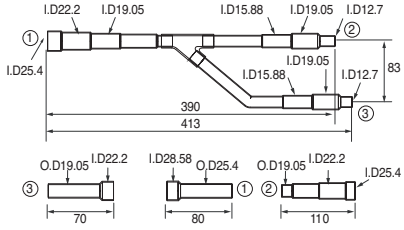
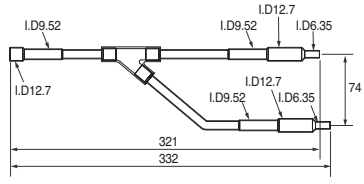
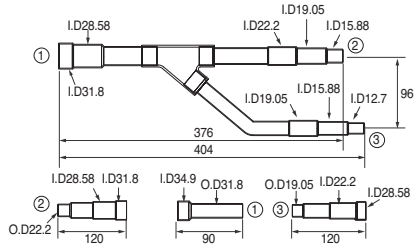
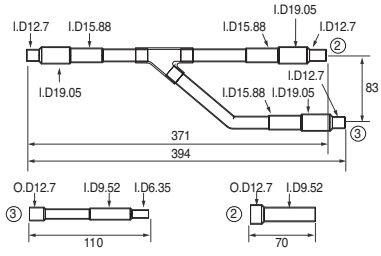
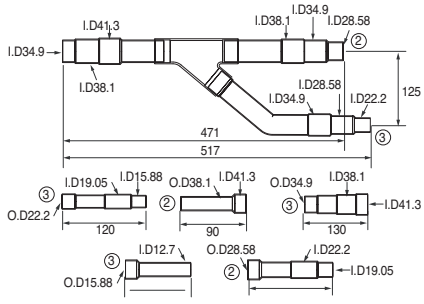
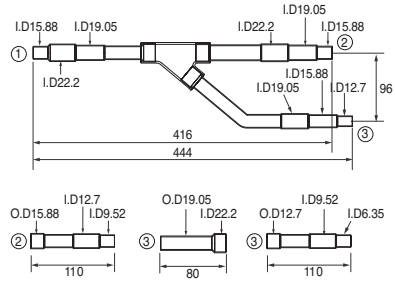
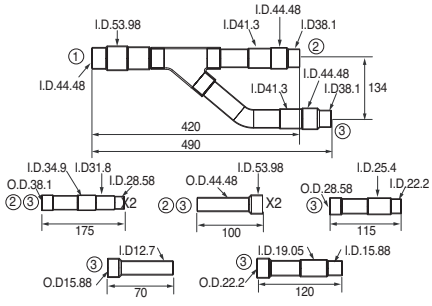
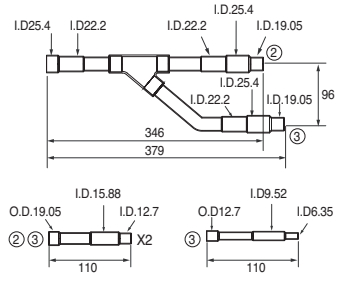
1) Please refer to the indoor unit's PDB or the outside unit's installation manual for the additional refrigerant table of indoor units
2) Please refer to the below table for the CF value of outside unit

| Region | CF | Voltage | Model name |
|---|---|---|---|
| Central & South America | -1.1 kg (-2.42 lb) | 220V | ARWN080BAS4, ARWN100BAS4, ARWN120BAS4, ARWN140BAS4, ARWN160BAS4 |
| | | 380V | ARWN080LAS4, ARWN100LAS4, ARWN120LAS4, ARWN140LAS4 |
| | | 460V | ARWN080DAS4, ARWN100DAS4, ARWN120DAS4, ARWN140DAS4 |
| | 2.3 kg (5.06 lb) | 220V | - |
| | | 380V | ARWN160LAS4, ARWN180LAS4, ARWN200LAS4 |
| | | 460V | ARWN160DAS4, ARWN180DAS4, ARWN200DAS4 |
| Global | -1.1 kg (-2.42 lb) | 380V | ARWN080LAS4, ARWN100LAS4, ARWN120LAS4, ARWN140LAS4 |
| | 2.3 kg (5.06 lb) | | ARWN160LAS4, ARWN180LAS4, ARWN200LAS4 |

# 9. Y branch pipe and header branch pipe type

## 9.1 Y branch pipe

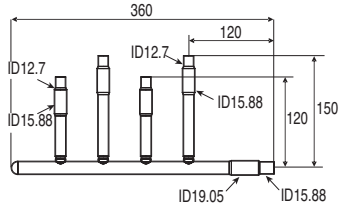
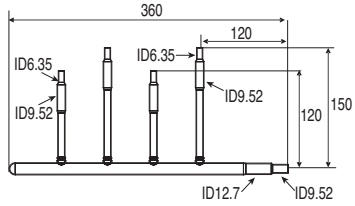
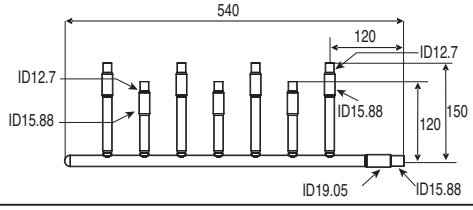
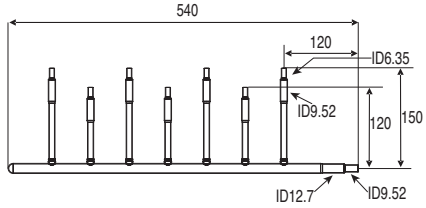
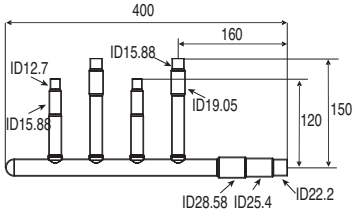
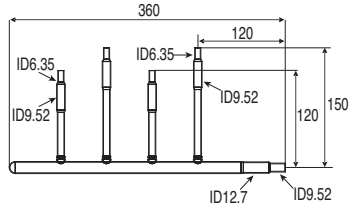
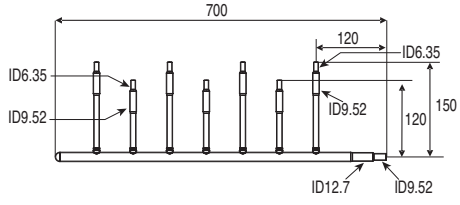
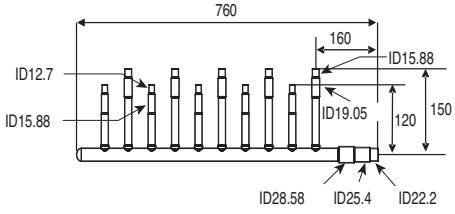
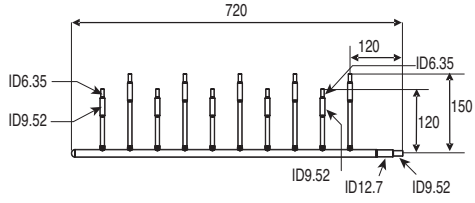
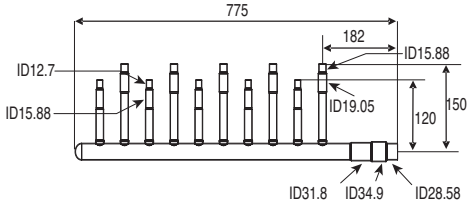
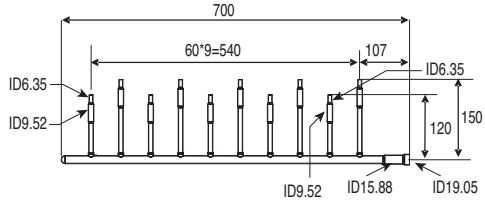
[unit:mm]

| Models | Gas pipe | Liquid pipe |
|---|---|---|
| ARBLN01621 |  |  |
| ARBLN03321 |  |  |
| ARBLN07121 |  |  |
| ARBLN14521 |  |  |
| ARBLN23220 |  |  |

# 9. Y branch pipe and header branch pipe type

## 9.2 Header

[unit:mm]

| Models | Gas pipe | Liquid pipe |
|---|---|---|
| 4 branch<br>ARBL054 |  |  |
| 7 branch<br>ARBL057 |  |  |
| 4 branch<br>ARBL104 |  |  |
| 7 branch<br>ARBL107 | |  |
| 10 branch<br>ARBL1010 |  |  |
| 10 branch<br>ARBL2010 |  |  |

# 10. Electrical Wiring

## 10.1 Areas of Caution

1. Follow ordinance of your governmental organization for technical standard related to electrical equipment, wiring regulations and guidance of each electric power company.

**⚠ WARNING**

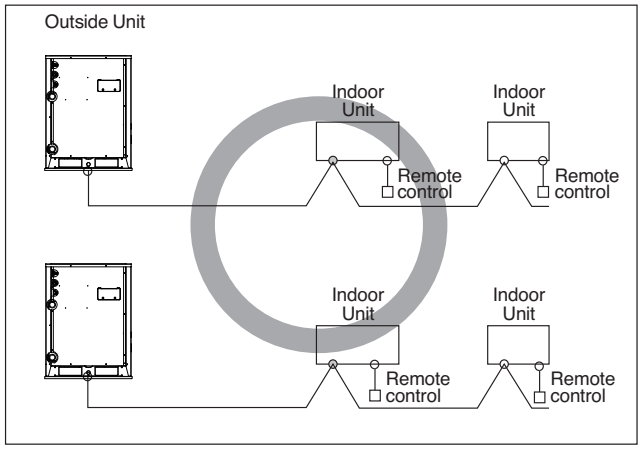
**Be sure to have authorized Electrical engineers do electric work using special circuits in accordance with regulations and this installation manual. If power supply circuit has a lack of capacity or electric work deficiency, it may cause an electric shock or fire.**

2. Install the outside unit transmission line away from the power source wiring so that it may not affected by electric noise from the power source. (Do not run it through the same conduit.)
3. Be sure to provide designated grounding work to outside unit.

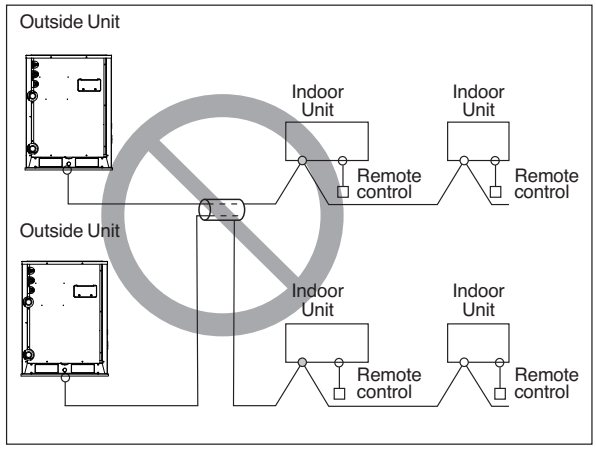
**⚠ CAUTION**

**Be sure to correct the outside unit to earth. Do not connect earth line to any gas pipe, water pipe, lightening rod or telephone earth line. If earth is incomplete, it may cause an electric shock.**

4. Give some allowance to wiring for electrical part box of indoor and outside units, because the box is sometimes removed at the time of service work.
5. Never connect the main power source to terminal block of transmission line. If connected, electrical parts will be burnt out.
6. Use 2-core shield cable for transmission line.(O mark in the figure below) If transmission lines of different systems are wired with the same multiplecore cable, the resultant poor transmission and receiving will cause erroneous operations. ( ⃠ mark in the figure below)
7. Only the transmission line specified should be connected to the terminal block for outside unit transmission.

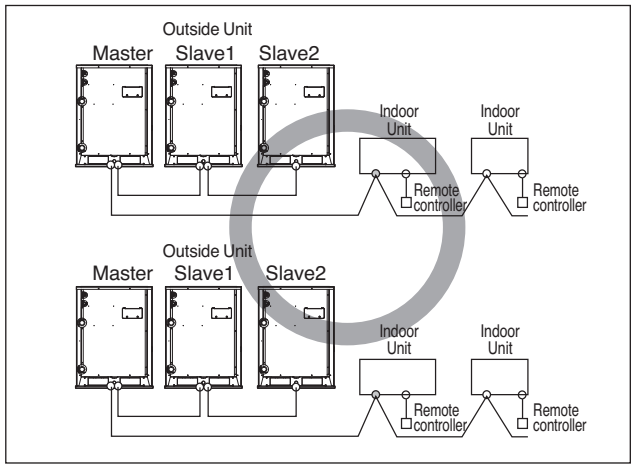



**2-core shield cable**

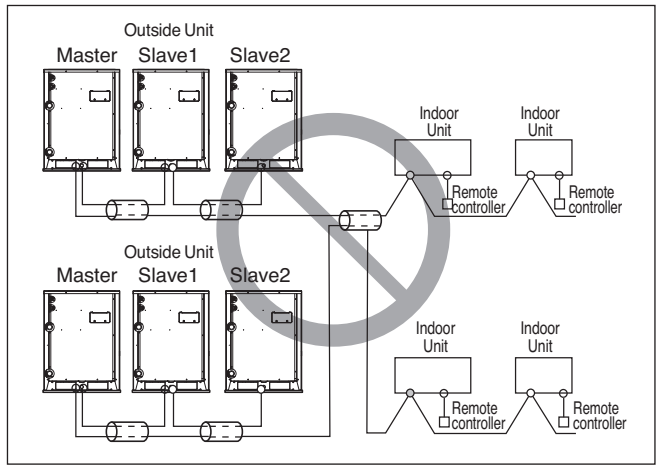



**Multi-core cable**

# 10. Electrical Wiring




**2-Core Shield Cable**



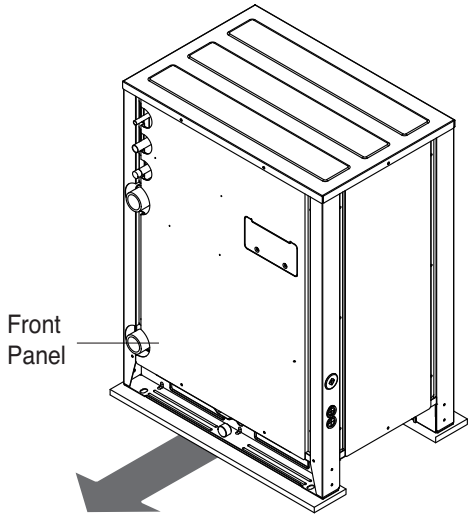

**Multi-Core Cable**

## ⚠ WARNING

- **Use the 2-core shield cables for transmission lines. Never use them together with power cables.**
- **The conductive shielding layer of cable should be grounded to the metal part of both units.**
- **Never use multi-core cable**
- **As this unit is equipped with an inverter, to install a phase leading capacitor not only will deteriorate power factor improvement effect, but also may cause capacitor abnormal heating. Therefore, never install a phase leading capacitor.**
- **Keep power imbalance within 2% of the supply rating. Large imbalance will shorten the life of the smoothing capacitor.**
- **Introducing with a missing N-phase or with a mistaken N-phase will break the equipment.**

## 10.2 Control Box and Wiring Location

- Unscrew all the screw, pull out the panel.
- Connect the transmission wire between outside unit and indoor unit, the connection between outside unit and central controller system pass through the sub PCB for central control.
- When connecting indoor unit with the shield cable, ground at the grounding screw.
  When connecting central controller with the shield cable, ground at the grounding screw.
- Refer to next page about the distance between main power cable and communication cable.
- Refer to 106 page about Auto-Addressing and Test Run.



## 10.3 Transmission and Power Lines

### 1) Transmission cable

- Types : shielding wire CVVS or CPEVS
- Use wires of size : 1.0 ~ 1.5 $mm^2$
- Insulation material : PVC
- Maximum allowable temperature: 60°C
- Maximum allowable line length: under 300m

### 2) Remote control cable

- Types : 3-core cable

### 3) Simple central control cable

- Types : 4-core cable (Shielding wire)
- Use wires of size : 1.0 ~ 1.5 $mm^2$
- Insulation material : PVC

### 4) Separation of transmission and power lines

- If transmission and power lines are run alongside each other then here is a strong likelihood of operational faults developing due to interference in the signal wiring caused by electrostatic and electromagnetic coupling.

| Current capacity of power line | | Spacing |
|---|---|---|
| 100V or more | 10A | 300mm |
| | 50A | 500mm |
| | 100A | 1,000mm |
| | Exceed 100A | 1,500mm |

**Note:**

1. The figures are based on assumed length of parallel cabling up to 100m. For length in excess of 100m the figures will have to be recalculated in direct proportion to the additional length of line involved.
2. If the power supply waveform continues to exhibit some distortion the recommended spacing in the table should be increased.

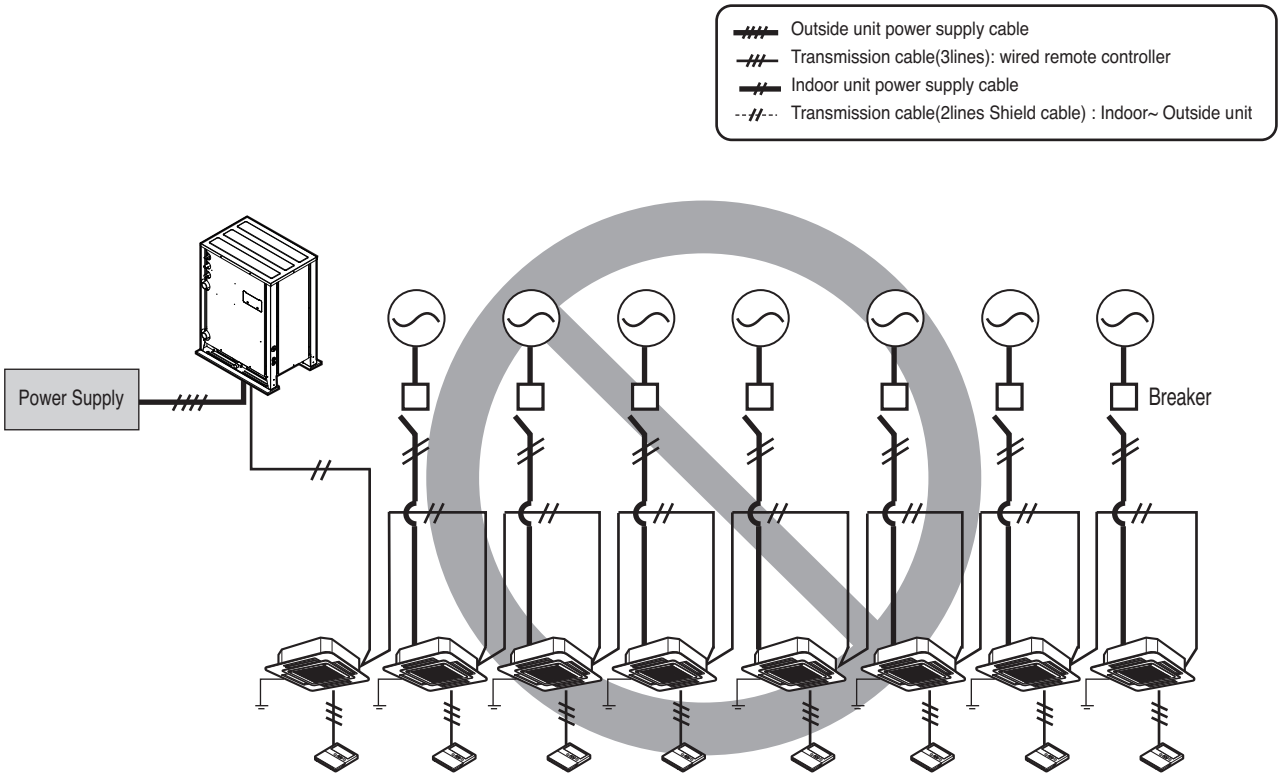
- If the lines are laid inside conduits then the following point must also be taken into account when grouping various lines together for introduction into the conduits.
- Power lines(including power supply to air conditioner) and signal lines must not be laid inside the same conduit.
- In the same way, when grouping the power lines and signal lines should not be bunched together.

**⚠ CAUTION**

- If apparatus is not properly earthed then there is always a risk of electric shocks, the earthing of the apparatus must be carried out by a qualified person.
- Use a power wire pipe for the power wiring.

## ◆ Example for mistake of wiring

• Do not separately connect the power of the indoor unit.




**⚠ CAUTION**

**Never install individual switch or individual outlet to cut the power connecting the indoor unit.**

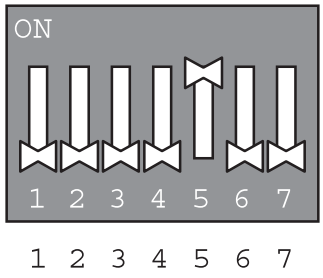
## 10.4 Dip switch setting

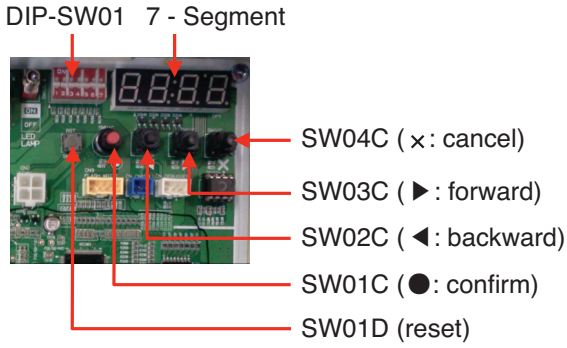
### 10.4.1 Setting the function

Select the mode/function/option/value using '▶', '◀' Button and confirm that using the '●' button after dip switch No.5 is turned on.

**⚠ CAUTION**

- It is only executed when all indoor units are off.




| Mode | | Function | | Option | | | Value | | Action | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Content | Display1 | Content | Display2 | Content | | Display3 | Content | Display4 | Implement | Display5 | |
| Installation | FUC | Cool & Heat Selector | Fn1 | OFF | op1~op2 | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Geothermal mode setting | Fn2 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Sol. Valve 200 V output | Fn3 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Variable water flow control | Fn4 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | ODU address | Fn5 | - | | - | 0~255 | Set the value | Change the set value | Blank | Save in EEPROM |
| | | Target pressure adjusting | Fn7 | OFF | op1~op3 | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |
| | | Use Sump Heater | Fn8 | OFF | ON | Selected the option | - | - | Change the set value | Blank | Save in EEPROM |

* Functions save in EEPROM will be kept continuously, though the system power was reset.
To cancel the function you need to set OFF.

### 10.4.2 Dip switch setting

1. Set the dip switch and turn on the power of the outside unit to check whether the set value is correctly entered in the 7 segment.
2. This function is shown for only 2 seconds after the power is connected.

## ■ Checking according to dip switch setting

- You can check the setting values of the Master outside unit from the 7 segment LED. The dip switch setting should be changed when the power is OFF.
- It checks whether the input is properly performed without the bad contact of the dip switch or not

### ■ Checking the initial display

The number is sequentially appeared at the 7 segment in 5 seconds after applying the power. This number represents the setting condition.

Master model capacity → Slave1 model capacity → Slave2 model capacity → Slave3 model capacity → Total capacity → System type → Power type → Product type

Example) 178 kW(62HP) 4Unit R410A combination (Cooling/heating switching type, 380V general type)
16 → 16 → 16 → 14 → 62 → 2 → 38 → 1

**⚠ CAUTION**

Product may not properly operate if the relevant DIP switch is not properly setup.

**EX) Details of each symbol**

| Symbol | Number | Contents |
|---|---|---|
| ① | 8~20 | Master model capacity |
| ② | 10~20 | Slave 1 capacity |
| ③ | 10~20 | Slave 2 capacity |
| ④ | 10~20 | Slave 3 capacity |
| ⑤ | 8~80 | Total capacity |
| ⑥ | 1 | Cooling only |
| | 2 | Cooling/Heating switching type |
| | 3 | Simultaneous Cooling/Heating type |
| ⑦ | 38 | 380 V |
| | 46 | 460 V |
| | 22 | 220 V |
| ⑧ | 1 | General type |
| | 2 | Tropical type |
| | 3 | Factory type |

**Model capacity**

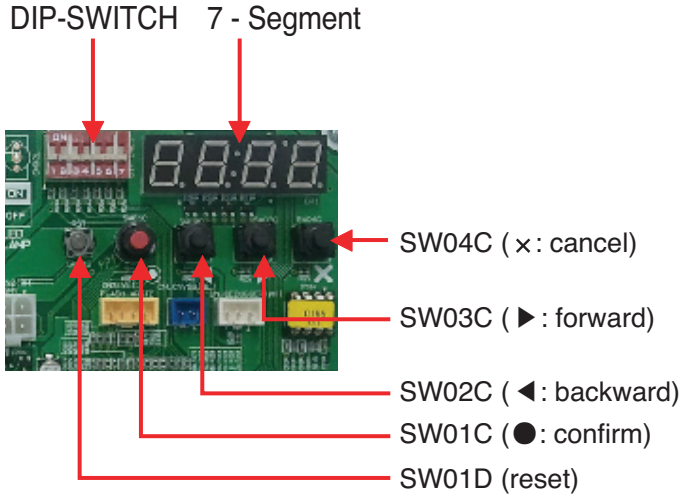
| Capacity(kW) | Capacity(HP) | Remark | Refrigerant |
|---|---|---|---|
| 23 | 8 | Same for master /slave | R410A |
| 29 | 10 | | |
| 35 | 12 | | |
| 41 | 14 | | |
| 46 | 16 | | |
| 52 | 18 | | |
| 57 | 20 | | |

## 10.5 Indoor unit auto addressing

• The address of the indoor units would be set by auto addressing.

1) Wait for 3 minutes after applying power supply (master and slave outside unit, indoor unit)
2) Press the switch of the outside unit (SW02V) for 5 seconds.
3) A "88" is indicated on 7-segment LED of the outside unit PCB.
4) For completing addressing, 2~7 minutes are required depending on numbers of indoor unit connection set.
5) Numbers of indoor unit connection set whose addressing is completed are indicated for 30 seconds on 7-segment LED of the outside unit PCB.
6) After completing addressing, address of each indoor unit is indicated on the wired remote controller display window. (CH01, CH02, CH03, .... CH06 : Indicated as number of indoor unit connection set.)

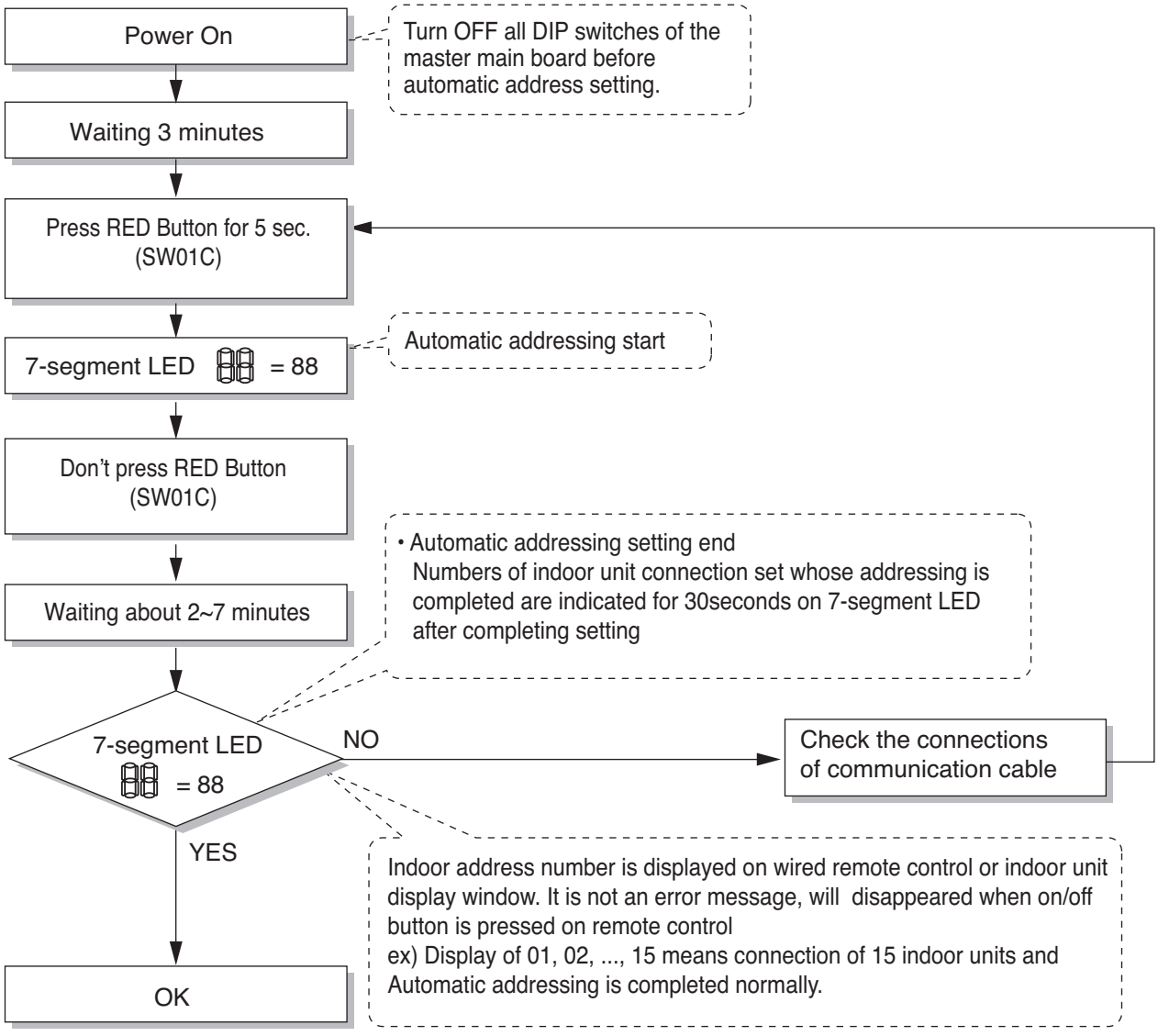
**[Heat Pump (MAIN PCB)]**




**⚠ WARNING**

- **When replacing the indoor unit PCB, you must execute the auto addressing again. Always execute this with all the power of indoor units and outside units connected. If the power is not connected to the indoor unit, it can generate an operation error.**
- **When power is connected to the outside unit for the first time, it will standby for more than 3 minutes to improve the indoor unit communication, and then the address must be set.**

## ◆ The Procedure of Automatic Addressing



## ◆ Group Number setting

### Group Number setting for Indoor Units

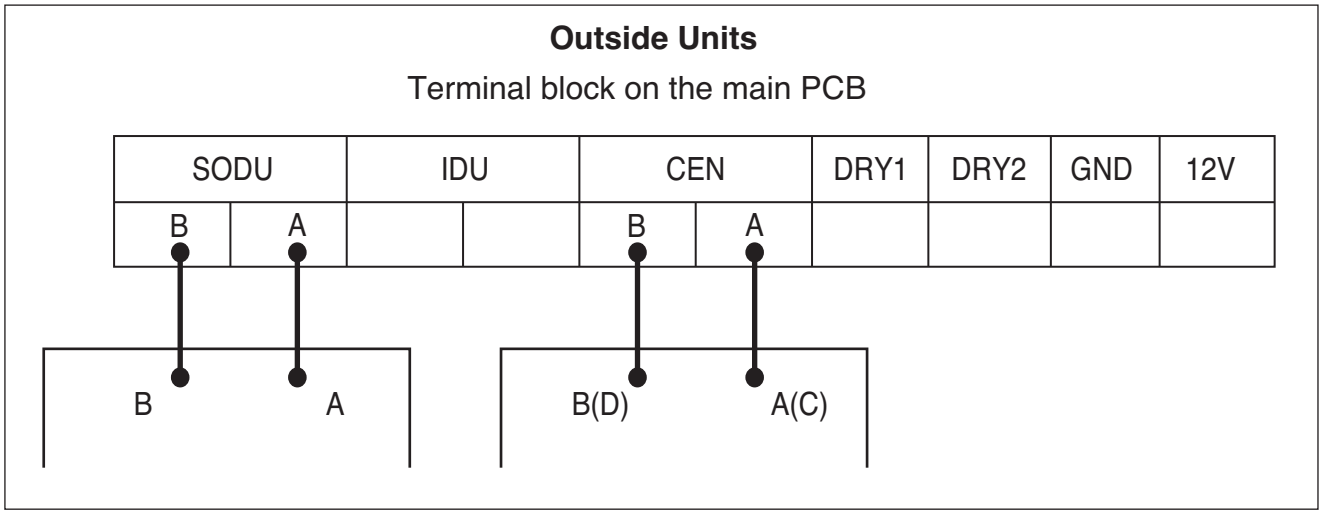
① Confirm the power of whole system(Indoor Unit, Outside Unit) is OFF, otherwise turn off.

② The transmission lines connected to CEN terminal should be connected to central control of Outside unti with care for their polarity( A → A, B → B )

③ Turn the whole system on.

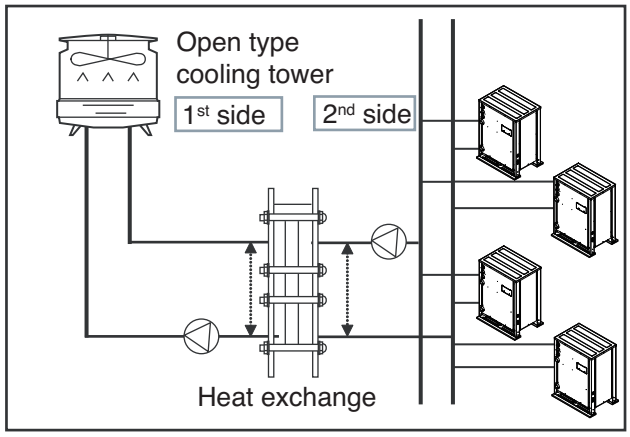
④ Set the group and Indoor Unit number with a wired remote control.

⑤ To control several sets of Indoor Units into a group, set the group ID from 0 to F for this purpose.



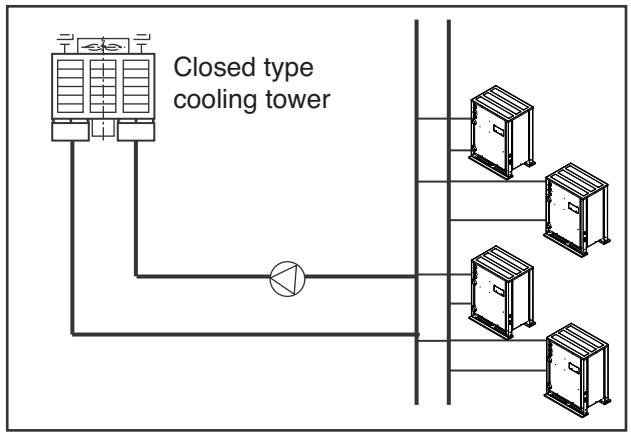

| Group recognizing the simple central controller |
|---|
| No.0 group (00~0F) |
| No.1 group (10~1F) |
| No.2 group (20~2F) |
| No.3 group (30~3F) |
| No.4 group (40~4F) |
| No.5 group (50~5F) |
| No.6 group (60~6F) |
| No.7 group (70~7F) |
| No.8 group (80~8F) |
| No.9 group (90~9F) |
| No. A group (A0~AF) |
| No. B group (B0~BF) |
| No. C group (C0~CF) |
| No. D group (D0~DF) |
| No. E group (E0~EF) |
| No. F group (F0~FF) |

# 11. Cooling tower applied method




**[Open type cooling tower + Middle heat exchanger]**

Heat exchanger is installed between the cooling tower and outside unit system piping, and the temperature difference between 1st side and 2nd side is maintained constantly




**[Closed type cooling tower]**

Heat source water of the cooling tower is supplied directly to the outside unit system.

## ⚠ CAUTION

When the open type cooling tower is used and the water supply is directly connected to the 2nd heat exchanger, product damage by alien particle cannot be repaired for free.

- Always use the 2nd heat exchanger.

## 12.1 Water supply system test run

• Before executing the test run for the product, you must first test the heat source water system.
The test run for the product must be executed after checking the flow rate and temperature of the heat source water supplied.

**Equipment design**
- Design the system including cooling tower, boiler, pump etc.
- Check the equipment capacity (Water volume, temperature control range).

↓

**Water pipe system installation**
- Install the water pipe

↓

**Water supply pipe and product connection**
- Connect the water pipe to the inlet/outlet of the product so that the water can be supplied to the product.

↓

**Water supply system test run**
- Execute water supply system test run
- The product does not operate but the pump and water supply equipment will operate to flow the Heat source water to the heat exchanger on the product side.
- Flow the water to all water piping system to clean any alien particles inside the pipes and execute an air purge to remove an air within the pipes to make the water supply smoother.
- Clean all the strainers of water pipe including around outside units.

↓

**Judging whether there is any problem with the water supply**
- Execute the test of water supply system without operating the product.
- Check whether outside unit inlet/outlet flow rate complies to the product specification.
- Check the water supply temperature. whether is OK

↓

**Execute the product test run**
- After checking the normal condition of the water supply, execute the test run of the product.
To prevent the freezing of the heat exchanger when the refrigerant is discharged with the water supply blocked, discharge the refrigerant after draining out around the outside unit.

## 12.2 Precaution before test run

| | |
|---|---|
| 1 | Check whether the air is completely removed and the water supply is flowing smoothly. |
| 2 | Check whether there is any refrigerant leakage of any disconnected or loose communication or power wire, or use the electric wiring diagram to check the wiring connection condition.<br>Check whether the power and communication wire are connected. |
| 3 | Check whether the power cable R, S, T and N are correctly connected.<br>Check the insulation resistance with the DB mega tester device (DC 500V) between the power terminal block and grounding, and check whether it is 2.0MΩ or above when measured.<br>If the resistance is 2.0MΩ or less, do not operate the product.<br>Precaution:<br>- Never check the insulation resistance for the terminal control board.<br>(The control board can be damaged.)<br>- If you leave the system turned off right after the installation or for a long period of time, the refrigerant gets accumulated within the compressor and the insulation resistance reduces to less than 2 MΩ. When the insulation resistance is 2 MΩ or less, turn on the power and let the electricity be supplied to the crank case heater of the compressor and let the refrigerant including the oil inside the compressor to evaporate.<br>Then the insulation resistance value will increase to more than 2.0 MΩ. |
| 4 | Check whether the liquid and gas pipes are open. |
| 5 | Precaution when blocking the water cooling type Multi V main power<br>- While using the product (Air conditioning season/Heating season), always connect the main power of the outside unit.<br>- During the test run operation after installing the product or during the operation after blocking the outside unit main power (Power outage etc.), you must always connect the power 6 hours prior to heating the crank case heater. If the crank case is not preheated for more than 6 hours with the electric heater, it can cause a burn on the compressor.<br>(Heating the bottom part of the compressor with the crank case heater is to evaporate the refrigerant included in the oil inside the compressor.) |

**⚠ WARNING**

- **Always check whether the water supply is flowing smoothly before the test run. (If sufficient amount of water is not flowing, it can burn the product.)**
- **During the initial test run after installing the product, leaving the product for more than 3 days or after replacing the compressor, power must be connected 6 hours prior to the operation to heat the compressor heater. (If the product is not heated sufficiently, it can burn the product.)**

## 12.3 How to Cope with Abnormal Test Run

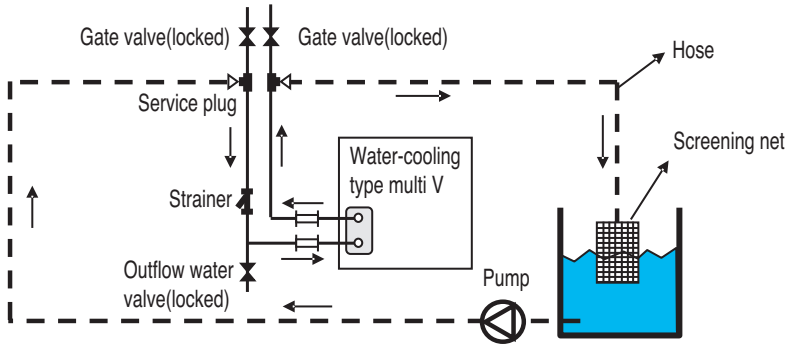
| Item | Phenomenon | Cause | Checkpoint and resolution |
|---|---|---|---|
| Whether heat water is supplied | CH24 | When connecting the flow switch, heat-sourced water doesn't flow or the amount of its flow lacks due to the checked error related to heat-sourced water. | Check whether the heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |
| | | | Check whether the flow switch is normal condition. (Flow switch problem, arbitrary control, disconnection etc.) |
| | CH32 | Heat water not supplied or flow rate is insufficient | Check whether heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |
| | CH34 | Heat water not supplied or flow rate is insufficient (During cooling) | Check whether heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |
| | CH180 | Heat water not supplied or flow rate is insufficient (During heating) | Check whether heat source water supply pump is operating. |
| | | | Check whether the heat source water supply pipe is clogged. (Clean strainer, valve locked, valve issue, air trapped etc.) |

❊ When CH24 or CH180 error occurs during the test operation of the heater, the inside of the panel heat exchanger may be partially frozen and therefore, be sure to get rid of its cause and then, re-operate the device.
(The root cause of partial freezing: The lack of flow of heat-sourced water, suspension of water, lack of cooling medium, infiltration of foreign substance inside of panel heat exchanger )

## 12.4 Maintenance of plate type heat exchanger

As the scales are created in the panel heat exchanger, its efficiency may decrease or damage may occur due to winter-sowing due to the decrease in its flow.
Due to this reason, regular maintenance is necessary so that the scales shouldn't be created.

1. Before the season of use, check below points.(Once a year)
   1) inspection on water quality to check if this is within the standard condition.
   2) Clean the strainer.
   3) Check if the flow is appropriate.
   4) Check if the operation environment is appropriate.(Pressure, flow, output temperature)
2. Below procedure should be abided by in order to clean the panel heat exchanger. (Once every 5 years)
   1) Check if the service port is equipped with the water pipe in order to clean the chemical solution.
      5% diluted formic acid, citric acid, oxalic acid, acetate acid, phosphoric acid and etc. are appropriate for the chemical solution for wiping out the scales.(Hydrochloric acid, sulphuric acid, nitric acid and etc. shouldn't be used due to its corrosion.)
   2) Be sure to check if the gate valve of inflow/outflow pipe and the valve for outflow pipe are properly closed when cleaning.
   3) Connect the water pipe for cleaning with the chemical solvent through the service plug of the pipe and fill up the panel heat exchanger with 50°C~60°C of cleaning solvent and circulate it with the pump for 2~5 hours. The circulation time may depend on the temperature of the cleaning solvent or the creation of the scales. Therefore, observe change in the color of the chemical solvent to set the circulation time for removing the scales.
   4) After the circulation of the solvent, extract the solvent inside of the panel heat exchanger and fill up 1~2% of NaOH or $NaHCO_3$ and then, circulate it for 15~20 minutes to neutralize the heat exchanger.
   5) Once the neutralization is completed, clean the inside of the panel heat exchanger with clean water.
      Measure the water Ph to check if the chemical solvent is properly removed or not.
   6) When using a different kind of chemical solvent in the market, be sure to check if there is any corrosive action to stainless or copper in advance or not.
   7) For details on the cleaning chemical solvent, be sure to consult the specialists of the related corporation.
3. After cleaning, operate the device to see if it works properly once again.




[Cleaning the panel heat exchanger]

## 12.5 Daily check/management

### 1. Water quality control

The plate type heat exchanger is not structured to be disassembled, cleaned or replaced with parts.
To prevent corrosion or scaling on the plate type heat exchanger, special care must be taken to control the water quality.
Water quality must satisfy the minimum criteria of the reference water quality items.
When anti-corrosion agent or corrosion inhibitor is added, the substance must not have any corrosive effect on stainless steel and copper. Even if the circulating water is not contaminated by the external air, it is recommended to empty the water flowing in the pipe and to resupply the water.

### 2. Flow rate control

If the flow rate is insufficient, it can cause freezing on the plate type heat exchanger.
Check whether the strainer is clogged or whether the pipe is filled with air and then check the temperature and pressure difference of the inlet and outlet pipe to check whether the flow rate is insufficient.
If the temperature and pressure difference is above the appropriate level, it means that the flow rate is reduced. In this case, the operation must immediately be stopped and re-operated when the root cause is resolved. (*If air is trapped in the pipe, the air must be purged. Air inside the water pipe interferes with the circulation of the heat water supply and can cause insufficient flow rate or freezing.)

### 3. Brine density management

When using the brine (Anti-freeze) in the heat water supply, designated type and density must be used. Calcium chloride brine can cause corrosion on the plate type heat exchanger and must not be used.
If the anti-freeze liquid is left as is, it absorbs the moisture from the air to cause a drop in the density, leading to freezing of plate type heat exchanger. Therefore minimize the contact surface with the atmosphere and periodically measure the density of the brine to supplement the brine as needed to maintain the density.

## 12.6 Maintenance/Repair checklist

| Checkpoint \ Period (Year) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Product operating condition | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Heat exchanger cleaning (Wash) | | | | | ● | | | | | ● | | | | | ● |
| Strainer cleaning | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Water quality check | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Refrigerant leakage check | ● | | | | | | | | | | | | | | ● |
| Indoor unit filter cleaning | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

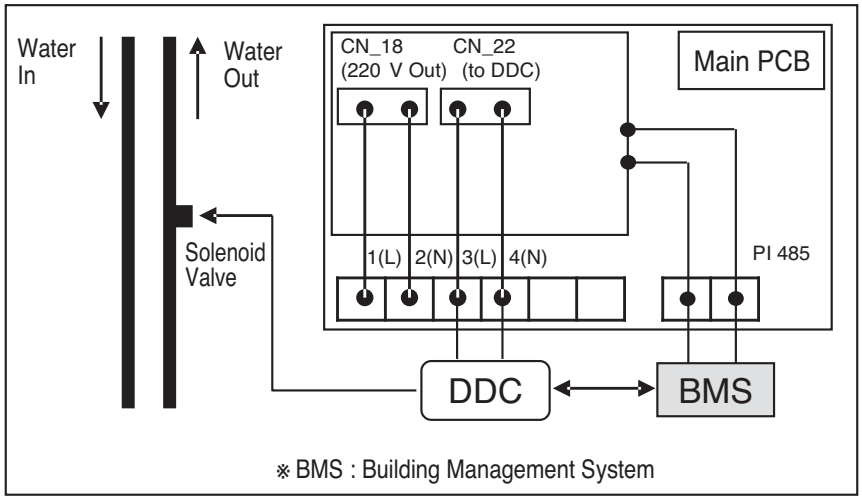
( ● : Check mark)

### ⚠ CAUTION

- The above checklist is set based on the minimum period and more frequent checking can be required depending on the operating condition/water quality condition.
- When cleaning the heat exchanger, make sure to take parts out or lock the value so that chemical detergent does not penetrate into the pressure gauge etc.
- When cleaning the heat exchanger, check the connecting part of the water pipes prior to cleaning so that the chemical detergent does not leak.
- After sufficiently mixing the chemical detergent with water, start cleaning.
- Cleaning the heat exchanger is easier at the initial stage and becomes difficult after the scaling has accumulated.
- In areas where the water quality is poor, cleaning is required periodically.
  Because chemical detergent has strong acidity, it must be washed off thoroughly with water.
- To check whether it is cleaned well inside, remove the hose and check the inside.
- Purge the air to remove any air inside the water pipe.
- After checking, always check whether the heat water supply is flowing normally flowing before operating the product.

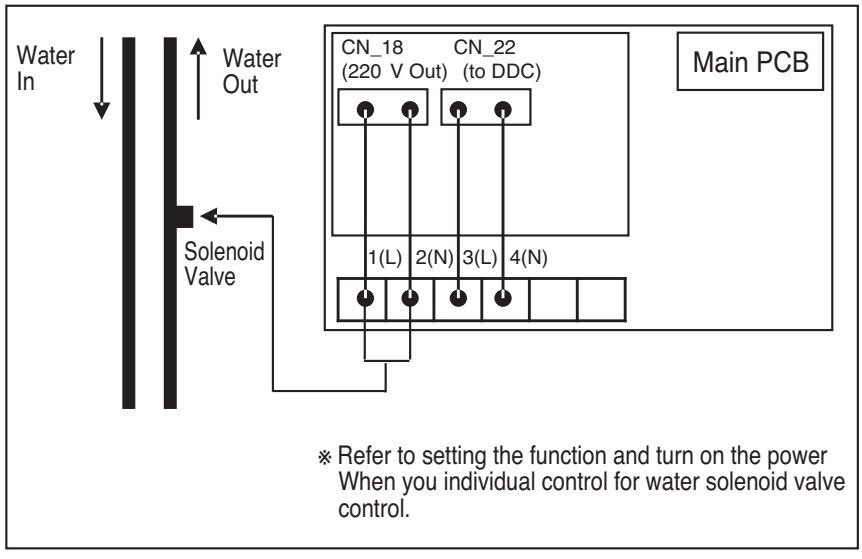
# 13. Water Solenoid Valve Control

## 13.1 Central Control (Use DDC Port)




※ BMS : Building Management System

## 13.2 Individual Control (Use 220V Out Port)

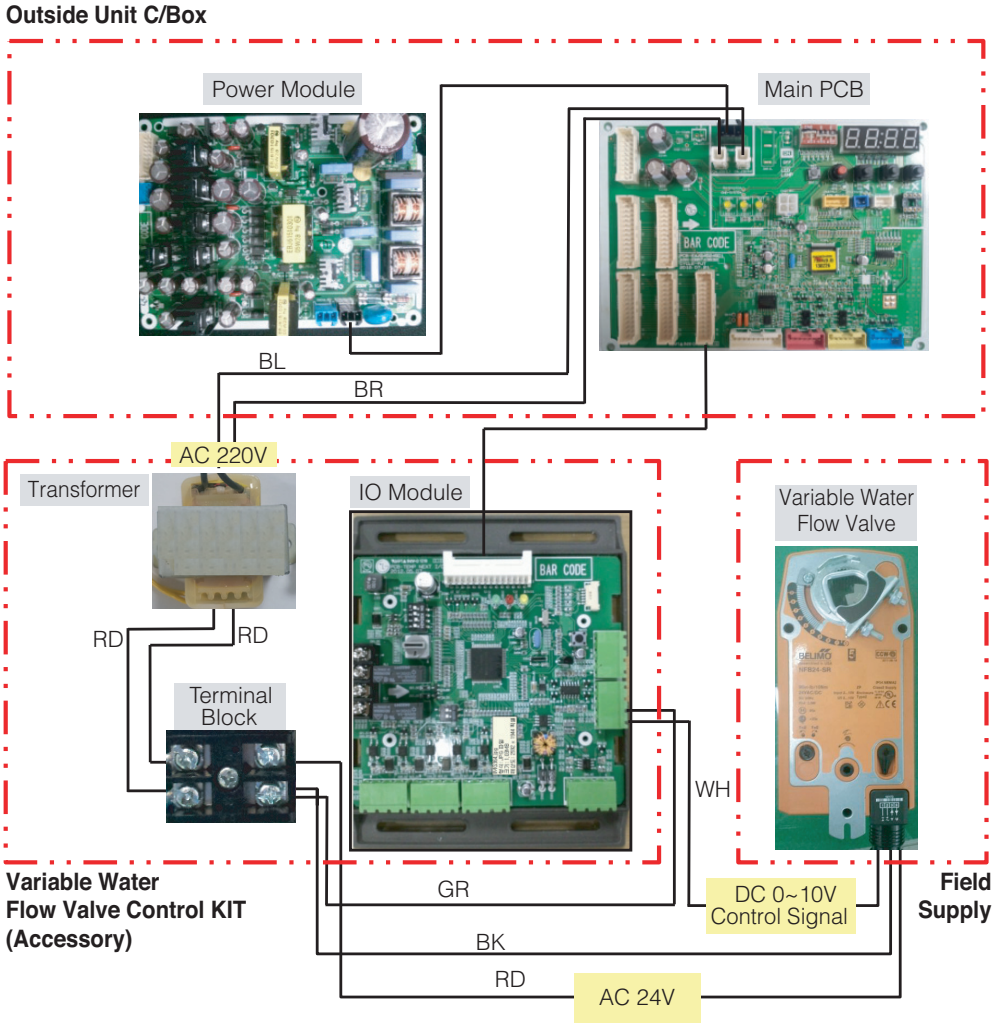



※ Refer to setting the function and turn on the power When you individual control for water solenoid valve control.

# 14. Variable Water Flow Valve Control KIT (Accessory)

## ◆ Installation Method

1. Shut off the main power line of outside unit.
2. Install the case of Variable Water Flow Control Kit on the C/Box by using screws.
3. Attach Transformer, IO Module, Terminal Block of Variable Water Flow Control Kit in the case by using screws.
4. Connect the wire, Refer to the figure below.




❊ BL : Blue, BR : Brown, RD : Red, BK : Black, WH : White, GR : Green

**Notes:**
Transformer can supply only AC 24V to the terminal block.
Do not input external power into Main PCB. Otherwise it will cause a serious damage.
The Variable Water Flow Control Kit controls only 1 valve actuator.
The power (AC 24V) and signal(DC 0~10V) line is recommended by AWG22(1/32 in, (0.644 mm), 0.016 Ω/ft (0.053 Ω/m)).

MULTI V™ WATER IV

# Special Guide

## 1. Cautions for Refrigerant Leaks

### 1.1 Introduction

### 1.2 Checking procedure of limiting concentration

**Appendix information**

**MFL68359801_01D**
**April / 2016**

# 1. Caution For Refrigerant Leaks

The installer and system specialist shall secure safety against leakage according to local regulations or standards.
The following standards may be applicable if local regulations are not available.

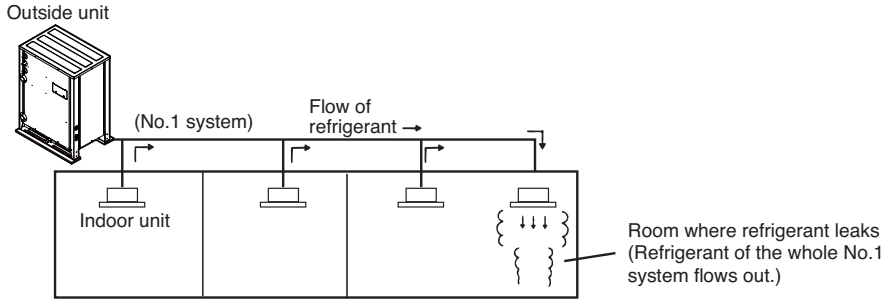
## 1.1 Introduction

Though the R410A refrigerant is harmless and incombustible itself , the room to equip the air conditioner should be large to such an extent that the refrigerant gas will not exceed the limiting concentration even if the refrigerant gas leaks in the room.

### ■ Limiting concentration

Limiting concentration is the limit of Freon gas concentration where immediate measures can be taken without hurting human body when refrigerant leaks in the air. The limiting concentration shall be described in the unit of kg/m$^3$ (Freon gas weight per unit air volume) for facilitating calculation.

**Limiting concentration: 0.44kg/m$^3$(R410A)**




## 1.2 Checking procedure of limiting concentration

Check limiting concentration along following steps and take appropriate measure depending on the situation.

### ■ Calculate amount of all the replenished refrigerant (kg) per each refrigerant system.

Amount of replenished refrigerant per one outside unit system + Amount of additional replenished refrigerant = Total amount of replenished refrigerant in refrigerant facility (kg)

Amount of replenished refrigerant at factory shipment

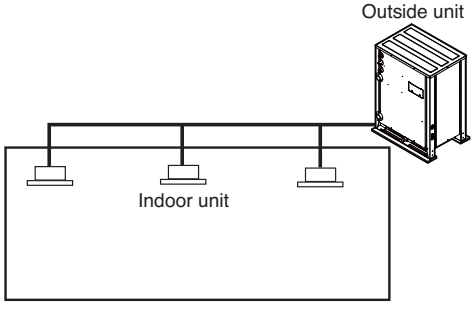
Amount of additionally replenished refrigerant depending on piping length or piping diameter at customer

Note : In case one refrigerant facility is divided into 2 or more refrigerant systems and each system is independent, amount of replenished refrigerant of each system shall be adopted.

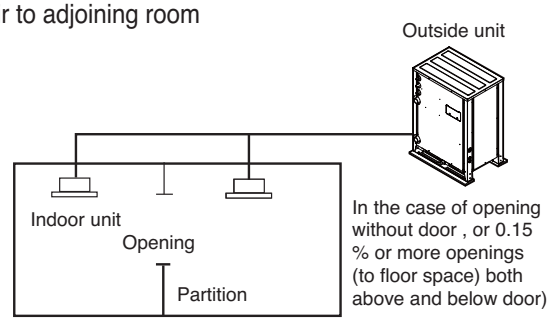
### ■ Calculate minimum room capacity

Calculate room capacity by regarding a portion as one room or the smaller room.

(1) Without partition

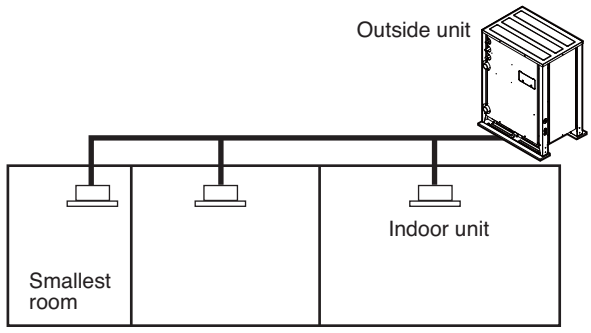



(2) With partition and with opening which serve as passage of air to adjoining room



# 1. Caution For Refrigerant Leaks

(3) With partition and without opening which serve as passage of air to adjoining room




## ■ Calculate refrigerant concentration

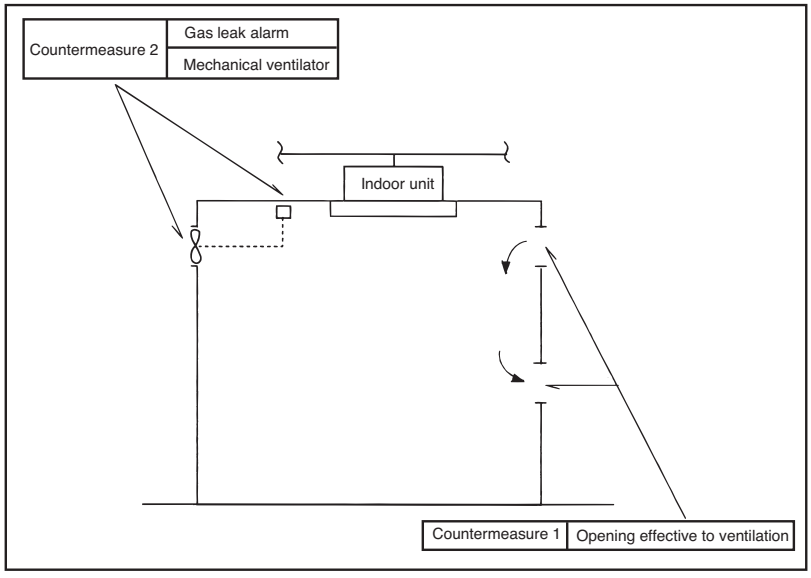
$$\frac{\text{Total amount of replenished refrigerant in refrigerant facility (kg)}}{\text{Capacity of smallest room where indoor unit is installed (m}^3\text{)}} = \text{Refrigerant concentration (kg/m}^3\text{) (R410A)}$$

In case the result of calculation exceeds the limiting concentration, perform the same calculations by shifting to the second smallest, and the third smallest rooms until at last the result is below the limiting concentration.

## ■ In case the concentration exceeds the limit

When the concentration exceeds the limit, change original plan or take one of the counter measure shown below:

- **Counter measure 1**
  Provide opening for ventilation.
  Provide 0.15% or more opening to floor space both above and below door, or provide opening without door.
- **Counter measure 2**
  Provide gas leak alarm linked with mechanical ventilator.
  Reducing the outside refrigerant qty.




**Pay a special attention to the place, such as a basement, etc. where refrigerant can stay, since refrigerant is heavier than air.**

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