

Inverter Single Wall Mounted

LG

TOTAL HVAC

SOLUTION

PROVIDER

ENGINEERING PRODUCT DATA BOOK

Test Condition of International Standard

CLASSIFICATION			KSC 9306	ISO 5151		AHRI 210/240	AHAM (Window AC)	AS/NZS 3823.1	SASO 2681	
				T1	T3				T1	T3
Cooling Capacity	Indoor	DB°C(°F)	27.0	27.0	29.0	26.7 (80)	26.7 (80)	27.0	27.0	29.0
		WB°C(°F)	19.0	19.0	19.0	19.4 (67)	19.4 (67)	19.0	19.0	19.0
	Outdoor	DB°C(°F)	35.0	35.0	46.0	35.0 (95)	35.0 (95)	35.0	35.0	46.0
		WB°C(°F)	24.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
Heating Capacity	Indoor	DB°C(°F)	20.0	20.0	20.0	21.1 (70)	21.1 (70)	20.0	20.0	20.0
		WB°C(°F)	15.0	15.0	15.0	15.6 (60)	15.6 (60)	15.0	15.0	15.0
	Outdoor	DB°C(°F)	7.0	7.0	7.0	8.3 (47)	8.3 (47)	7.0	7.0	7.0
		WB°C(°F)	6.0	6.0	6.0	6.1 (43)	6.1 (43)	6.0	6.0	6.0
Maximum Cooling Operating	Indoor	DB°C(°F)	32.0	32.0	32.0	26.7 (80)	32.2 (90)	32.0	32.0	32.0
		WB°C(°F)	23.0	23.0	13.0	19.4 (67)	22.8 (73)	23.0	23.0	13.0
	Outdoor	DB°C(°F)	43.0	43.0	52.0	46.11 (115)	43.3 (110)	43.0	43.0	52.0
		WB°C(°F)	26.0	26.0	31.0	23.9 (75)	25.6 (78)	26.0	26.0	31.0
Maximum Heating Operating	Indoor	DB°C(°F)	27.0	27.0	27.0	26.7 (80)	26.7 (80)	27.0	27.0	27.0
		WB°C(°F)	15.0	-	-	-	22.8 (73)	-	-	-
	Outdoor	DB°C(°F)	21.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
		WB°C(°F)	15.0	18.0	18.0	18.3 (65)	18.3 (65)	18.0	18.0	18.0
Enclosure Sweat / Condensate Disposal	Indoor	DB°C(°F)	27.0	27.0	27.0	26.7 (80)	26.7 (80)	27.0	27.0	27.0
		WB°C(°F)	24.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
	Outdoor	DB°C(°F)	27.0	27.0	27.0	26.7 (80)	26.7 (80)	27.0	27.0	27.0
		WB°C(°F)	24.0	24.0	24.0	23.9 (75)	23.9 (75)	24.0	24.0	24.0
Freeze-up / Low Temperature	Indoor	DB°C(°F)	21.0	21.0	21.0	19.4 (67)	21.1 (70)	21.0	21.0	21.0
		WB°C(°F)	15.0	15.0	15.0	13.9 (57)	15.6 (60)	15.0	15.0	15.0
	Outdoor	DB°C(°F)	21.0	21.0	21.0	19.4 (67)	21.1 (70)	21.0	21.0	21.0
		WB°C(°F)	15.0	-	-	13.9 (57)	15.6 (60)	-	-	-

KS : Korea Standard

ISO : International Standard Organization

AHRI : Air-Conditioning, Heating, and Refrigeration Institute

AHAM : Association of Home Appliance Manufacturers

AS/NZS : Australia and New Zealand Standard



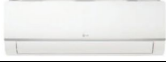








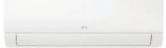
SASO : Saudi Arabian Standards Organization

Inverter Single Wall Mounted - 60 Hz (R32)

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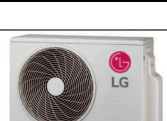
1. Models Line Up



1.1 Indoor Unit

Category	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
Air Purify		SJ	9	HSN09APC.ATTGLCP (S3NQ09JA1YB.ATTGLCP)
Standard Plus		SJ	9	HSN09IPC.ATTGLCP (S3NQ09JA2PB.ATTGLCP)
Standard Plus		SJ	12	HSN12IPA.ATTGLCP (S3NQ12JA2PA.ATTGLCP)
Standard Plus		SJ	12	HSN12IPC.ATTGLCP (S3NQ12JA2PE.ATTGLCP)
Standard Plus		SK	18	HSN18IPA.ATTGLCP (S3NQ18KL2PA.ATTGLCP)
Standard Plus		SK	24	HSN24IPA.ATTGLCP (S3NQ24K22PA.ATTGLCP)
Standard Plus		SJ	9	HSN09IPA.ATTGLCP (S3NQ09JA2PA.ATTGLCP)
Standard		SK	18	HSN18ISW.ATTGLCP (S3NQ18KL31A.ATTGLCP)
Standard		SK	24	HSN24ISW.ATTGLCP (S3NQ24K231A.ATTGLCP)
Standard		SK	18	HSN18ISU.ATTGLCP (S3NQ18KL3WG.ATTGLCP)
Standard		SJ	9	HSN09ISU.ATTGLCP (S3NQ09JA3WG.ATTGLCP)
Standard		SJ	12	HSN12ISU.ATTGLCP (S3NQ12JA3WG.ATTGLCP)

1. Models Line Up

1.2 Outdoor Unit

Power Supply	Picture	Chassis	Nominal Capacity (kBtu/h)	Model Name
1 Ø , 230 V , 60 Hz		UA3	9	HSU09APC.ATTGLCP (S3UQ09JA1YB.ATTGLCP)
1 Ø , 230 V , 60 Hz		UA3	9	HSU09IPC.ATTGLCP (S3UQ09JA2PB.ATTGLCP)
1 Ø , 230 V , 60 Hz		UA3	12	HSU12IPA.ATTGLCP (S3UQ12JA2PA.ATTGLCP)
1 Ø , 230 V , 60 Hz		UA3	12	HSU12IPC.ATTGLCP (S3UQ12JA2PE.ATTGLCP)
1 Ø , 230 V , 60 Hz		UL2	18	HSU18IPA.ATTGLCP (S3UQ18KL2PA.ATTGLCP)
1 Ø , 230 V , 60 Hz		U24A	24	HSU24IPA.ATTGLCP (S3UQ24K22PA.ATTGLCP)
1 Ø , 230 V , 60 Hz		UA3	9	HSU09IPA.ATTGLCP (S3UQ09JA2PA.ATTGLCP)
1 Ø , 230 V , 60 Hz		UL2	18	HSU18ISW.ATTGLCP (S3UQ18KL31A.ATTGLCP)
1 Ø , 230 V , 60 Hz		U24A	24	HSU24ISW.ATTGLCP (S3UQ24K231A.ATTGLCP)
3 1 Ø , 230 V , 60 Hz		UL2	18	HSU18ISU.ATTGLCP (S3UQ18KL3WG.ATTGLCP)

1 Ø , 230 V , 60 Hz		UA3	9	HSU09ISU.ATTGLCP (S3UQ09JA3WG.ATTGLCP)
1 Ø , 230 V , 60 Hz		UA3	12	HSU12ISU.ATTGLCP (S3UQ12JA3WG.ATTGLCP)

2. Nomenclature

Model Name	S	4	-	W	1	2	J	L	1	Y	1
No.	1	2	3	4	5	6	7	8	9	10	11

No.	Signification
1	Product Type S : Split
2	Refrigerant 2 : R22 3 : R32 4 : R410A
3	Supply Type - : Set N : Indoor Unit U : Outdoor Unit A : C/SKD Indoor Unit B : C/SKD Outdoor Unit M : Mock-Up
4	Model Type C : Cooling Only H : Heat Pump Q : DC Inverter Cooling Only W : DC Inverter Heat Pump M : Single and Multi Compatible
5, 6	Capacity Ex) 12 : 12,000 Btu/h
7	Indoor Unit Platform 2 : S2 H : SH 3 : S3 J : SJ 4 : S4 K : SK 5 : S5 M : SM A : SA V : SV E : SE W : SW
8	Outdoor Unit Platform A : UA3 E : UE L : UL2 P : UE1+ 2 : U24A D : UD 4 : U4

No.	Signification							
9	Look & Color							
	Platform	Look & Color	Look Name		Description			
	SA SJ SK	R	Artcool		Mirror Black			
		1	R Look		White Panel (Transparent)			
		2	Semi-R Look		White Panel (Silver Deco)			
		3	E Look		White Panel			
		4	Semi-R Look		White Panel (Red Deco)			
	SM	M	Moving Panel		White Panel (Gold Deco)			
		1	R Look		White Panel			
		2	Semi-R Look		White Panel (Transparent)			
		3	E Look		White Panel (Silver Deco)			
		4	Semi-R Look		White Panel			
	SM SM+ S2	W	Blowkiss R		White Panel (White Deco)			
		B	Blowkiss R		White Panel (Black Deco)			
		V	Blowkiss R		White Panel (Silver Deco)			
SW SH	5	E Look		White Panel				
	6	Semi-R Look		White Panel (Silver Deco)				
SV	2	Semi-R Look		White Panel (Silver Deco)				
	3	E Look		White Panel				
S3	1	-		White Panel				
	W	-		White Panel (Lighting)				
10	Function							
	Module	Airflow	Wi-Fi	Additional Filter	Gen Mode	Function Digit		
	None	2way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	A	
							3	
							W	
							Q	
							B	
							F	
		4way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	V
								4
								R
								Z
								S
								P
	Ionizer	2way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	J	
							T	
							K	
		4way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	E
								7
								6
	Mosquito	2way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2	
							5	
							8	
		4way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	N
								Y
								C
	Air Purifying	4way	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
11	Standard Model No.							

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-09APC.ATTGLCP (HSN09APC.ATTGLCP / HSU09APC.ATTGLCP)		
Factory Model				S3-Q09JA1YB.ATTGLCP (S3NQ09JA1YB.ATTGLCP / S3UQ09JA1YB.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.293	2.600	2.889
			Btu/h	1,000	8,871	9,858
			kJ/h	1,055	9,359	10,400
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Cooling -7°C	Max	kW	-	-	-
			W	150	640	750
			W	-	-	-
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	0.70	3.70	4.50
			A	-	-	-
			A	-	-	-
EER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	4.06	-
			(Btu/h)W	-	13.86	-
			(kJ/h)W	-	14.62	-
EER (T3)	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SEER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
COP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SCOP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
Energy Label Grade	Cooling / Heating	Cooling / Heating	kW	- / -	-	-
			W	-	-	-
			W	-	-	-
Annual Energy Consumption	Cooling / Heating	Cooling / Heating	kWh/year	-	-	-
			(Btu/h)W	-	-	-
			WW	-	-	-
Weighted EER	Cooling / Heating	Cooling / Heating	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
Power Supply	Cooling / Heating	Cooling / Heating	∅ V, Hz	1, 230, 60	-	-
			V	187 ~ 276	-	-
			%	81.0	-	-
Moisture Removal	Cooling / Heating	Cooling / Heating	l/h	-	1.25	-
			m³/min	10.5 / 9.0 / 6.6 / 4.2	-	-
			m³/min	-	-	-
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	-	-	-
		Heating, SH/ H/ M/ L	m³/min	-	-	-
	Sound Pressure Level	Cooling, SH/ H/ M/ L/ SL	dB(A)	-	-	-
		Heating, SH/ H/ M/ L	dB(A)	- / 39 / 33 / 27 / 21	-	-
	Sound Power Level	Cooling, SH/ H/ M/ L	dB(A)	-	-	-
		Heating, SH/ H/ M/ L	dB(A)	-	-	-
Dimensions (W × H × D)	Net	mm	-	857 x 348 x 190	-	
	Shipping	mm	-	915 x 401 x 251	-	
Weight	Net	kg	-	9.6	-	
	Shipping	kg	-	10.9	-	
Exterior Color Code	Cooling / Heating	Cooling / Heating	-	-	Munsell 7.5BG 10/2 (RAL 9016)	-
			-	-	-	-
			-	-	-	-
Outdoor	Air Flow Rate	Max	m³/min	-	28.0	-
			rpm	-	-	-
	Fan Motor Speed	Cooling, Min ~ Max	rpm	-	-	-
		Heating, Min ~ Max	rpm	-	-	-
	Sound Pressure Level	Cooling, Rated	dB(A)	-	50	-
		Heating, Rated	dB(A)	-	-	-
	Sound Power Level	Cooling, Rated	dB(A)	-	-	-
		Heating, Rated	dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	-	720 x 500 x 230	-
		Shipping	mm	-	839 x 532 x 324	-
Weight	Net	kg	-	22.7	-	
	Shipping	kg	-	24.4	-	
Max. Fuse Size	Cooling / Heating	Cooling / Heating	A	-	20	-
			A	-	-	-
Exterior Color Code	Cooling / Heating	Cooling / Heating	-	-	Munsell 9.54Y 8.34/1.31 (RAL 9001)	-
			-	-	-	-
			-	-	-	-
Operation Range	Cooling / Heating	Cooling / Heating	°C DB	-	18 ~ 48	-
			°C DB	-	-	-
			°C WB	-	-	-
Circuit Breaker	Cooling / Heating	Cooling / Heating	A	-	15	-
			A	-	-	-
			A	-	-	-
Power Supply to Unit	Cooling / Heating	Cooling / Heating	-	-	Indoor	-
			-	-	-	-
			-	-	-	-
Power and Communication Cable	Cooling / Heating	Cooling / Heating	No. × mm²	-	4 × 1	-
			mm	-	∅ 6.35	-
			mm	-	∅ 9.52	-
Piping	Indoor / Outdoor	Indoor / Outdoor	mm	-	Flared / Flared	-
			mm	-	-	-
Drain Hose Size	O.D, I.D	Min / Standard / Max	mm	-	21.5, 16	-
			m	-	3 / 7.5 / 20	-
Between Indoor & Outdoor	Piping Length	No Charge	m	-	12.5	-
			m	-	15	-
			m	-	-	-
Note	Piping Connection Heat Insulation	Both liquid and gas pipes	-	-	-	-
			-	-	-	-
			-	-	-	-

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-09APC.ATTGLCP (HSN09APC.ATTGLCP / HSU09APC.ATTGLCP)	
Factory Model				S3-Q09JA1YB.ATTGLCP (S3NQ09JA1YB.ATTGLCP / S3UQ09JA1YB.ATTGLCP)	
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.450	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
t-CO ₂ eq		-	0.304		
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SJ / UA3	
Compressor	Type		-	Twin Rotary	
	Model		-	DST066MAA	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	220	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller Fan	
	Motor Type		-	AC	
	Motor Output		W	25	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IP24	
Heat Exchanger	Evaporator	Material, Tube / Fin		Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7 \times 2 \times 15 \times 21 \times 616.8$) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Corrosion Protection		-	PCM	
	Fin Type		-	Slit	
	Condenser	Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1		($\phi 5 \times 2 \times 22 \times 21 \times 686$) x 1
		(ϕ x Row x Column x FPI x L) x Qty.	#2		-
Corrosion Protection			-	Gold	
Fin Type			-	Louver	

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-09IPC.ATTGLCP (HSN09IPC.ATTGLCP / HSU09IPC.ATTGLCP) / S3-Q09JA2PB.ATTGLCP (S3NQ09JA2PB.ATTGLCP / S3UQ09JA2PB.ATTGLCP)		
Factory Model						
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.293	2.600	2.889
			Btu/h	1,000	8,871	9,858
			kJ/h	1,055	9,358	10,400
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Cooling -7°C	Max	kW	-	-	-
			W	150	630	750
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
			W	-	-	-
			W	-	-	-
Running Current	Cooling (T3)	Min ~ Rated ~ Max	A	0.70	3.60	4.50
			A	-	-	-
			A	-	-	-
EER			WW	4.13		
			(Btu/h)W	14.08		
EER (T3)			(kJ/h)W	14.85		
			(Btu/h)W	-		
SEER			-	-		
COP			WW	-		
			(Btu/h)W	-		
SCOP			(kJ/h)W	-		
			-	-		
P design C / P design H			kW	- / -		
Energy Label Grade	Cooling / Heating		-	-		
Annual Energy Consumption	Cooling / Heating		kWh/year	-		
Weighted EER			(Btu/h)W	-		
			WW	-		
Power Supply			∅ V, Hz	1, 230, 60		
Available Voltage Range			V	187 ~ 276		
Power Factor	Cooling / Heating		%	81.0		
Moisture Removal			l/h	1.25		
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	10.5 / 9.0 / 6.6 / 4.2		
		Heating, SH/ H/ M/ L	m³/min	-		
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 39 / 33 / 27 / 21		
		Heating, SH/ H/ M/ L	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	837 x 308 x 189		
		Shipping	mm	897 x 390 x 254		
	Weight	Net	kg	8.7		
		Shipping	kg	10.5		
	Exterior Color Code			Munsell 7.5BG 10/2 (RAL 9016)		
Outdoor	Air Flow Rate	Max	m³/min	28.0		
	Fan Motor Speed	Cooling, Min ~ Max	rpm	-		
		Heating, Min ~ Max	rpm	-		
	Sound Pressure Level	Cooling, Rated	dB(A)	50		
		Heating, Rated	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	720 x 500 x 230		
		Shipping	mm	839 x 532 x 324		
	Weight	Net	kg	22.7		
		Shipping	kg	24.4		
Max. Fuse Size			A	20		
Exterior Color Code			-	Munsell 9.54Y 8.34/1.31 (RAL 9001)		
Operation Range	Cooling		°C DB	18 ~ 48		
	Heating		°C DB	- ~ -		
	Heating		°C WB	- ~ -		
Circuit Breaker			A	15		
Power Supply to Unit			-	Indoor		
Power and Communication Cable			No. × mm²	4 × 1		
Piping	Size	Liquid	mm	∅ 6.35		
		Gas	mm	∅ 9.52		
Connections Method	Indoor / Outdoor		-	Flared / Flared		
Drain Hose Size	O.D, I.D		mm	21.5, 16		
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 20		
		No Charge	m	12.5		
	Max. Elevation Difference		m	15		
	Piping Connection Heat Insulation			-	Both liquid and gas pipes	

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ±20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-09IPC.ATTGLCP (HSN09IPC.ATTGLCP / HSU09IPC.ATTGLCP) S3-Q09JA2PB.ATTGLCP (S3NQ09JA2PB.ATTGLCP / S3UQ09JA2PB.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.450	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
t-CO ₂ eq		-	0.304		
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SJ / UA3	
Compressor	Type		-	Twin Rotary	
	Model		-	DST066MAA	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	220	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller Fan	
	Motor Type		-	AC	
	Motor Output		W	25	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IP24	
Heat Exchanger	Evaporator	Material, Tube / Fin		Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7 \times 2 \times 15 \times 21 \times 616.8$) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	($\phi 0 \times 0 \times 0 \times 0 \times 0$) x 0	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Condenser	Corrosion Protection		-	PCM
		Fin Type		-	Slit
		Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 5 \times 2 \times 22 \times 21 \times 686$) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
Corrosion Protection		-	Gold		
Fin Type		-	Louver		

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
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- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
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- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-12IPA.ATTGLCP (HSN12IPA.ATTGLCP / HSU12IPA.ATTGLCP)		
				S3-Q12JA2PA.ATTGLCP (S3NQ12JA2PA.ATTGLCP / S3UQ12JA2PA.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.586	3.517	3.957
			Btu/h	2,000	12,000	13,500
			kJ/h	2,110	12,660	14,242
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Heating -7°C	Max	kW	-	-	-	
		W	200	1,030	1,290	
		W	-	-	-	
Power Input	Cooling	Min ~ Rated ~ Max	W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
	Heating	Min ~ Rated ~ Max	W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	1.10	5.90	7.20
	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
	Heating	Min ~ Rated ~ Max	A	-	-	-
EER			WW	3.41		
			(Btu/h)W	11.65		
			(kJ/h)W	12.29		
EER (T3)			WW	-		
			(Btu/h)W	-		
SEER			-	-		
COP			WW	-		
			(Btu/h)W	-		
SCOP			(kJ/h)W	-		
			-	-		
P design C / P design H			kW	- / -		
Energy Label Grade	Cooling / Heating		-	-		
Annual Energy Consumption	Cooling / Heating		kWh/year	-		
Weighted EER			(Btu/h)W	-		
			WW	-		
Power Supply			∅ V, Hz	1, 230, 60		
Available Voltage Range			V	187 ~ 276		
Power Factor	Cooling / Heating		%	93.0		
Moisture Removal			l/h	1.25		
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	13.0 / 10.0 / 6.6 / 0.2		
		Heating, SH/ H/ M/ L	m³/min	-		
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 41 / 35 / 27 / 21		
		Heating, SH/ H/ M/ L	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	837 x 308 x 189		
		Shipping	mm	897 x 390 x 254		
	Weight	Net	kg	8.7		
		Shipping	kg	10.5		
	Exterior Color Code			Munsell 7.5BG 10/2 (RAL 9016)		
Outdoor	Air Flow Rate	Max	m³/min	28.0		
	Fan Motor Speed	Cooling, Min ~ Max	rpm	-		
		Heating, Min ~ Max	rpm	-		
	Sound Pressure Level	Cooling, Rated	dB(A)	50		
		Heating, Rated	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	720 x 500 x 230		
		Shipping	mm	839 x 532 x 324		
	Weight	Net	kg	23		
		Shipping	kg	24.7		
Max. Fuse Size			A	15		
Exterior Color Code			Munsell 9.54Y 8.34/1.31 (RAL 9001)			
Operation Range	Cooling		°C DB	18 ~ 48		
	Heating		°C DB	- ~ -		
	Heating		°C WB	- ~ -		
Circuit Breaker			A	15		
Power Supply to Unit			-	Indoor		
Power and Communication Cable			No. × mm²	4 × 1		
Piping	Size	Liquid	mm	∅ 6.35		
		Gas	mm	∅ 9.52		
Connections Method	Indoor / Outdoor		-	Flared / Flared		
Drain Hose Size	O.D, I.D		mm	21.5, 16		
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 20		
		No Charge	m	12.5		
	Max. Elevation Difference		m	15		
	Piping Connection Heat Insulation			-	Both liquid and gas pipes	

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ±20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-12IPA.ATTGLCP (HSN12IPA.ATTGLCP / HSU12IPA.ATTGLCP) S3-Q12JA2PA.ATTGLCP (S3NQ12JA2PA.ATTGLCP / S3UQ12JA2PA.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.570	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
Defrost Method			-	t-CO ₂ eq	
Tool Code (Chassis)	Indoor / Outdoor		-	SJ / UA3	
Compressor	Type		-	Twin Rotary	
	Model		-	DST102MAA	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	280	
	O.L.P. Name		-	-	
Fan (Indoor)	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller, Fan	
	Motor Type		-	AC	
	Motor Output		W	25	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IP44	
Heat Exchanger	Evaporator	Material, Tube / Fin		Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 15 x 21 x 617) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Condenser	Corrosion Protection		-	PCM
		Fin Type		-	Slit
		Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 5$ x 2 x 22 x 21 x 686) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
Corrosion Protection		-	Gold		
Fin Type		-	Louver		

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
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3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-12IPC.ATTGLCP (HSN12IPC.ATTGLCP / HSU12IPC.ATTGLCP)		
Factory Model				S3-Q12JA2PE.ATTGLCP (S3NQ12JA2PE.ATTGLCP / S3UQ12JA2PE.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.586	3.517	3.957
			Btu/h	2,000	12,000	13,500
			kJ/h	2,110	12,660	14,242
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Heating -7°C	Max	kW	-	-	-
			W	200	1,030	1,290
			W	-	-	-
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	1.10	5.90	7.20
			A	-	-	-
			A	-	-	-
EER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	3.41	-
			(Btu/h)W	-	11.65	-
EER (T3)	Cooling (T3)	Min ~ Rated ~ Max	(kJ/h)W	-	12.29	-
			(Btu/h)W	-	-	-
SEER			-	-	-	
COP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
SCOP	Cooling (T3)	Min ~ Rated ~ Max	(kJ/h)W	-	-	-
			-	-	-	-
P design C / P design H			kW	- / -	-	-
Energy Label Grade	Cooling / Heating		-	-	-	-
Annual Energy Consumption	Cooling / Heating		kWh/year	-	-	-
Weighted EER	Cooling (T3)	Min ~ Rated ~ Max	(Btu/h)W	-	-	-
			WW	-	-	-
Power Supply			∅ V, Hz	1, 230, 60	-	-
Available Voltage Range			V	187 ~ 276	-	-
Power Factor	Cooling / Heating		%	93.0	-	-
Moisture Removal			l/h	1.25	-	-
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	13.0 / 10.0 / 6.6 / 0.2	-	-
		Heating, SH/ H/ M/ L	m³/min	-	-	-
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 41 / 35 / 27 / 21	-	-
		Heating, SH/ H/ M/ L	dB(A)	-	-	-
	Sound Power Level		dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	837 x 308 x 189	-	-
		Shipping	mm	897 x 390 x 254	-	-
	Weight	Net	kg	8.7	-	-
		Shipping	kg	10.5	-	-
	Exterior Color Code			-	Munsell 7.5BG 10/2 (RAL 9016)	-
Outdoor	Air Flow Rate	Max	m³/min	28.0	-	-
	Fan Motor Speed	Cooling, Min ~ Max	rpm	-	-	-
		Heating, Min ~ Max	rpm	-	-	-
	Sound Pressure Level	Cooling, Rated	dB(A)	50	-	-
		Heating, Rated	dB(A)	-	-	-
	Sound Power Level		dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	720 x 500 x 230	-	-
		Shipping	mm	839 x 532 x 324	-	-
	Weight	Net	kg	23	-	-
		Shipping	kg	24.7	-	-
Max. Fuse Size		A	15	-	-	
Exterior Color Code			-	Munsell 9.54Y 8.34/1.31 (RAL 9001)	-	
Operation Range	Cooling	°C DB	18 ~ 48	-	-	
	Heating	°C DB	- ~ -	-	-	
	Heating	°C WB	- ~ -	-	-	
Circuit Breaker			A	15	-	
Power Supply to Unit			-	Indoor	-	
Power and Communication Cable			No. × mm²	4 × 1	-	
Piping	Size	Liquid	mm	∅ 6.35	-	-
		Gas	mm	∅ 9.52	-	-
Connections Method	Indoor / Outdoor		-	Flared / Flared	-	
Drain Hose Size	O.D, I.D		mm	21.5, 16	-	
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 20	-	-
		No Charge	m	12.5	-	-
	Max. Elevation Difference		m	15	-	-
	Piping Connection Heat Insulation		-	-	Both liquid and gas pipes	-
Note						
<ul style="list-style-type: none"> • - : No Relation • All power supply and communication cables and circuit breaker must comply with applicable local and national codes. • Exterior color code is approximate value. • It is difficult to measure air flow rate of sleep because of small values. • Maximum heating capacity is for heating operation without any frost. • Fan motor speed could vary ±20 rpm according to the operating conditions. • It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close. • This product contains fluorinated greenhouse gases. • Some specifications may be changed without notifications due to our policy of innovation. • Test conditions are based on ISO 5151. 						

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-12IPC.ATTGLCP (HSN12IPC.ATTGLCP / HSU12IPC.ATTGLCP) S3-Q12JA2PE.ATTGLCP (S3NQ12JA2PE.ATTGLCP / S3UQ12JA2PE.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.570	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
	t-CO ₂ eq		-	0.385	
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SJ / UA3	
Compressor	Type		-	Twin Rotary	
	Model		-	DST102MAA	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	280	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller, Fan	
	Motor Type		-	AC	
	Motor Output		W	25	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IP44	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 15 x 21 x 617) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Corrosion Protection		-	PCM	
	Fin Type		-	Slit	
	Condenser	Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1		($\phi 5$ x 2 x 22 x 21 x 686) x 1
		(ϕ x Row x Column x FPI x L) x Qty.	#2		-
Corrosion Protection			-	Gold	
Fin Type			-	Louver	
Note					
<ul style="list-style-type: none"> • - : No Relation • All power supply and communication cables and circuit breaker must comply with applicable local and national codes. • Exterior color code is approximate value. • It is difficult to measure air flow rate of sleep because of small values. • Maximum heating capacity is for heating operation without any frost. • Fan motor speed could vary ± 20 rpm according to the operating conditions. • It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close. • This product contains fluorinated greenhouse gases. • Some specifications may be changed without notifications due to our policy of innovation. • Test conditions are based on ISO 5151. 					

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-181PA.ATTGLCP (HSN181PA.ATTGLCP / HSU181PA.ATTGLCP)		
				S3-Q18KL2PA.ATTGLCP (S3NQ18KL2PA.ATTGLCP / S3UQ18KL2PA.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.996	5.275	5.862
			Btu/h	3,400	18,000	20,000
	Cooling (T3)	Min ~ Rated ~ Max	kJ/h	3,587	18,990	21,100
			kW	-	-	-
	Heating	Min ~ Rated ~ Max	Btu/h	-	-	-
			kW	-	-	-
Heating -7°C	Max	Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Cooling	Min ~ Rated ~ Max	kW	250	1,540	2,000
			W	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	0.70	7.10	10.00
			A	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
A			-	-	-	
EER			WW	-	3.43	-
			(Btu/h)W	-	11.69	-
			(kJ/h)W	-	12.33	-
EER (T3)			WW	-	-	-
			(Btu/h)W	-	-	-
SEER			-	-	-	
COP			WW	-	-	-
			(Btu/h)W	-	-	-
SCOP			(kJ/h)W	-	-	-
			-	-	-	-
P design C / P design H			kW	- / -	-	
Energy Label Grade	Cooling / Heating		-	-	-	
Annual Energy Consumption	Cooling / Heating		kWh/year	-	-	
Weighted EER			(Btu/h)W	-	-	
			WW	-	-	
Power Supply			∅ V, Hz	1, 230, 60	-	
Available Voltage Range			V	187 ~ 276	-	
Power Factor	Cooling / Heating		%	94.0	-	
Moisture Removal			l/h	1.25	-	
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	18.0 / 12.7 / 10.2 / 8.4	-	
		Heating, SH/ H/ M/ L	m³/min	-	-	
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 45 / 40 / 37 / 32	-	
		Heating, SH/ H/ M/ L	dB(A)	-	-	
	Sound Power Level		dB(A)	-	-	
	Dimensions (W × H × D)	Net	mm	998 x 345 x 210	-	
		Shipping	mm	1068 x 425 x 279	-	
	Weight	Net	kg	11.2	-	
		Shipping	kg	13.2	-	
	Exterior Color Code			-	Munsell 7.5BG 10/2 (RAL 9016)	
Outdoor	Air Flow Rate	Max	m³/min	31.0	-	
	Fan Motor Speed	Cooling, Min ~ Max	rpm	650 ~ 900	-	
		Heating, Min ~ Max	rpm	-	-	
	Sound Pressure Level	Cooling, Rated	dB(A)	53	-	
		Heating, Rated	dB(A)	-	-	
	Sound Power Level		dB(A)	-	-	
	Dimensions (W × H × D)	Net	mm	770 x 545 x 288	-	
		Shipping	mm	920 x 588 x 393	-	
	Weight	Net	kg	32.5	-	
		Shipping	kg	34.8	-	
Max. Fuse Size		A	15	-		
Exterior Color Code			-	Munsell 9.54Y 8.34/1.31 (RAL 9001)		
Operation Range	Cooling	°C DB	18 ~ 48	-		
	Heating	°C DB	- ~ -	-		
	Heating	°C WB	- ~ -	-		
Circuit Breaker		A	25	-		
Power Supply to Unit		-	-	Indoor		
Power and Communication Cable			No. × mm²	4 × 1.5		
Piping	Size	Liquid	mm	∅ 6.35		
		Gas	mm	∅ 12.7		
Connections Method	Indoor / Outdoor	-	-	Flared / Flared		
Drain Hose Size	O.D, I.D	mm	21.5, 16	-		
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 30		
		No Charge	m	12.5		
	Max. Elevation Difference	m	20	-		
	Piping Connection Heat Insulation	-	-	-	Both liquid and gas pipes	
Note						
<ul style="list-style-type: none"> • - : No Relation • All power supply and communication cables and circuit breaker must comply with applicable local and national codes. • Exterior color code is approximate value. • It is difficult to measure air flow rate of sleep because of small values. • Maximum heating capacity is for heating operation without any frost. • Fan motor speed could vary ±20 rpm according to the operating conditions. • It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close. • This product contains fluorinated greenhouse gases. • Some specifications may be changed without notifications due to our policy of innovation. • Test conditions are based on ISO 5151. 						

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-181PA.ATTGLCP (HSN181PA.ATTGLCP / HSU181PA.ATTGLCP) S3-Q18KL2PA.ATTGLCP (S3NQ18KL2PA.ATTGLCP / S3UQ18KL2PA.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.950	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
	t-CO ₂ eq		-	0.641	
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SK / UL2	
Compressor	Type		-	Twin Rotary	
	Model		-	DAT156MAD	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	400	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller, Fan	
	Motor Type		-	BLDC	
	Motor Output		W	43	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin		Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 16 x 20 x 744) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Condenser	Corrosion Protection		-	PCM
		Fin Type		-	Slit
		Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 24 x 18 x 823) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
Corrosion Protection		-	Gold		
Fin Type		-	Louver		

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-24IPA.ATTGLCP (HSN24IPA.ATTGLCP / HSU24IPA.ATTGLCP) / S3-Q24K22PA.ATTGLCP (S3NQ24K22PA.ATTGLCP / S3UQ24K22PA.ATTGLCP)		
Factory Model						
Capacity	Cooling	Min ~ Rated ~ Max	kW	1.114	6.301	6.975
			Btu/h	3,800	21,500	23,800
	Cooling (T3)	Min ~ Rated ~ Max	kJ/h	4,009	22,682	25,109
			kW	-	-	-
	Heating	Min ~ Rated ~ Max	Btu/h	-	-	-
			kW	-	-	-
Heating -7°C	Max	kJ/h	-	-	-	
		kW	-	-	-	
Power Input	Cooling	Min ~ Rated ~ Max	W	320	1,850	2,600
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
	Heating	Min ~ Rated ~ Max	W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	2.20	8.50	12.00
	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
	Heating	Min ~ Rated ~ Max	A	-	-	-
EER			WWW	3.41		
			(Btu/h)W	11.62		
			(kJ/h)W	12.26		
EER (T3)			WWW	-		
			(Btu/h)W	-		
SEER			-	-		
COP			WWW	-		
			(Btu/h)W	-		
SCOP			(kJ/h)W	-		
			-	-		
P design C / P design H			kW	- / -		
Energy Label Grade	Cooling / Heating		-	-		
Annual Energy Consumption	Cooling / Heating		kWh/year	-		
Weighted EER			(Btu/h)W	-		
			WWW	-		
Power Supply			Ø, V, Hz	1, 230, 60		
Available Voltage Range			V	187 ~ 276		
Power Factor	Cooling / Heating		%	97.2		
Moisture Removal			l/h	2.80		
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	20.0 / 15.0 / 12.5 / 10.6		
		Heating, SH/ H/ M/ L	m³/min	-		
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 47 / 41 / 37 / 32		
		Heating, SH/ H/ M/ L	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	998 x 345 x 210		
		Shipping	mm	1068 x 425 x 279		
	Weight	Net	kg	11.6		
		Shipping	kg	13.4		
	Exterior Color Code			-	Munsell 7.5BG 10/2 (RAL 9016)	
Outdoor	Air Flow Rate	Max	m³/min	49.0		
	Fan Motor Speed	Cooling, Min ~ Max	rpm	380 ~ 850		
		Heating, Min ~ Max	rpm	-		
	Sound Pressure Level	Cooling, Rated	dB(A)	55		
		Heating, Rated	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	870 x 650 x 330		
		Shipping	mm	1040 x 710 x 455		
	Weight	Net	kg	42.5		
		Shipping	kg	45.9		
Max. Fuse Size			A	20		
Exterior Color Code			-	Munsell 9.54Y 8.34/1.31 (RAL 9001)		
Operation Range	Cooling		°C DB	18 ~ 48		
	Heating		°C DB	- ~ -		
	Heating		°C WB	- ~ -		
Circuit Breaker			A	30		
Power Supply to Unit			-	Indoor		
Power and Communication Cable			No. × mm²	4 × 1.5		
Piping	Size	Liquid	mm	ø 6.35		
		Gas	mm	ø 15.88		
Connections Method	Indoor / Outdoor		-	Flared / Flared		
Drain Hose Size	O.D, I.D		mm	21.5, 16		
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 30		
		No Charge	m	12.5		
	Max. Elevation Difference			m	20	
Piping Connection Heat Insulation			-	Both liquid and gas pipes		
Note						
• - : No Relation						
• All power supply and communication cables and circuit breaker must comply with applicable local and national codes.						
• Exterior color code is approximate value.						
• It is difficult to measure air flow rate of sleep because of small values.						
• Maximum heating capacity is for heating operation without any frost.						
• Fan motor speed could vary ±20 rpm according to the operating conditions.						
• It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.						
• This product contains fluorinated greenhouse gases.						
• Some specifications may be changed without notifications due to our policy of innovation.						
• Test conditions are based on ISO 5151.						

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-24IPA.ATTGLCP (HSN24IPA.ATTGLCP / HSU24IPA.ATTGLCP) S3-Q24K22PA.ATTGLCP (S3NQ24K22PA.ATTGLCP / S3UQ24K22PA.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	1.150	
	Additional Charge		g/m	20	
	Control		-	Electronic Expansion Valve	
	Global Warming Potential		-	675	
Defrost Method			-	t-CO ₂ eq	
Tool Code (Chassis)	Indoor / Outdoor		-	SK / U24A	
Compressor	Type		-	Twin Rotary	
	Model		-	DAT156MAD	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	400	
	O.L.P. Name		-	-	
Fan (Indoor)	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller, Fan	
	Motor Type		-	BLDC	
	Motor Output		W	85	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin		Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 16 x 20 x 744) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Condenser	Corrosion Protection		-	PCM
		Fin Type		-	Slit
		Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 28 x 18 x 940) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
Corrosion Protection		-	Gold		
Fin Type		-	Louver		

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-091PA.ATTGLCP (HSN091PA.ATTGLCP / HSU091PA.ATTGLCP)		
Factory Model				S3-Q09JA2PA.ATTGLCP (S3NQ09JA2PA.ATTGLCP / S3UQ09JA2PA.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.528	2.696	3.488
			Btu/h	1,800	9,200	11,900
			kJ/h	1,899	9,706	12,554
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Cooling -7°C	Max	kW	-	-	-
			W	150	770	1,000
			W	-	-	-
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	0.90	4.40	6.00
			A	-	-	-
			A	-	-	-
EER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	3.50	-
			(Btu/h)W	-	11.95	-
			(kJ/h)W	-	12.60	-
EER (T3)	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SEER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
COP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SCOP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
Energy Label Grade	Cooling / Heating	Annual Energy Consumption	kW	- / -	-	-
			W	-	-	-
			W	-	-	-
Weighted EER	Cooling / Heating	Annual Energy Consumption	kWh/year	-	-	-
			(Btu/h)W	-	-	-
			WW	-	-	-
Power Supply	Cooling / Heating	Moisture Removal	∅ V, Hz	1, 230, 60	-	-
			V	187 ~ 276	-	-
			%	93.0	-	-
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	10.5 / 9.0 / 6.6 / 4.2	-	-
		Heating, SH/ H/ M/ L	m³/min	-	-	-
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 39 / 33 / 27 / 21	-	-
		Heating, SH/ H/ M/ L	dB(A)	-	-	-
	Sound Power Level	Cooling, SH/ H/ M/ L / SL	dB(A)	-	-	-
		Heating, SH/ H/ M/ L	dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	837 x 308 x 189	-	-
		Shipping	mm	897 x 390 x 254	-	-
	Weight	Net	kg	8.7	-	-
		Shipping	kg	10.5	-	-
Outdoor	Air Flow Rate	Max	m³/min	28.0	-	-
		Cooling, Min ~ Max	rpm	-	-	-
	Fan Motor Speed	Heating, Min ~ Max	rpm	-	-	-
		Cooling, Rated	dB(A)	50	-	-
	Sound Pressure Level	Heating, Rated	dB(A)	-	-	-
		Cooling, Rated	dB(A)	-	-	-
	Sound Power Level	Heating, Rated	dB(A)	-	-	-
		Cooling, Rated	dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	717 x 495 x 230	-	-
		Shipping	mm	839 x 532 x 324	-	-
Weight	Net	kg	21.7	-	-	
	Shipping	kg	23.5	-	-	
Max. Fuse Size	Cooling	A	15	-	-	
	Heating	A	15	-	-	
Exterior Color Code	Cooling	-	Munsell 7.5BG 10/2 (RAL 9016)	-	-	
	Heating	-	Munsell 9.54Y 8.34/1.31 (RAL 9001)	-	-	
Operation Range	Cooling	°C DB	18 ~ 48	-	-	
	Heating	°C DB	- ~ -	-	-	
	Heating	°C WB	- ~ -	-	-	
Circuit Breaker	Cooling	A	15	-	-	
	Heating	A	15	-	-	
Power Supply to Unit	Cooling	-	Indoor	-	-	
	Heating	-	Indoor	-	-	
Power and Communication Cable	Cooling	No. × mm²	4 × 1	-	-	
	Heating	No. × mm²	4 × 1	-	-	
Piping	Size	Liquid	mm	∅ 6.35	-	
		Gas	mm	∅ 9.52	-	
Connections Method	Indoor / Outdoor	-	-	Flared / Flared	-	
	O.D, I.D	mm	21.5, 16	-	-	
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 20	-	
		No Charge	m	12.5	-	
		Max. Elevation Difference	m	15	-	
Piping Connection Heat Insulation	Cooling	-	-	Both liquid and gas pipes	-	
	Heating	-	-	Both liquid and gas pipes	-	

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ±20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-09IPA.ATTGLCP (HSN09IPA.ATTGLCP / HSU09IPA.ATTGLCP) S3-Q09JA2PA.ATTGLCP (S3NQ09JA2PA.ATTGLCP / S3UQ09JA2PA.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.500	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
	t-CO ₂ eq		-	0.338	
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SJ / UA3	
Compressor	Type		-	Twin Rotary	
	Model		-	DST066MAA	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	220	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller, Fan	
	Motor Type		-	AC	
	Motor Output		W	25	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IP44	
Heat Exchanger	Evaporator	Material, Tube / Fin		Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 15 x 21 x 617) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Condenser	Corrosion Protection		-	PCM
		Fin Type		-	Slit
		Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1		($\phi 7$ x 1 x 22 x 21 x 667.5) x 1
		(ϕ x Row x Column x FPI x L) x Qty.	#2		-
	Corrosion Protection		-	Gold	
	Fin Type		-	Louver	

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-18ISW.ATTGLCP (HSN18ISW.ATTGLCP / HSU18ISW.ATTGLCP)		
Factory Model				S3-Q18KL31A.ATTGLCP (S3NQ18KL31A.ATTGLCP / S3UQ18KL31A.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	1.389	5.275	6.008
			Btu/h	4,739	18,000	20,500
			kJ/h	5,000	18,990	21,627
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Heating -7°C	Max	kW	-	-	-
			W	290	1,540	2,000
			W	-	-	-
			W	-	-	-
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	1.40	7.10	10.00
			A	-	-	-
			A	-	-	-
EER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	3.43	-
			(Btu/h)W	-	11.69	-
			(kJ/h)W	-	12.33	-
EER (T3)	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SEER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
COP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SCOP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
Energy Label Grade	Cooling / Heating	Annual Energy Consumption	kW	- / -	-	-
			W	-	-	-
			W	-	-	-
Weighted EER	Cooling / Heating	Annual Energy Consumption	kWh/year	-	-	-
			(Btu/h)W	-	-	-
			WW	-	-	-
Power Supply	Cooling / Heating	Moisture Removal	∅ V, Hz	1, 230, 60	-	-
			V	187 ~ 276	-	-
			%	94.0	-	-
Indoor	Cooling, SH / H / M / L	Air Flow Rate	m³/min	18.0 / 12.7 / 10.2 / 8.4	-	-
			m³/min	-	-	-
			m³/min	-	-	-
Indoor	Cooling, SH / H / M / L / SL	Sound Pressure Level	dB(A)	- / 45 / 40 / 37 / 32	-	-
			dB(A)	-	-	-
			dB(A)	-	-	-
Indoor	Cooling, SH / H / M / L	Sound Power Level	dB(A)	-	-	-
			dB(A)	-	-	-
			dB(A)	-	-	-
Indoor	Net	Dimensions (W × H × D)	mm	998 x 345 x 210	-	-
			mm	1068 x 425 x 279	-	-
			mm	-	-	-
Indoor	Net	Weight	kg	11.2	-	-
			kg	13.2	-	-
			kg	-	-	-
Indoor	Shipping	Exterior Color Code	-	Munsell 7.5BG 10/2 (RAL 9016)	-	-
			-	-	-	-
			-	-	-	-
Outdoor	Max	Air Flow Rate	m³/min	38.0	-	-
			rpm	650 ~ 900	-	-
			rpm	-	-	-
			dB(A)	53	-	-
			dB(A)	-	-	-
			dB(A)	-	-	-
			mm	770 x 545 x 288	-	-
			mm	920 x 588 x 393	-	-
			kg	32.5	-	-
			kg	36.5	-	-
Outdoor	Cooling	Operation Range	°C DB	18 ~ 48	-	-
			°C DB	- ~ -	-	-
			°C WB	- ~ -	-	-
Circuit Breaker	Cooling	Max. Fuse Size	A	25	-	-
			A	-	-	-
			A	-	-	-
Power Supply to Unit	Heating	Power and Communication Cable	-	Indoor	-	-
			-	-	-	-
			-	-	-	-
Piping	Indoor / Outdoor	Connections Method	No. × mm²	4 x 1.5	-	-
			mm	∅ 6.35	-	-
			mm	∅ 12.7	-	-
Drain Hose Size	Indoor / Outdoor	O.D, I.D	-	Flared / Flared	-	-
			mm	21.5, 16	-	-
			mm	3 / 7.5 / 30	-	-
Between Indoor & Outdoor	Min / Standard / Max	Piping Length	m	12.5	-	-
			m	20	-	-
			m	-	-	-
Note	No Charge	Max. Elevation Difference	-	Both liquid and gas pipes	-	-
			-	-	-	-
			-	-	-	-

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ±20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-18ISW.ATTGLCP (HSN18ISW.ATTGLCP / HSU18ISW.ATTGLCP) S3-Q18KL31A.ATTGLCP (S3NQ18KL31A.ATTGLCP / S3UQ18KL31A.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.950	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
	t-CO ₂ eq		-	0.641	
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SK / UL2	
Compressor	Type		-	Twin Rotary	
	Model		-	DAT156MAD	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	400	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller Fan	
	Motor Type		-	BLDC	
	Motor Output		W	43	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 16 x 20 x 744) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Condenser	Corrosion Protection	-	-	PCM
		Fin Type	-	-	Slit
		Material, Tube / Fin	-	-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 24 x 18 x 823) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
Corrosion Protection	-	-	Gold		
Fin Type	-	-	Louver		

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-24ISW.ATTGLCP (HSN24ISW.ATTGLCP / HSU24ISW.ATTGLCP) S3-Q24K231A.ATTGLCP (S3NQ24K231A.ATTGLCP / S3UQ24K231A.ATTGLCP)		
Factory Model						
Capacity	Cooling	Min ~ Rated ~ Max	kW	1.806	6.301	6.975
			Btu/h	6,161	21,500	23,800
	Cooling (T3)	Min ~ Rated ~ Max	kJ/h	6,499	22,682	25,109
			kW	-	-	-
	Heating	Min ~ Rated ~ Max	Btu/h	-	-	-
kW			-	-	-	
Btu/h			-	-	-	
Power Input	Cooling	Min ~ Rated ~ Max	kJ/h	-	-	-
			kW	-	-	-
	Cooling (T3)	Min ~ Rated ~ Max	kW	315	1,850	2,600
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	W	-	-	-
			A	1.60	8.50	12.00
	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
W			-	-	-	
EER			A	-	-	-
			WWW	-	3.41	-
			(Btu/h)W	-	11.62	-
EER (T3)			(kJ/h)W	-	12.26	-
			(Btu/h)W	-	-	-
SEER			-	-	-	
COP			WWW	-	-	-
			(Btu/h)W	-	-	-
SCOP			(kJ/h)W	-	-	-
			-	-	-	-
P design C / P design H			kW	- / -	-	
Energy Label Grade		Cooling / Heating	-	-	-	
Annual Energy Consumption		Cooling / Heating	kWh/year	-	-	
Weighted EER			(Btu/h)W	-	-	
			WWW	-	-	
Power Supply			∅ V, Hz	1, 230, 60	-	
Available Voltage Range			V	187 ~ 276	-	
Power Factor		Cooling / Heating	%	97.2	-	
Moisture Removal			l/h	2.80	-	
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	20.0 / 15.0 / 12.5 / 10.6	-	
		Heating, SH/ H/ M/ L	m³/min	-	-	
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 47 / 41 / 37 / 32	-	
		Heating, SH/ H/ M/ L	dB(A)	-	-	
	Sound Power Level		dB(A)	-	-	
	Dimensions (W × H × D)	Net	mm	998 x 345 x 210	-	
		Shipping	mm	1068 x 425 x 279	-	
	Weight	Net	kg	11.6	-	
		Shipping	kg	13.4	-	
	Exterior Color Code			-	Munsell 7.5BG 10/2 (RAL 9016)	
Outdoor	Air Flow Rate	Max	m³/min	49.0	-	
	Fan Motor Speed	Cooling, Min ~ Max	rpm	380 ~ 850	-	
		Heating, Min ~ Max	rpm	-	-	
	Sound Pressure Level	Cooling, Rated	dB(A)	55	-	
		Heating, Rated	dB(A)	-	-	
	Sound Power Level		dB(A)	-	-	
	Dimensions (W × H × D)	Net	mm	870 x 650 x 330	-	
		Shipping	mm	1040 x 710 x 455	-	
	Weight	Net	kg	42.5	-	
		Shipping	kg	48.4	-	
Max. Fuse Size		A	20	-		
Exterior Color Code			-	Munsell 9.54Y 8.34/1.31 (RAL 9001)		
Operation Range	Cooling	°C DB	18 ~ 48	-		
	Heating	°C DB	- ~ -	-		
	Heating	°C WB	- ~ -	-		
Circuit Breaker			A	30		
Power Supply to Unit			-	Indoor		
Power and Communication Cable			No. × mm²	4 × 1.5		
Piping	Size	Liquid	mm	∅ 6.35		
		Gas	mm	∅ 15.88		
Connections Method	Indoor / Outdoor	-	-	Flared / Flared		
Drain Hose Size	O.D, I.D	mm	21.5, 16	-		
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 30		
		No Charge	m	12.5		
	Max. Elevation Difference		m	20		
	Piping Connection Heat Insulation		-	-	Both liquid and gas pipes	
Note • - : No Relation • All power supply and communication cables and circuit breaker must comply with applicable local and national codes. • Exterior color code is approximate value. • It is difficult to measure air flow rate of sleep because of small values. • Maximum heating capacity is for heating operation without any frost. • Fan motor speed could vary ±20 rpm according to the operating conditions. • It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close. • This product contains fluorinated greenhouse gases. • Some specifications may be changed without notifications due to our policy of innovation. • Test conditions are based on ISO 5151.						

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-24ISW.ATTGLCP (HSN24ISW.ATTGLCP / HSU24ISW.ATTGLCP) S3-Q24K231A.ATTGLCP (S3NQ24K231A.ATTGLCP / S3UQ24K231A.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	1.150	
	Additional Charge		g/m	20	
	Control		-	Electronic Expansion Valve	
	Global Warming Potential		-	675	
	t-CO ₂ eq		-	0.776	
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SK / U24A	
Compressor	Type		-	Twin Rotary	
	Model		-	DAT156MAD	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	400	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller, Fan	
	Motor Type		-	BLDC	
	Motor Output		W	85	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 16 x 20 x 744) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Corrosion Protection		-	PCM	
	Fin Type		-	Slit	
	Condenser	Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1		($\phi 7$ x 2 x 28 x 18 x 940) x 1
		(ϕ x Row x Column x FPI x L) x Qty.	#2		-
Corrosion Protection			-	Gold	
Fin Type			-	Louver	

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-18ISU.ATTGLCP (HSN18ISU.ATTGLCP / HSU18ISU.ATTGLCP) / S3-Q18KL3WG.ATTGLCP (S3NQ18KL3WG.ATTGLCP / S3UQ18KL3WG.ATTGLCP)		
Factory Model						
Capacity	Cooling	Min ~ Rated ~ Max	kW	1.000	5.280	6.010
			Btu/h	3,400	18,000	20,500
	Cooling (T3)	Min ~ Rated ~ Max	kJ/h	3,587	18,990	21,627
			kW	-	-	-
	Heating	Min ~ Rated ~ Max	Btu/h	-	-	-
kW			-	-	-	
Btu/h			-	-	-	
Heating -7°C	Max		kJ/h	-	-	-
			kW	-	-	-
Power Input	Cooling	Min ~ Rated ~ Max	W	250	1,540	2,000
	Cooling (T3)	Min ~ Rated ~ Max	W	-	-	-
	Heating	Min ~ Rated ~ Max	W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	1.40	7.10	10.00
	Cooling (T3)	Min ~ Rated ~ Max	A	-	-	-
	Heating	Min ~ Rated ~ Max	A	-	-	-
EER			WW	3.43		
			(Btu/h)W	11.69		
			(kJ/h)W	12.33		
EER (T3)			WW	-		
			(Btu/h)W	-		
CSPF			-	-		
COP			WW	-		
			(Btu/h)W	-		
SCOP			(kJ/h)W	-		
			-	-		
P design C / P design H			kW	- / -		
Energy Label Grade	Cooling / Heating		-	-		
Annual Energy Consumption	Cooling / Heating		kWh/year	-		
Weighted EER			(Btu/h)W	-		
			WW	-		
Power Supply			Ø, V, Hz	1, 230, 60		
Available Voltage Range			V	187~276		
Power Factor	Cooling / Heating		%	94.0		
Moisture Removal			l/h	1.25		
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	18.0 / 12.7 / 10.2 / 8.4		
		Heating, SH/ H/ M/ L	m³/min	-		
	Sound Pressure Level	Cooling, SH/ H/ M/ L / SL	dB(A)	- / 45 / 40 / 37 / 32		
		Heating, SH/ H/ M/ L	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	998 x 345 x 210		
		Shipping	mm	1068 x 425 x 279		
	Weight	Net	kg	11.2		
		Shipping	kg	13.2		
	Exterior Color Code			-	Munsell 7.5BG 10/2 (RAL 9016)	
Outdoor	Air Flow Rate	Max	m³/min	31.0		
	Fan Motor Speed	Cooling, Min ~ Max	rpm	650 ~ 850		
		Heating, Min ~ Max	rpm	-		
	Sound Pressure Level	Cooling, Rated	dB(A)	53		
		Heating, Rated	dB(A)	-		
	Sound Power Level		dB(A)	-		
	Dimensions (W × H × D)	Net	mm	770 x 454 x 288		
		Shipping	mm	920 x 588 x 393		
	Weight	Net	kg	30.7		
		Shipping	kg	32.8		
Max. Fuse Size			A	15		
Exterior Color Code			-	Munsell 9.54Y 8.34/1.31 (RAL 9001)		
Operation Range	Cooling		°C DB	18 ~ 48		
	Heating		°C DB	--		
	Heating		°C WB	--		
Circuit Breaker			A	25		
Power Supply to Unit			-	Indoor		
Power and Communication Cable			No. × mm²	4 × 1.5		
Piping	Size	Liquid	mm	ø 6.35		
		Gas	mm	ø 12.7		
Connections Method	Indoor / Outdoor		-	Flared / Flared		
Drain Hose Size	O.D, I.D		mm	21.5, 16		
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	3 / 7.5 / 30		
		No Charge	m	12.5		
	Max. Elevation Difference			m	20	
Piping Connection Heat Insulation			-	Both liquid and gas pipes		
<p>Note</p> <ul style="list-style-type: none"> • - : No Relation • All power supply and communication cables and circuit breaker must comply with applicable local and national codes. • Exterior color code is approximate value. • It is difficult to measure air flow rate of sleep because of small values. • Maximum heating capacity is for heating operation without any frost. • Fan motor speed could vary ±20 rpm according to the operating conditions. • It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close. • This product contains fluorinated greenhouse gases. • Some specifications may be changed without notifications due to our policy of innovation. • Test conditions are based on ISO 5151. 						

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-18ISU.ATTGLCP (HSN18ISU.ATTGLCP / HSU18ISU.ATTGLCP) S3-Q18KL3WG.ATTGLCP (S3NQ18KL3WG.ATTGLCP / S3UQ18KL3WG.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.700	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
	t-CO ₂ eq		-	0.473	
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SK / UL2	
Compressor	Type		-	Twin Rotary	
	Model		-	DAT156MAD	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	400	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller Fan	
	Motor Type		-	BLDC	
	Motor Output		W	43	
	Motor Insulation		-	Class E	
	Motor Enclosure / Ingress Protection		-	TEAO / IPX4	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 7$ x 2 x 16 x 20 x 744) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Corrosion Protection		-	PCM	
	Fin Type		-	Slit	
	Condenser	Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1		($\phi 5$ x 2 x 25 x 21 x 823) x 1
		(ϕ x Row x Column x FPI x L) x Qty.	#2		-
Corrosion Protection			-	Gold	
Fin Type			-	Louver	

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-09ISU.ATTGLCP (HSN09ISU.ATTGLCP / HSU09ISU.ATTGLCP)		
Factory Model				S3-Q09JA3WG.ATTGLCP (S3NQ09JA3WG.ATTGLCP / S3UQ09JA3WG.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.500	2.700	3.370
			Btu/h	1,700	9,200	11,500
			kJ/h	1,794	9,706	12,133
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Heating -7°C	Max	kW	-	-	-
			W	140	770	1,050
			W	-	-	-
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	0.80	4.40	7.00
			A	-	-	-
			A	-	-	-
EER	Cooling (T3)	Min ~ Rated ~ Max	WW	-	3.51	-
			(Btu/h)W	-	11.95	-
			(kJ/h)W	-	12.60	-
EER (T3)	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
CSPF	Cooling (T3)	Min ~ Rated ~ Max	-	-	-	-
			-	-	-	-
			-	-	-	-
COP	Cooling (T3)	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SCOP	Cooling (T3)	Min ~ Rated ~ Max	-	-	-	-
			-	-	-	-
			-	-	-	-
Energy Label Grade	Cooling / Heating	Annual Energy Consumption	kW	- / -	-	-
			W	-	-	-
			W	-	-	-
Weighted EER	Cooling / Heating	Annual Energy Consumption	(Btu/h)W	-	-	-
			WW	-	-	-
			WW	-	-	-
Power Supply	Cooling / Heating	Annual Energy Consumption	∅ V, Hz	1, 230, 60	-	-
			V	187 ~ 276	-	-
			%	93.0	-	-
Moisture Removal	Cooling / Heating	Annual Energy Consumption	l/h	1.25	-	-
			m³/min	10.5 / 9.0 / 6.6 / 4.2	-	-
			m³/min	-	-	-
Indoor	Air Flow Rate	Cooling, SH / H / M / L	m³/min	-	-	-
		Heating, SH / H / M / L	m³/min	-	-	-
	Sound Pressure Level	Cooling, SH / H / M / L / SL	dB(A)	- / 39 / 33 / 27 / 21	-	-
		Heating, SH / H / M / L	dB(A)	-	-	-
	Sound Power Level	Cooling, SH / H / M / L / SL	dB(A)	-	-	-
		Heating, SH / H / M / L	dB(A)	-	-	-
Dimensions (W × H × D)	Net	mm	837 x 308 x 189	-	-	
	Shipping	mm	897 x 390 x 254	-	-	
Weight	Net	kg	8.2	-	-	
	Shipping	kg	9.6	-	-	
Exterior Color Code	Cooling / Heating	Annual Energy Consumption	-	Munsell 7.5BG 10/2 (RAL 9016)	-	-
			-	-	-	-
			-	-	-	-
Outdoor	Air Flow Rate	Max	m³/min	28.0	-	-
			rpm	-	-	-
	Fan Motor Speed	Cooling, Min ~ Max	rpm	-	-	-
		Heating, Min ~ Max	rpm	-	-	-
	Sound Pressure Level	Cooling, Rated	dB(A)	50	-	-
		Heating, Rated	dB(A)	-	-	-
	Sound Power Level	Cooling, Rated	dB(A)	-	-	-
		Heating, Rated	dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	717 x 495 x 230	-	-
		Shipping	mm	839 x 532 x 324	-	-
Weight	Net	kg	21.7	-	-	
	Shipping	kg	23.5	-	-	
Max. Fuse Size	Cooling	Annual Energy Consumption	A	15	-	-
			A	-	-	-
			A	-	-	-
Exterior Color Code	Cooling	Annual Energy Consumption	-	Munsell 9.54Y 8.34/1.31 (RAL 9001)	-	-
			-	-	-	-
			-	-	-	-
Operation Range	Cooling	Annual Energy Consumption	°C DB	18 ~ 48	-	-
			°C DB	- ~ -	-	-
			°C WB	- ~ -	-	-
Circuit Breaker	Cooling	Annual Energy Consumption	A	15	-	-
			A	-	-	-
			A	-	-	-
Power Supply to Unit	Cooling	Annual Energy Consumption	-	Indoor	-	-
			-	-	-	-
			-	-	-	-
Power and Communication Cable	Cooling	Annual Energy Consumption	No. × mm²	4 × 1	-	-
			mm	∅ 6.35	-	-
			mm	∅ 9.52	-	-
Piping	Connections Method	Indoor / Outdoor	-	Flared / Flared	-	-
			-	-	-	-
Drain Hose Size	Piping Length	Min / Standard / Max	mm	21.5, 16	-	-
			m	3 / 7.5 / 20	-	-
			m	7.5	-	-
Between Indoor & Outdoor	Max. Elevation Difference	No Charge	m	15	-	-
			m	-	-	-
Note	Piping Connection Heat Insulation	No Charge	-	Both liquid and gas pipes	-	-
			-	-	-	-

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-09ISU.ATTGLCP (HSN09ISU.ATTGLCP / HSU09ISU.ATTGLCP) S3-Q09JA3WG.ATTGLCP (S3NQ09JA3WG.ATTGLCP / S3UQ09JA3WG.ATTGLCP)	
Factory Model					
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.340	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
t-CO ₂ eq		-	0.230		
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SJ / UA3	
Compressor	Type		-	Twin Rotary	
	Model		-	DST066MAA	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	220	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China / Thailand	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller Fan	
	Motor Type		-	AC	
	Motor Output		W	25	
	Motor Insulation		-	Class B	
	Motor Enclosure / Ingress Protection		-	TEAO / IP44	
Heat Exchanger	Evaporator	Material, Tube / Fin	-	Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 5 \times 2 \times 15 \times 20 \times 616.8$) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Corrosion Protection		-	PCM	
	Fin Type		-	Slit	
	Condenser	Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1		($\phi 5 \times 1 \times 22 \times 21 \times 686$) x 1
		(ϕ x Row x Column x FPI x L) x Qty.	#2		-
Corrosion Protection			-	Gold	
Fin Type		-	Louver		

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-12ISU.ATTGLCP (HSN12ISU.ATTGLCP / HSU12ISU.ATTGLCP)		
				S3-Q12JA3WG.ATTGLCP (S3NQ12JA3WG.ATTGLCP / S3UQ12JA3WG.ATTGLCP)		
Capacity	Cooling	Min ~ Rated ~ Max	kW	0.640	3.520	3.960
			Btu/h	2,200	12,000	13,500
			kJ/h	2,321	12,660	14,243
	Cooling (T3)	Min ~ Rated ~ Max	kW	-	-	-
			Btu/h	-	-	-
			kJ/h	-	-	-
Heating	Min ~ Rated ~ Max	kW	-	-	-	
		Btu/h	-	-	-	
		kJ/h	-	-	-	
Power Input	Heating -7°C	Max	kW	-	-	-
			W	200	1,030	1,290
			W	-	-	-
			W	-	-	-
Running Current	Cooling	Min ~ Rated ~ Max	A	1.10	5.90	7.20
			A	-	-	-
			A	-	-	-
EER	Cooling	Min ~ Rated ~ Max	WW	-	3.42	-
			(Btu/h)W	-	11.65	-
			(kJ/h)W	-	12.29	-
EER (T3)	Cooling	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
CSPF	Cooling	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
SCOP	Cooling / Heating	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
Energy Label Grade	Cooling / Heating	Min ~ Rated ~ Max	kW	-	-	-
			W	-	-	-
			W	-	-	-
Annual Energy Consumption	Cooling / Heating	Min ~ Rated ~ Max	kWh/year	-	-	-
			(Btu/h)W	-	-	-
			WW	-	-	-
Weighted EER	Cooling / Heating	Min ~ Rated ~ Max	WW	-	-	-
			(Btu/h)W	-	-	-
			(kJ/h)W	-	-	-
Power Supply	Cooling / Heating	Min ~ Rated ~ Max	∅ V, Hz	-	1, 230, 60	-
			V	-	187 ~ 276	-
			%	-	93.0	-
Moisture Removal	Cooling / Heating	Min ~ Rated ~ Max	l/h	-	1.25	-
			m³/min	-	13.0 / 10.0 / 6.6 / 4.2	-
			m³/min	-	-	-
Indoor	Air Flow Rate	Cooling, SH/ H/ M/ L	m³/min	-	-	-
		Heating, SH/ H/ M/ L	m³/min	-	-	-
	Sound Pressure Level	Cooling, SH/ H/ M/ L/ SL	dB(A)	-	-	-
		Heating, SH/ H/ M/ L	dB(A)	-	-	-
	Sound Power Level	Cooling, SH/ H/ M/ L/ SL	dB(A)	-	-	-
		Heating, SH/ H/ M/ L	dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	-	-	837 x 308 x 189
		Shipping	mm	-	-	897 x 390 x 254
	Weight	Net	kg	-	-	8.2
		Shipping	kg	-	-	9.6
Exterior Color Code	Cooling	-	-	-	Munsell 7.5BG 10/2 (RAL 9016)	
	Heating	-	-	-	-	
Outdoor	Air Flow Rate	Max	m³/min	-	-	28.0
		Cooling, Min ~ Max	rpm	-	-	-
	Fan Motor Speed	Heating, Min ~ Max	rpm	-	-	-
		Cooling, Rated	dB(A)	-	-	50
	Sound Pressure Level	Heating, Rated	dB(A)	-	-	-
		Cooling, Rated	dB(A)	-	-	-
	Sound Power Level	Heating, Rated	dB(A)	-	-	-
		Cooling, Rated	dB(A)	-	-	-
	Dimensions (W × H × D)	Net	mm	-	-	717 x 495 x 230
		Shipping	mm	-	-	839 x 532 x 324
Weight	Net	kg	-	-	23	
	Shipping	kg	-	-	24.7	
Max. Fuse Size	Cooling	A	-	-	15	
	Heating	A	-	-	15	
Exterior Color Code	Cooling	-	-	-	Munsell 9.54Y 8.34/1.31 (RAL 9001)	
	Heating	-	-	-	-	
Operation Range	Cooling	°C DB	-	-	18 ~ 48	
	Heating	°C DB	-	-	- ~ -	
Circuit Breaker	Cooling	°C WB	-	-	- ~ -	
	Heating	°C WB	-	-	- ~ -	
Power Supply to Unit	Cooling	A	-	-	15	
	Heating	A	-	-	15	
Power and Communication Cable	Cooling	A	-	-	Indoor	
	Heating	A	-	-	Indoor	
Piping	Size	Liquid	mm	-	4 x 1	
		Gas	mm	-	∅ 6.35	
	Connections Method	Indoor / Outdoor	-	-	-	∅ 9.52
Drain Hose Size	O.D, I.D	Indoor / Outdoor	-	-	Flared / Flared	
		Min / Standard / Max	mm	-	-	21.5, 16
Between Indoor & Outdoor	Piping Length	Min / Standard / Max	m	-	-	3 / 7.5 / 20
		No Charge	m	-	-	7.5
		Max. Elevation Difference	m	-	-	15
Note	Piping Connection Heat Insulation	-	-	-	-	Both liquid and gas pipes

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ±20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.

- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

3. Specifications

Buyer Model	Set (Indoor / Outdoor)		Unit	HS-12ISU.ATTGLCP (HSN12ISU.ATTGLCP / HSU12ISU.ATTGLCP)	
Factory Model				S3-Q12JA3WG.ATTGLCP (S3NQ12JA3WG.ATTGLCP / S3UQ12JA3WG.ATTGLCP)	
Refrigerant	Type		-	R32	
	Pre Charge		kg	0.430	
	Additional Charge		g/m	15	
	Control		-	Capillary	
	Global Warming Potential		-	675	
	t-CO ₂ eq		-	0.290	
Defrost Method			-	-	
Tool Code (Chassis)	Indoor / Outdoor		-	SJ / UA3	
Compressor	Type		-	Twin Rotary	
	Model		-	DST102MAA	
	Motor Type		-	BLDC	
	Oil Type / Maker		-	PVE (FW68D) / IDEMITSU	
	Oil Charge		cc	280	
	O.L.P. Name		-	-	
	Manufacturer / Country of Origin		-	LG Electronics / China / Thailand	
Fan (Indoor)	Type		-	Cross Flow Fan	
	Motor Output		W	30	
Fan (Outdoor)	Type		-	Propeller Fan	
	Motor Type		-	AC	
	Motor Output		W	25	
	Motor Insulation		-	Class B	
	Motor Enclosure / Ingress Protection		-	TEAO / IP44	
Heat Exchanger	Evaporator	Material, Tube / Fin		Cu / Al	
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 5 \times 2 \times 15 \times 20 \times 616.8$) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#3	-	
		(ϕ x Row x Column x FPI x L) x Qty.	#4	-	
	Condenser	Corrosion Protection		-	PCM
		Fin Type		-	Slit
		Material, Tube / Fin		-	Cu / Al
		(ϕ x Row x Column x FPI x L) x Qty.	#1	($\phi 5 \times 2 \times 22 \times 21 \times 686$) x 1	
		(ϕ x Row x Column x FPI x L) x Qty.	#2	-	
Corrosion Protection		-	Gold		
Fin Type		-	Louver		

Note

- - : No Relation
- All power supply and communication cables and circuit breaker must comply with applicable local and national codes.
- Exterior color code is approximate value.
- It is difficult to measure air flow rate of sleep because of small values.
- Maximum heating capacity is for heating operation without any frost.
- Fan motor speed could vary ± 20 rpm according to the operating conditions.
- It may cause reliability, performance, noise, and vibration problem, unless meeting the range of connecting pipe length. Keep the minimum piping length by making loops, although indoor unit and outdoor unit are close.
- This product contains fluorinated greenhouse gases.
- Some specifications may be changed without notifications due to our policy of innovation.
- Test conditions are based on ISO 5151.

4. Function List

Category	Function	Description	
Air Flow	Air Supply Outlet	The number of air outlet from the indoor unit	
	Airflow Direction Control (Left & Right)	Controlling a left-right direction of the indoor air flow	
	Airflow Direction Control (Up & Down)	Controlling a up-down direction of the indoor air flow	
	Auto Swing (Left & Right)	Auto swing air flow right and left for quick-cooling & Heating	
	Auto Swing (Up & Down)	Auto swing air flow up and down for quick-cooling & Heating	
	Fan Speed Steps (Fan / Cool / Heat)	Step adjustable wind strength at each mode	
	Natural Wind (Auto Wind)	Wind strength changes at regular intervals automatically	
	Jet Cool / Jet Heat (Power Wind)	Wind strength is set to the maximum for 30 minutes	
	Comfort Air	Set the vane to a preset position in order to make an indirect wind	
Air Purifying	Prefilter (Washable / Anti-Bacteria)	Capture dust particles over 10µm in size and finer bacteria	
	Deodorizing Filter	Deodorizing filter of the three techniques	
	Micro Dust Filter	Capture dust particles over 0.3µm in size	
	Allergy Filter	Capture all allergy-causing substances such as house dust and mites floating in the air	
Installation	Plasma Air Purifier (Ionizer)	Reduce harmful microscopic particles and odor	
Reliability	Drain Pump	Water drain pump for indoor unit	
	Hot Start	In the heating mode, the hot wind from the beginning	
	Self Diagnosis	Self-diagnostic for product protection	
	De-ice Control (Defrost)	In the heating mode, de-icing of the outdoor heat exchanger automatically	
Convenience	Dry (Dehumidification) Operation	Prevent the growth of mold by removing excess moisture from an area with high humidity	
	Auto Changeover	Change the operation mode(cooling & heating) automatically to maintain the set temperature	
	Auto Operation (Artificial Intelligence)	The fan and setting temperature adjust automatically, base on room temperature	
	Auto Cleaning (Coil Dry)	Prevent the formation of bacteria and mold on the heat exchanger	
	Auto Restart Operation	If power is resupplied after blackout, product restart automatically	
	Child Lock ¹	Only for wired-remote controller. Lock the buttons to prevent children control	
	Forced Operation	Use the forced switch of the indoor unit to operate the air conditioner when the remote control is unavailable	
	Group Control ¹	Only for wired-remote controller. Control multiple indoor units at the same time	
	Sleep Mode	Set the off timer and fan speed is decreasing to make quiet environment for comfort sleep	
	Timer 24hr (On/Off) / 7hr (Off)	Set the on/off timer	
	Timer (Weekly) ¹	Only for wired-remote controller. Set the on/off timer	
	Two Thermistor Control ¹	If there is a temperature difference between room temperature and desired temperature, you can use this function in other to prevent insufficient cooling and insufficient heating	
	Low Ambient Operation	The cooling operation is possible even in conditions of extreme cold	
	Overheating Protection	If there is a temperature difference between room temperature and desired temperature, you can use this function in other to prevent over-heating	
	Low Heating	Using less energy helps keep the room warm when going out	
	Voice Control	Customer can control the aircon by voice without wireless remote controller	
	Outdoor Silent Mode	The overall sound level of the outdoor unit drops by up to 3dB	
	Mosquito Away	An ultrasonic sound that mosquitoes detest is emitted to drives away mosquitoes	
	Energy Saving	Smart Diagnosis	Check the your AC's operational information for quick-service and self-diagnosis by sound from indoor unit
		Indoor Unit Display Type	-
Indoor Unit Display Light		Set the brightness of the display on the indoor unit	
Energy Display		Show the power consumption	
Air Quality Indicator (Dust Sensor)		Sense microscopic dusts in the room and let the air purifying system work without additional maneuver	
Energy Saving		Control the optimal desired temperature to save energy	
Energy Control		The customer can control the power consumption or current directly to save energy	
Gen Mode		In areas where electricity is limited, customer can continue to use household appliances with the air-conditioner by reducing power consumption	
Individual Control		Wired Remote Controller ²	-
		Handheld Wireless Controller	-
	General Central Controller (Non LGAP)	-	
CAC Network Function	Network Solution (LGAP)	-	
	Dry Contact ²	-	
	PDI (Power Distribution Indicator) ²	-	
	Outdoor Unit PI 485 ²	-	
Special Function Kit	Wi-Fi ²	Easily access and control an air conditioner's functions from anywhere	
	Water Level Sensor Connection ²	Detect the water level in drain pan	
	Wind Baffle Kit ²	With wind baffle installed, the minimum temperature will be -18 °C (0 °F).B. in cooling	
	Sump Heater	Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Flexible Type)	
	Sheath Heater ²	Prevent the accumulation of freezing on the outdoor-heat-exchanger during winter (Hard Type)	
	Crank Case Heater	Pre-heating the compressor during winter	
Others	Smart Inverter Monitoring System (SIMs) ²	Help you to easily monitor, diagnose the air conditioner and get a quick resolution	
	Mode Lock	Set up the unit available to use only cooling or heating mode in the heat pump model	
	DRED (Demand Response Enabling Device)	-	

Note

- These functions must be applied according to the model. Please refer to the following function list for each model.
- ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
- ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
- The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
- Some specifications may be changed without notifications due to our policy of innovation.

4. Function List

Category	Function	HS-09APC.ATTGLCP S3-Q09JA1YB.ATTGLCP
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	O
	Auto Swing (Up & Down)	O
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X
	Natural Wind (Auto Wind)	O
	Jet Cool / Jet Heat (Power Wind)	O / X
Air Purifying	Comfort Air	O
	Prefilter (Washable / Anti-Bacteria)	O
	Deodorizing Filter	X
	Micro Dust Filter	O
	Allergy Filter	X
Installation	Plasma Air Purifier (Ionizer)	O
	Drain Pump	X
Reliability	Hot Start	X
	Self Diagnosis	O
	De-ice Control (Defrost)	X
	Dry (Dehumidification) Operation	O
Convenience	Dry (Dehumidification) Operation	O
	Auto Changeover	X
	Auto Operation (Artificial Intelligence)	O
	Auto Cleaning (Coil Dry)	O
	Auto Restart Operation	O
	Child Lock ¹	X
	Forced Operation	O
	Group Control ¹	X
	Sleep Mode	7hr
	Timer 24hr (On/Off) / 7hr (Off)	O / X
	Timer (Weekly) ¹	X
	Two Thermistor Control ¹	X
	Low Ambient Operation	X
	Overheating Protection	X
	Low Heating	X
	Voice Control	X
	Outdoor Silent Mode	X
Mosquito Away	X	
Energy Saving	Smart Diagnosis	O
	Indoor Unit Display Type	Number Display
	Indoor Unit Display Light	On/Off
	Energy Display	X
	Air Quality Indicator (Dust Sensor)	O
Individual Control	Energy Saving	X
	Energy Control	Active Energy Control
	Gen Mode	X
CAC Network Function	Wired Remote Controller (Premium) ²	X
	Wired Remote Controller (Standard) ²	X
	Wired Remote Controller (Simple with Mode Selection) ²	X
	Wired Remote Controller (Simple without Mode Selection) ²	X
	Handheld Wireless Controller	(See Remote Controller Section) AKB75215312 Setting Temperature Range (Cooling) 16~30 °C (60~86 °F) Setting Temperature Range (Heating)
Special Function Kit	General Central Controller (Non LGAP)	X
	Network Solution (LGAP)	X
	Dry Contact ²	X
	PDI (Power Distribution Indicator) ²	X
Others	Outdoor Unit PI 485 ²	X
	Wi-Fi ²	Embedded
	Water Level Sensor Connection ²	X
	Wind Baffle Kit ²	X
	Sump Heater	X
	Sheath Heater ²	X
Others	Crank Case Heater	X
	Smart Inverter Monitoring System (SIMS) ²	X
	Mode Lock	X
	DRED (Demand Response Enabling Device)	X

Note

- O : Applied, X : Not applied
- Filters are optional in some specific areas.
- ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
- ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
- The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
- Some specifications may be changed without notifications due to our policy of innovation.

4. Function List

Category	Function	HS-09IPC.ATTGLCP S3-Q09JA2PB.ATTGLCP
Air Flow	Air Supply Outlet	1
	Airflow Direction Control (Left & Right)	5 Steps
	Airflow Direction Control (Up & Down)	6 Steps
	Auto Swing (Left & Right)	O
	Auto Swing (Up & Down)	O
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X
	Natural Wind (Auto Wind)	O
	Jet Cool / Jet Heat (Power Wind)	O / X
Air Purifying	Comfort Air	O
	Prefilter (Washable / Anti-Bacteria)	O
	Deodorizing Filter	X
	Micro Dust Filter	X
	Allergy Filter	O
Installation	Plasma Air Purifier (Ionizer)	O
	Drain Pump	X
Reliability	Hot Start	X
	Self Diagnosis	O
	De-ice Control (Defrost)	X
	Dry (Dehumidification) Operation	O
	Auto Changeover	X
Convenience	Auto Operation (Artificial Intelligence)	O
	Auto Cleaning (Coil Dry)	O
	Auto Restart Operation	O
	Child Lock ¹	X
	Forced Operation	O
	Group Control ¹	X
	Sleep Mode	7hr
	Timer 24hr (On/Off) / 7hr (Off)	O / X
	Timer (Weekly) ¹	X
	Two Thermistor Control ¹	X
	Low Ambient Operation	X
	Overheating Protection	X
	Low Heating	X
	Voice Control	X
	Outdoor Silent Mode	X
	Mosquito Away	X
	Smart Diagnosis	O
	Indoor Unit Display Type	Number Display
Indoor Unit Display Light	On/Off	
Energy Display	X	
Air Quality Indicator (Dust Sensor)	X	
Energy Saving	Energy Saving	X
	Energy Control	Active Energy Control
	Gen Mode	X
Individual Control	Wired Remote Controller (Premium) ²	X
	Wired Remote Controller (Standard) ²	X
	Wired Remote Controller (Simple with Mode Selection) ²	X
	Wired Remote Controller (Simple without Mode Selection) ²	X
	Handheld Wireless Controller	(See Remote Controller Section) AKB75075801
		Setting Temperature Range (Cooling) 16~30 °C (60~86 °F)
CAC Network Function		Setting Temperature Range (Heating) X
	General Central Controller (Non LGAP)	X
	Network Solution (LGAP)	X
	Dry Contact ²	X
	PDI (Power Distribution Indicator) ²	X
Special Function Kit	Outdoor Unit PI 485 ²	X
	Wi-Fi ²	Embedded
	Water Level Sensor Connection ²	X
	Wind Baffle Kit ²	X
	Sump Heater	X
	Sheath Heater ²	X
Others	Crank Case Heater	X
	Smart Inverter Monitoring System (SIMS) ²	X
	Mode Lock	X
	DRED (Demand Response Enabling Device)	X

Note

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- Filters are optional in some specific areas.
- ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
- ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
- The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
- Some specifications may be changed without notifications due to our policy of innovation.

4. Function List

Category	Function	HS-12IPA.ATTGLCP S3-Q12JA2PA.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	5 Steps	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	O	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Pre-filter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	O	
	Allergy Filter	X	
Installation	Plasma Air Purifier (Ionizer)	O	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
	Mosquito Away	X	
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB74955604	
		Setting Temperature Range (Cooling) 16~30 °C (60~86 °F) Setting Temperature Range (Heating)	
CAC Network Function	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
	PDI (Power Distribution Indicator) ²	X	
	Outdoor Unit PI 485 ²	X	
Special Function Kit	Wi-Fi ²	Embedded	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
	Sheath Heater ²	X	
	Crank Case Heater	X	
Others	Smart Inverter Monitoring System (SIMS) ²	X	
	Mode Lock	X	
	DRED (Demand Response Enabling Device)	X	

Note

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- Filters are optional in some specific areas.
- ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
- ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
- The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
- Some specifications may be changed without notifications due to our policy of innovation.

4. Function List

Category	Function	HS-12IPC.ATTGLCP		
		S3-Q12JA2PE.ATTGLCP		
Air Flow	Air Supply Outlet	1		
	Airflow Direction Control (Left & Right)	5 Steps		
	Airflow Direction Control (Up & Down)	6 Steps		
	Auto Swing (Left & Right)	O		
	Auto Swing (Up & Down)	O		
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X		
	Natural Wind (Auto Wind)	O		
	Jet Cool / Jet Heat (Power Wind)	O / X		
Air Purifying	Comfort Air	O		
	Pre-filter (Washable / Anti-Bacteria)	O		
	Deodorizing Filter	X		
	Micro Dust Filter	O		
	Allergy Filter	X		
Installation	Plasma Air Purifier (Ionizer)	O		
	Drain Pump	X		
Reliability	Hot Start	X		
	Self Diagnosis	O		
	De-ice Control (Defrost)	X		
	Dry (Dehumidification) Operation	O		
	Auto Changeover	X		
Convenience	Auto Operation (Artificial Intelligence)	O		
	Auto Cleaning (Coil Dry)	O		
	Auto Restart Operation	O		
	Child Lock ¹	X		
	Forced Operation	O		
	Group Control ¹	X		
	Sleep Mode	7hr		
	Timer 24hr (On/Off) / 7hr (Off)	O / X		
	Timer (Weekly) ¹	X		
	Two Thermistor Control ¹	X		
	Low Ambient Operation	X		
	Overheating Protection	X		
	Low Heating	X		
	Voice Control	X		
	Outdoor Silent Mode	X		
	Mosquito Away	X		
	Smart Diagnosis	O		
	Energy Saving	Indoor Unit Display Type	Number Display	
Indoor Unit Display Light		On/Off		
Energy Display		X		
Air Quality Indicator (Dust Sensor)		X		
Energy Saving		X		
Energy Control		Active Energy Control		
Gen Mode		X		
Individual Control		Wired Remote Controller (Premium) ²	X	
		Wired Remote Controller (Standard) ²	X	
		Wired Remote Controller (Simple with Mode Selection) ²	X	
	Wired Remote Controller (Simple without Mode Selection) ²	X		
	Handheld Wireless Controller	(See Remote Controller Section)		
		AKB74955604		
CAC Network Function	Setting Temperature Range (Cooling)	16~30 °C (60~86 °F)		
	Setting Temperature Range (Heating)	X		
	General Central Controller (Non LGAP)	X		
	Network Solution (LGAP)	X		
	Dry Contact ²	X		
Special Function Kit	PDI (Power Distribution Indicator) ²	X		
	Outdoor Unit PI 485 ²	X		
	Wi-Fi ²	Embedded		
	Water Level Sensor Connection ²	X		
	Wind Baffle Kit ²	X		
	Sump Heater	X		
Others	Sheath Heater ²	X		
	Crank Case Heater	X		
	Smart Inverter Monitoring System (SIMS) ²	X		
	Mode Lock	X		
	DRED (Demand Response Enabling Device)	X		

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4. Function List

Category	Function	HS-181PA.ATTGLCP	
		S3-Q18KL2PA.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	5 Steps	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	O	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Pre-filter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	O	
	Allergy Filter	X	
Installation	Plasma Air Purifier (Ionizer)	O	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB74955604	
		Setting Temperature Range (Cooling) 16~30 °C (60~86 °F) Setting Temperature Range (Heating)	
CAC Network Function	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
	PDI (Power Distribution Indicator) ²	X	
	Outdoor Unit PI 485 ²	X	
Special Function Kit	Wi-Fi ²	Embedded	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
	Sheath Heater ²	X	
	Crank Case Heater	X	
Others	Smart Inverter Monitoring System (SIMS) ²	X	
	Mode Lock	X	
	DRED (Demand Response Enabling Device)	X	

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4. Function List

Category	Function	HS-24IPA.ATTGLCP S3-Q24K22PA.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	5 Steps	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	O	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Prefilter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	O	
	Allergy Filter	X	
Installation	Plasma Air Purifier (Ionizer)	O	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB74955604	
		Setting Temperature Range (Cooling) 16~30 °C (60~86 °F) Setting Temperature Range (Heating)	
CAC Network Function	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
	PDI (Power Distribution Indicator) ²	X	
	Outdoor Unit PI 485 ²	X	
Special Function Kit	Wi-Fi ²	Embedded	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
	Sheath Heater ²	X	
	Crank Case Heater	X	
Others	Smart Inverter Monitoring System (SIMS) ²	X	
	Mode Lock	X	
	DRED (Demand Response Enabling Device)	X	

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4. Function List

Category	Function	HS-09IPA.ATTGLCP S3-Q09JA2PA.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	5 Steps	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	O	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Prefilter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	O	
	Allergy Filter	X	
Installation	Plasma Air Purifier (Ionizer)	O	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB74955604	
		Setting Temperature Range (Cooling) 16~30 °C (60~86 °F) Setting Temperature Range (Heating)	
CAC Network Function	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
	PDI (Power Distribution Indicator) ²	X	
	Outdoor Unit PI 485 ²	X	
Special Function Kit	Wi-Fi ²	Embedded	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
	Sheath Heater ²	X	
	Crank Case Heater	X	
Others	Smart Inverter Monitoring System (SIMS) ²	X	
	Mode Lock	X	
	DRED (Demand Response Enabling Device)	X	

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4. Function List

Category	Function	HS-18ISW.ATTGLCP	
		S3-Q18KL31A.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	Manual	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	X	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Prefilter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	X	
	Allergy Filter	O	
Installation	Plasma Air Purifier (Ionizer)	X	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB75075801 16~30 °C (60~86 °F) Setting Temperature Range (Cooling) Setting Temperature Range (Heating)	
CAC Network Function	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
	PDI (Power Distribution Indicator) ²	X	
Special Function Kit	Outdoor Unit PI 485 ²	X	
	Wi-Fi ²	Embedded	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
	Sheath Heater ²	X	
Others	Crank Case Heater	X	
	Smart Inverter Monitoring System (SIMS) ²	X	
	Mode Lock	X	
	DRED (Demand Response Enabling Device)	X	

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4. Function List

Category	Function	HS-24ISW.ATTGLCP	
		S3-Q24K231A.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	Manual	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	X	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Prefilter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	X	
	Allergy Filter	X	
Installation	Plasma Air Purifier (Ionizer)	X	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB74955604	
		Setting Temperature Range (Cooling) 16~30 °C (60~86 °F) Setting Temperature Range (Heating)	
CAC Network Function	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
	PDI (Power Distribution Indicator) ²	X	
	Outdoor Unit PI 485 ²	X	
Special Function Kit	Wi-Fi ²	X	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
	Sheath Heater ²	X	
	Crank Case Heater	X	
Others	Smart Inverter Monitoring System (SIMS) ²	X	
	Mode Lock	X	
	DRED (Demand Response Enabling Device)	X	

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4. Function List

Category	Function	HS-18ISU.ATTGLCP S3-Q18KL3WG.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	Manual	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	X	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Prefilter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	X	
	Allergy Filter	O	
Installation	Plasma Air Purifier (Ionizer)	X	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB75075801 or AKB74955604 16~30 °C (60~86 °F)	
CAC Network Function	Setting Temperature Range (Cooling)	X	
	Setting Temperature Range (Heating)	X	
	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
Special Function Kit	PDI (Power Distribution Indicator) ²	X	
	Outdoor Unit PI 485 ²	X	
	Wi-Fi ²	X	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
Others	Sheath Heater ²	X	
	Crank Case Heater	X	
	Smart Inverter Monitoring System (SIMS) ²	PSWMOZ3	
	Mode Lock	X	
DRED (Demand Response Enabling Device)	X		

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4. Function List

Category	Function	HS-09ISU.ATTGLCP S3-Q09JA3WG.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	Manual	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	X	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Prefilter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	X	
	Allergy Filter	O	
Installation	Plasma Air Purifier (Ionizer)	X	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB75075801 or AKB74955604	
		Setting Temperature Range (Cooling) 16~30 °C (60~86 °F)	
CAC Network Function	Setting Temperature Range (Heating)	X	
	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
	PDI (Power Distribution Indicator) ²	X	
Special Function Kit	Outdoor Unit PI 485 ²	X	
	Wi-Fi ²	X	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
	Sheath Heater ²	X	
Others	Crank Case Heater	X	
	Smart Inverter Monitoring System (SIMS) ²	PSWMOZ3	
	Mode Lock	X	
	DRED (Demand Response Enabling Device)	X	

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4. Function List

Category	Function	HS-12ISU.ATTGLCP S3-Q12JA3WG.ATTGLCP	
Air Flow	Air Supply Outlet	1	
	Airflow Direction Control (Left & Right)	Manual	
	Airflow Direction Control (Up & Down)	6 Steps	
	Auto Swing (Left & Right)	X	
	Auto Swing (Up & Down)	O	
	Fan Speed Steps (Fan / Cool / Heat)	6 / 6 / X	
	Natural Wind (Auto Wind)	O	
	Jet Cool / Jet Heat (Power Wind)	O / X	
Air Purifying	Comfort Air	O	
	Prefilter (Washable / Anti-Bacteria)	O	
	Deodorizing Filter	X	
	Micro Dust Filter	X	
	Allergy Filter	O	
Installation	Plasma Air Purifier (Ionizer)	X	
	Drain Pump	X	
Reliability	Hot Start	X	
	Self Diagnosis	O	
	De-ice Control (Defrost)	X	
	Dry (Dehumidification) Operation	O	
Convenience	Dry (Dehumidification) Operation	O	
	Auto Changeover	X	
	Auto Operation (Artificial Intelligence)	O	
	Auto Cleaning (Coil Dry)	O	
	Auto Restart Operation	O	
	Child Lock ¹	X	
	Forced Operation	O	
	Group Control ¹	X	
	Sleep Mode	7hr	
	Timer 24hr (On/Off) / 7hr (Off)	O / X	
	Timer (Weekly) ¹	X	
	Two Thermistor Control ¹	X	
	Low Ambient Operation	X	
	Overheating Protection	X	
	Low Heating	X	
	Voice Control	X	
	Outdoor Silent Mode	X	
Mosquito Away	X		
Smart Diagnosis	O		
Energy Saving	Indoor Unit Display Type	Number Display	
	Indoor Unit Display Light	On/Off	
	Energy Display	X	
	Air Quality Indicator (Dust Sensor)	X	
	Energy Saving	X	
	Energy Control	Active Energy Control	
	Gen Mode	X	
	Individual Control	Wired Remote Controller (Premium) ²	X
		Wired Remote Controller (Standard) ²	X
		Wired Remote Controller (Simple with Mode Selection) ²	X
Wired Remote Controller (Simple without Mode Selection) ²		X	
Handheld Wireless Controller		(See Remote Controller Section) AKB75075801 or AKB74955604 16~30 °C (60~86 °F)	
CAC Network Function	Setting Temperature Range (Cooling)	X	
	Setting Temperature Range (Heating)	X	
	General Central Controller (Non LGAP)	X	
	Network Solution (LGAP)	X	
	Dry Contact ²	X	
Special Function Kit	PDI (Power Distribution Indicator) ²	X	
	Outdoor Unit PI 485 ²	X	
	Wi-Fi ²	X	
	Water Level Sensor Connection ²	X	
	Wind Baffle Kit ²	X	
	Sump Heater	X	
Others	Sheath Heater ²	X	
	Crank Case Heater	X	
	Smart Inverter Monitoring System (SIMS) ²	PSWMOZ3	
	Mode Lock	X	
DRED (Demand Response Enabling Device)	X		

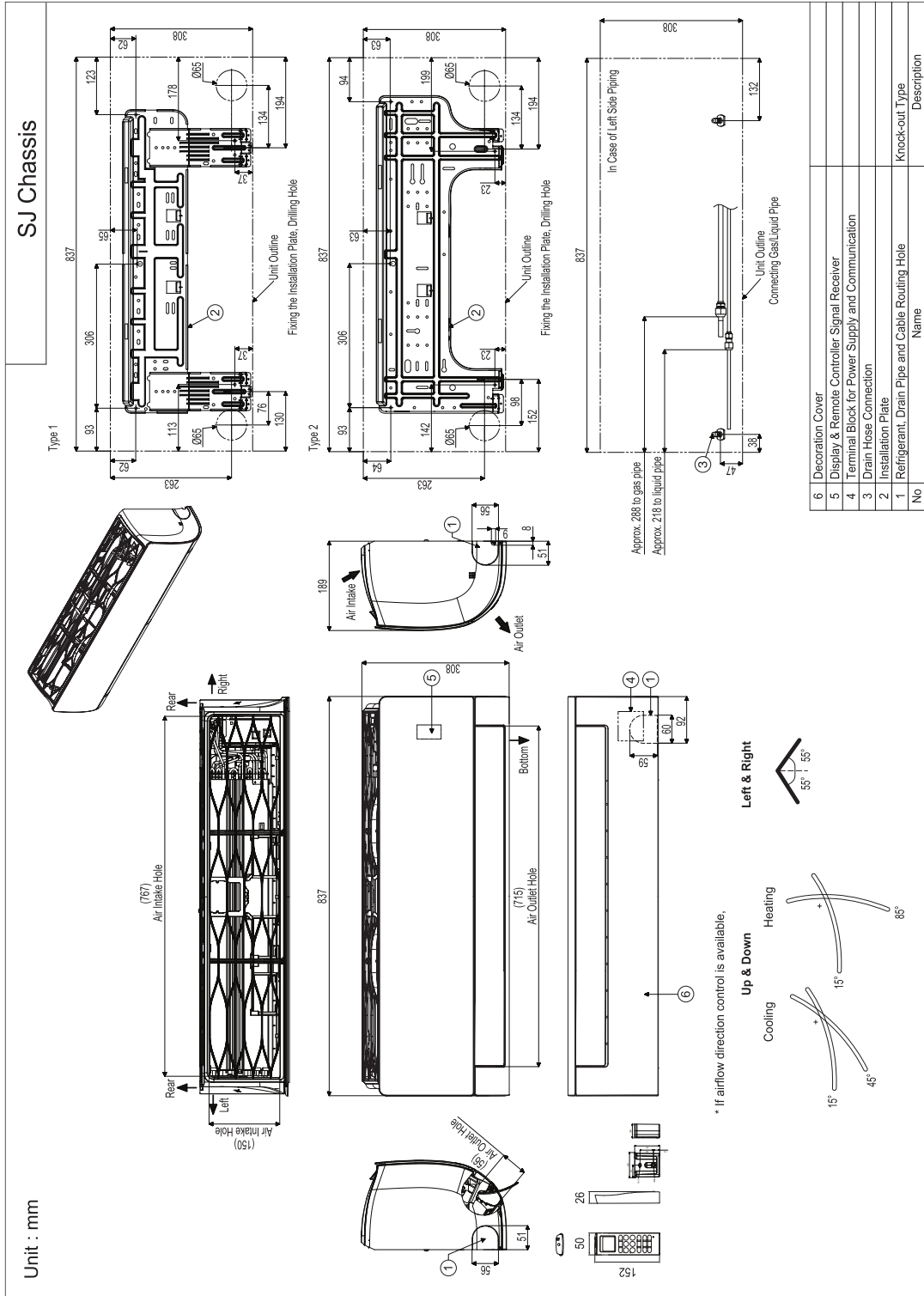
Note

- O : Applied, X : Not applied
- Filters are optional in some specific areas.
- ¹ : This function can be operated only when the wired remote controller is connected. The applicability of each function depends on the above table.
- ² : Optional accessories must be purchased separately. If shown as "Embedded", this function is included in product.
- The function Wi-Fi is only compatible with 2.4 GHz band. (802.11 b/g/n)
- Some specifications may be changed without notifications due to our policy of innovation.

5. Dimensional Drawings

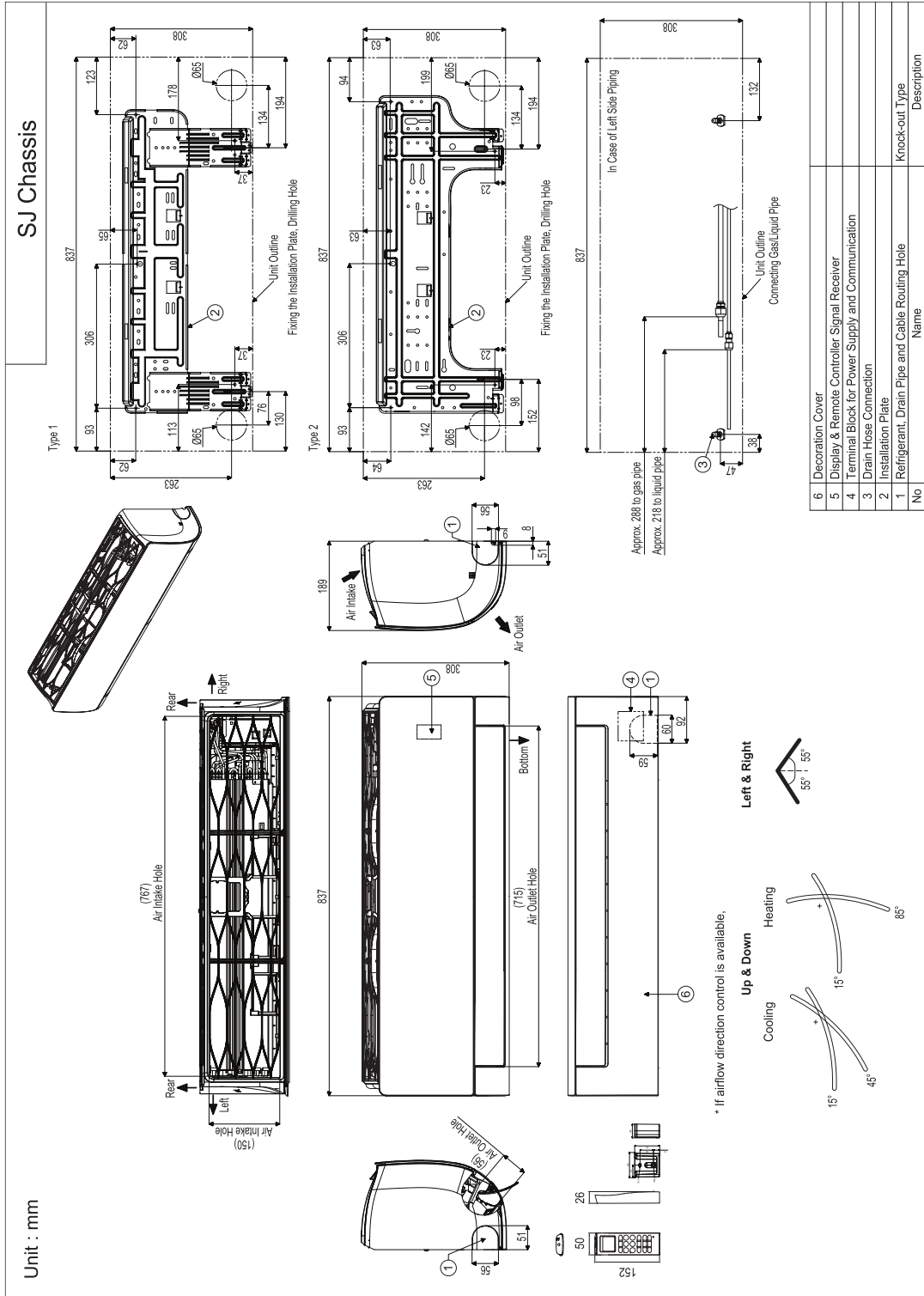
5.1 Indoor Unit

HSN09APC.ATTGLCP (S3NQ09JA1YB.ATTGLCP)



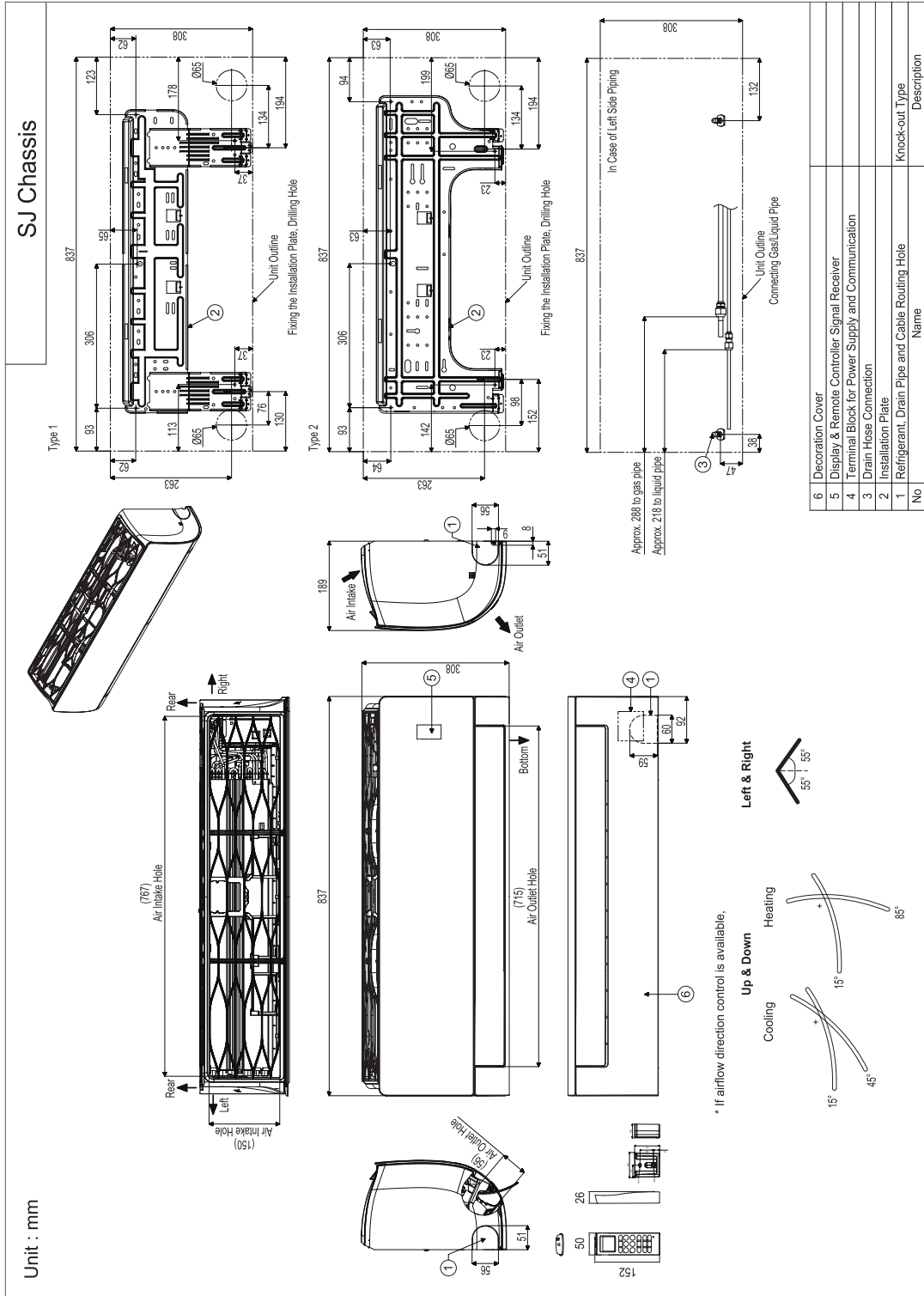
5. Dimensional Drawings

HSN09IPC.ATTGLCP (S3NQ09JA2PB.ATTGLCP)



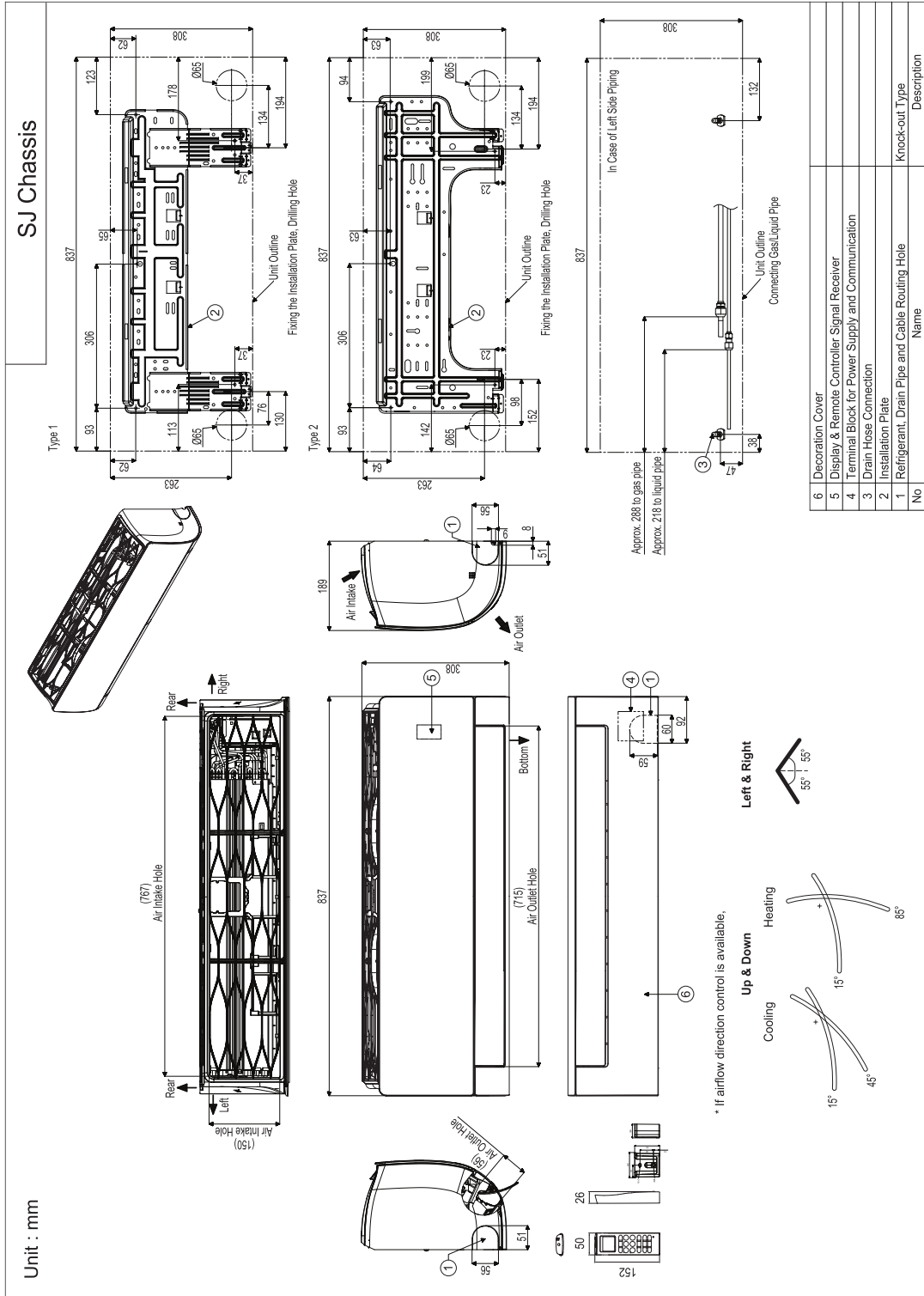
5. Dimensional Drawings

HSN12IPA.ATTGLCP (S3NQ12JA2PA.ATTGLCP)



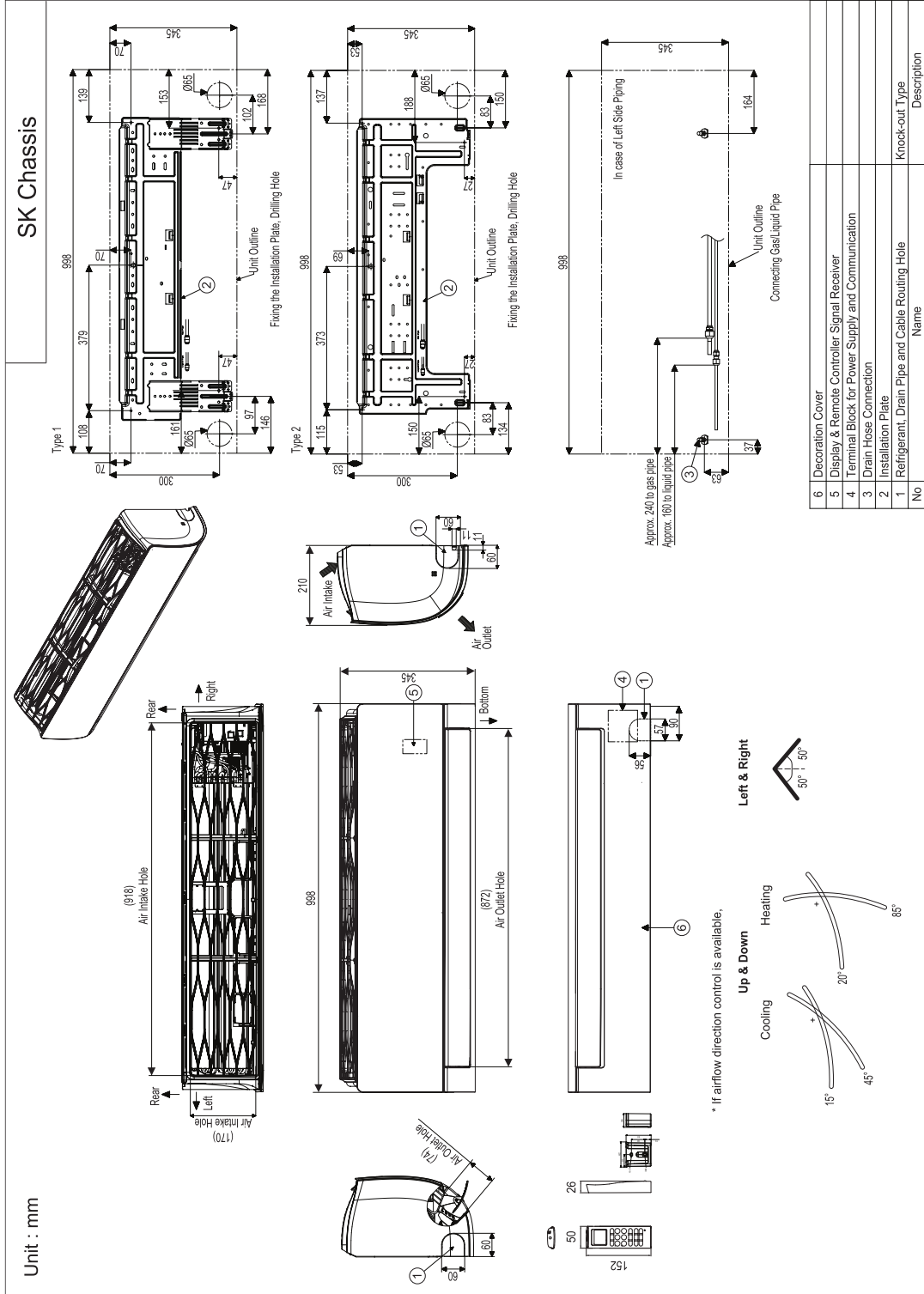
5. Dimensional Drawings

HSN12IPC.ATTGLCP (S3NQ12JA2PE.ATTGLCP)



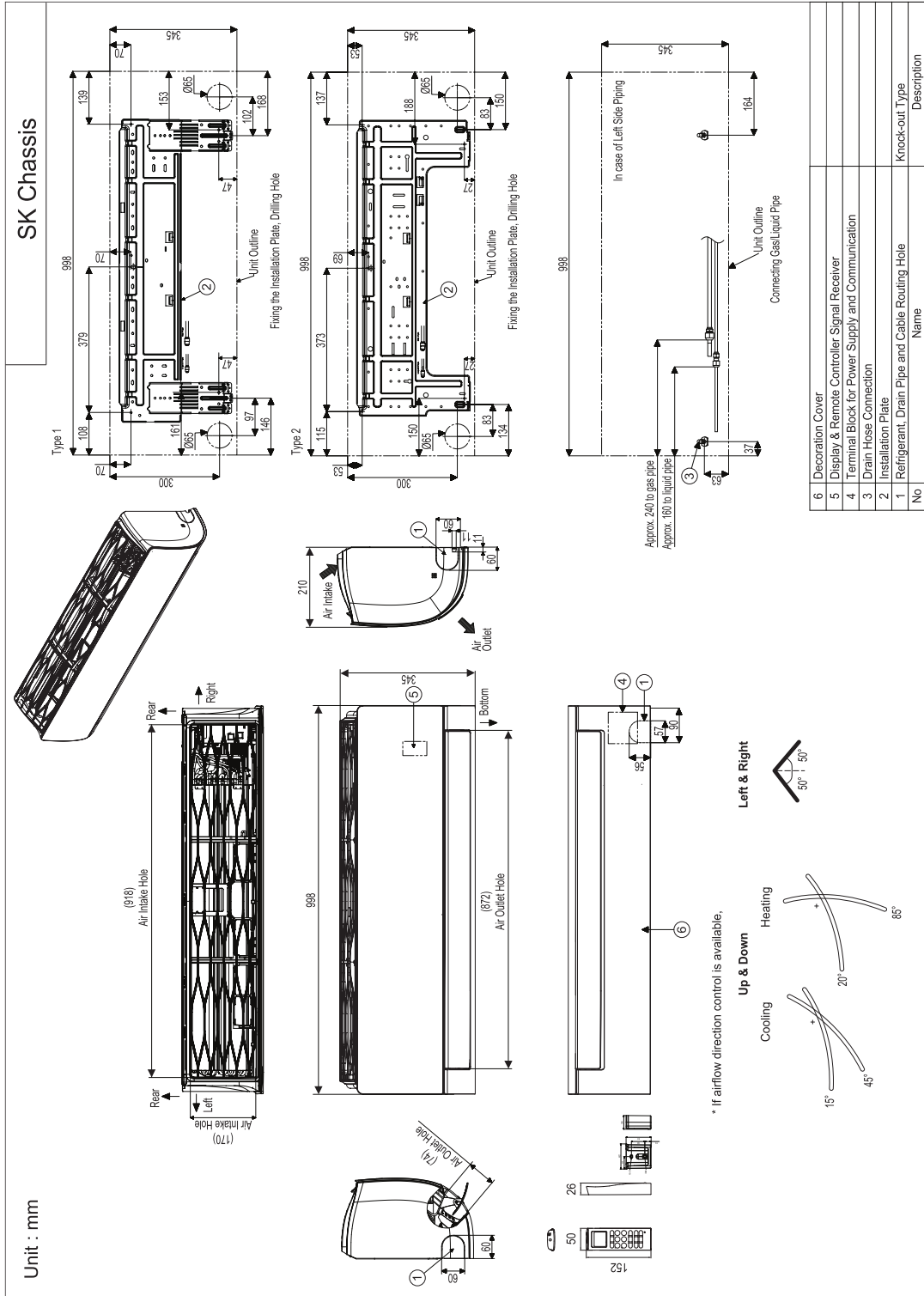
5. Dimensional Drawings

HSN18IPA.ATTGLCP (S3NQ18KL2PA.ATTGLCP)



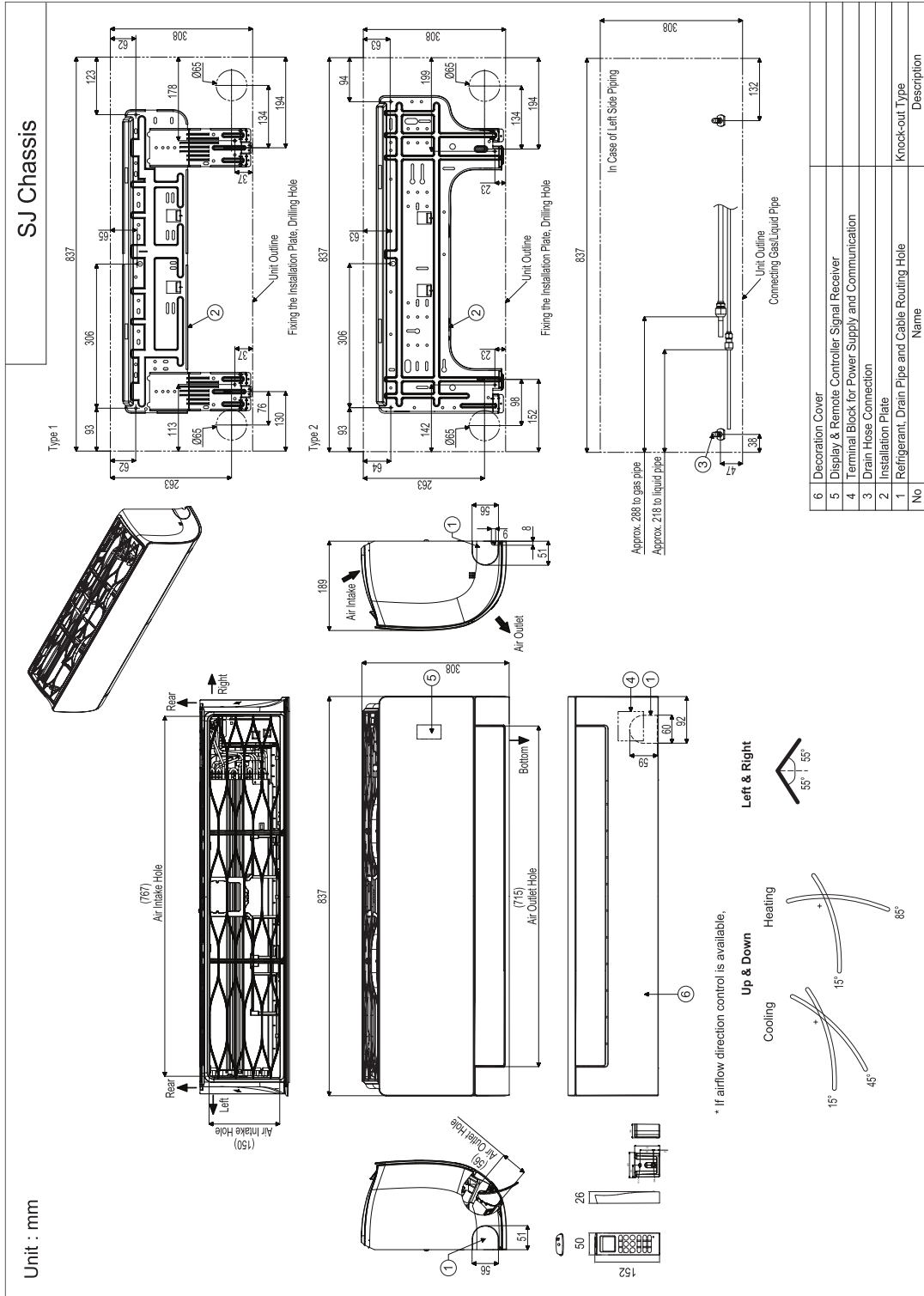
5. Dimensional Drawings

HSN24IPA.ATTGLCP (S3NQ24K22PA.ATTGLCP)



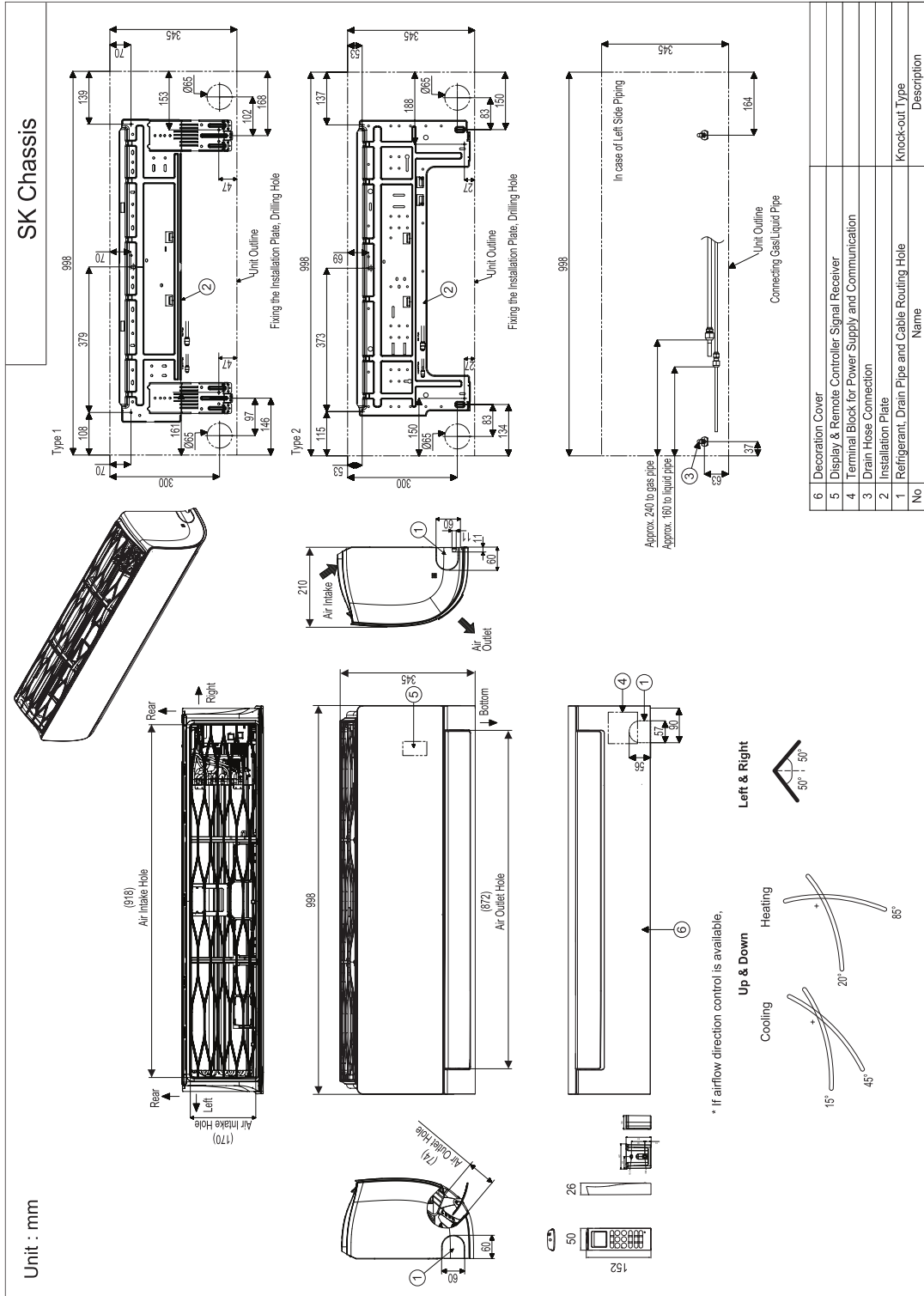
5. Dimensional Drawings

HSN09IPA.ATTGLCP (S3NQ09JA2PA.ATTGLCP)



5. Dimensional Drawings

HSN18ISW.ATTGLCP (S3NQ18KL31A.ATTGLCP)



5. Dimensional Drawings

HSN24ISW.ATTGLCP (S3NQ24K231A.ATTGLCP)

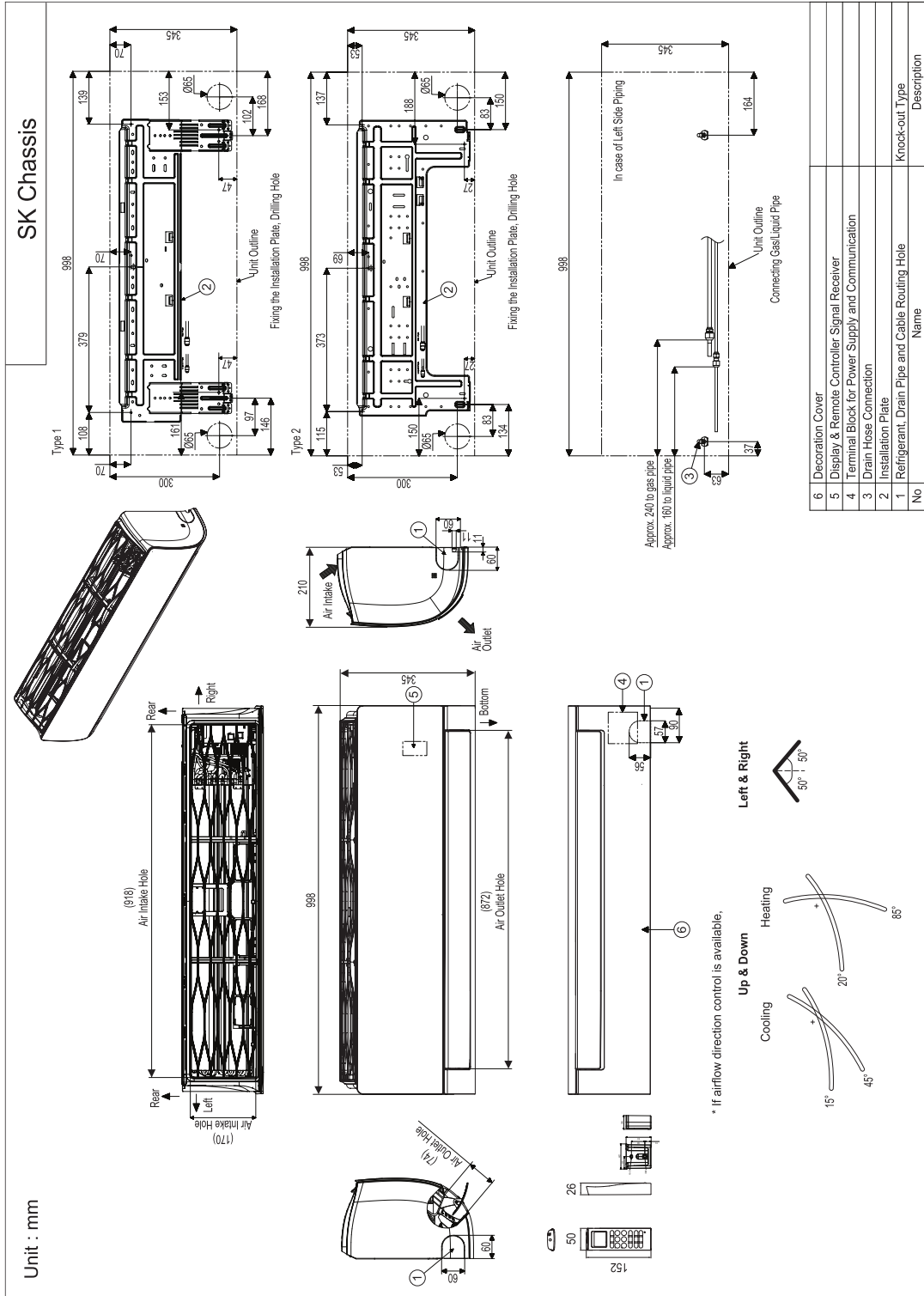
SK Chassis

Unit : mm

No	Name	Description
6	Decoration Cover	
5	Display & Remote Controller Signal Receiver	
4	Terminal Block for Power Supply and Communication	
3	Drain Hose Connection	
2	Installation Plate	
1	Refrigerant, Drain Pipe and Cable Routing Hole	Knock-out Type

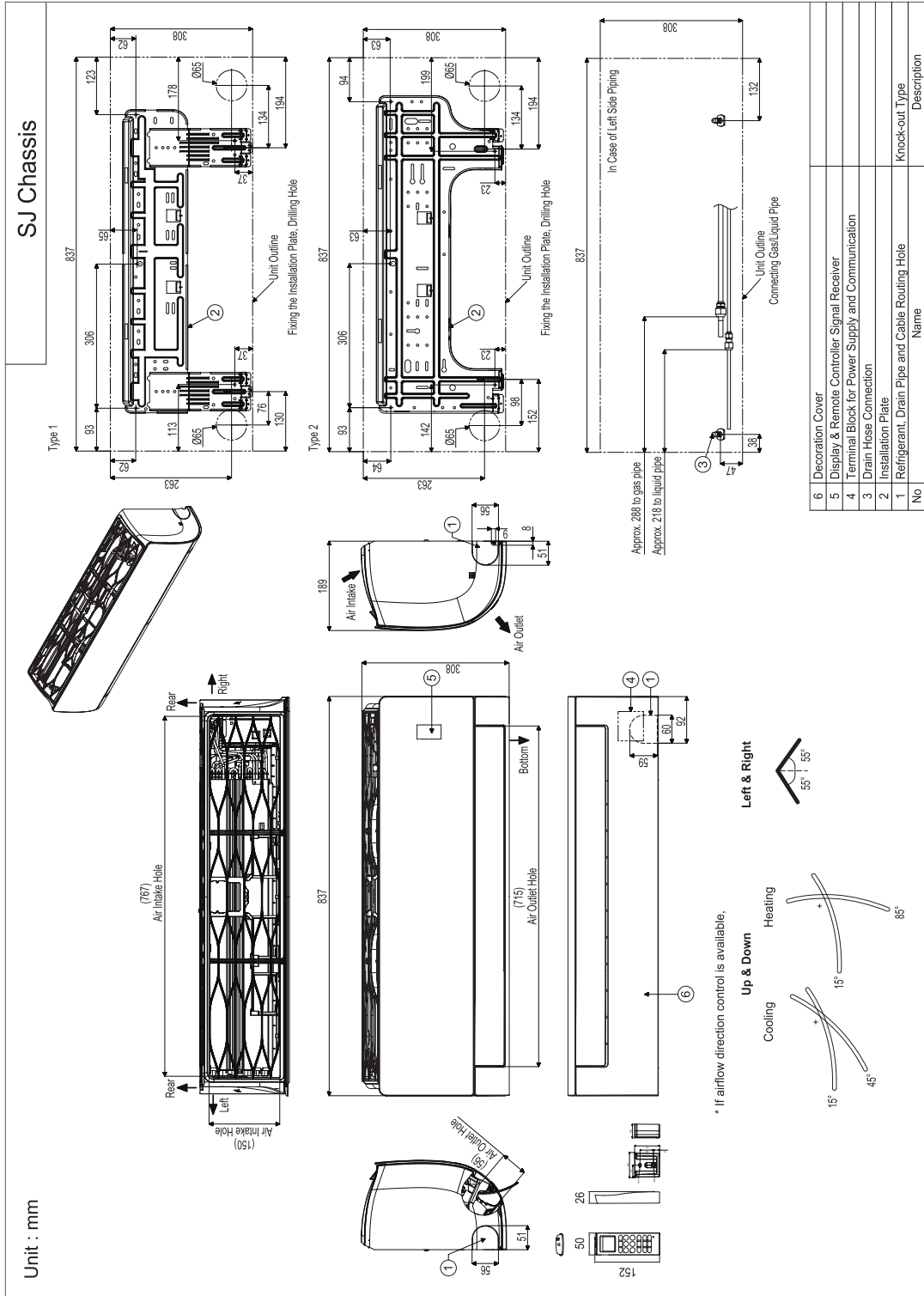
5. Dimensional Drawings

HSN18ISU.ATTGLCP (S3NQ18KL3WG.ATTGLCP)



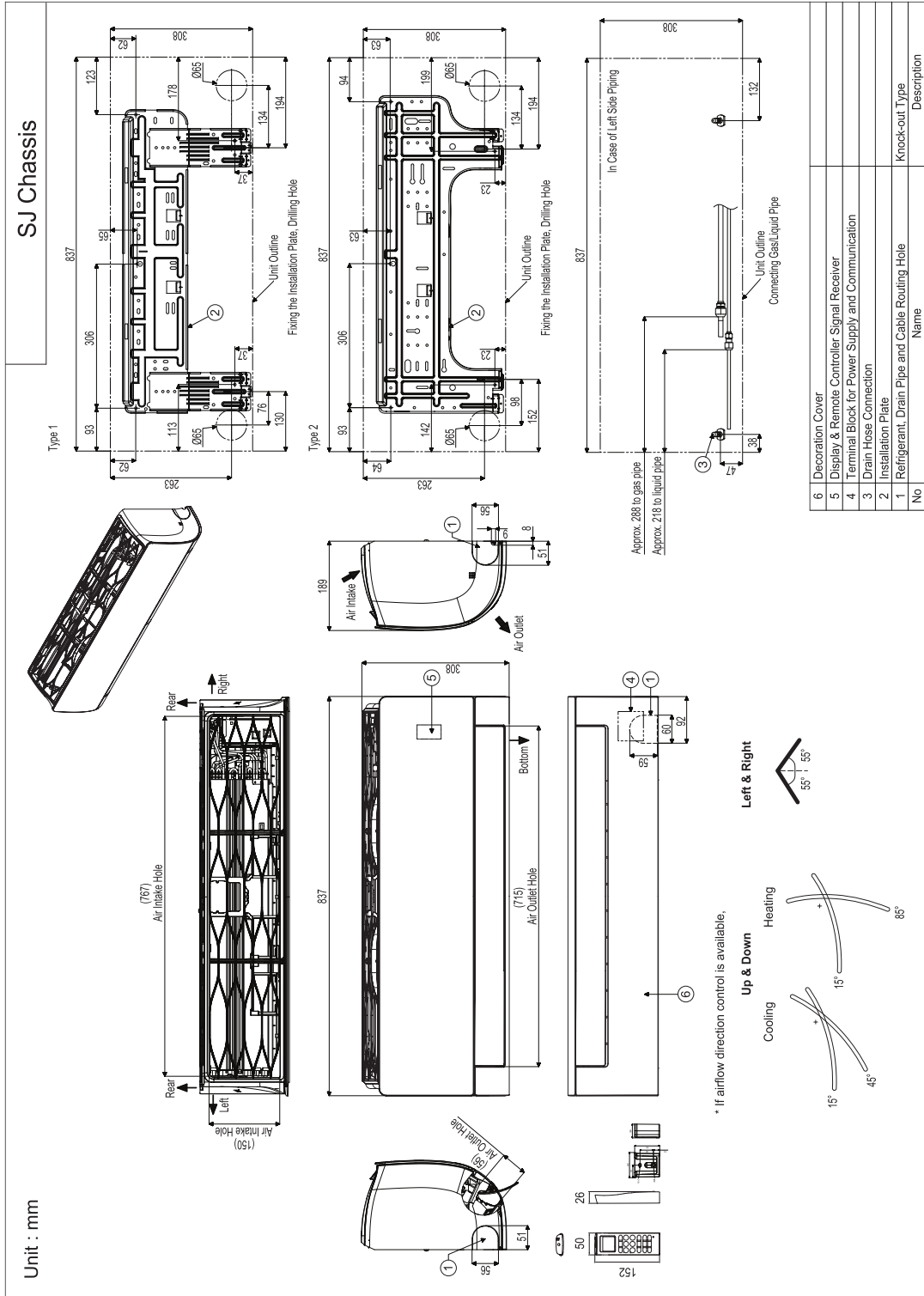
5. Dimensional Drawings

HSN09ISU.ATTGLCP (S3NQ09JA3WG.ATTGLCP)



5. Dimensional Drawings

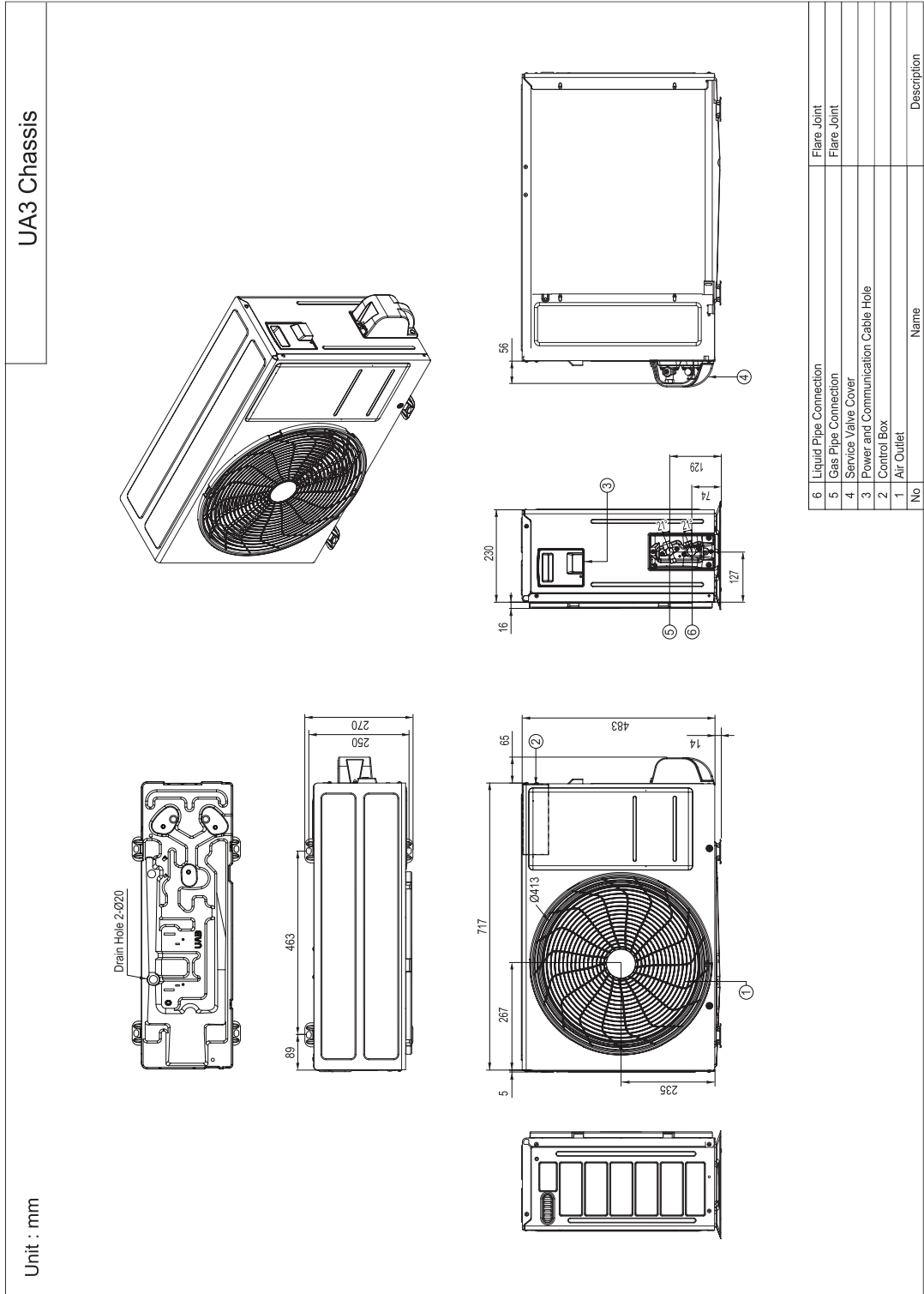
HSN12ISU.ATTGLCP (S3NQ12JA3WG.ATTGLCP)



5. Dimensional Drawings

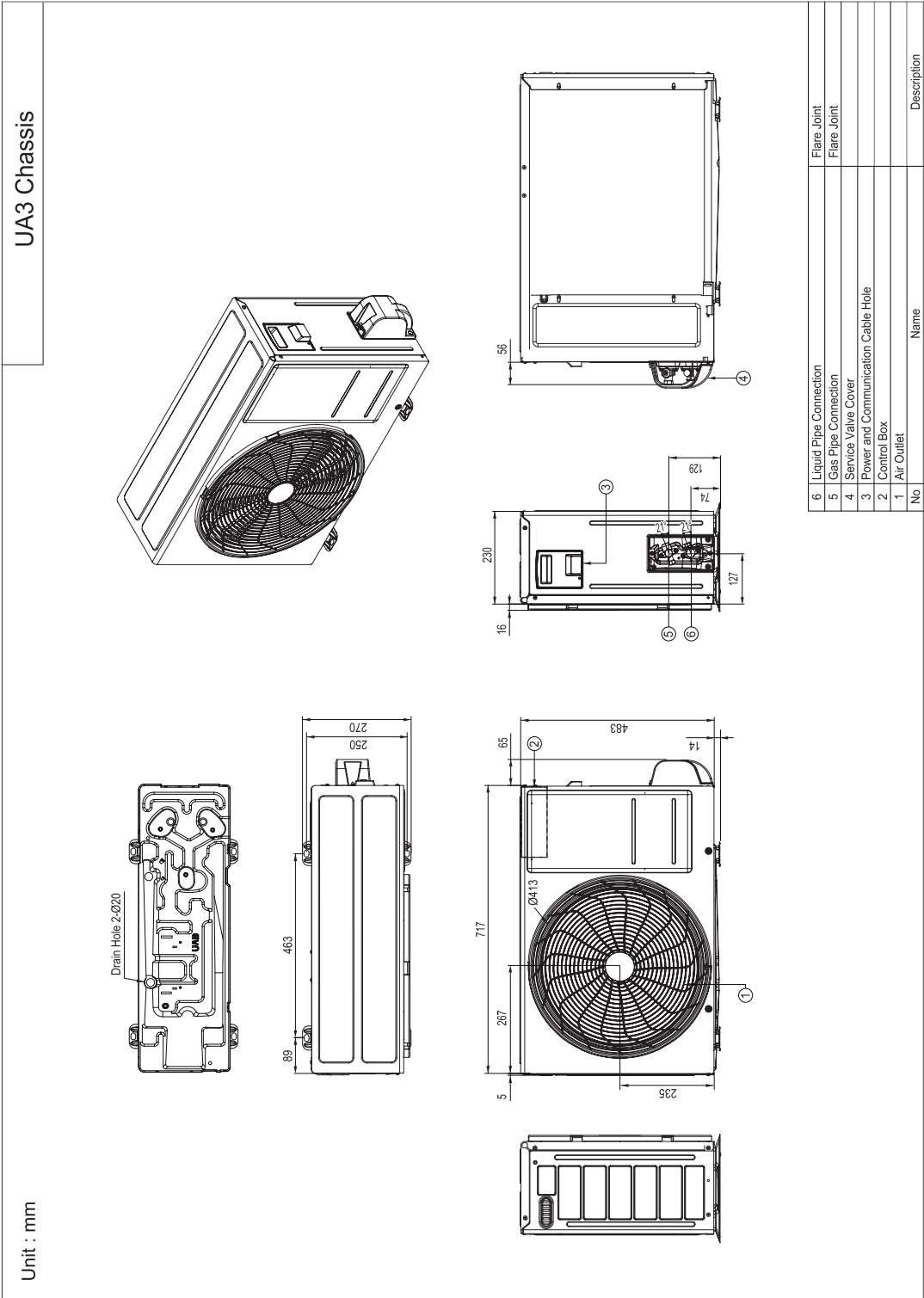
5.2 Outdoor Unit

HSU09APC.ATTGLCP (S3UQ09JA1YB.ATTGLCP)



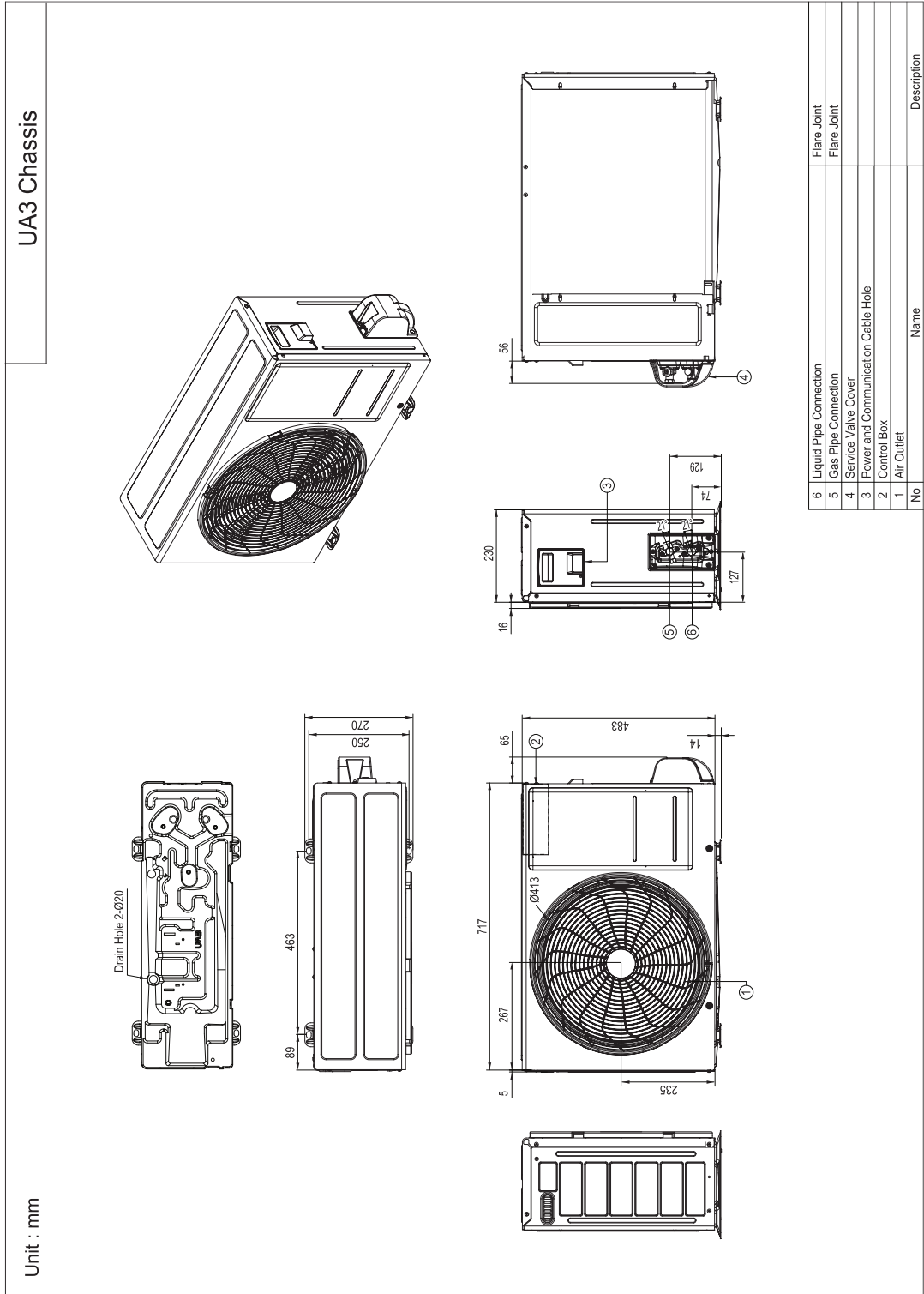
5. Dimensional Drawings

HSU09IPC.ATTGLCP (S3UQ09JA2PB.ATTGLCP)



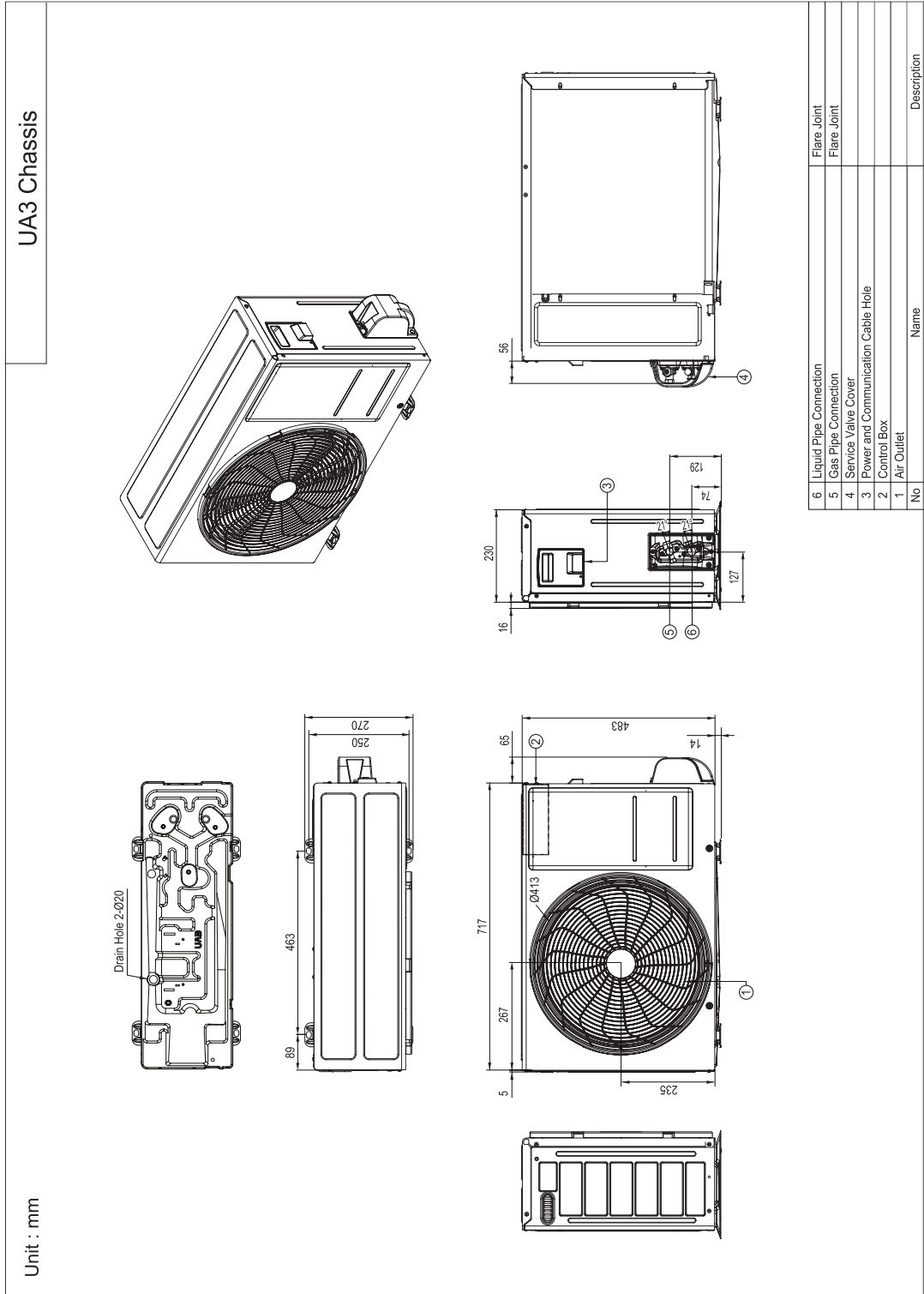
5. Dimensional Drawings

HSU12IPA.ATTGLCP (S3UQ12JA2PA.ATTGLCP)



5. Dimensional Drawings

HSU12IPC.ATTGLCP (S3UQ12JA2PE.ATTGLCP)

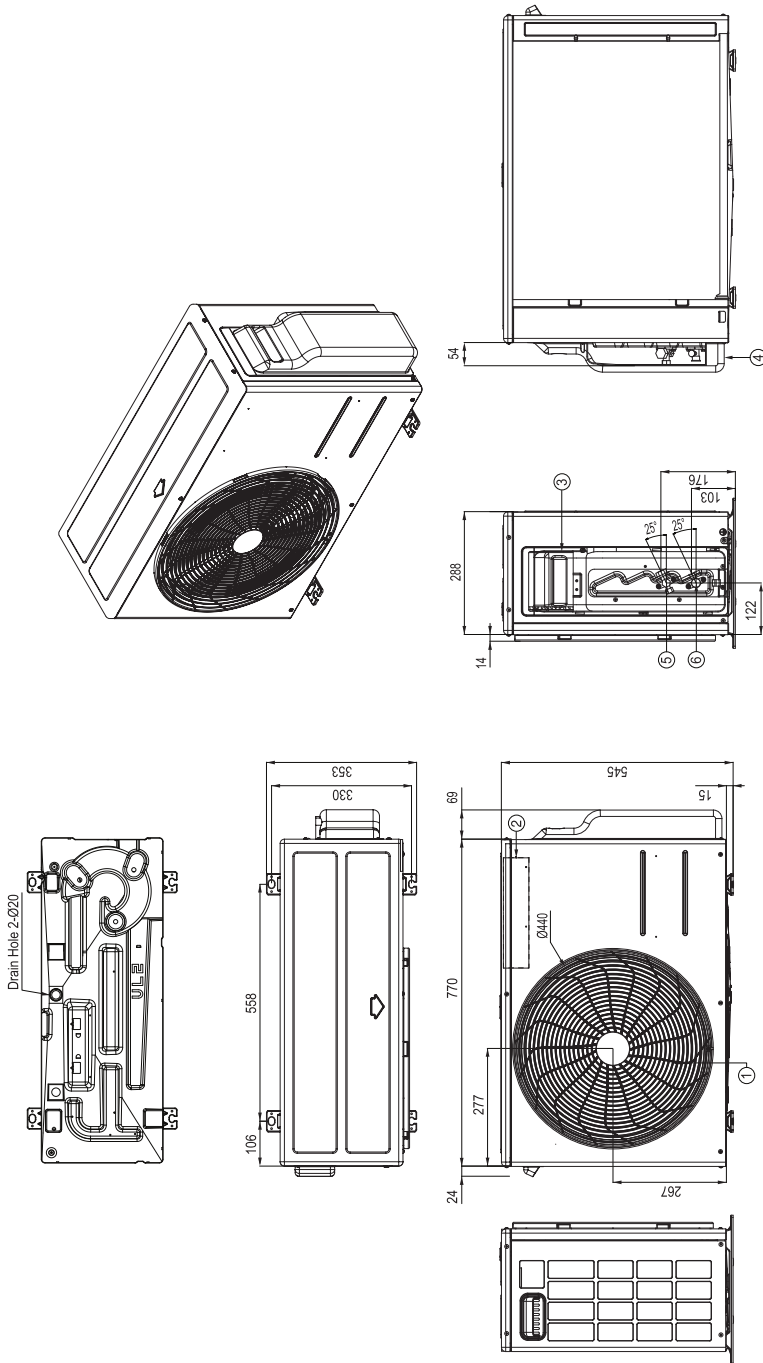


5. Dimensional Drawings

HSU18IPA.ATTGLCP (S3UQ18KL2PA.ATTGLCP)

UL2 Chassis

Unit : mm



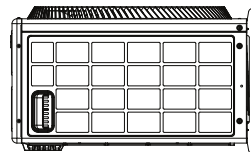
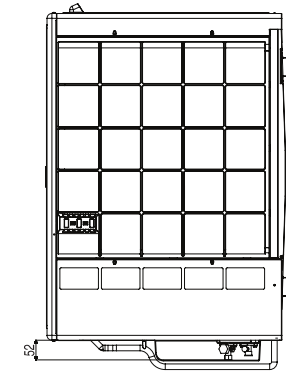
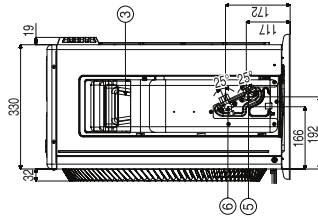
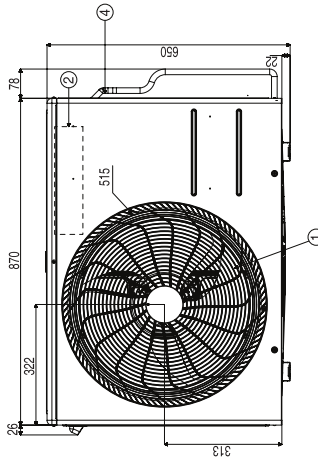
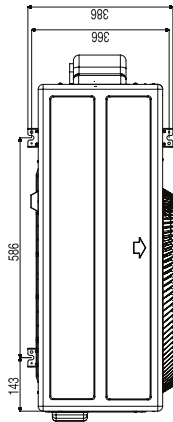
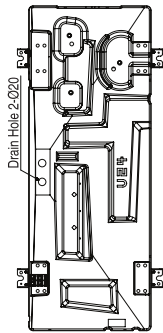
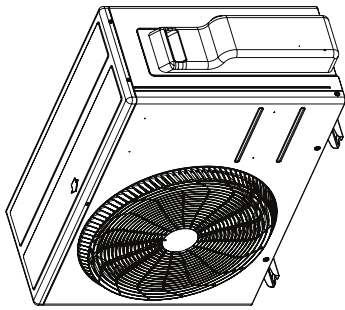
No	Name	Description
6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	

5. Dimensional Drawings

HSU24IPA.ATTGLCP (S3UQ24K22PA.ATTGLCP)

U24A Chassis

Unit : mm



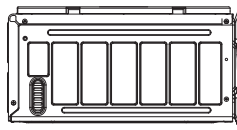
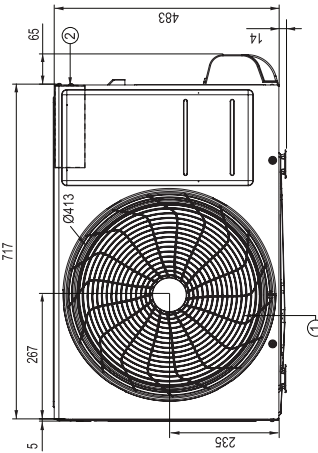
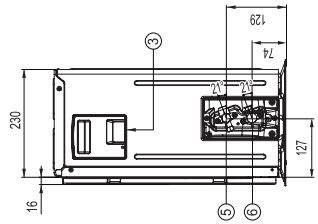
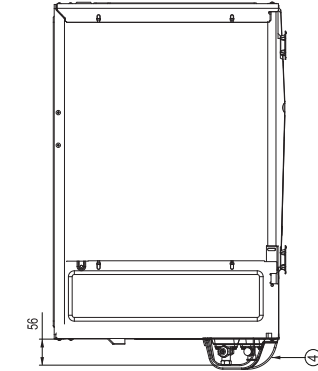
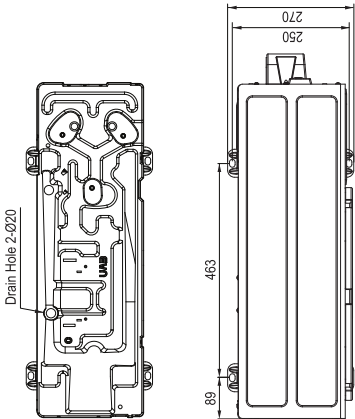
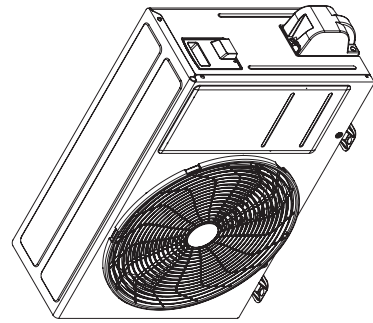
No	Name	Description
6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	

5. Dimensional Drawings

HSU09IPA.ATTGLCP (S3UQ09JA2PA.ATTGLCP)

UA3 Chassis

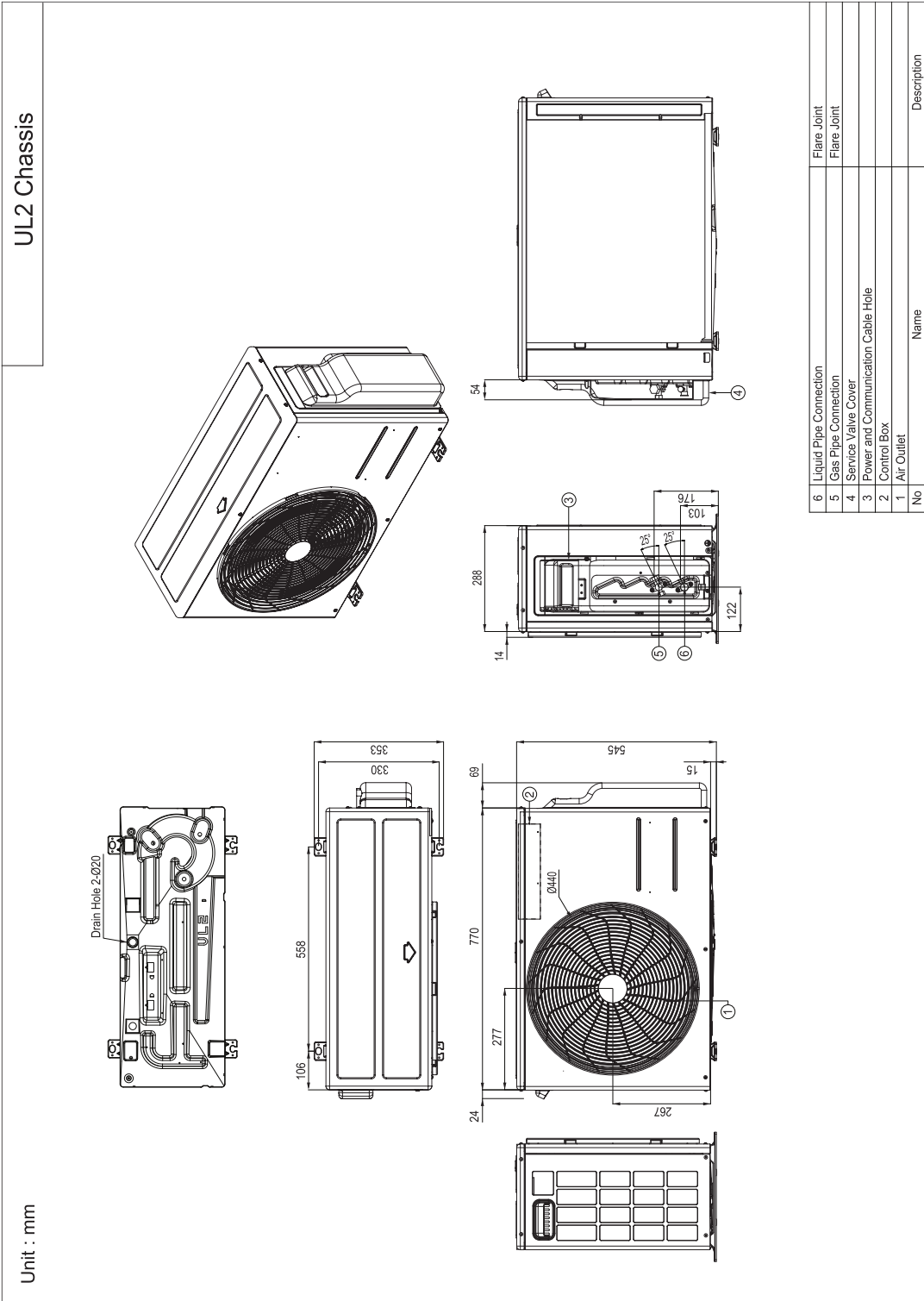
Unit : mm



No	Name	Description
6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	

5. Dimensional Drawings

HSU18ISW.ATTGLCP (S3UQ18KL31A.ATTGLCP)

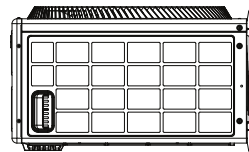
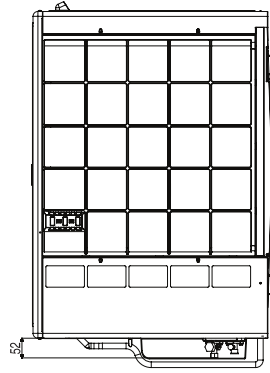
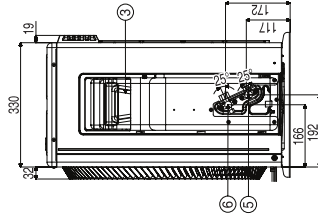
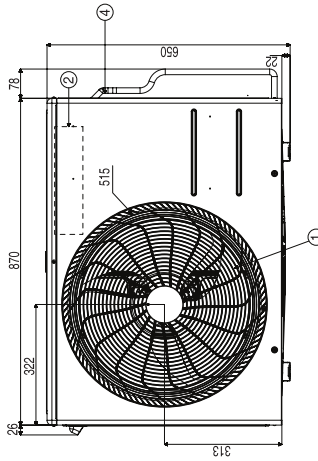
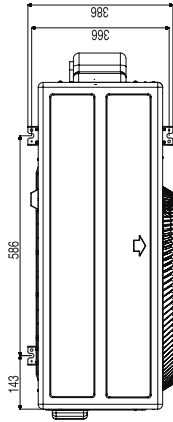
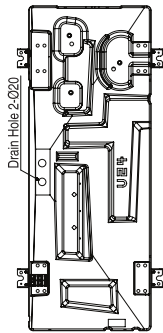
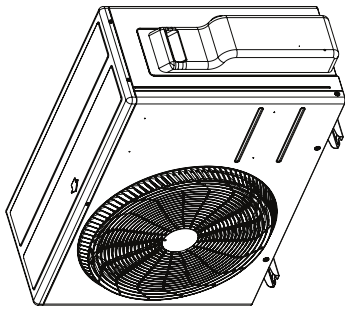


5. Dimensional Drawings

HSU24ISW.ATTGLCP (S3UQ24K231A.ATTGLCP)

U24A Chassis

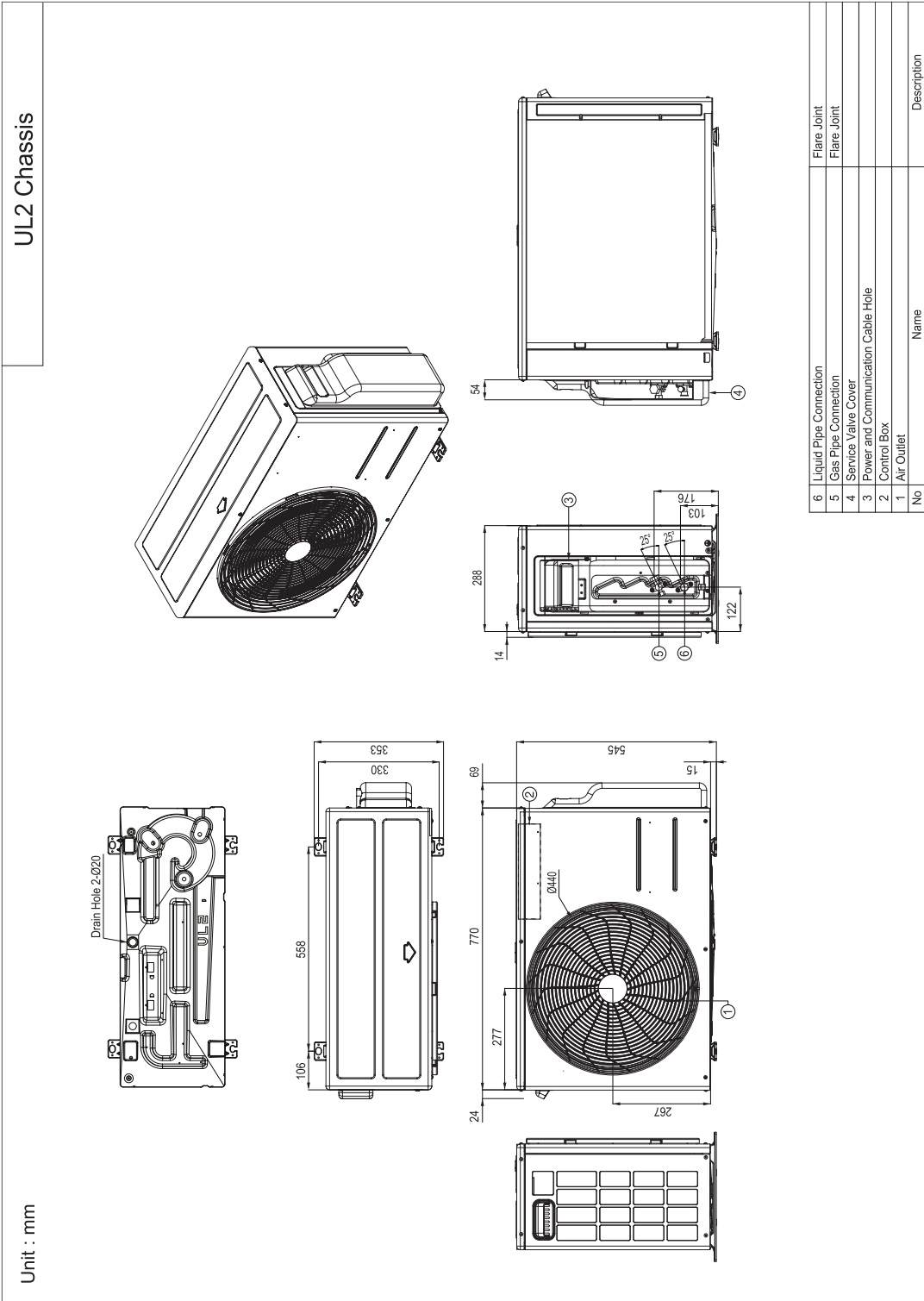
Unit : mm



No	Name	Description
6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	

5. Dimensional Drawings

HSU18ISU.ATTGLCP (S3UQ18KL3WG.ATTGLCP)

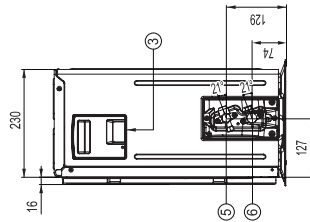
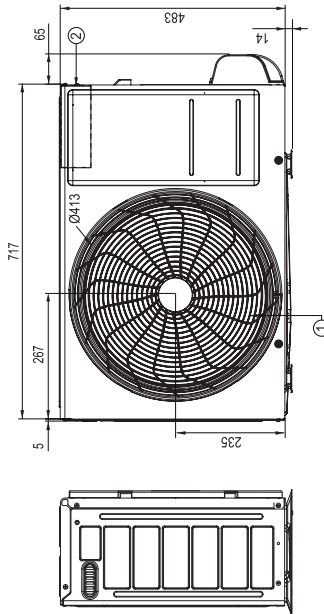
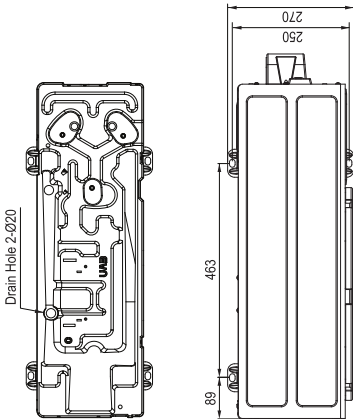
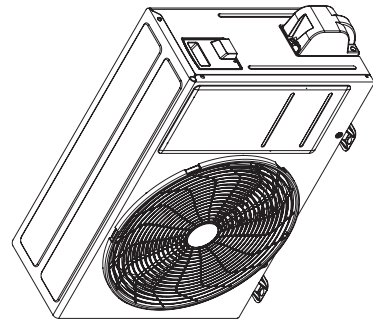


5. Dimensional Drawings

HSU09ISU.ATTGLCP (S3UQ09JA3WG.ATTGLCP)

UA3 Chassis

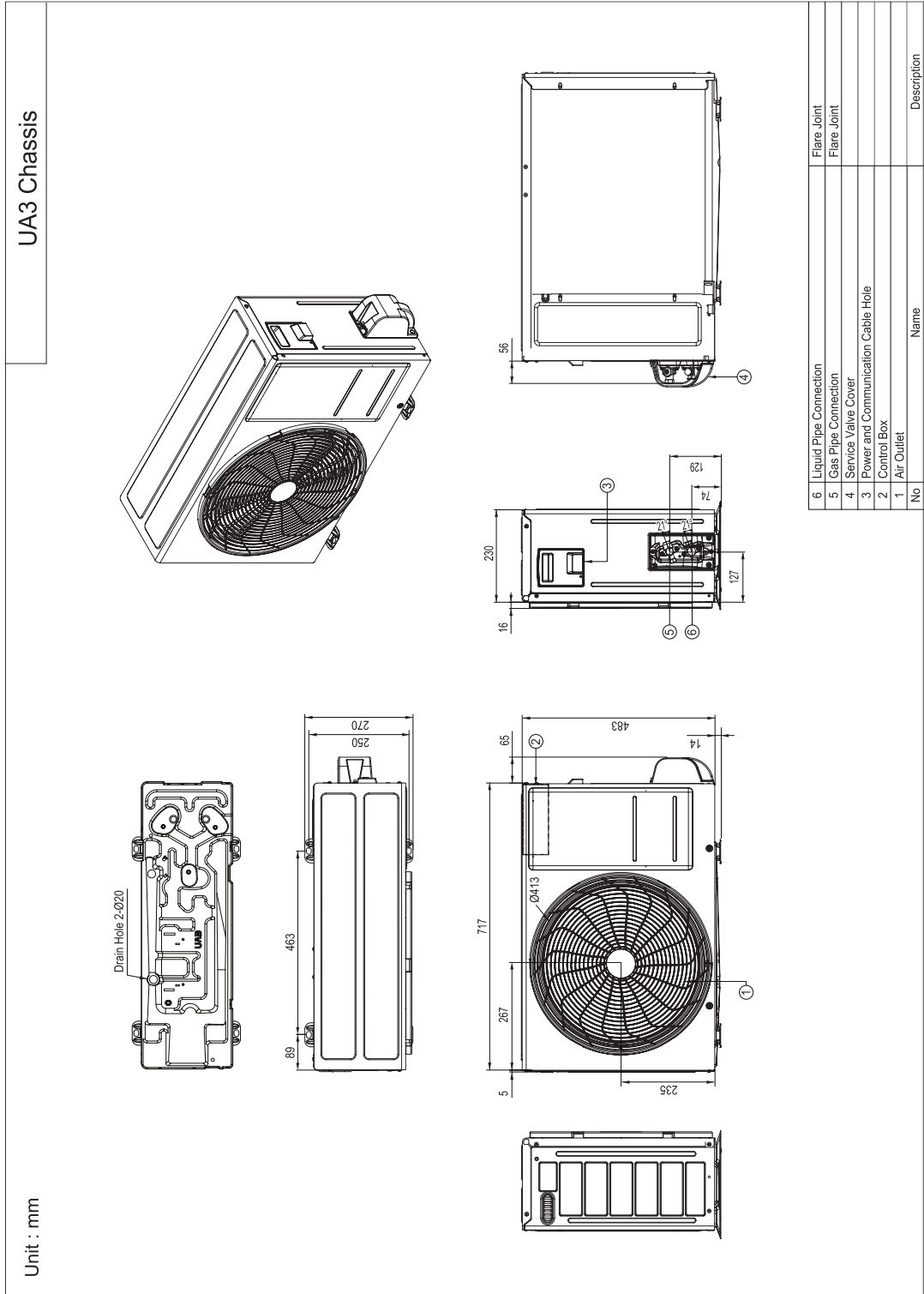
Unit : mm



No	Name	Description
6	Liquid Pipe Connection	Flare Joint
5	Gas Pipe Connection	Flare Joint
4	Service Valve Cover	
3	Power and Communication Cable Hole	
2	Control Box	
1	Air Outlet	

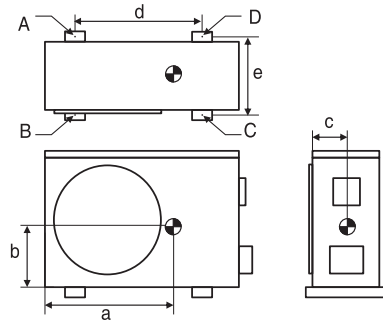
5. Dimensional Drawings

HSU12ISU.ATTGLCP (S3UQ12JA3WG.ATTGLCP)



5. Dimensional Drawings

5.3 Corner Weight and Center of Gravity Dimension for Outdoor Unit



Model	Tool	Weight (kg)		Center of Gravity (mm)			Leg (mm)		Corner Weight (kg)			
		Shipping	Net	a	b	c	d	e	A	B	C	D
HSU09APC.ATTGLCP	UA3	24.4	22.7	475	219	113	463	256	1.7	2.1	9.7	9.2
HSU09IPC.ATTGLCP	UA3	24.4	22.7	475	219	113	463	256	1.7	2.1	9.7	9.2
HSU12IPA.ATTGLCP	UA3	24.7	23.0	475	219	113	463	256	1.7	2.1	9.8	9.4
HSU12IPC.ATTGLCP	UA3	24.7	23.0	475	219	113	463	256	1.7	2.1	9.8	9.4
HSU18IPA.ATTGLCP	UL2	34.8	32.5	507	237	143	558	330	4.5	4.6	11.8	11.6
HSU24IPA.ATTGLCP	U24A	45.9	42.5	565	260	150	586	366	5.0	6.9	16.2	14.4
HSU09IPA.ATTGLCP	UA3	23.5	21.7	475	219	113	463	256	1.6	2.0	9.3	8.8
HSU18ISW.ATTGLCP	UL2	36.5	32.5	507	237	143	558	330	4.5	4.6	11.8	11.6
HSU24ISW.ATTGLCP	U24A	48.4	42.5	565	260	150	586	366	5.0	6.9	16.2	14.4
HSU18ISU.ATTGLCP	UL2	32.8	30.7	507	237	143	558	330	4.2	4.4	11.1	10.9
HSU09ISU.ATTGLCP	UA3	23.5	21.7	475	219	113	463	256	1.6	2.0	9.3	8.8
HSU12ISU.ATTGLCP	UA3	24.7	23.0	475	219	113	463	256	1.7	2.1	9.8	9.4

Model	Tool	Weight (lb.)		Center of Gravity (in.)			Leg (in.)		Corner Weight (lb.)			
		Shipping	Net	a	b	c	d	e	A	B	C	D
HSU09APC.ATTGLCP	UA3	53.8	50.0	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.7	4.7	21.3	20.4
HSU09IPC.ATTGLCP	UA3	53.8	50.0	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.7	4.7	21.3	20.4
HSU12IPA.ATTGLCP	UA3	54.5	50.7	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.7	4.7	21.6	20.6
HSU12IPC.ATTGLCP	UA3	54.5	50.7	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.7	4.7	21.6	20.6
HSU18IPA.ATTGLCP	UL2	76.7	71.7	19-31/32	9-11/32	5-5/8	21-31/32	13	9.9	10.3	26.0	25.5
HSU24IPA.ATTGLCP	U24A	101.2	93.7	22-1/4	10-1/4	5-29/32	23-1/16	14-13/32	11.0	15.1	35.8	31.8
HSU09IPA.ATTGLCP	UA3	51.8	47.8	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.5	4.4	20.4	19.5
HSU18ISW.ATTGLCP	UL2	80.5	71.7	19-31/32	9-11/32	5-5/8	21-31/32	13	9.9	10.3	26.0	25.5
HSU24ISW.ATTGLCP	U24A	106.7	93.7	22-1/4	10-1/4	5-29/32	23-1/16	14-13/32	11.0	15.1	35.8	31.8
HSU18ISU.ATTGLCP	UL2	72.3	67.7	19-31/32	9-11/32	5-5/8	21-31/32	13	9.3	9.7	24.5	24.1
HSU09ISU.ATTGLCP	UA3	51.8	47.8	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.5	4.4	20.4	19.5
HSU12ISU.ATTGLCP	UA3	54.5	50.7	18-11/16	8-5/8	4-7/16	18-7/32	10-3/32	3.7	4.7	21.6	20.6

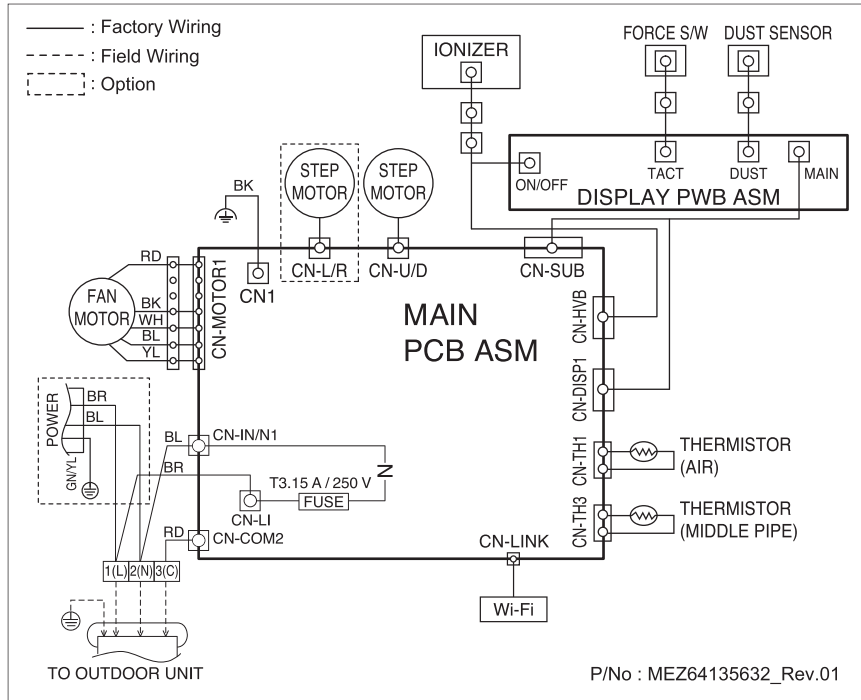
Note

- Design features and information of indoor and outdoor unit may be changed without notifications due to our policy of innovation.
- The center of gravity and corner weight may be different from the actual values because these are simulation results.

6. Wiring Diagrams

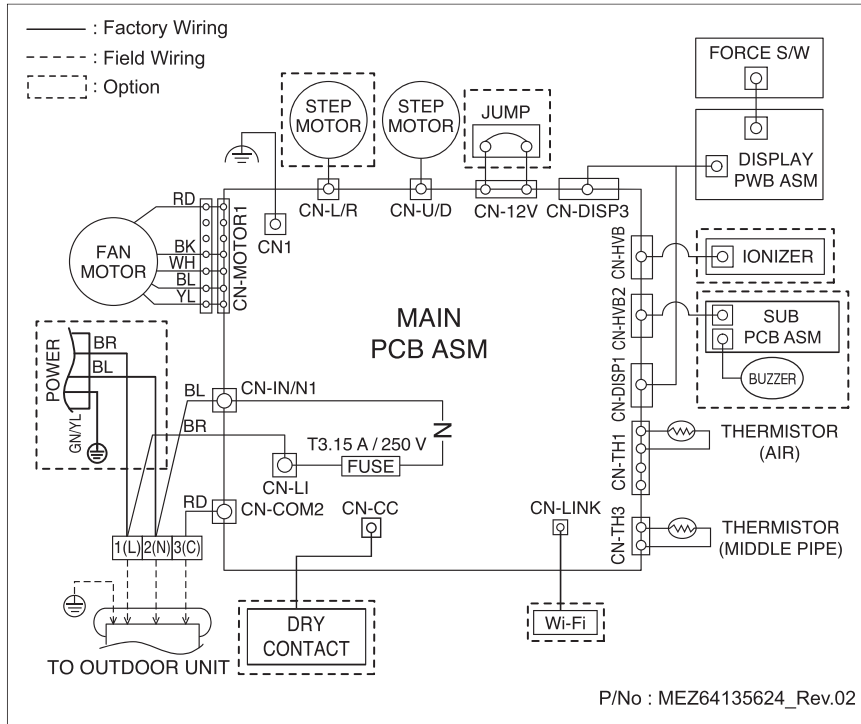
6.1 Indoor Unit

HSN09APC.ATTGLCP (S3NQ09JA1YB.ATTGLCP)



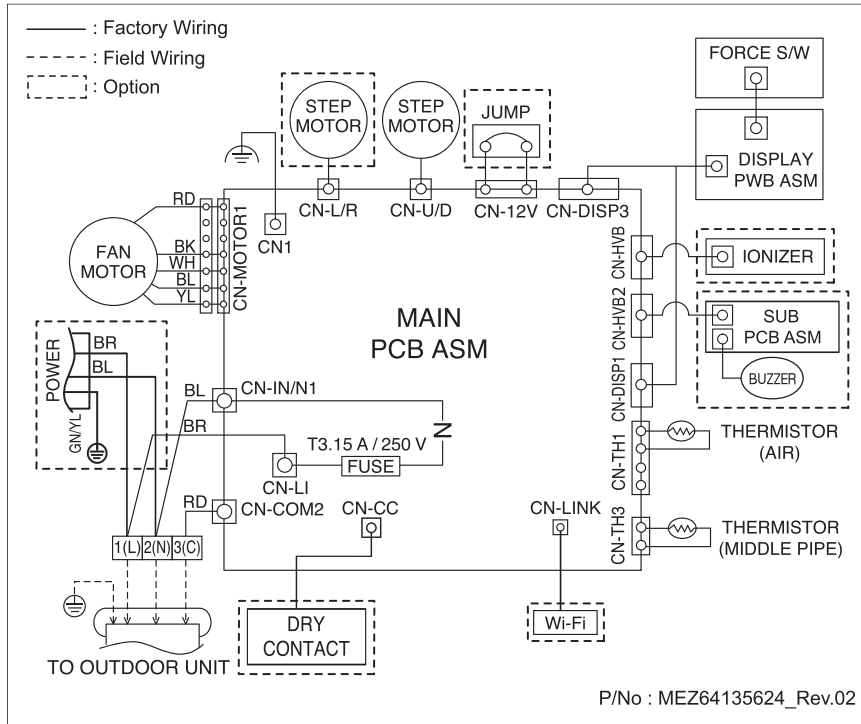
6. Wiring Diagrams

HSN09IPC.ATTGLCP (S3NQ09JA2PB.ATTGLCP)



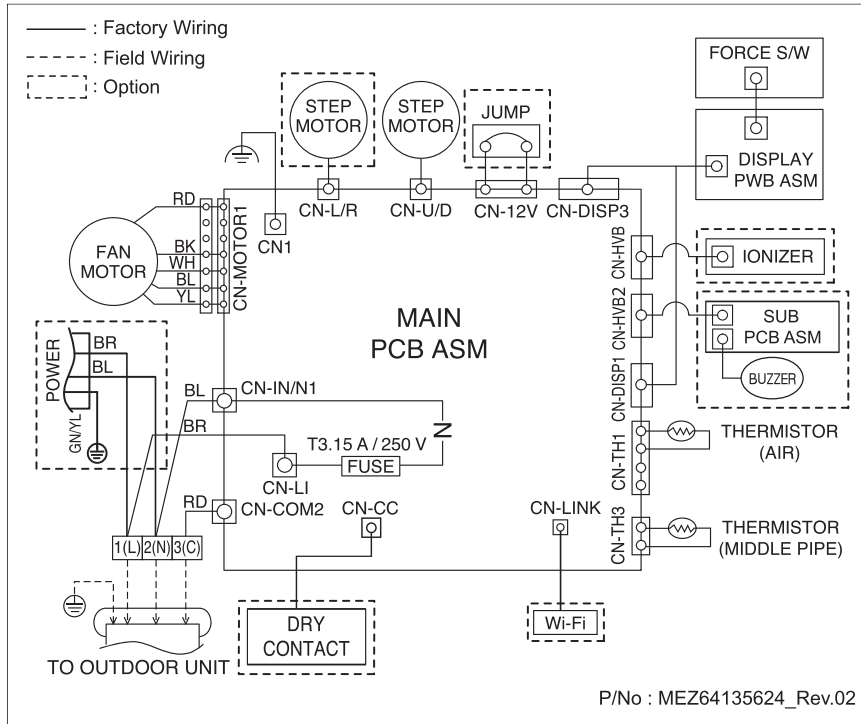
6. Wiring Diagrams

HSN12IPA.ATTGLCP (S3NQ12JA2PA.ATTGLCP)



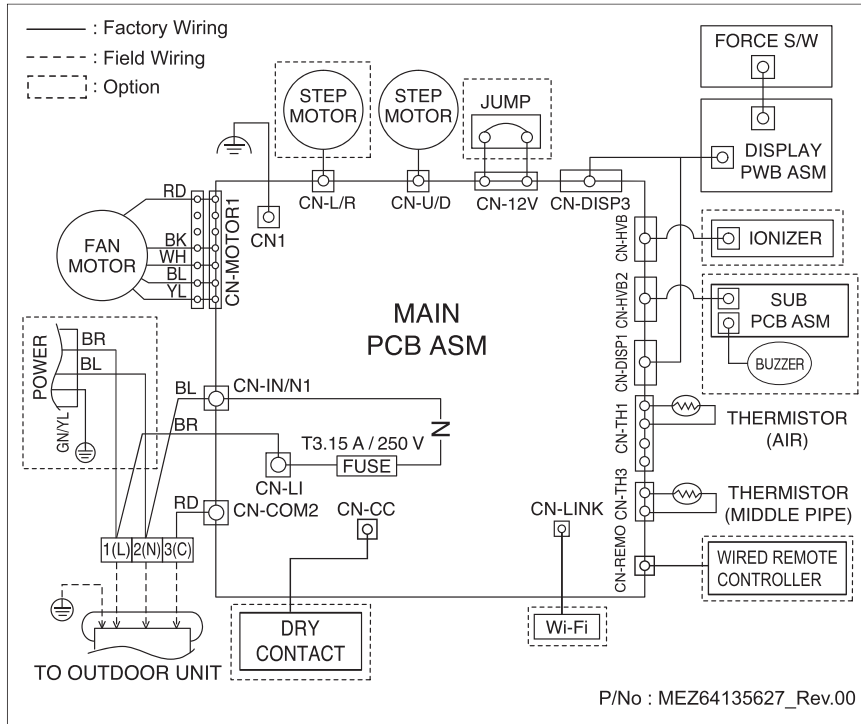
6. Wiring Diagrams

HSN12IPC.ATTGLCP (S3NQ12JA2PE.ATTGLCP)



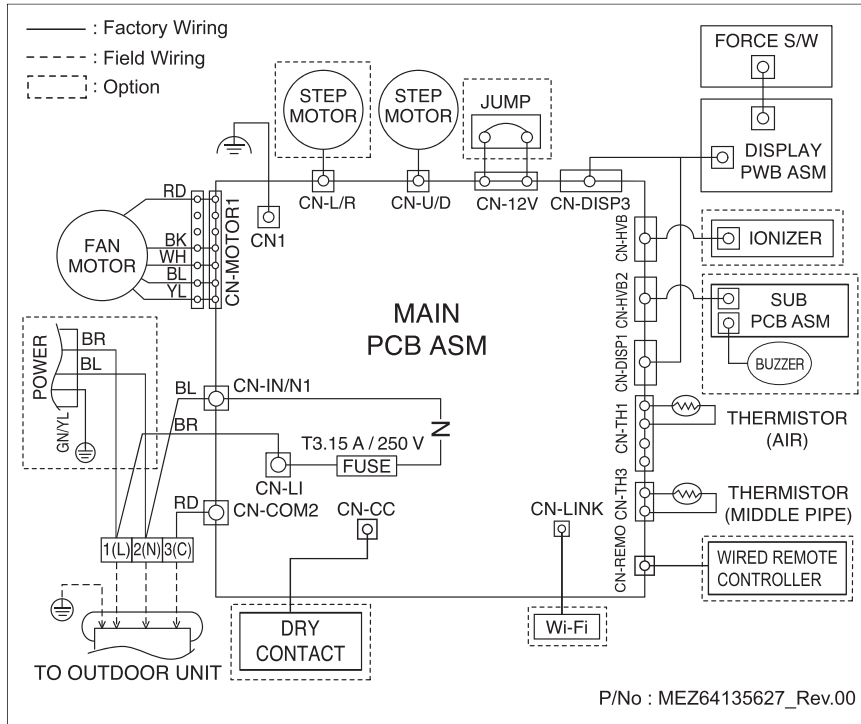
6. Wiring Diagrams

HSN18IPA.ATTGLCP (S3NQ18KL2PA.ATTGLCP)



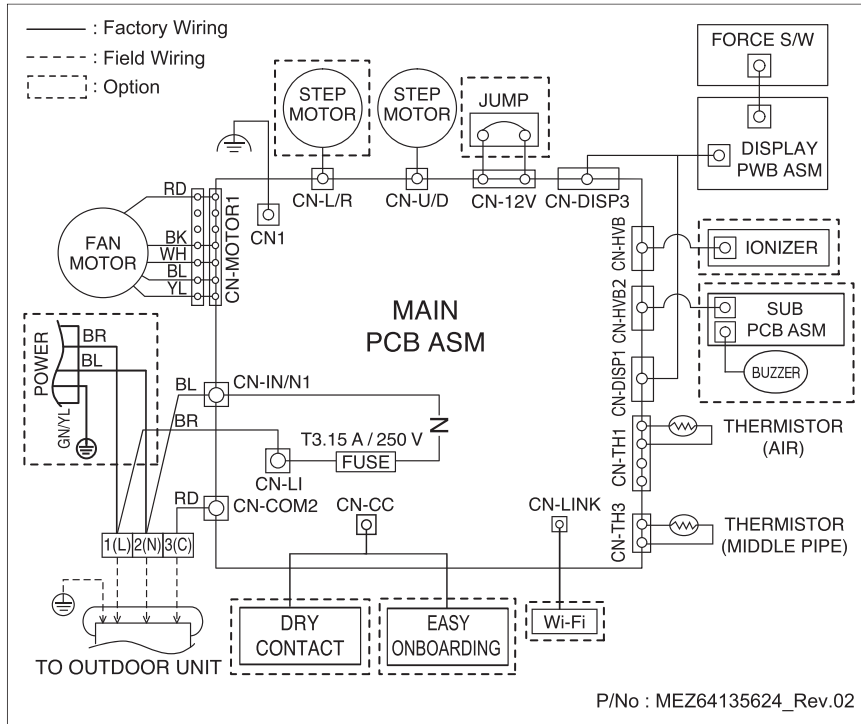
6. Wiring Diagrams

HSN24IPA.ATTGLCP (S3NQ24K22PA.ATTGLCP)



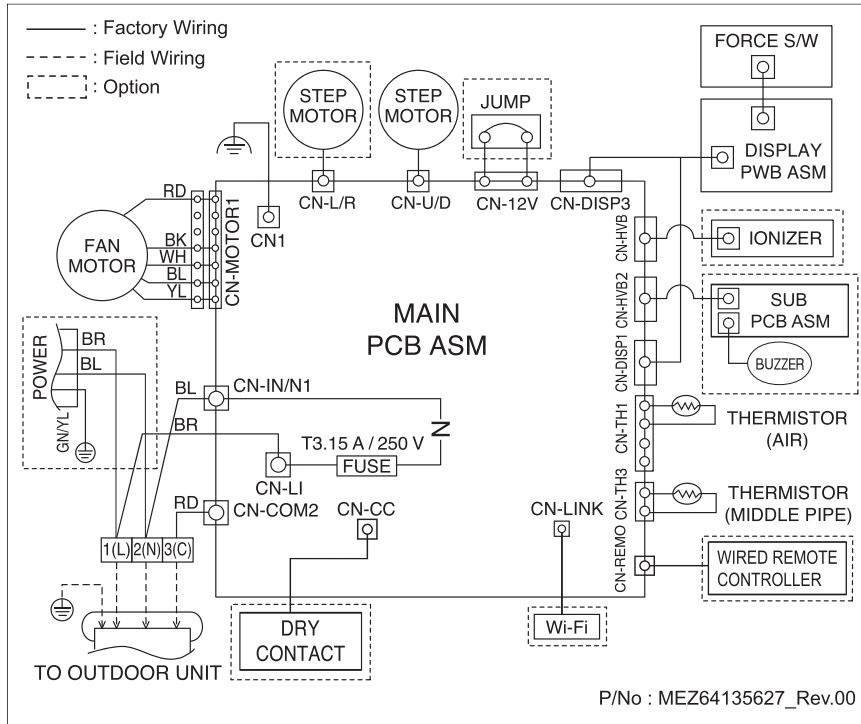
6. Wiring Diagrams

HSN09IPA.ATTGLCP (S3NQ09JA2PA.ATTGLCP)



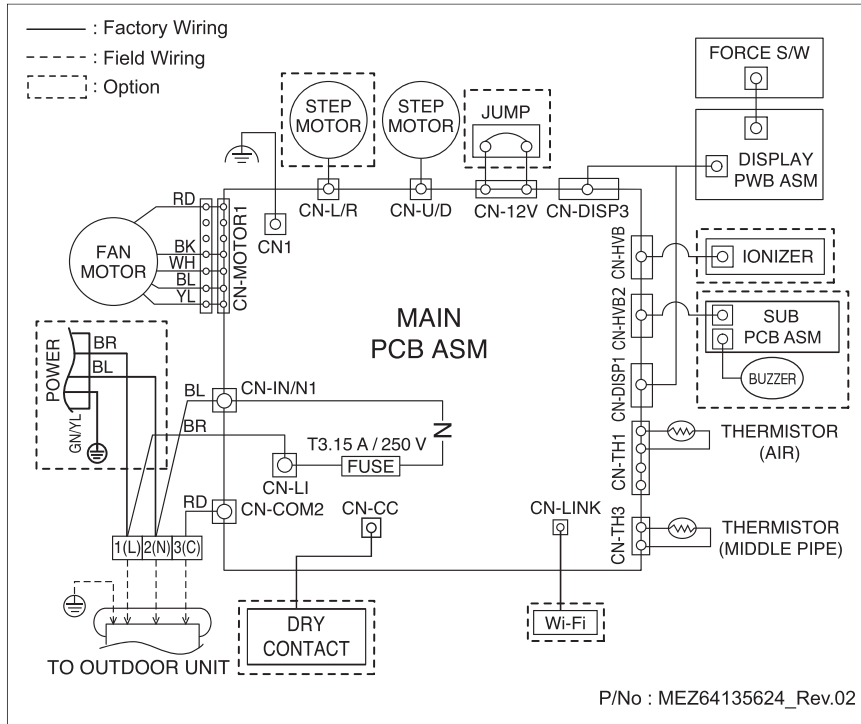
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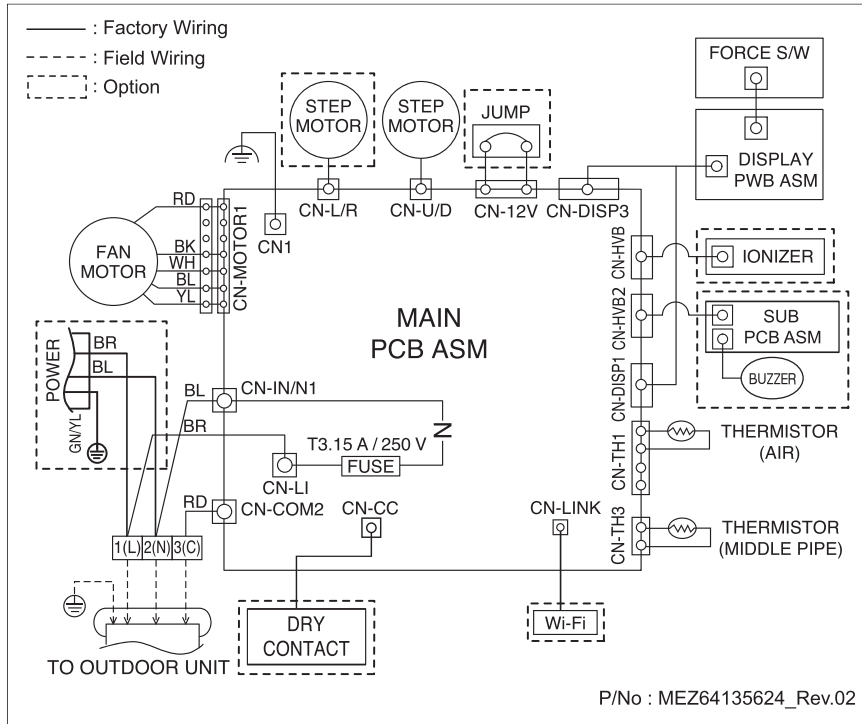
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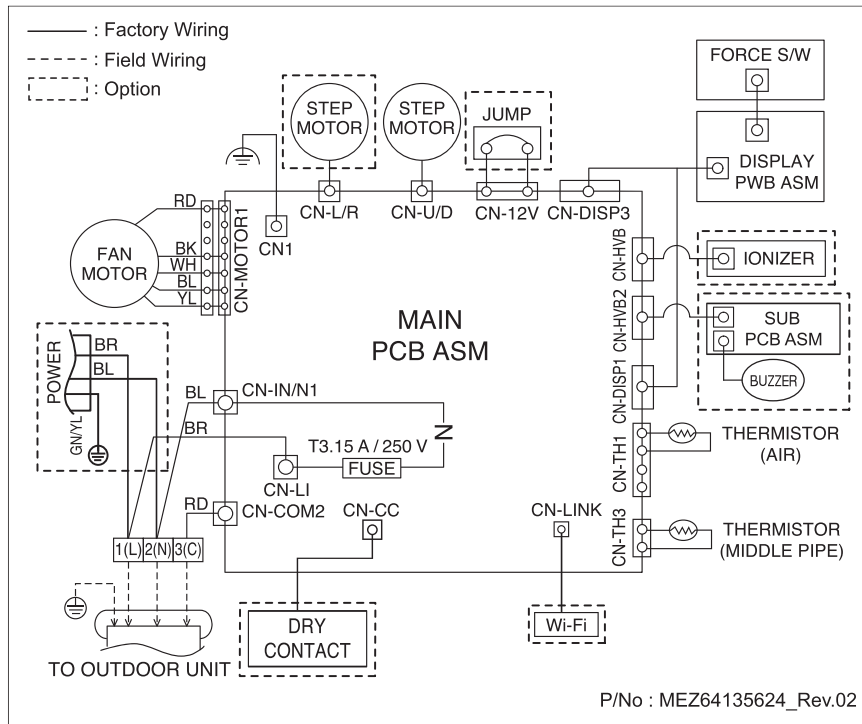
6. Wiring Diagrams

HSN18ISU.ATTGLCP (S3NQ18KL3WG.ATTGLCP)



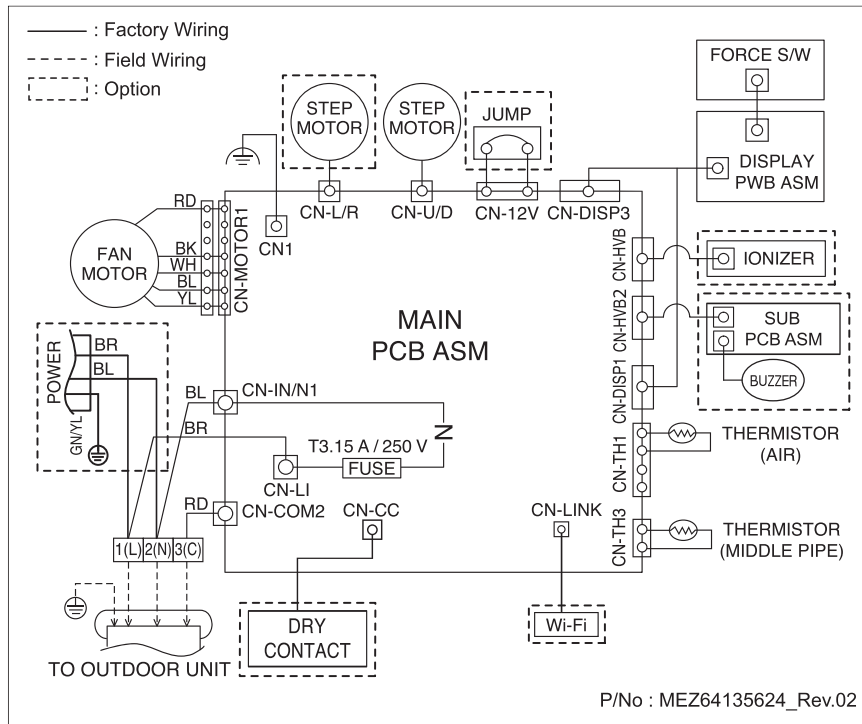
6. Wiring Diagrams

HSN09ISU.ATTGLCP (S3NQ09JA3WG.ATTGLCP)



6. Wiring Diagrams

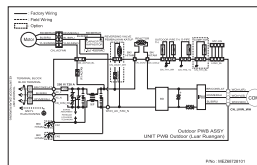
HSN12ISU.ATTGLCP (S3NQ12JA3WG.ATTGLCP)



6. Wiring Diagrams

6.2 Outdoor Unit

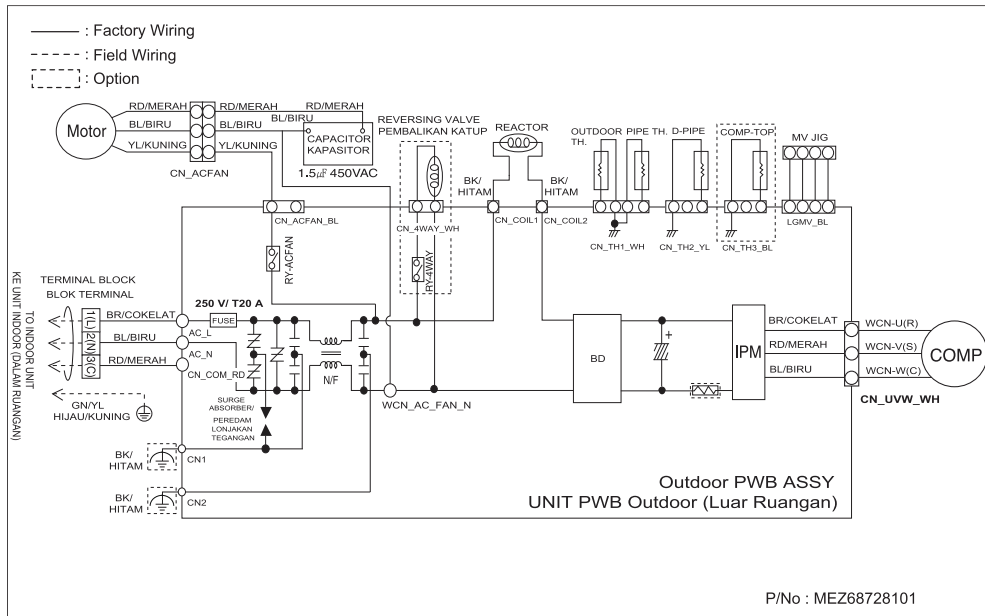
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6. Wiring Diagrams

6.2 Outdoor Unit

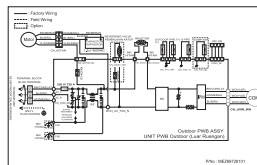
HSU09APC.ATTGLCP (S3UQ09JA1YB.ATTGLCP)



6. Wiring Diagrams

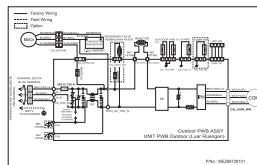
6.2 Outdoor Unit

HSU09APC.ATTGLCP (S3UQ09JA1YB.ATTGLCP)



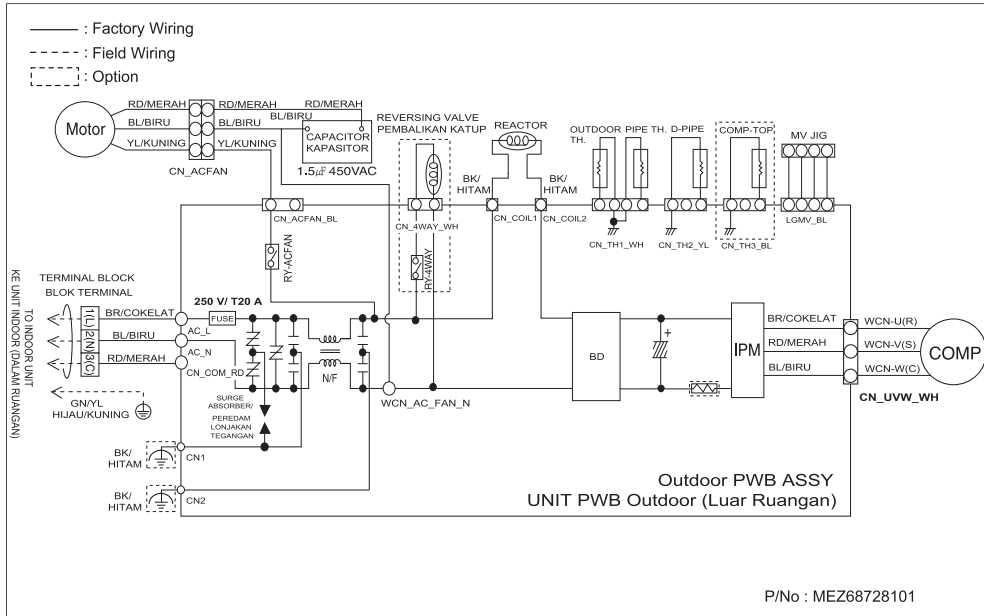
6. Wiring Diagrams

HSU09IPC.ATTGLCP (S3UQ09JA2PB.ATTGLCP)



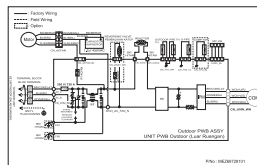
6. Wiring Diagrams

HSU09IPC.ATTGLCP (S3UQ09JA2PB.ATTGLCP)



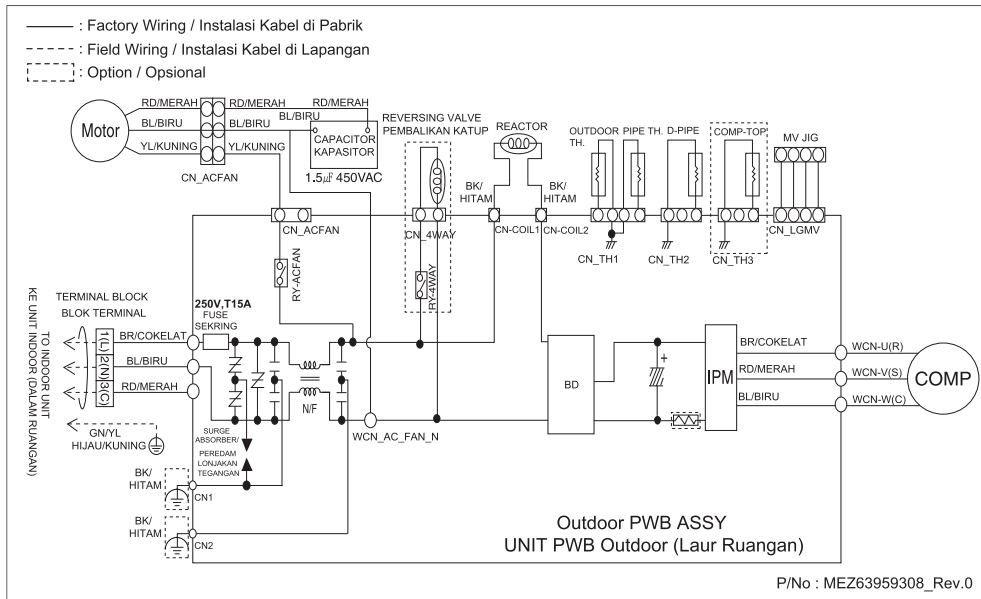
6. Wiring Diagrams

HSU09IPC.ATTGLCP (S3UQ09JA2PB.ATTGLCP)



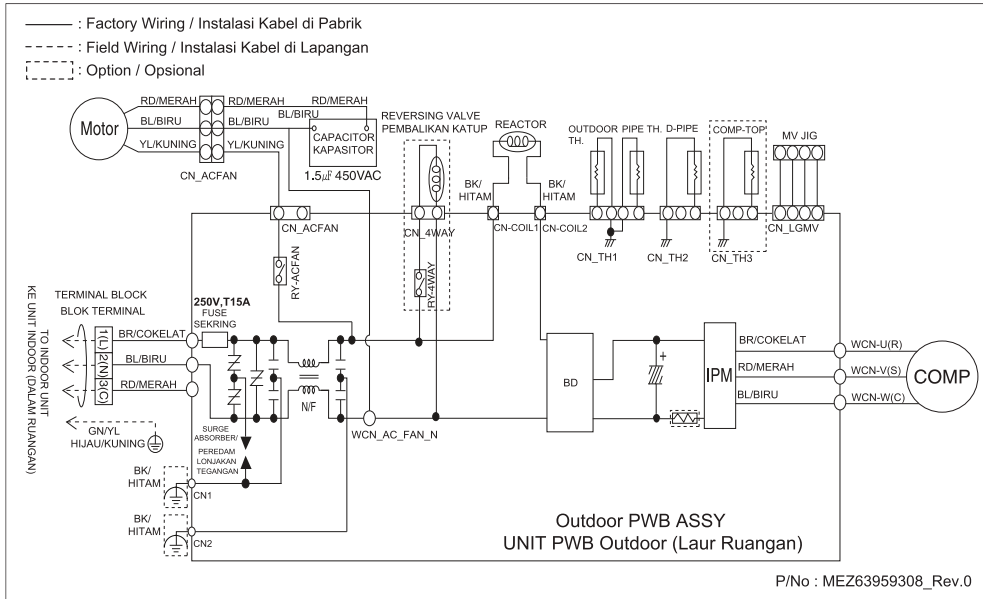
6. Wiring Diagrams

HSU12IPA.ATTGLCP (S3UQ12JA2PA.ATTGLCP)



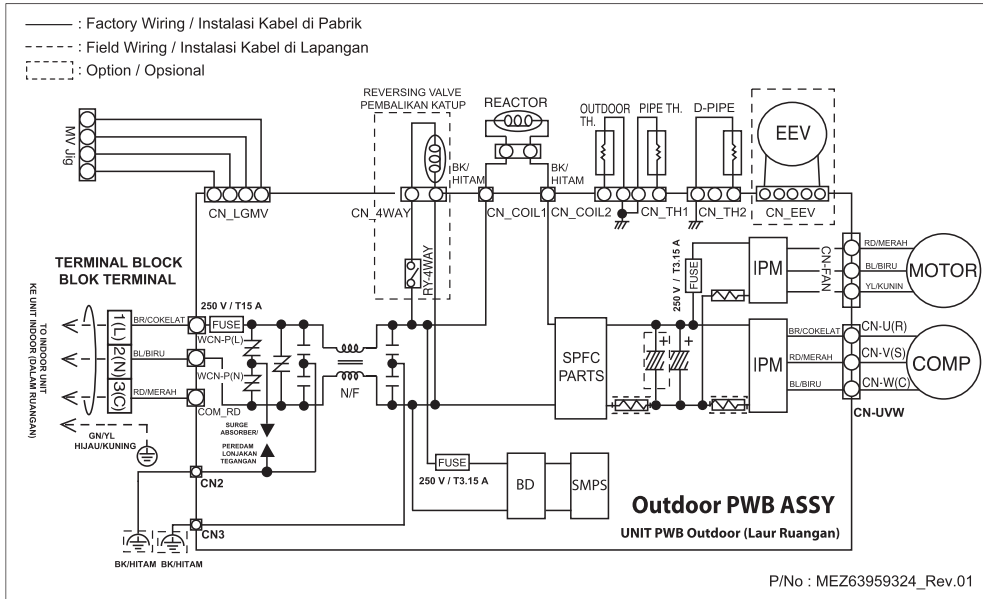
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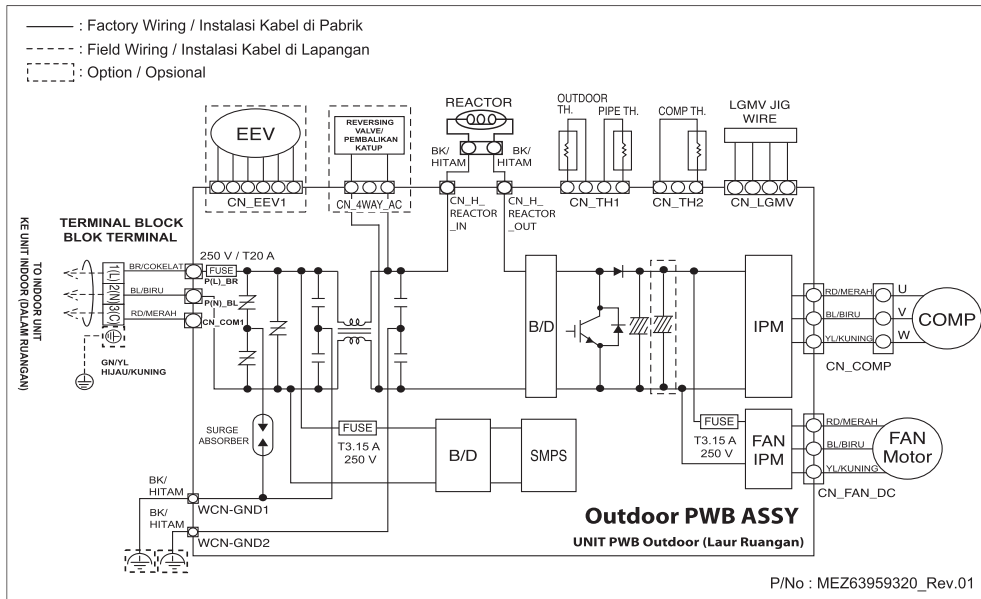
6. Wiring Diagrams

HSU18IPA.ATTGLCP (S3UQ18KL2PA.ATTGLCP)



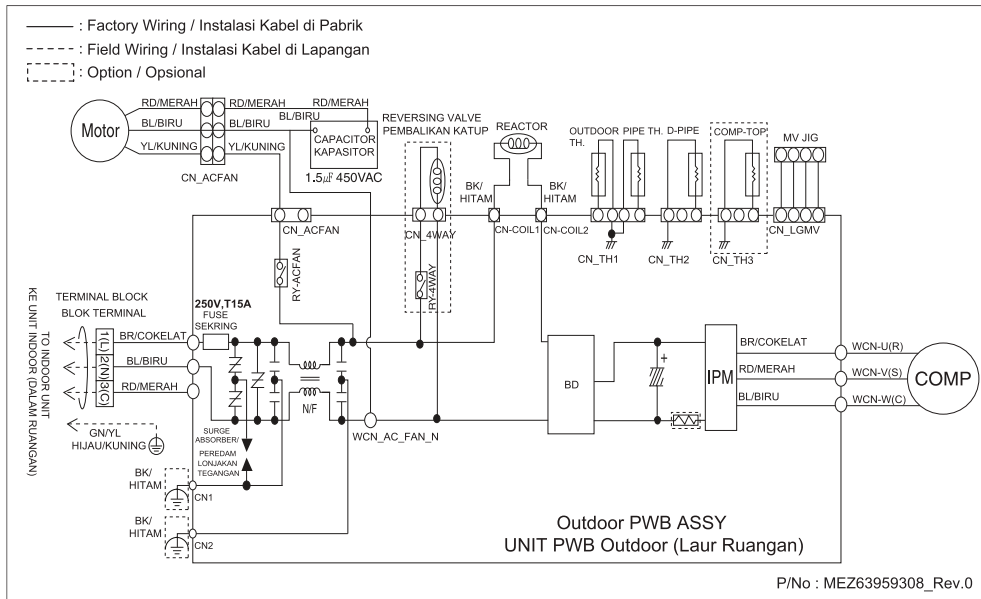
6. Wiring Diagrams

HSU24IPA.ATTGLCP (S3UQ24K22PA.ATTGLCP)



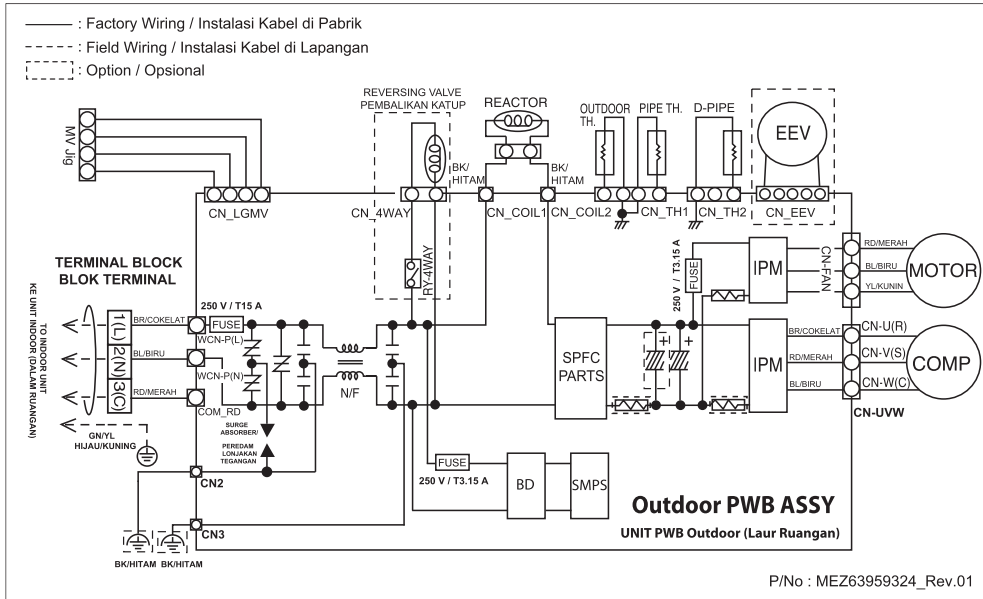
6. Wiring Diagrams

HSU09IPA.ATTGLCP (S3UQ09JA2PA.ATTGLCP)



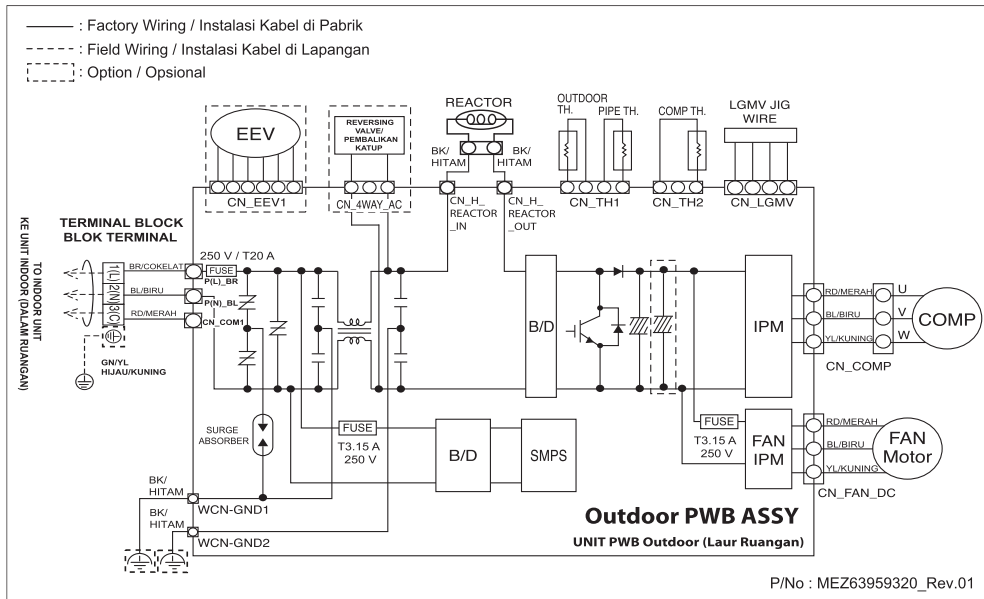
6. Wiring Diagrams

HSU18ISW.ATTGLCP (S3UQ18KL31A.ATTGLCP)



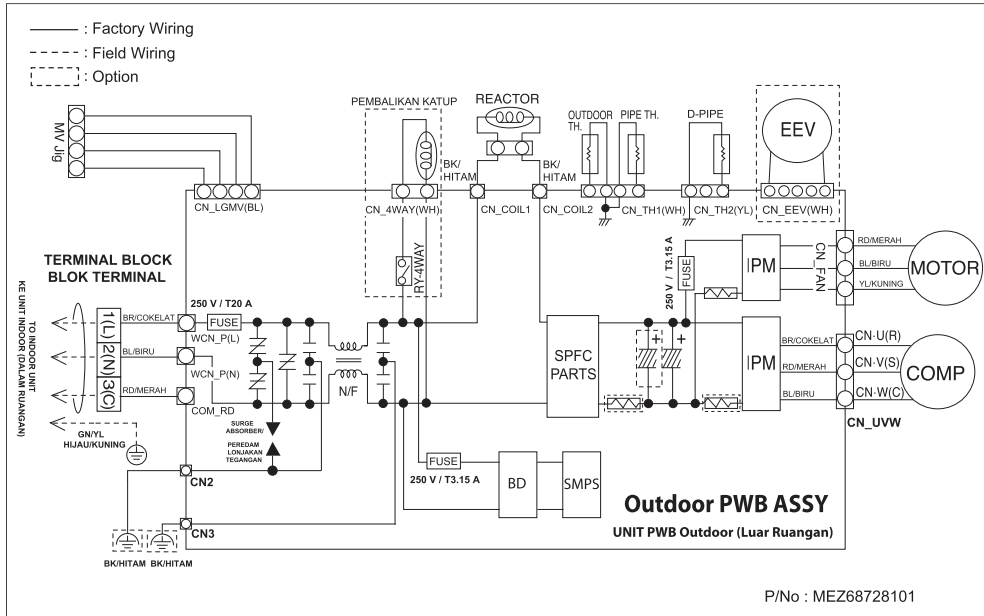
6. Wiring Diagrams

HSU24ISW.ATTGLCP (S3UQ24K231A.ATTGLCP)



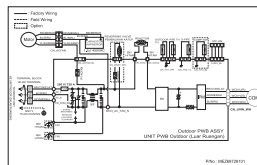
6. Wiring Diagrams

HSU18ISU.ATTGLCP (S3UQ18KL3WG.ATTGLCP)



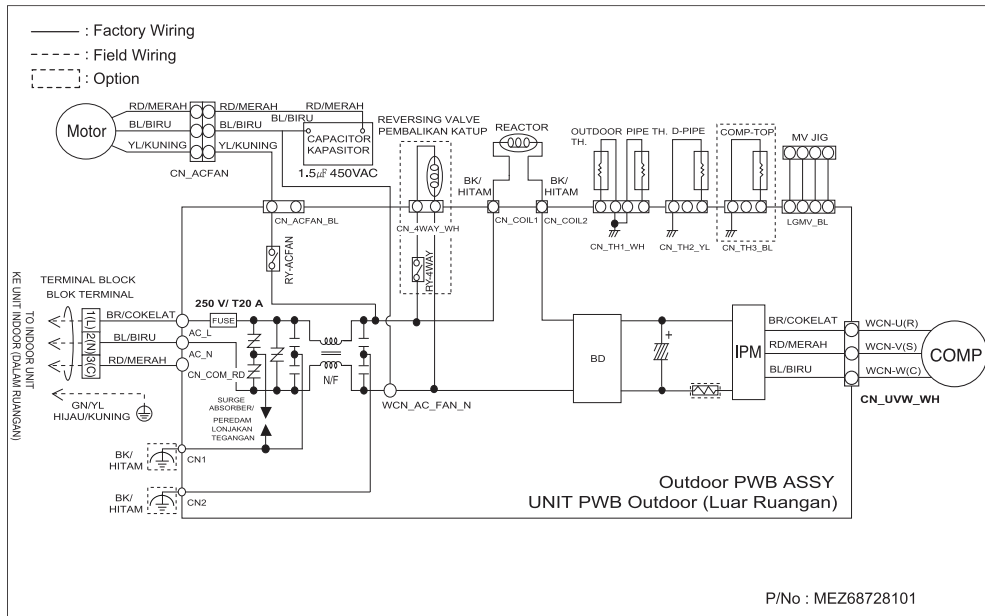
6. Wiring Diagrams

HSU09ISU.ATTGLCP (S3UQ09JA3WG.ATTGLCP)



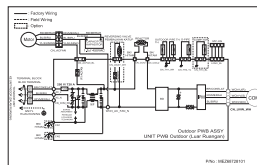
6. Wiring Diagrams

HSU09ISU.ATTGLCP (S3UQ09JA3WG.ATTGLCP)



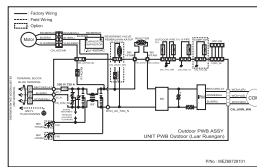
6. Wiring Diagrams

HSU09ISU.ATTGLCP (S3UQ09JA3WG.ATTGLCP)



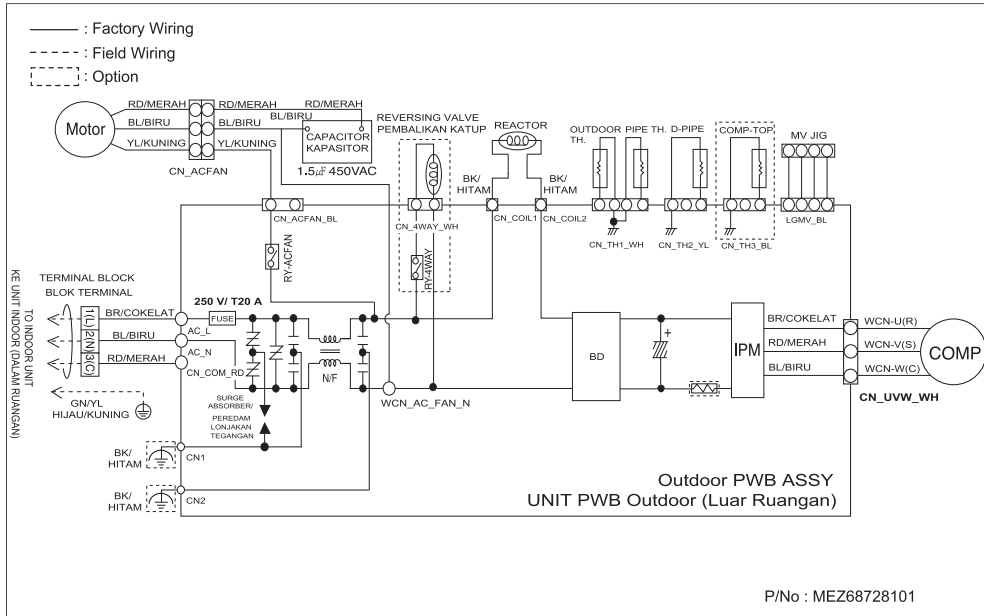
6. Wiring Diagrams

HSU12ISU.ATTGLCP (S3UQ12JA3WG.ATTGLCP)



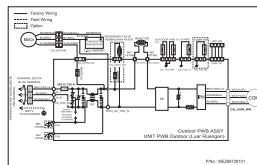
6. Wiring Diagrams

HSU12ISU.ATTGLCP (S3UQ12JA3WG.ATTGLCP)



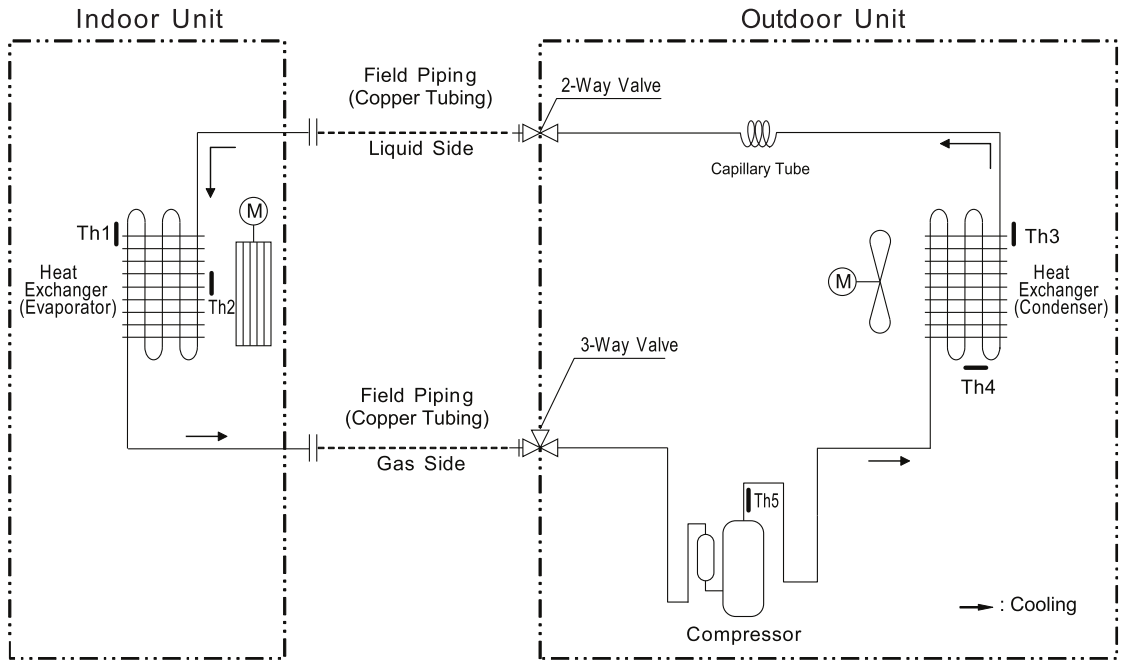
6. Wiring Diagrams

HSU12ISU.ATTGLCP (S3UQ12JA3WG.ATTGLCP)



7. Refrigerant Cycle Diagrams

HS-09APC.ATTGLCP (S3-Q09JA1YB.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

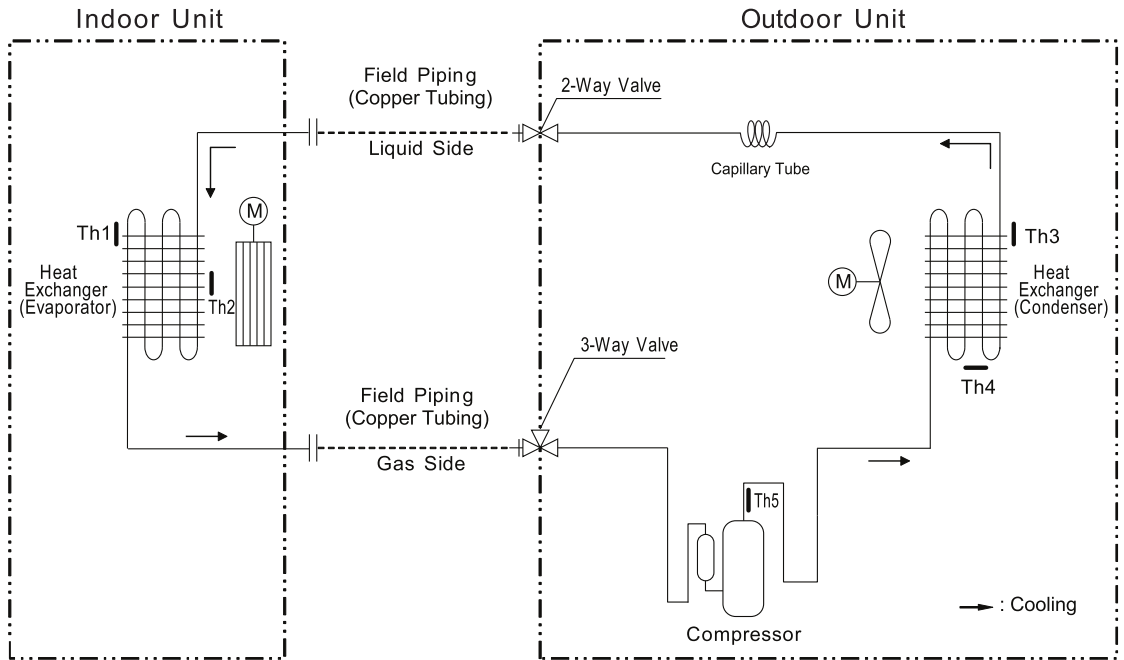
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube (OD - x ID - x mm) x -EA
	mm	inch	mm	inch	
HS-09APC.ATTGLCP	ø 9.52	ø 3/8	ø 6.35	ø 1/4	

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-09IPC.ATTGLCP (S3-Q09JA2PB.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

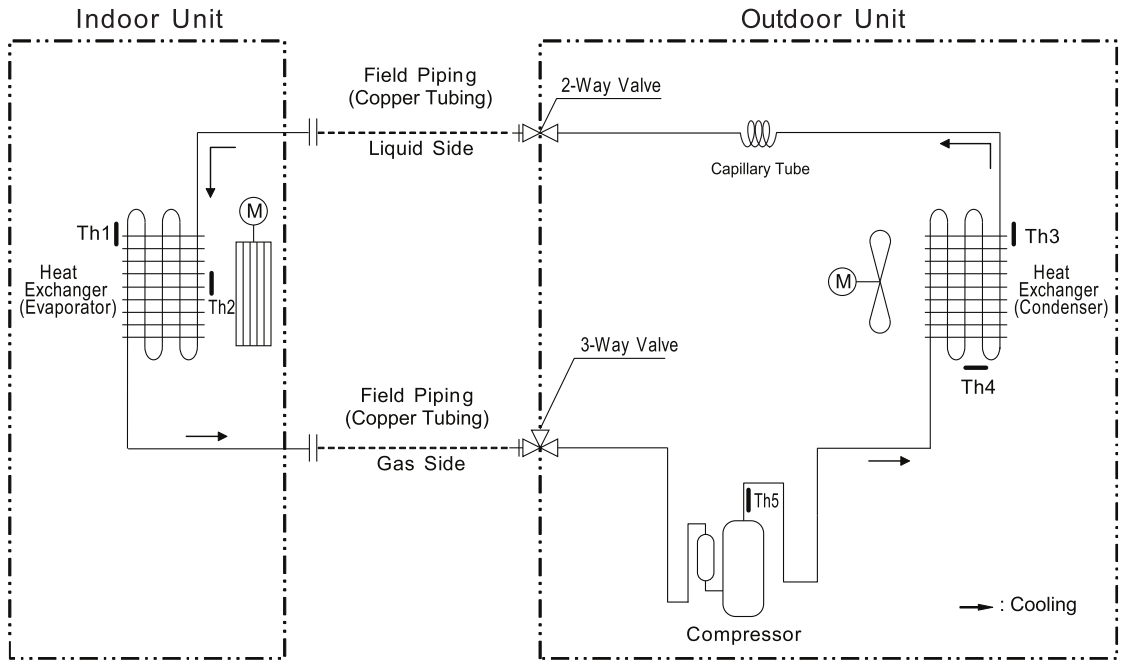
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube (OD - x ID - x mm) x -EA
	mm	inch	mm	inch	
HS-09IPC.ATTGLCP	ø 9.52	ø 3/8	ø 6.35	ø 1/4	

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-12IPA.ATTGLCP (S3-Q12JA2PA.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

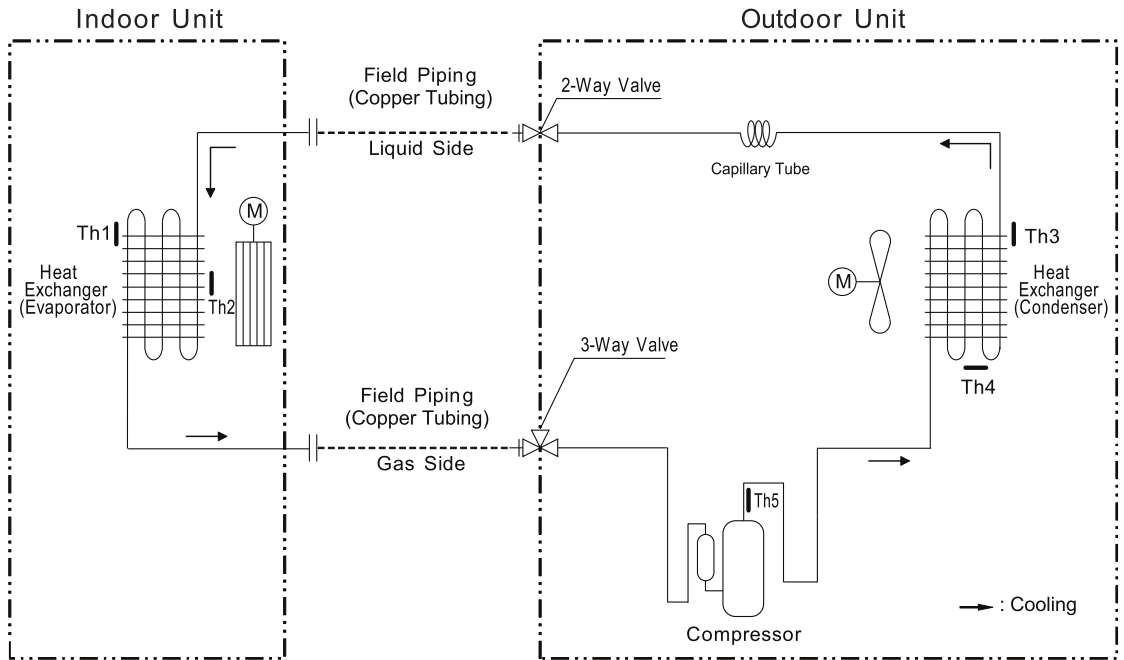
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube (OD - x ID - x mm) x -EA
	mm	inch	mm	inch	
HS-12IPA.ATTGLCP	ø 9.52	ø 3/8	ø 6.35	ø 1/4	

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-12IPC.ATTGLCP (S3-Q12JA2PE.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

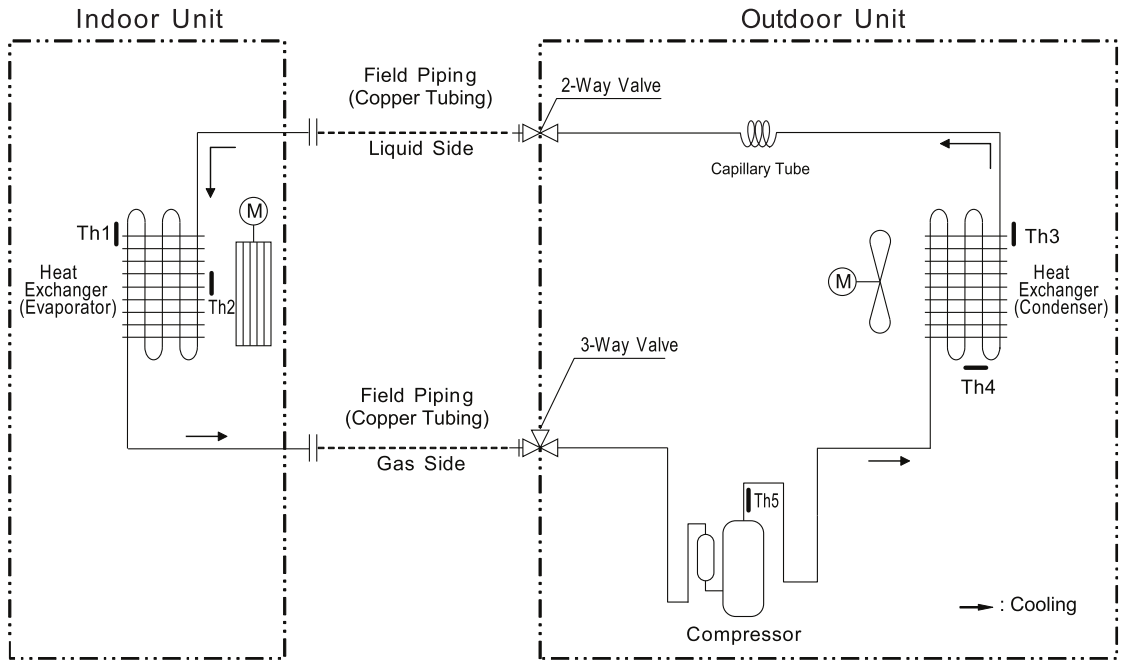
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube (OD - x ID - x mm) x -EA
	mm	inch	mm	inch	
HS-12IPC.ATTGLCP	ø 9.52	ø 3/8	ø 6.35	ø 1/4	

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-18IPA.ATTGLCP (S3-Q18KL2PA.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

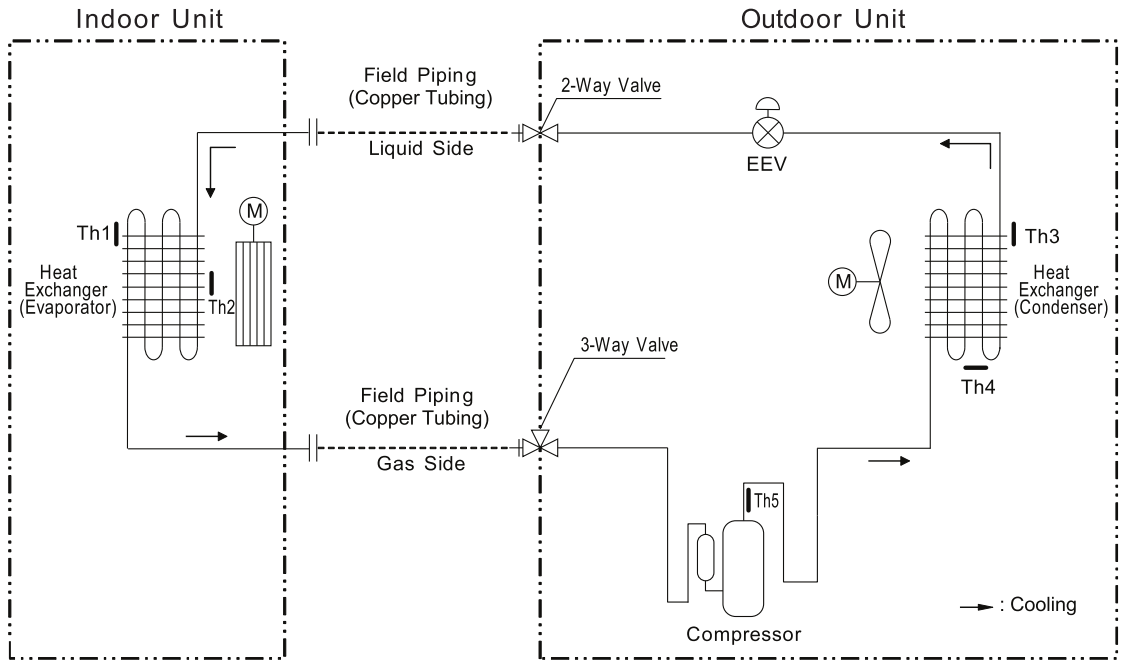
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube (OD - x ID - x mm) x -EA
	mm	inch	mm	inch	
HS-18IPA.ATTGLCP	ø 12.7	ø 1/2	ø 6.35	ø 1/4	

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-24IPA.ATTGLCP (S3-Q24K22PA.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

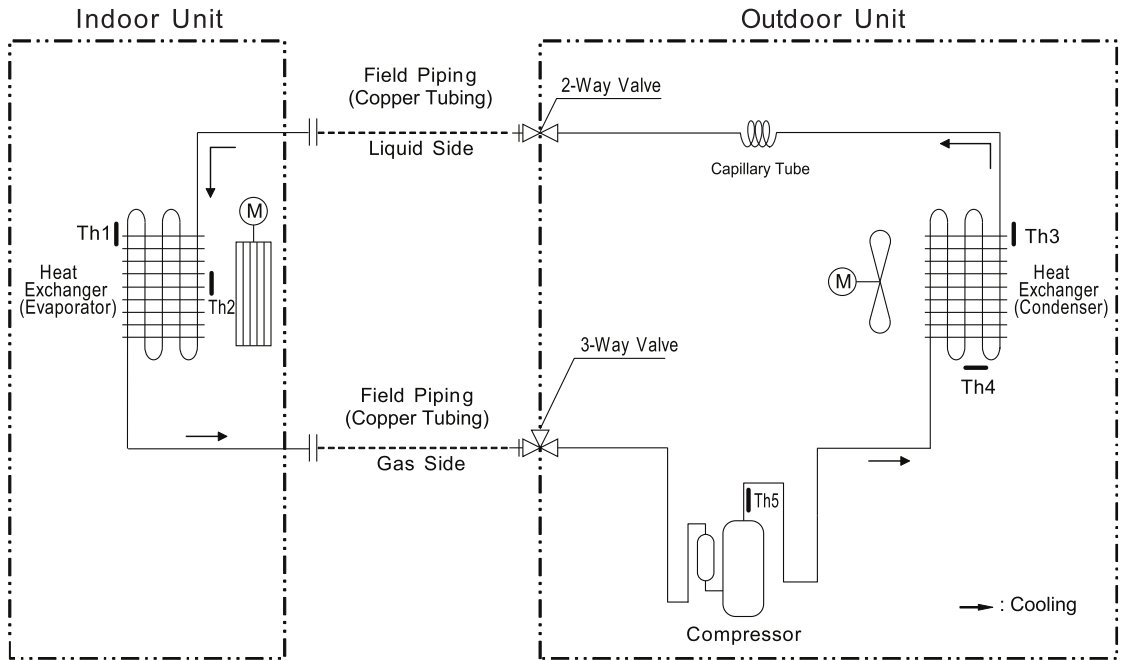
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube
	mm	inch	mm	inch	
HS-24IPA.ATTGLCP	ø 15.88	ø 5/8	ø 6.35	ø 1/4	-

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-09IPA.ATTGLCP (S3-Q09JA2PA.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

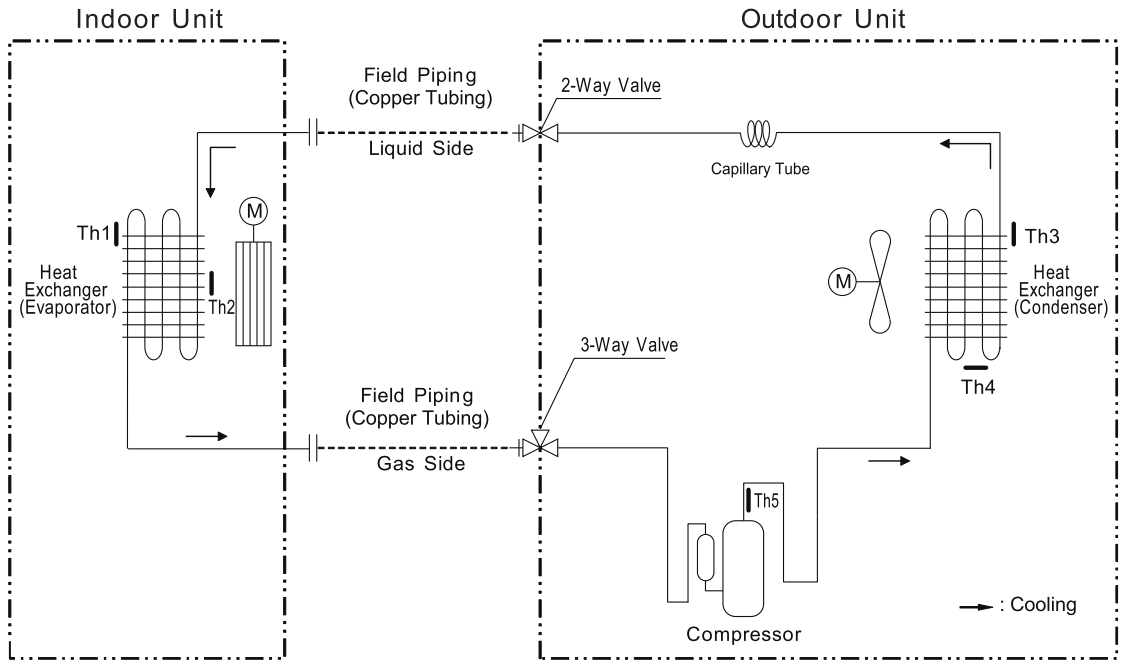
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube (OD - x ID - x mm) x -EA
	mm	inch	mm	inch	
HS-09IPA.ATTGLCP	ø 9.52	ø 3/8	ø 6.35	ø 1/4	

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-18ISW.ATTGLCP (S3-Q18KL31A.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

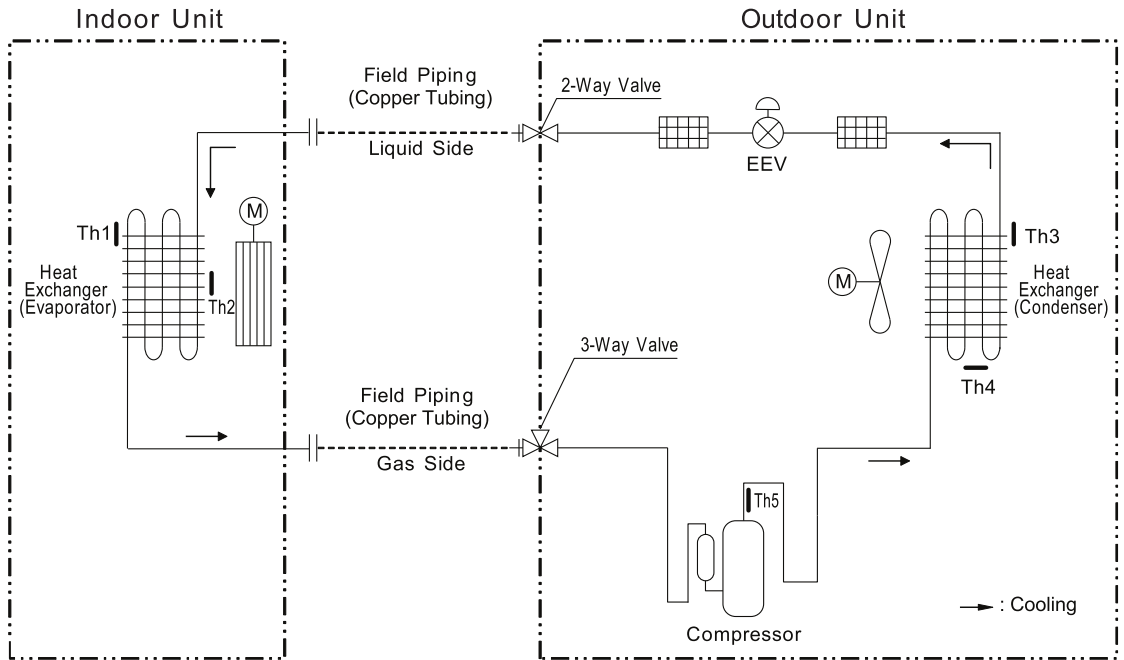
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube (OD - x ID - x - mm) x -EA
	mm	inch	mm	inch	
HS-18ISW.ATTGLCP	ø 12.7	ø 1/2	ø 6.35	ø 1/4	

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-24ISW.ATTGLCP (S3-Q24K231A.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

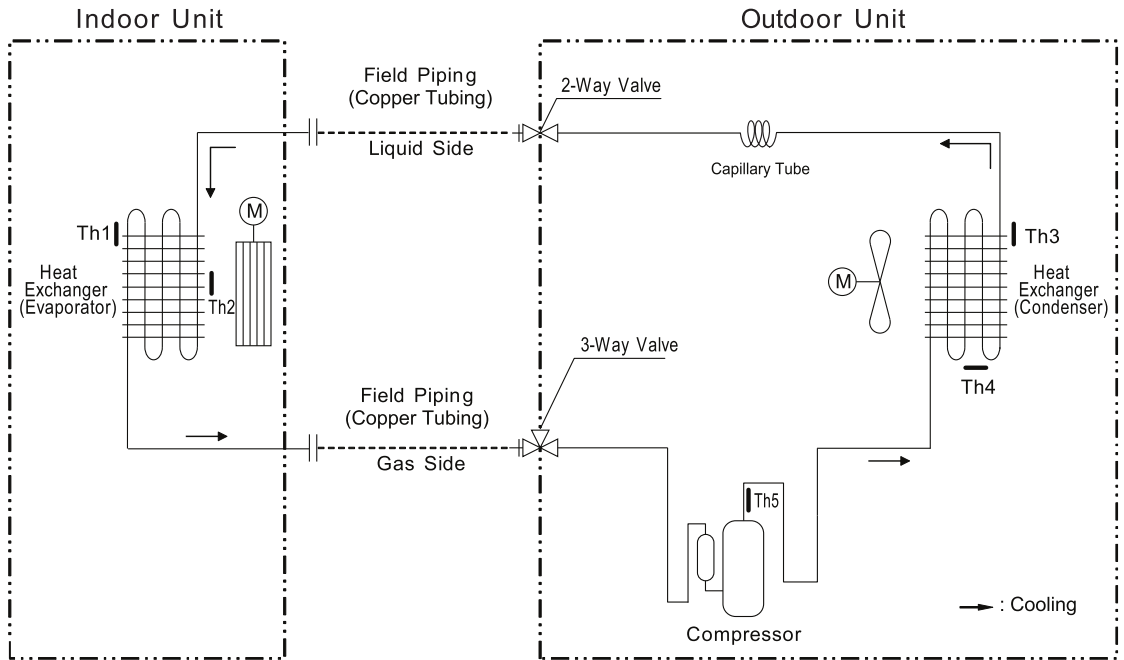
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube
	mm	inch	mm	inch	
HS-24ISW.ATTGLCP	ø 15.88	ø 5/8	ø 6.35	ø 1/4	-

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-18ISU.ATTGLCP (S3-Q18KL3WG.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

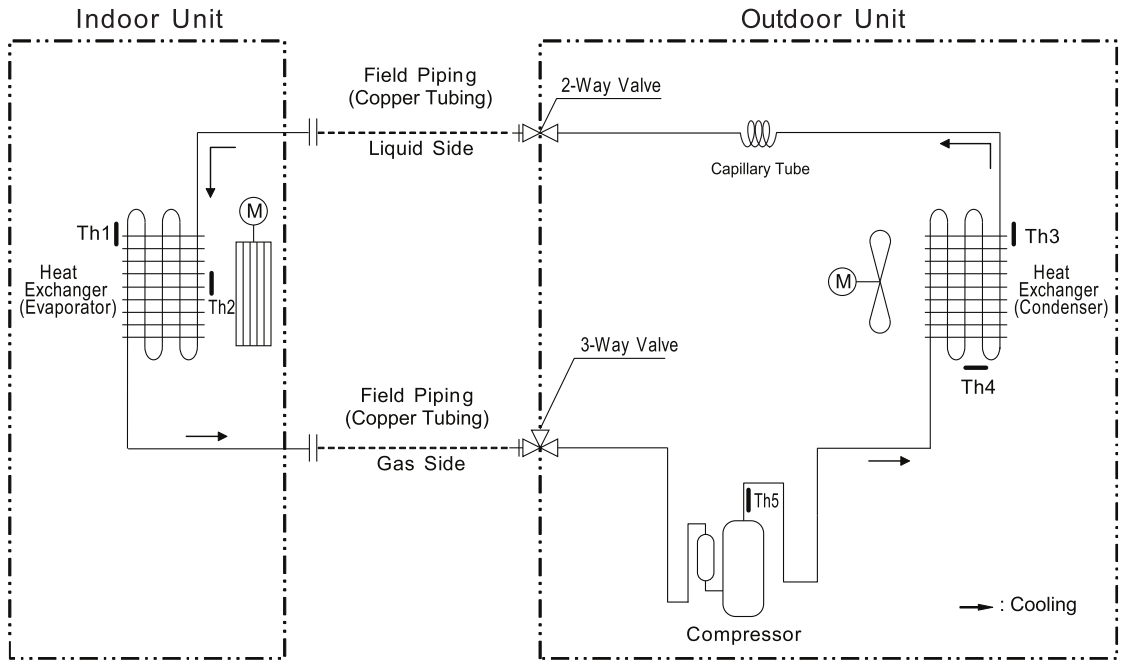
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube
	mm	inch	mm	inch	
HS-18ISU.ATTGLCP	ø 12.7	ø 1/2	ø 6.35	ø 1/4	(OD 2.6 × ID 1.4 × 600 mm) × 1EA

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-09ISU.ATTGLCP (S3-Q09JA3WG.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

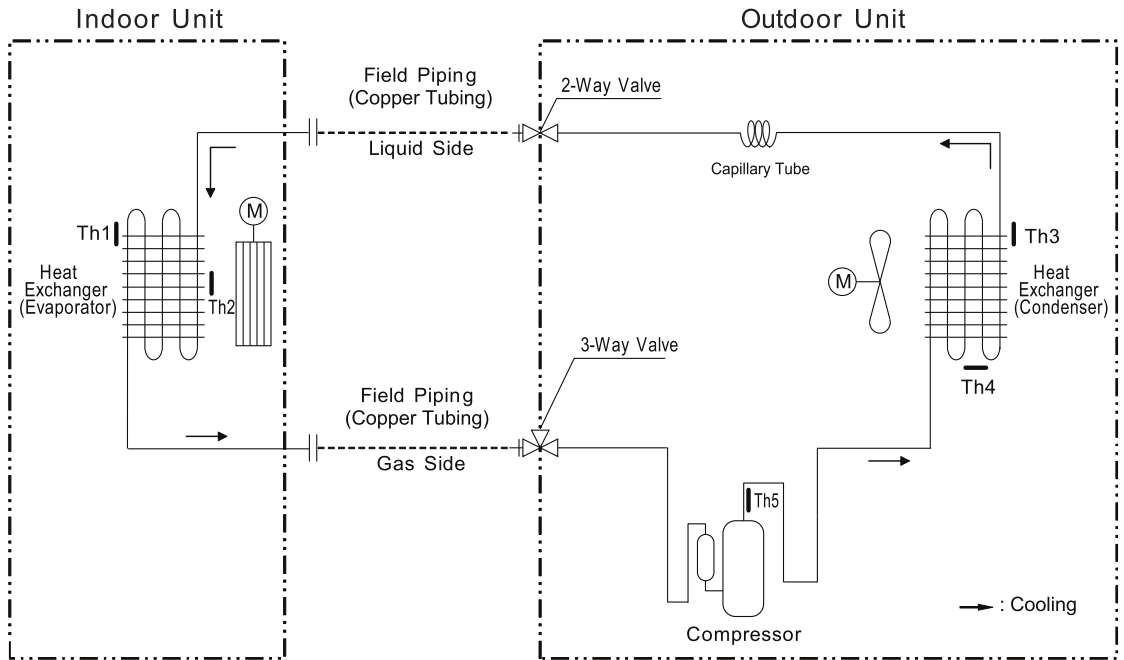
◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube
	mm	inch	mm	inch	
HS-09ISU.ATTGLCP	ø 9.52	ø 3/8	ø 6.35	ø 1/4	(OD 2.6 × ID 1.2 × 1000 mm) × 1EA

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

7. Refrigerant Cycle Diagrams

HS-12ISU.ATTGLCP (S3-Q12JA3WG.ATTGLCP)



Loc.	Description	PCB Connector
Th1	Thermistor for indoor air temperature	CN-TH1 (Indoor)
Th2	Thermistor for evaporator middle temperature	CN-TH3 (Indoor)
Th3	Thermistor for outdoor air temperature	CN-TH1 (Outdoor)
Th4	Thermistor for condenser temperature	CN-TH1 (Outdoor)
Th5	Thermistor for discharge pipe temperature	CN-TH2 (Outdoor)

◆ Refrigerant Pipe Connection Port Diameters

Model	Gas		Liquid		Capillary Tube
	mm	inch	mm	inch	
HS-12ISU.ATTGLCP	ø 9.52	ø 3/8	ø 6.35	ø 1/4	(OD 2.6 × ID 1.2 × 1000 mm) × 1EA

Appendix	Heat Exchanger	Propeller Fan	Cross Flow Fan	Compressor	Accumulator	Reversing Valve (4 Way Valve)
	EEV (Electronic Expansion Valve)	Capillary Tube	2-Way Valve 3-Way Valve	Temperature Sensor	Pressure Sensor	Pressure Switch
	Check Valve	Flare Joint	Muffler	Strainer		

8. Capacity Tables

8.1 Rated Cooling Capacity

HS-09APC.ATTGLCP (S3-Q09JA1YB.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	2.32	2.15	0.46	2.53	2.21	0.49	2.74	2.27	0.52	3.01	2.35	0.55	3.17	2.39	0.57	3.34	2.66	0.59	3.59	3.02	0.63
20	2.31	2.14	0.48	2.51	2.21	0.50	2.72	2.27	0.53	2.97	2.36	0.56	3.13	2.41	0.58	3.30	2.66	0.60	3.55	3.02	0.64
25	2.23	2.07	0.51	2.41	2.15	0.53	2.59	2.24	0.55	2.82	2.34	0.58	2.95	2.41	0.60	3.12	2.63	0.62	3.36	2.94	0.65
30	2.15	2.00	0.54	2.31	2.10	0.56	2.46	2.20	0.58	2.66	2.33	0.60	2.78	2.40	0.62	2.94	2.60	0.64	3.18	2.87	0.67
35	2.06	1.93	0.57	2.20	2.05	0.59	2.33	2.17	0.60	2.50	2.31	0.63	2.60	2.40	0.64	2.77	2.57	0.66	2.99	2.80	0.69
41	1.96	1.71	0.64	2.11	1.83	0.67	2.25	1.95	0.69	2.42	2.10	0.71	2.53	2.19	0.73	2.68	2.32	0.75	2.90	2.51	0.78
46	1.78	1.43	0.70	1.91	1.54	0.72	2.05	1.65	0.74	2.22	1.78	0.77	2.32	1.86	0.79	2.46	1.98	0.81	2.65	2.13	0.85
48	1.73	1.39	0.70	1.87	1.50	0.73	2.00	1.61	0.75	2.16	1.74	0.78	2.26	1.82	0.79	2.40	1.93	0.82	2.59	2.08	0.85

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-09IPC.ATTGLCP (S3-Q09JA2PB.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	2.32	2.15	0.46	2.53	2.21	0.49	2.74	2.27	0.52	3.01	2.35	0.55	3.17	2.39	0.57	3.34	2.66	0.59	3.59	3.02	0.63
20	2.31	2.14	0.48	2.51	2.21	0.50	2.72	2.27	0.53	2.97	2.36	0.56	3.13	2.41	0.58	3.30	2.66	0.60	3.55	3.02	0.64
25	2.23	2.07	0.50	2.41	2.15	0.53	2.59	2.24	0.55	2.82	2.34	0.58	2.95	2.40	0.60	3.12	2.63	0.62	3.36	2.94	0.65
30	2.15	2.00	0.53	2.31	2.10	0.55	2.46	2.20	0.57	2.66	2.33	0.60	2.78	2.40	0.61	2.94	2.60	0.63	3.18	2.86	0.66
35	2.06	1.93	0.56	2.20	2.05	0.58	2.33	2.16	0.59	2.50	2.31	0.62	2.60	2.40	0.63	2.77	2.56	0.65	2.99	2.79	0.68
41	2.00	1.72	0.66	2.14	1.84	0.68	2.28	1.97	0.70	2.46	2.12	0.73	2.57	2.21	0.74	2.73	2.35	0.76	2.94	2.54	0.79
46	1.84	1.46	0.73	1.98	1.57	0.76	2.12	1.69	0.78	2.29	1.83	0.81	2.40	1.91	0.83	2.54	2.02	0.85	2.74	2.18	0.89
48	1.79	1.43	0.74	1.93	1.54	0.76	2.07	1.65	0.78	2.24	1.78	0.81	2.34	1.86	0.83	2.48	1.98	0.86	2.68	2.13	0.89

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-12IPA.ATTGLCP (S3-Q12JA2PA.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	3.12	2.89	0.76	3.40	2.97	0.80	3.68	3.05	0.84	4.04	3.15	0.90	4.25	3.21	0.93	4.48	3.57	0.97	4.81	4.06	1.02
20	3.10	2.87	0.78	3.37	2.96	0.82	3.65	3.05	0.86	3.99	3.16	0.92	4.19	3.23	0.95	4.43	3.57	0.99	4.76	4.05	1.04
25	3.00	2.73	0.82	3.24	2.84	0.86	3.48	2.95	0.90	3.79	3.09	0.95	3.97	3.17	0.97	4.20	3.47	1.01	4.52	3.88	1.06
30	2.90	2.59	0.87	3.11	2.72	0.90	3.32	2.85	0.94	3.58	3.02	0.98	3.74	3.12	1.00	3.97	3.37	1.04	4.29	3.72	1.08
35	2.79	2.46	0.91	2.97	2.61	0.94	3.15	2.76	0.97	3.38	2.95	1.01	3.52	3.06	1.03	3.74	3.27	1.06	4.05	3.56	1.11
41	2.46	2.12	0.94	2.64	2.27	0.97	2.82	2.42	1.00	3.04	2.60	1.04	3.17	2.71	1.06	3.36	2.89	1.09	3.63	3.12	1.14
46	2.05	1.72	0.94	2.20	1.85	0.97	2.36	1.98	1.00	2.55	2.14	1.03	2.67	2.24	1.06	2.83	2.37	1.09	3.05	2.56	1.13
48	2.00	1.67	0.94	2.15	1.80	0.97	2.30	1.93	1.00	2.49	2.09	1.04	2.60	2.19	1.06	2.76	2.32	1.10	2.98	2.50	1.14

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-12IPC.ATTGLCP (S3-Q12JA2PE.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	3.12	2.89	0.76	3.40	2.97	0.80	3.68	3.05	0.84	4.04	3.15	0.90	4.25	3.21	0.93	4.48	3.57	0.97	4.81	4.06	1.02
20	3.10	2.87	0.78	3.37	2.96	0.82	3.65	3.05	0.86	3.99	3.16	0.92	4.19	3.23	0.95	4.43	3.57	0.99	4.76	4.05	1.04
25	3.00	2.73	0.82	3.24	2.84	0.86	3.48	2.95	0.90	3.79	3.09	0.95	3.97	3.17	0.97	4.20	3.47	1.01	4.52	3.88	1.06
30	2.90	2.59	0.87	3.11	2.72	0.90	3.32	2.85	0.94	3.58	3.02	0.98	3.74	3.12	1.00	3.97	3.37	1.04	4.29	3.72	1.08
35	2.79	2.46	0.91	2.97	2.61	0.94	3.15	2.76	0.97	3.38	2.95	1.01	3.52	3.06	1.03	3.74	3.27	1.06	4.05	3.56	1.11
41	2.46	2.12	0.94	2.64	2.27	0.97	2.82	2.42	1.00	3.04	2.60	1.04	3.17	2.71	1.06	3.36	2.89	1.09	3.63	3.12	1.14
46	2.05	1.72	0.94	2.20	1.85	0.97	2.36	1.98	1.00	2.55	2.14	1.03	2.67	2.24	1.06	2.83	2.37	1.09	3.05	2.56	1.13
48	2.00	1.67	0.94	2.15	1.80	0.97	2.30	1.93	1.00	2.49	2.09	1.04	2.60	2.19	1.06	2.76	2.32	1.10	2.98	2.50	1.14

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-18IPA.ATTGLCP (S3-Q18KL2PA.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	4.67	4.24	1.12	5.09	4.36	1.19	5.51	4.48	1.25	6.04	4.63	1.33	6.36	4.71	1.38	6.71	5.24	1.44	7.20	5.95	1.52
20	4.64	4.22	1.16	5.05	4.35	1.22	5.46	4.48	1.28	5.97	4.64	1.36	6.28	4.74	1.41	6.63	5.25	1.46	7.12	5.94	1.54
25	4.49	4.01	1.23	4.86	4.17	1.28	5.22	4.33	1.34	5.67	4.54	1.41	5.94	4.66	1.45	6.29	5.10	1.50	6.77	5.70	1.58
30	4.34	3.81	1.30	4.66	4.00	1.35	4.98	4.19	1.40	5.37	4.44	1.46	5.61	4.58	1.50	5.95	4.95	1.55	6.42	5.47	1.62
35	4.19	3.62	1.36	4.46	3.84	1.41	4.73	4.06	1.45	5.07	4.34	1.51	5.28	4.50	1.54	5.61	4.81	1.59	6.07	5.24	1.65
41	3.75	3.11	1.43	4.02	3.33	1.48	4.29	3.55	1.52	4.63	3.83	1.58	4.83	3.99	1.62	5.13	4.24	1.67	5.54	4.59	1.73
46	3.18	2.53	1.46	3.43	2.72	1.50	3.67	2.91	1.55	3.97	3.15	1.61	4.15	3.30	1.64	4.40	3.49	1.69	4.75	3.77	1.76
48	3.10	2.46	1.47	3.34	2.65	1.51	3.58	2.84	1.56	3.87	3.08	1.62	4.05	3.22	1.65	4.29	3.41	1.70	4.63	3.68	1.78

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-24IPA.ATTGLCP (S3-Q24K22PA.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	5.44	4.89	1.34	5.93	5.02	1.42	6.42	5.16	1.50	7.04	5.33	1.59	7.41	5.44	1.65	7.82	6.04	1.72	8.39	6.86	1.81
20	5.41	4.86	1.38	5.88	5.01	1.46	6.36	5.16	1.53	6.96	5.35	1.62	7.32	5.47	1.68	7.73	6.05	1.75	8.30	6.85	1.84
25	5.27	4.66	1.47	5.70	4.85	1.54	6.13	5.04	1.60	6.66	5.28	1.69	6.98	5.42	1.74	7.39	5.93	1.80	7.95	6.63	1.89
30	5.14	4.47	1.55	5.51	4.70	1.61	5.89	4.92	1.67	6.36	5.21	1.75	6.64	5.38	1.79	7.04	5.82	1.85	7.60	6.42	1.94
35	5.00	4.29	1.64	5.33	4.55	1.69	5.65	4.81	1.74	6.06	5.14	1.81	6.30	5.34	1.85	6.70	5.70	1.91	7.26	6.21	1.99
41	4.39	3.60	1.73	4.70	3.86	1.78	5.02	4.11	1.84	5.41	4.43	1.91	5.65	4.62	1.95	5.99	4.91	2.01	6.47	5.31	2.09
46	3.62	2.84	1.76	3.90	3.05	1.82	4.17	3.27	1.88	4.52	3.54	1.95	4.73	3.70	1.99	5.01	3.92	2.05	5.40	4.23	2.13
48	3.53	2.76	1.78	3.80	2.98	1.83	4.07	3.19	1.89	4.41	3.45	1.96	4.61	3.61	2.00	4.89	3.83	2.07	5.27	4.13	2.15

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-091PA.ATTGLCP (S3-Q09JA2PA.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	2.39	2.23	0.54	2.61	2.30	0.57	2.82	2.36	0.60	3.09	2.44	0.64	3.26	2.48	0.66	3.44	2.76	0.69	3.69	3.14	0.73
20	2.38	2.22	0.55	2.58	2.29	0.58	2.79	2.36	0.61	3.06	2.45	0.65	3.21	2.50	0.68	3.40	2.76	0.70	3.65	3.13	0.74
25	2.30	2.11	0.60	2.48	2.20	0.62	2.67	2.28	0.65	2.90	2.39	0.69	3.04	2.45	0.71	3.22	2.68	0.73	3.47	3.00	0.77
30	2.22	2.00	0.64	2.38	2.11	0.66	2.55	2.21	0.69	2.75	2.33	0.72	2.87	2.41	0.74	3.04	2.61	0.76	3.29	2.88	0.80
35	2.14	1.90	0.68	2.28	2.02	0.70	2.42	2.14	0.73	2.59	2.28	0.75	2.70	2.37	0.77	2.87	2.53	0.79	3.10	2.76	0.83
41	1.92	1.71	0.69	2.06	1.83	0.72	2.20	1.96	0.74	2.37	2.11	0.77	2.47	2.20	0.78	2.62	2.34	0.81	2.83	2.53	0.84
46	1.63	1.47	0.69	1.75	1.58	0.71	1.88	1.69	0.73	2.03	1.83	0.76	2.12	1.92	0.77	2.25	2.03	0.80	2.43	2.19	0.83
48	1.59	1.43	0.69	1.71	1.54	0.71	1.83	1.65	0.74	1.98	1.79	0.76	2.07	1.87	0.78	2.20	1.98	0.80	2.37	2.14	0.84

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-18ISW.ATTGLCP (S3-Q18KL31A.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	4.67	4.24	1.12	5.09	4.36	1.19	5.51	4.48	1.25	6.04	4.63	1.33	6.36	4.71	1.38	6.71	5.24	1.44	7.20	5.95	1.52
20	4.64	4.22	1.16	5.05	4.35	1.22	5.46	4.48	1.28	5.97	4.64	1.36	6.28	4.74	1.41	6.63	5.25	1.46	7.12	5.94	1.54
25	4.49	4.01	1.23	4.86	4.17	1.28	5.22	4.33	1.34	5.67	4.54	1.41	5.94	4.66	1.45	6.29	5.10	1.50	6.77	5.70	1.58
30	4.34	3.81	1.30	4.66	4.00	1.35	4.98	4.19	1.40	5.37	4.44	1.46	5.61	4.58	1.50	5.95	4.95	1.55	6.42	5.47	1.62
35	4.19	3.62	1.36	4.46	3.84	1.41	4.73	4.06	1.45	5.07	4.34	1.51	5.28	4.50	1.54	5.61	4.81	1.59	6.07	5.24	1.65
41	3.75	3.11	1.43	4.02	3.33	1.48	4.29	3.55	1.52	4.63	3.83	1.58	4.83	3.99	1.62	5.13	4.24	1.67	5.54	4.59	1.73
46	3.18	2.53	1.46	3.43	2.72	1.50	3.67	2.91	1.55	3.97	3.15	1.61	4.15	3.30	1.64	4.40	3.49	1.69	4.75	3.77	1.76
48	3.10	2.46	1.47	3.34	2.65	1.51	3.58	2.84	1.56	3.87	3.08	1.62	4.05	3.22	1.65	4.29	3.41	1.70	4.63	3.68	1.78

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-24ISW.ATTGLCP (S3-Q24K231A.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	5.44	4.89	1.34	5.93	5.02	1.42	6.42	5.16	1.50	7.04	5.33	1.59	7.41	5.44	1.65	7.82	6.04	1.72	8.39	6.86	1.81
20	5.41	4.86	1.38	5.88	5.01	1.46	6.36	5.16	1.53	6.96	5.35	1.62	7.32	5.47	1.68	7.73	6.05	1.75	8.30	6.85	1.84
25	5.27	4.66	1.47	5.70	4.85	1.54	6.13	5.04	1.60	6.66	5.28	1.69	6.98	5.42	1.74	7.39	5.93	1.80	7.95	6.63	1.89
30	5.14	4.47	1.55	5.51	4.70	1.61	5.89	4.92	1.67	6.36	5.21	1.75	6.64	5.38	1.79	7.04	5.82	1.85	7.60	6.42	1.94
35	5.00	4.29	1.64	5.33	4.55	1.69	5.65	4.81	1.74	6.06	5.14	1.81	6.30	5.34	1.85	6.70	5.70	1.91	7.26	6.21	1.99
41	4.39	3.60	1.73	4.70	3.86	1.78	5.02	4.11	1.84	5.41	4.43	1.91	5.65	4.62	1.95	5.99	4.91	2.01	6.47	5.31	2.09
46	3.62	2.84	1.76	3.90	3.05	1.82	4.17	3.27	1.88	4.52	3.54	1.95	4.73	3.70	1.99	5.01	3.92	2.05	5.40	4.23	2.13
48	3.53	2.76	1.78	3.80	2.98	1.83	4.07	3.19	1.89	4.41	3.45	1.96	4.61	3.61	2.00	4.89	3.83	2.07	5.27	4.13	2.15

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-18ISU.ATTGLCP (S3-Q18KL3WG.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	4.12	4.12	1.29	4.49	4.49	1.36	4.87	4.87	1.43	5.33	5.33	1.53	5.62	5.62	1.58	5.93	5.93	1.65	6.36	6.36	1.74
20	4.10	4.10	1.32	4.46	4.46	1.39	4.82	4.82	1.47	5.27	5.27	1.56	5.54	5.54	1.61	5.86	5.86	1.67	6.29	6.29	1.76
25	4.12	4.12	1.34	4.46	4.46	1.40	4.79	4.79	1.46	5.21	5.21	1.54	5.46	5.46	1.59	5.78	5.78	1.65	6.22	6.22	1.73
30	4.16	4.16	1.36	4.46	4.46	1.41	4.76	4.76	1.46	5.14	5.14	1.52	5.37	5.37	1.56	5.70	5.70	1.62	6.15	6.15	1.69
35	4.19	4.19	1.36	4.46	4.46	1.41	4.74	4.74	1.45	5.08	5.08	1.51	5.28	5.28	1.54	5.62	5.62	1.59	6.08	6.08	1.65
41	3.75	3.75	1.41	4.02	4.02	1.45	4.29	4.29	1.50	4.63	4.63	1.56	4.83	4.83	1.59	5.13	5.13	1.64	5.53	5.53	1.70
46	3.18	3.18	1.41	3.42	3.42	1.45	3.66	3.66	1.50	3.96	3.96	1.55	4.14	4.14	1.59	4.39	4.39	1.64	4.74	4.74	1.70
48	3.10	3.10	1.42	3.33	3.33	1.46	3.57	3.57	1.51	3.86	3.86	1.57	4.04	4.04	1.60	4.29	4.29	1.65	4.63	4.63	1.72

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-09ISU.ATTGLCP (S3-Q09JA3WG.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	2.23	2.23	0.65	2.43	2.43	0.69	2.63	2.58	0.73	2.88	2.67	0.78	3.04	2.72	0.81	3.20	3.02	0.84	3.44	3.43	0.88
20	2.21	2.21	0.67	2.41	2.41	0.71	2.61	2.58	0.75	2.85	2.68	0.79	3.00	2.73	0.82	3.17	3.02	0.85	3.40	3.40	0.90
25	2.19	2.19	0.68	2.37	2.37	0.71	2.54	2.48	0.74	2.77	2.60	0.78	2.90	2.67	0.80	3.07	2.92	0.83	3.30	3.27	0.87
30	2.17	2.17	0.68	2.32	2.28	0.71	2.48	2.39	0.73	2.68	2.53	0.77	2.80	2.61	0.79	2.97	2.82	0.81	3.21	3.11	0.85
35	2.14	2.05	0.68	2.28	2.17	0.70	2.42	2.30	0.73	2.60	2.46	0.75	2.70	2.55	0.77	2.87	2.73	0.79	3.11	2.97	0.83
41	1.96	1.78	0.77	2.10	1.91	0.79	2.24	2.03	0.82	2.41	2.19	0.85	2.52	2.28	0.87	2.67	2.43	0.89	2.89	2.62	0.93
46	1.69	1.46	0.83	1.82	1.57	0.86	1.95	1.68	0.88	2.11	1.82	0.92	2.21	1.91	0.94	2.34	2.02	0.96	2.53	2.18	1.00
48	1.65	1.42	0.84	1.78	1.53	0.86	1.90	1.64	0.89	2.06	1.78	0.92	2.15	1.86	0.94	2.29	1.97	0.97	2.47	2.12	1.01

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

8. Capacity Tables

HS-12ISU.ATTGLCP (S3-Q12JA3WG.ATTGLCP)

Outdoor Air Temperature	Indoor Air Temperature : °C DB / °C WB																				
	18 / 12			20 / 14			22 / 16			25 / 18			27 / 19			29 / 19			32 / 23		
°C DB	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI	TC	SHC	PI
18	2.23	2.23	0.65	2.43	2.43	0.69	2.63	2.58	0.73	2.88	2.67	0.78	3.04	2.72	0.81	3.20	3.02	0.84	3.44	3.43	0.88
20	2.21	2.21	0.67	2.41	2.41	0.71	2.61	2.58	0.75	2.85	2.68	0.79	3.00	2.73	0.82	3.17	3.02	0.85	3.40	3.40	0.90
25	2.40	2.40	0.75	2.59	2.59	0.79	2.78	2.72	0.82	3.03	2.85	0.86	3.17	2.93	0.89	3.36	3.20	0.92	3.61	3.58	0.97
30	2.59	2.59	0.83	2.78	2.73	0.86	2.97	2.86	0.90	3.20	3.03	0.94	3.35	3.13	0.96	3.55	3.38	0.99	3.83	3.73	1.04
35	2.80	2.67	0.91	2.98	2.83	0.94	3.16	3.00	0.97	3.38	3.20	1.01	3.52	3.32	1.03	3.74	3.55	1.06	4.05	3.87	1.11
41	2.27	2.08	0.88	2.44	2.23	0.91	2.60	2.37	0.94	2.80	2.55	0.98	2.93	2.66	1.00	3.10	2.83	1.03	3.35	3.06	1.07
46	1.69	1.46	0.83	1.82	1.57	0.86	1.95	1.68	0.88	2.11	1.82	0.92	2.21	1.91	0.94	2.34	2.02	0.96	2.53	2.18	1.00
48	1.65	1.42	0.84	1.78	1.53	0.86	1.90	1.64	0.89	2.06	1.78	0.92	2.15	1.86	0.94	2.29	1.97	0.97	2.47	2.12	1.01

Symbol

DB : Dry Bulb Temperature [°C]
 WB : Wet Bulb Temperature [°C]
 TC : Total Capacity [kW]
 SHC : Sensible Heating Capacity [kW]
 PI : Power Input [kW]
 (Comp.+ Indoor Fan Motor + Outdoor Fan Motor)

Note

1. All capacities are net, evaporator fan motor heat is deducted.
2. Direct interpolation is permissible. Do not extrapolate.
3. Capacities are based on the following conditions.
 - Interconnecting Piping Length 7.5 m (24.6 ft.)
 - Level Difference of Zero.

9. Capacity Coefficient Factor

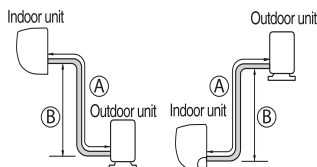
9.1 Capacity Change Rate (%)

Model	Refrigerant Pipe Length											
	m	5	7.5	10	15	20	25	30	35	40	45	50
	ft	16.4	24.6	32.8	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
HS-09APC.ATTGLCP (S3-Q09JA1YB.ATTGLCP)	Cooling	100	100	99.7	99.2	98.7	-	-	-	-	-	-
HS-09IPC.ATTGLCP (S3-Q09JA2PB.ATTGLCP)	Cooling	100	100	99.7	99.2	98.7	-	-	-	-	-	-
HS-12IPA.ATTGLCP (S3-Q12JA2PA.ATTGLCP)	Cooling	100	100	99.6	98.8	98.0	-	-	-	-	-	-
HS-12IPC.ATTGLCP (S3-Q12JA2PE.ATTGLCP)	Cooling	100	100	99.6	98.8	98.0	-	-	-	-	-	-
HS-18IPA.ATTGLCP (S3-Q18KL2PA.ATTGLCP)	Cooling	100	100	99.9	99.6	99.3	99.0	98.7	-	-	-	-
HS-24IPA.ATTGLCP (S3-Q24K22PA.ATTGLCP)	Cooling	100	100	99.4	98.3	97.1	96.0	94.8	-	-	-	-
HS-09IPA.ATTGLCP (S3-Q09JA2PA.ATTGLCP)	Cooling	100	100	99.7	99.2	98.7	-	-	-	-	-	-
HS-18ISW.ATTGLCP (S3-Q18KL31A.ATTGLCP)	Cooling	100	100	99.9	99.6	99.3	99.0	98.7	-	-	-	-
HS-24ISW.ATTGLCP (S3-Q24K231A.ATTGLCP)	Cooling	100	100	99.4	98.3	97.1	96.0	94.8	-	-	-	-
HS-18ISU.ATTGLCP (S3-Q18KL3WG.ATTGLCP)	Cooling	100	100	99.9	99.6	99.3	99.0	98.7	-	-	-	-
HS-09ISU.ATTGLCP (S3-Q09JA3WG.ATTGLCP)	Cooling	100	100	99.7	99.2	98.7	-	-	-	-	-	-
HS-12ISU.ATTGLCP (S3-Q12JA3WG.ATTGLCP)	Cooling	100	100	99.6	98.8	98.0	-	-	-	-	-	-

9. Capacity Coefficient Factor

9.2 Pipe Size, Length and Elevation

Model	Pipe Size				Standard Pipe Length [m (ft.)]	Min. / Max. Pipe Length A [m (ft.)]	Max. Elevation B [m (ft.)]	Additional Refrigerant [g/m (oz./ft.)]	No Charge Pipe Length [m (ft.)]
	Gas		Liquid						
	mm	inch	mm	inch					
HS-09APC.ATTGLCP (S3-Q09JA1YB.ATTGLCP)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	15 (49.2)	15 (0.16)	12.5 (41)
HS-09IPC.ATTGLCP (S3-Q09JA2PB.ATTGLCP)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	15 (49.2)	15 (0.16)	12.5 (41)
HS-12IPA.ATTGLCP (S3-Q12JA2PA.ATTGLCP)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	15 (49.2)	15 (0.16)	12.5 (41)
HS-12IPC.ATTGLCP (S3-Q12JA2PE.ATTGLCP)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	15 (49.2)	15 (0.16)	12.5 (41)
HS-18IPA.ATTGLCP (S3-Q18KL2PA.ATTGLCP)	ø 12.7	ø 1/2	ø 6.35	ø 1/4	7.5 (24.6)	3 / 30 (9.8 / 98.4)	20 (65.6)	15 (0.16)	12.5 (41)
HS-24IPA.ATTGLCP (S3-Q24K22PA.ATTGLCP)	ø 15.88	ø 5/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 30 (9.8 / 98.4)	20 (65.6)	20 (0.22)	12.5 (41)
HS-09IPA.ATTGLCP (S3-Q09JA2PA.ATTGLCP)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	15 (49.2)	15 (0.16)	12.5 (41)
HS-18ISW.ATTGLCP (S3-Q18KL31A.ATTGLCP)	ø 12.7	ø 1/2	ø 6.35	ø 1/4	7.5 (24.6)	3 / 30 (9.8 / 98.4)	20 (65.6)	15 (0.16)	12.5 (41)
HS-24ISW.ATTGLCP (S3-Q24K231A.ATTGLCP)	ø 15.88	ø 5/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 30 (9.8 / 98.4)	20 (65.6)	20 (0.22)	12.5 (41)
HS-18ISU.ATTGLCP (S3-Q18KL3WG.ATTGLCP)	ø 12.7	ø 1/2	ø 6.35	ø 1/4	7.5 (24.6)	3 / 30 (9.8 / 98.4)	20 (65.6)	15 (0.16)	12.5 (41)
HS-09ISU.ATTGLCP (S3-Q09JA3WG.ATTGLCP)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	15 (49.2)	15 (0.16)	7.5 (24.6)
HS-12ISU.ATTGLCP (S3-Q12JA3WG.ATTGLCP)	ø 9.52	ø 3/8	ø 6.35	ø 1/4	7.5 (24.6)	3 / 20 (9.8 / 65.6)	15 (49.2)	15 (0.16)	7.5 (24.6)



⚠ WARNING

- It may cause reliability, performance, noise, and vibration problem, if piping limitations are not met. Keep minimum piping length by making loops, although indoor unit and outdoor unit are close.

9. Capacity Coefficient Factor

9.3 Additional Refrigerant Charge

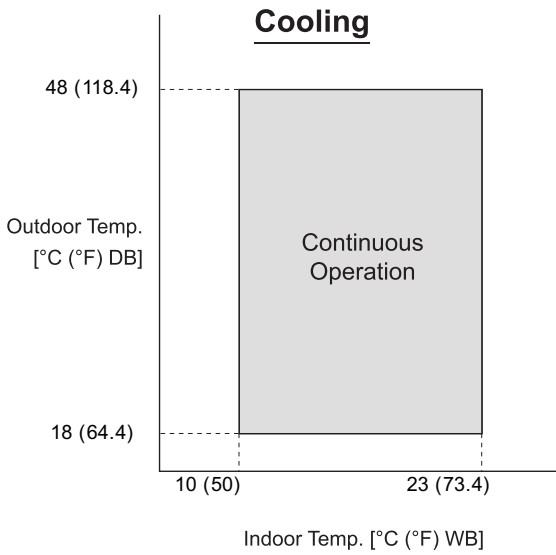
Model	Refrigerant Pipe Length												
	m	5	7.5	10	12.5	15	20	25	30	35	40	45	50
	ft	16.4	24.6	32.8	41.0	49.2	65.6	82.0	98.4	114.8	131.2	147.6	164.0
HS-09APC.ATTGLCP (S3-Q09JA1YB.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	-	-	-	-	-	-
HS-09IPC.ATTGLCP (S3-Q09JA2PB.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	-	-	-	-	-	-
HS-12IPA.ATTGLCP (S3-Q12JA2PA.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	-	-	-	-	-	-
HS-12IPC.ATTGLCP (S3-Q12JA2PE.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	-	-	-	-	-	-
HS-18IPA.ATTGLCP (S3-Q18KL2PA.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	187.5 (6.6)	262.5 (9.2)	-	-	-	-
HS-24IPA.ATTGLCP (S3-Q24K22PA.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	50 (1.8)	150 (5.4)	250 (9.0)	350 (12.6)	-	-	-	-
HS-09IPA.ATTGLCP (S3-Q09JA2PA.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	-	-	-	-	-	-
HS-18ISW.ATTGLCP (S3-Q18KL31A.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	187.5 (6.6)	262.5 (9.2)	-	-	-	-
HS-24ISW.ATTGLCP (S3-Q24K231A.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	50 (1.8)	150 (5.4)	250 (9.0)	350 (12.6)	-	-	-	-
HS-18ISU.ATTGLCP (S3-Q18KL3WG.ATTGLCP)	Additional Charge [g (oz.)]	0	0	0	0	37.5 (1.3)	112.5 (3.9)	187.5 (6.6)	262.5 (9.2)	-	-	-	-
HS-09ISU.ATTGLCP (S3-Q09JA3WG.ATTGLCP)	Additional Charge [g (oz.)]	0	0	37.5 (1.3)	75 (2.6)	112.5 (3.9)	187.5 (6.6)	-	-	-	-	-	-
HS-12ISU.ATTGLCP (S3-Q12JA3WG.ATTGLCP)	Additional Charge [g (oz.)]	0	0	37.5 (1.3)	75 (2.6)	112.5 (3.9)	187.5 (6.6)	-	-	-	-	-	-

Note

- Capacity is based on standard length and maximum allowance length is on the basis of reliability.
- Equivalent Pipe Length = Actual Pipe Length + Number of Bends x 0.3
- Calculation : X g (oz.) = [(Refrigerant Pipe Length) - (No Charge Pipe Length)] × (Additional Refrigerant)
- There is no need to charge refrigerant till no charge pipe length based on reliability

10. Operation Range

HS-09APC.ATTGLCP (S3-Q09JA1YB.ATTGLCP)

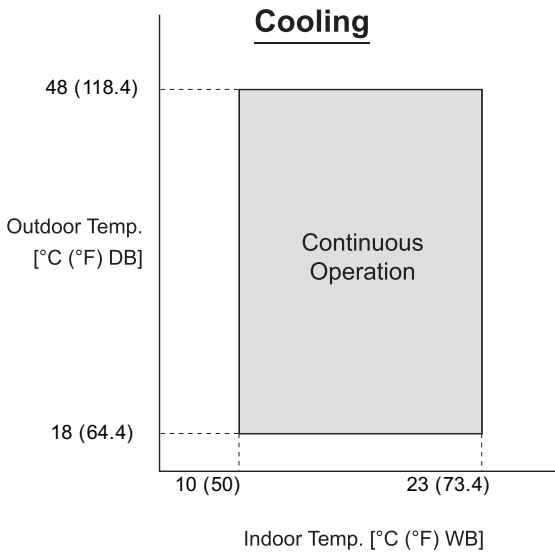


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-09IPC.ATTGLCP (S3-Q09JA2PB.ATTGLCP)

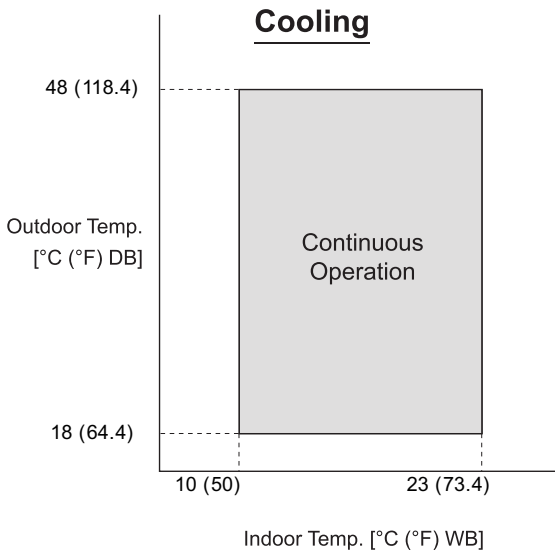


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-12IPA.ATTGLCP (S3-Q12JA2PA.ATTGLCP)

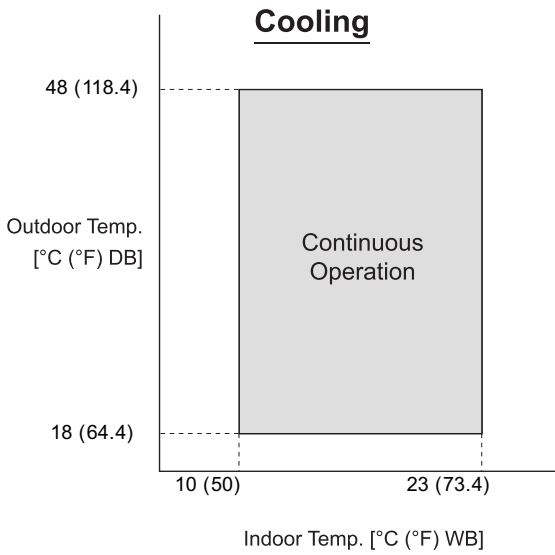


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-12IPC.ATTGLCP (S3-Q12JA2PE.ATTGLCP)

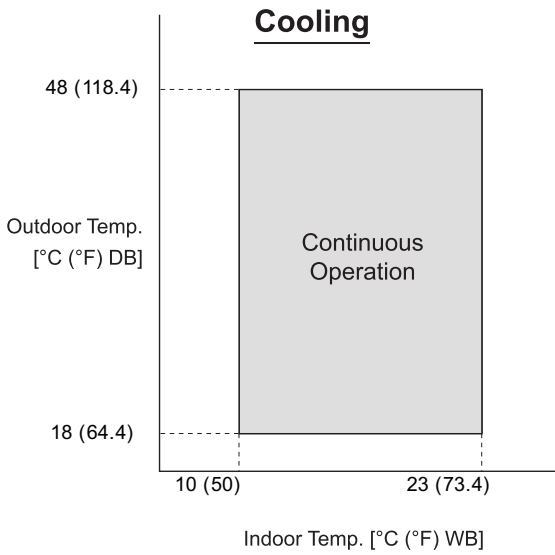


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-18IPA.ATTGLCP (S3-Q18KL2PA.ATTGLCP)

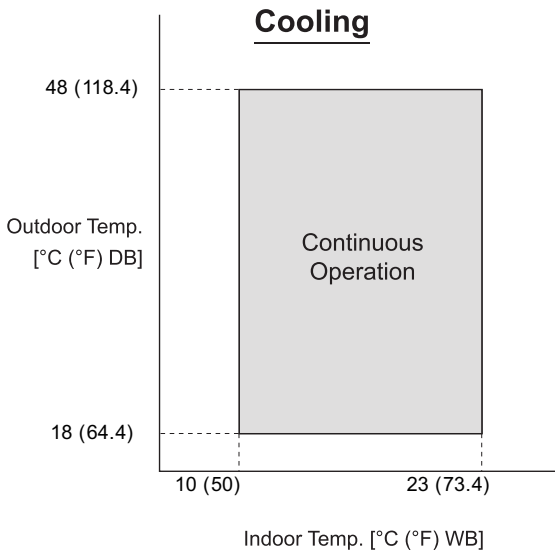


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-24IPA.ATTGLCP (S3-Q24K22PA.ATTGLCP)

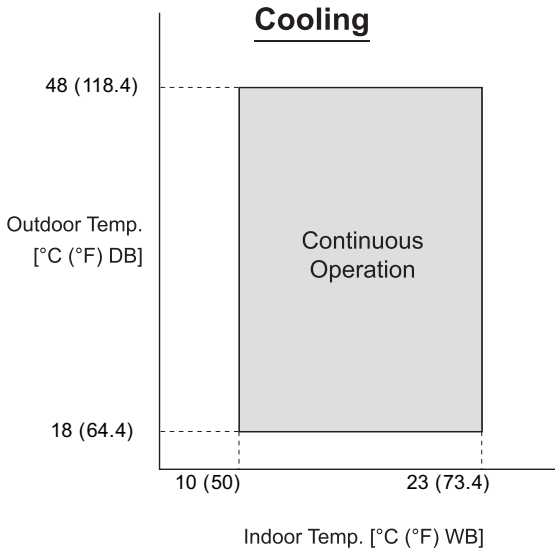


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-09IPA.ATTGLCP (S3-Q09JA2PA.ATTGLCP)

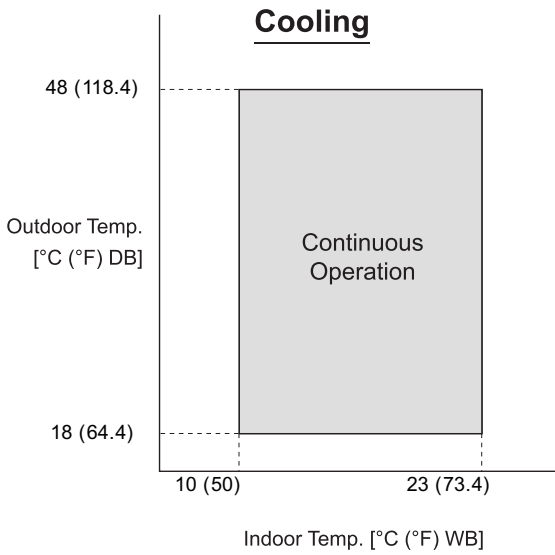


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-18ISW.ATTGLCP (S3-Q18KL31A.ATTGLCP)

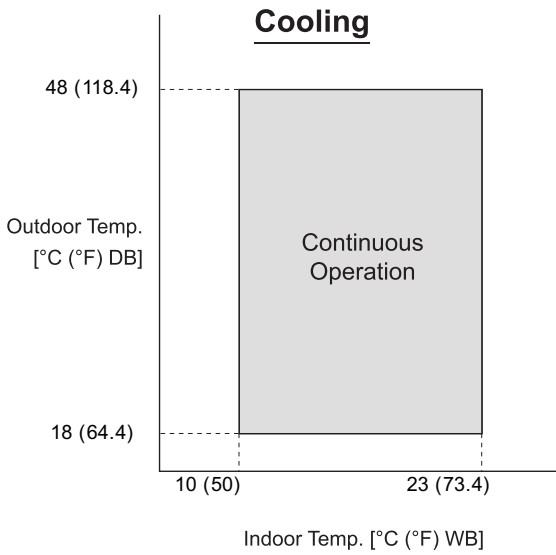


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-24ISW.ATTGLCP (S3-Q24K231A.ATTGLCP)

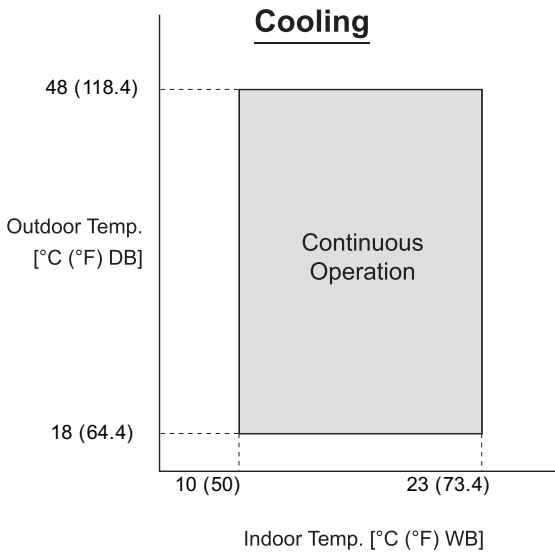


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-18ISU.ATTGLCP (S3-Q18KL3WG.ATTGLCP)

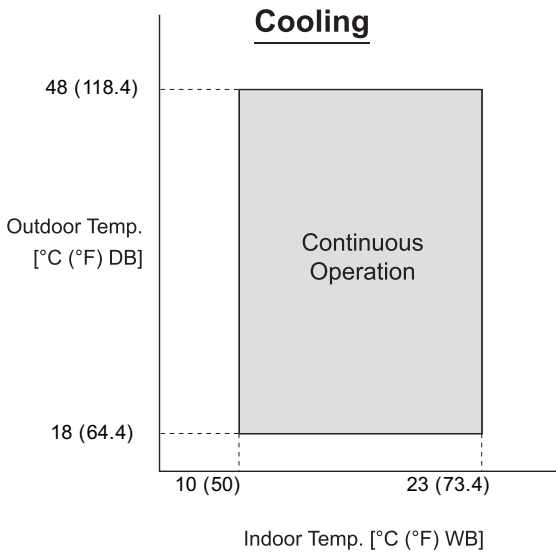


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-09ISU.ATTGLCP (S3-Q09JA3WG.ATTGLCP)

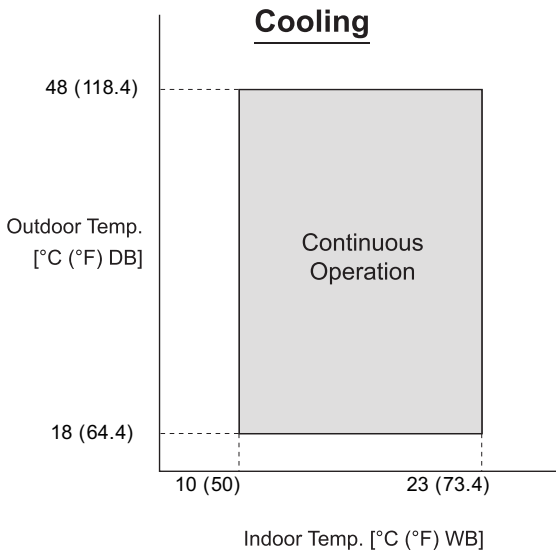


Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

10. Operation Range

HS-12ISU.ATTGLCP (S3-Q12JA3WG.ATTGLCP)



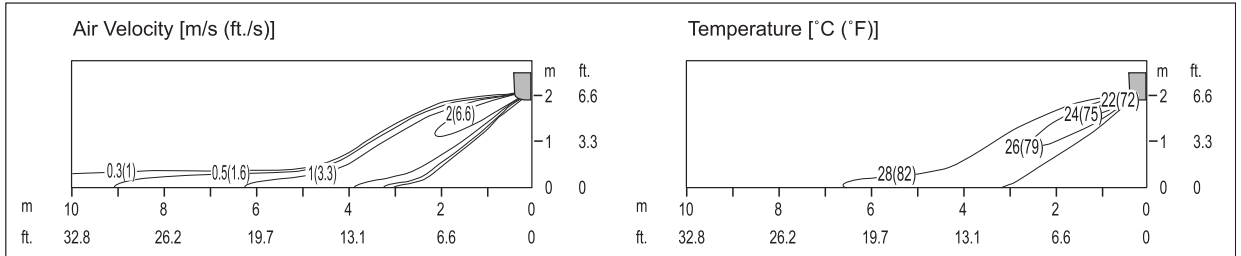
Note

- The figures are based on the following conditions :
- Equivalent Piping Length : 7.5 m (24.6 ft.)
 - Level Difference : 0 m (0 ft.)

11. Air Flow and Temperature Distributions (Reference Data)

HS-09APC.ATTGLCP (S3-Q09JA1YB.ATTGLCP)

Cooling

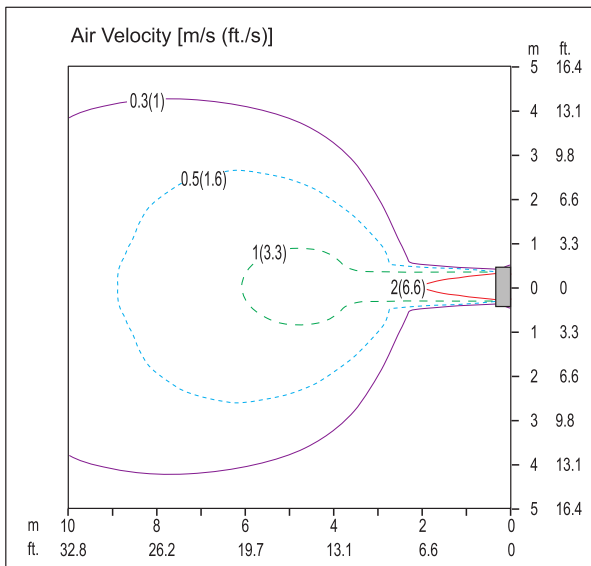


Side View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



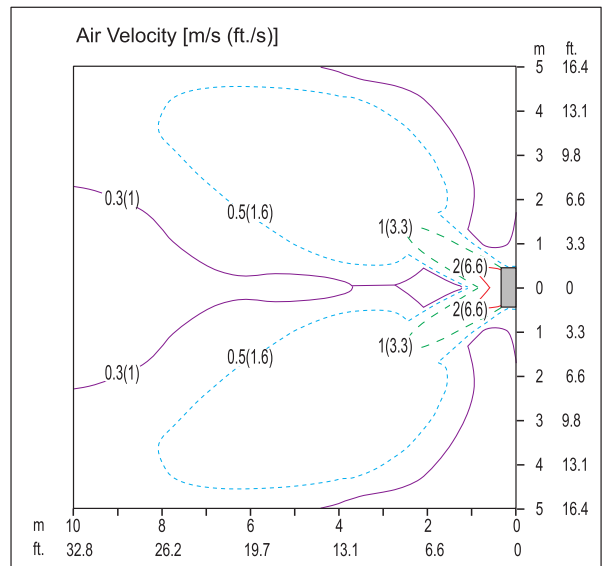
Top View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 11.5 m (37.7 ft.)



Top View

Discharge Angle : 35° (From the floor ▾)

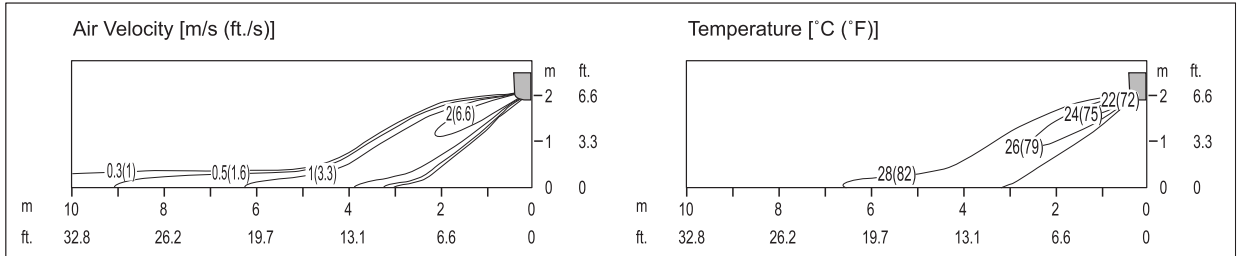
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-09IPC.ATTGLCP (S3-Q09JA2PB.ATTGLCP)

Cooling

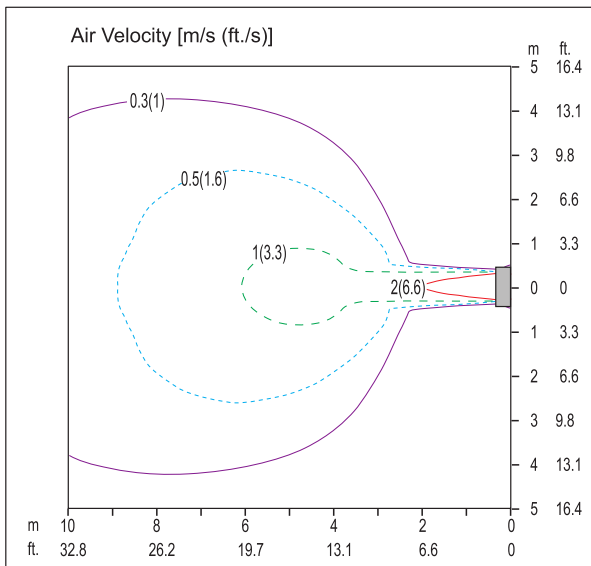


Side View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



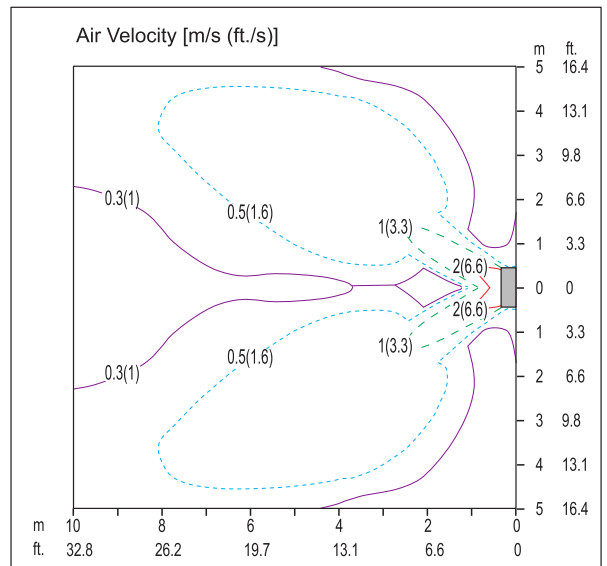
Top View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 11.5 m (37.7 ft.)



Top View

Discharge Angle : 35° (From the floor ▾)

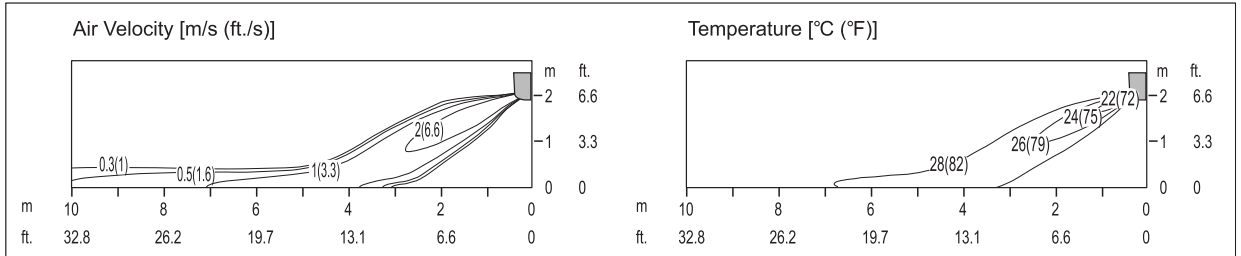
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-12IPA.ATTGLCP (S3-Q12JA2PA.ATTGLCP)

Cooling

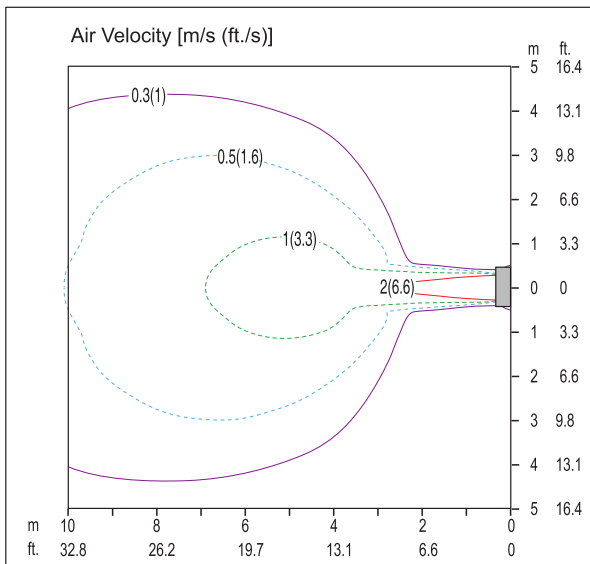


Side View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



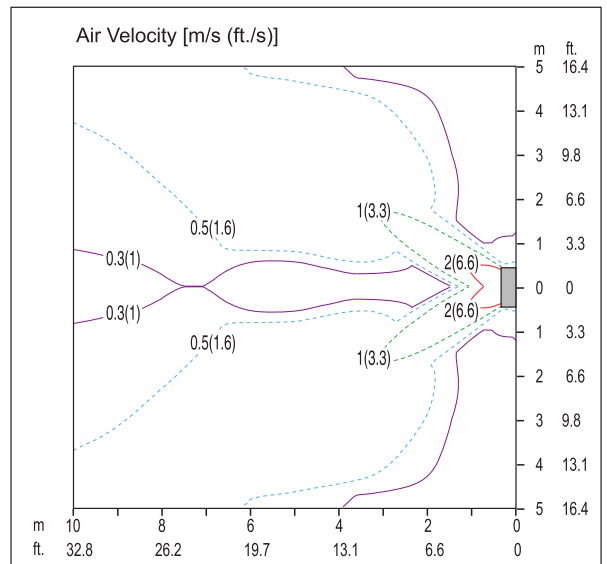
Top View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 13.0 m (42.7 ft.)



Top View

Discharge Angle : 35° (From the floor ▾)

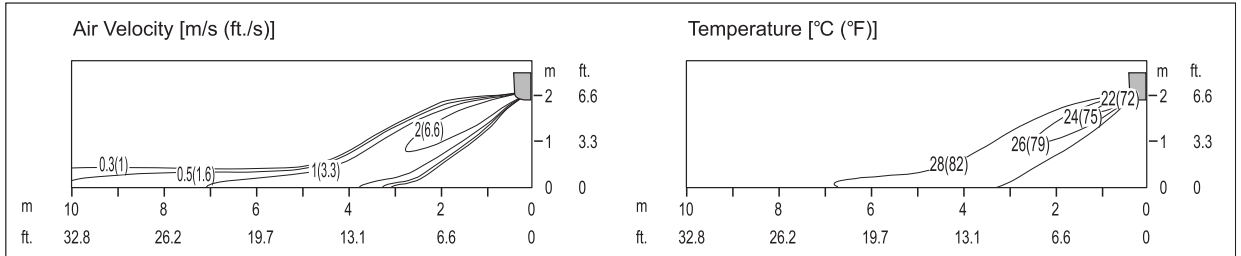
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-12IPC.ATTGLCP (S3-Q12JA2PE.ATTGLCP)

Cooling

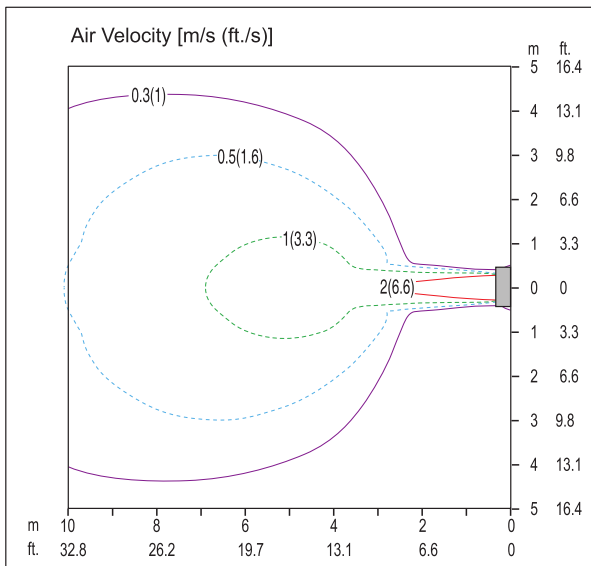


Side View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



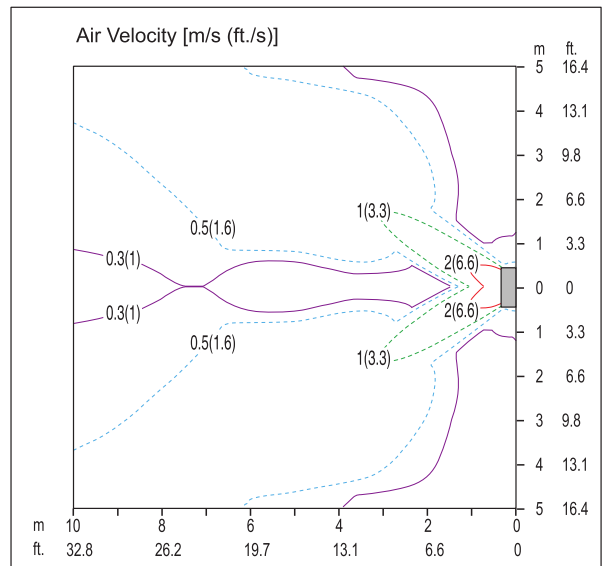
Top View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 13.0 m (42.7 ft.)



Top View

Discharge Angle : 35° (From the floor ▾)

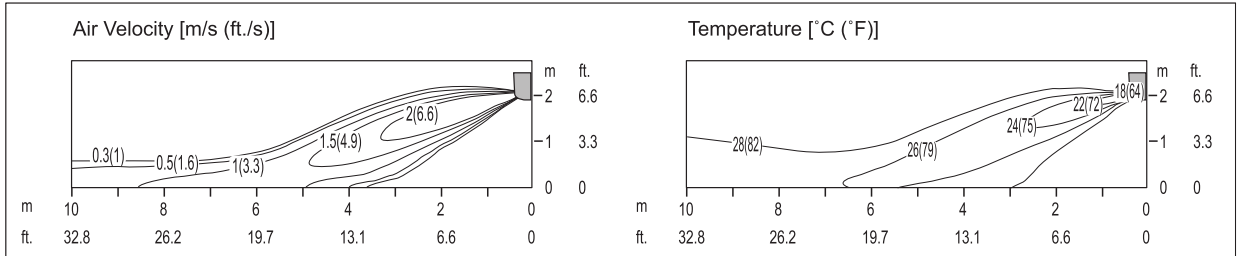
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-18IPA.ATTGLCP (S3-Q18KL2PA.ATTGLCP)

Cooling

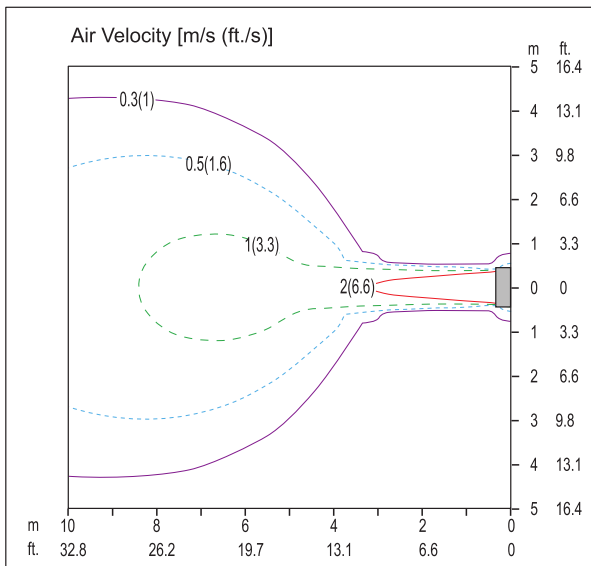


Side View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



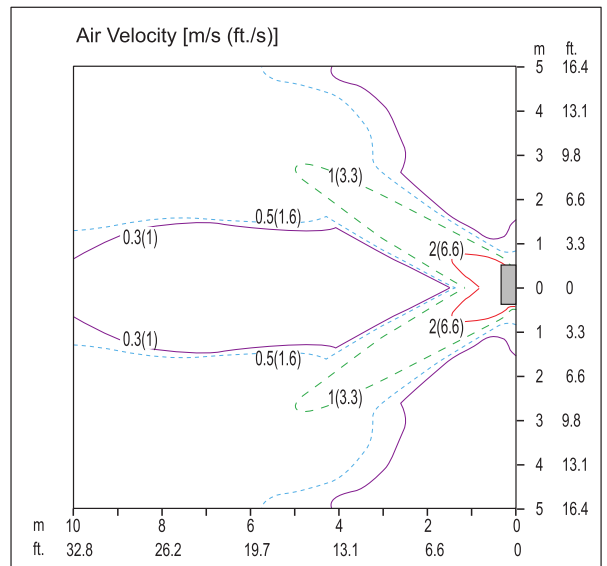
Top View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 15.7 m (51.5 ft.)



Top View

Discharge Angle : 25° (From the floor ▾)

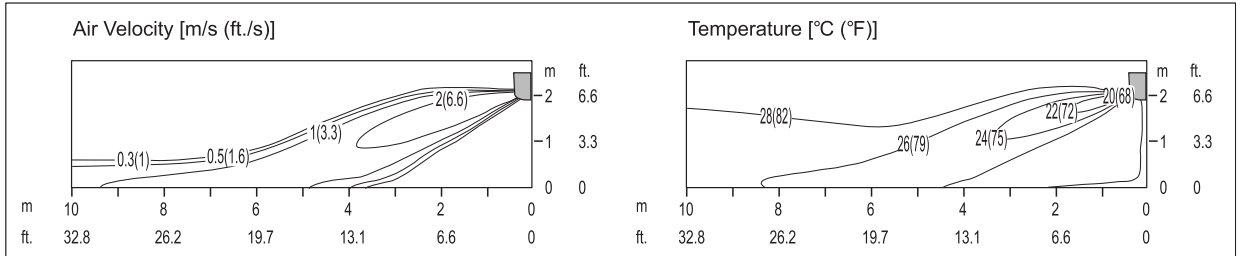
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-24IPA.ATTGLCP (S3-Q24K22PA.ATTGLCP)

Cooling

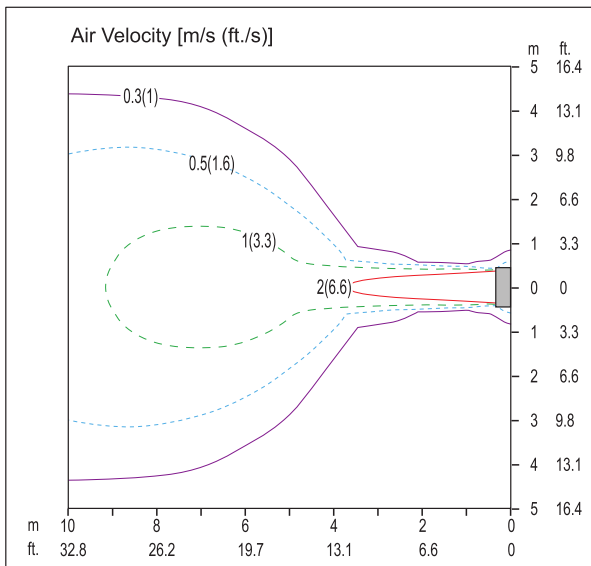


Side View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



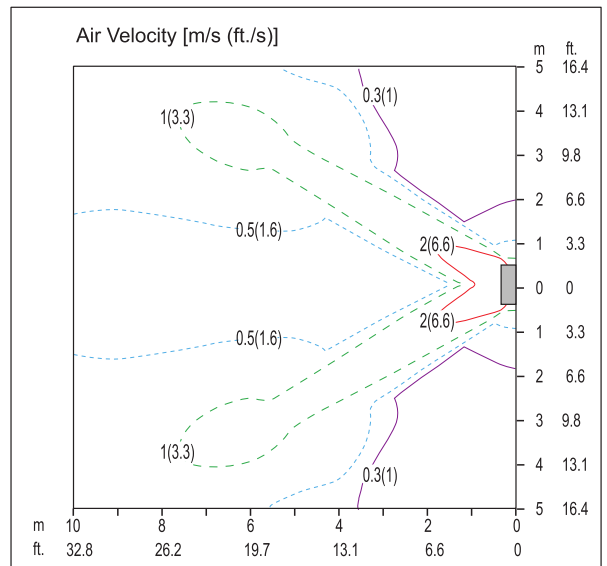
Top View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 16.5 m (54.1 ft.)



Top View

Discharge Angle : 25° (From the floor ▾)

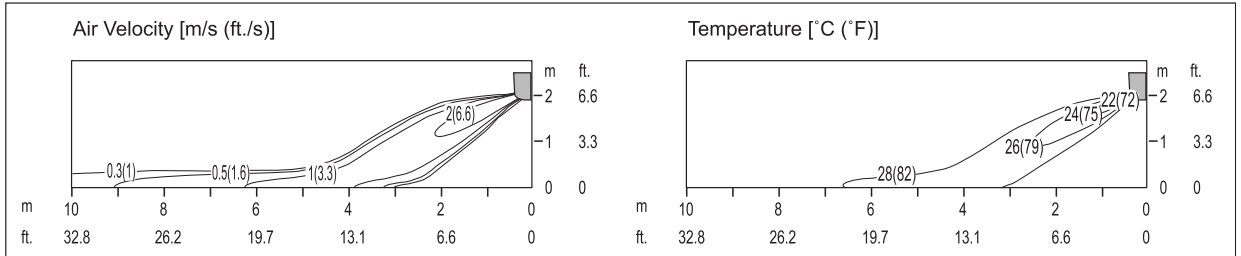
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-09IPA.ATTGLCP (S3-Q09JA2PA.ATTGLCP)

Cooling

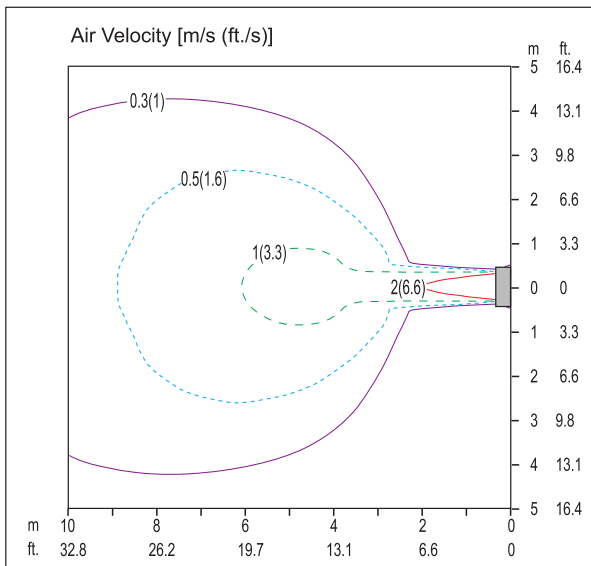


Side View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



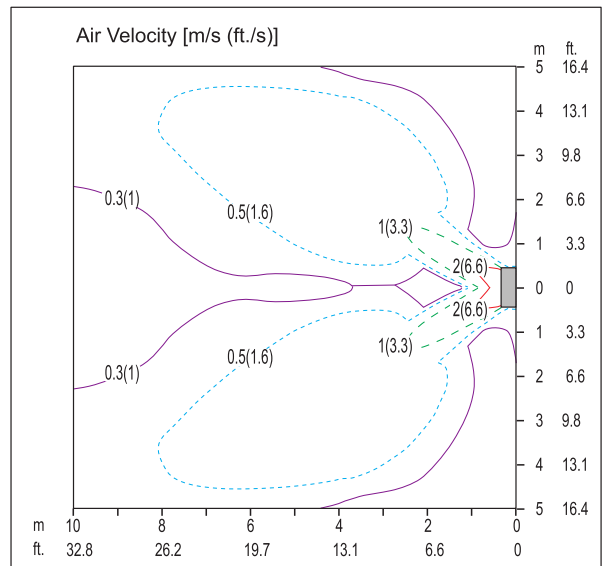
Top View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 11.5 m (37.7 ft.)



Top View

Discharge Angle : 35° (From the floor ▾)

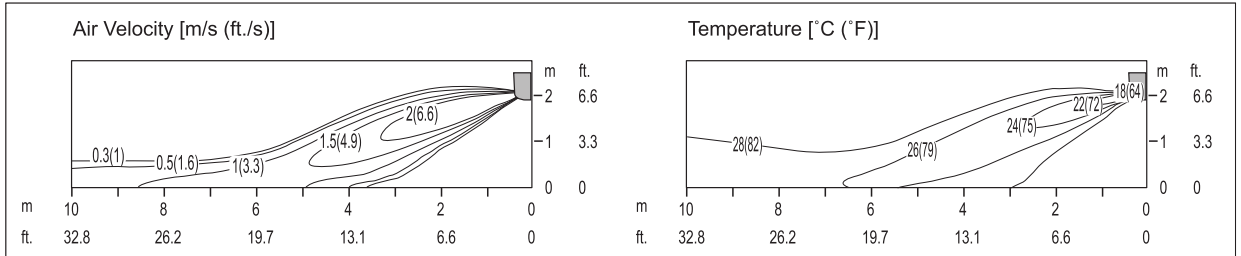
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-18ISW.ATTGLCP (S3-Q18KL31A.ATTGLCP)

Cooling

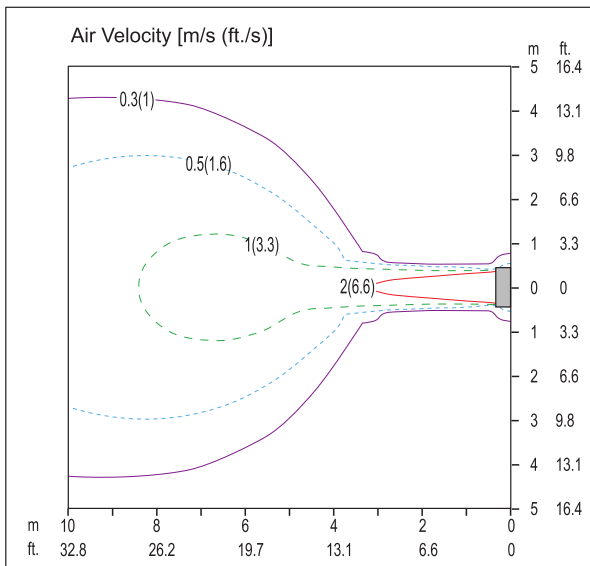


Side View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



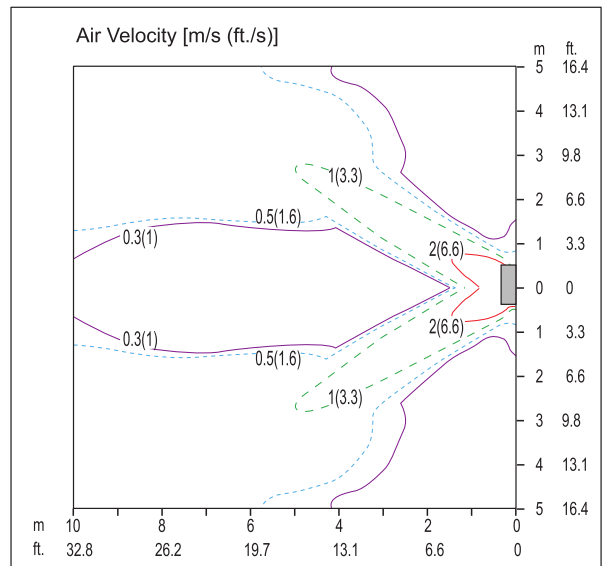
Top View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 15.7 m (51.5 ft.)



Top View

Discharge Angle : 25° (From the floor ▾)

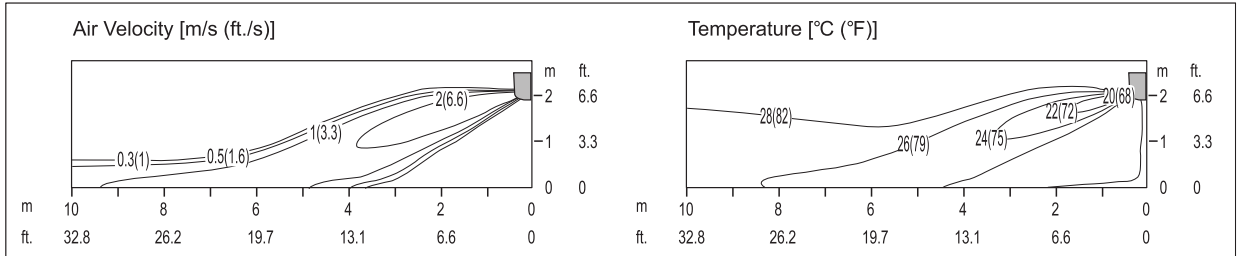
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-24ISW.ATTGLCP (S3-Q24K231A.ATTGLCP)

Cooling

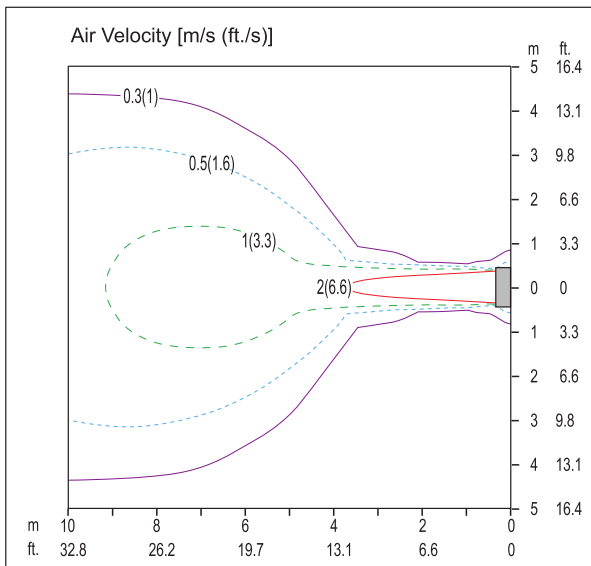


Side View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



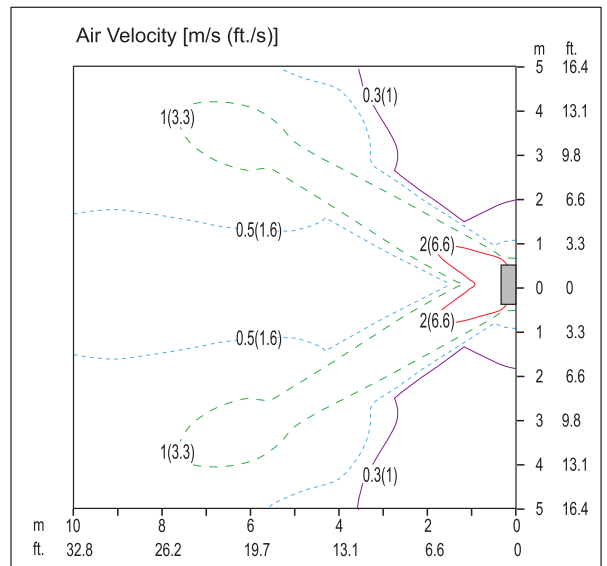
Top View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 16.5 m (54.1 ft.)



Top View

Discharge Angle : 25° (From the floor ▾)

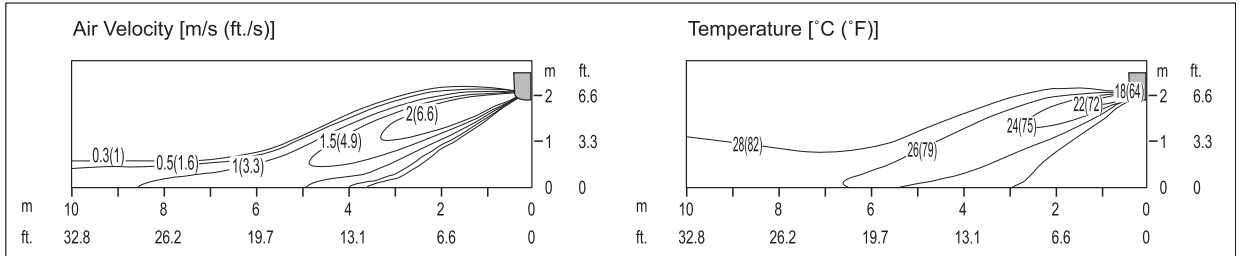
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-18ISU.ATTGLCP (S3-Q18KL3WG.ATTGLCP)

Cooling

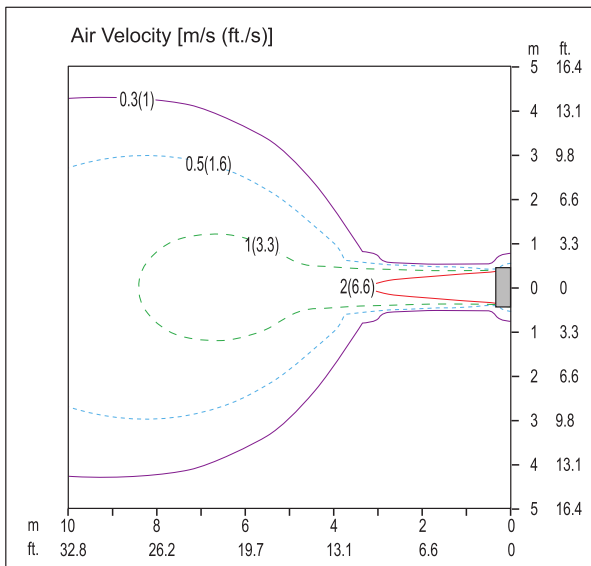


Side View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



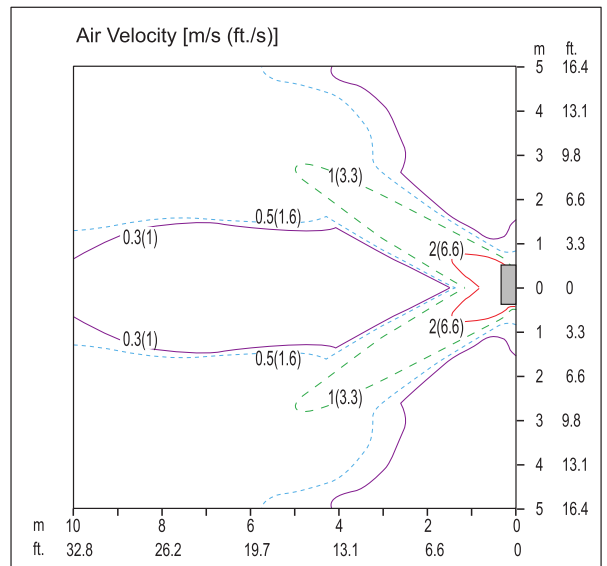
Top View

Discharge Angle : 25° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 15.7 m (51.5 ft.)



Top View

Discharge Angle : 25° (From the floor ▾)

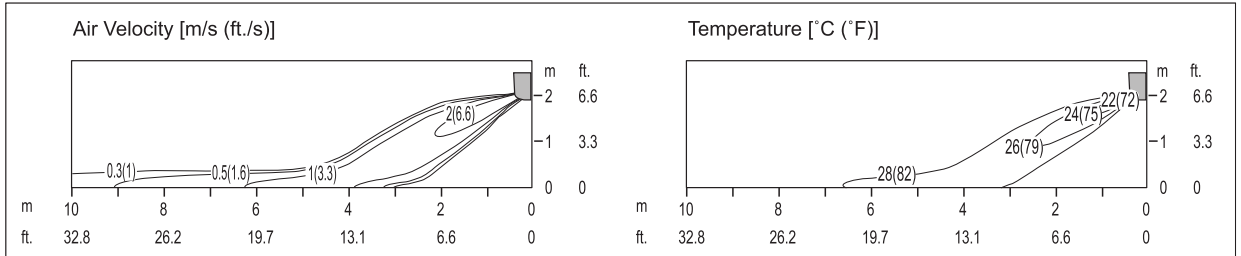
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-09ISU.ATTGLCP (S3-Q09JA3WG.ATTGLCP)

Cooling

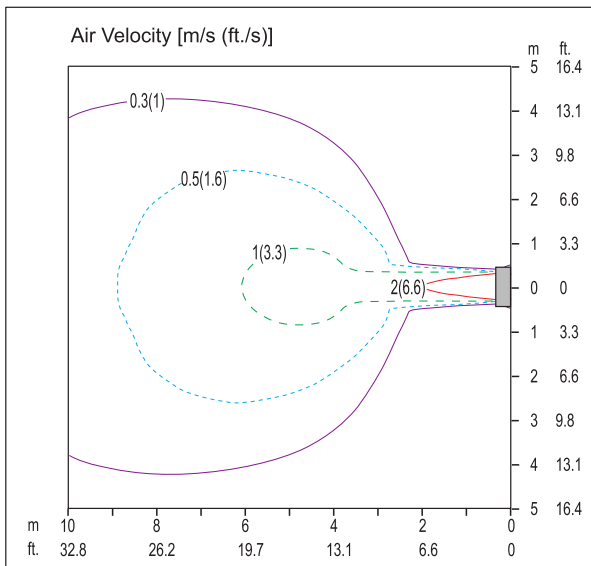


Side View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



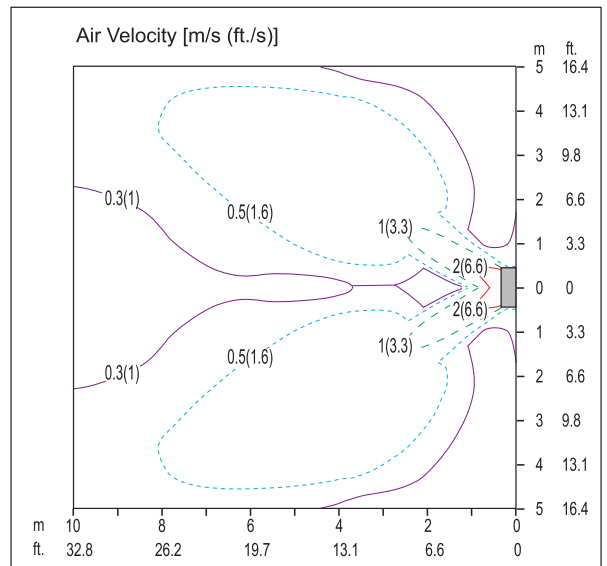
Top View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 11.5 m (37.7 ft.)



Top View

Discharge Angle : 35° (From the floor ▾)

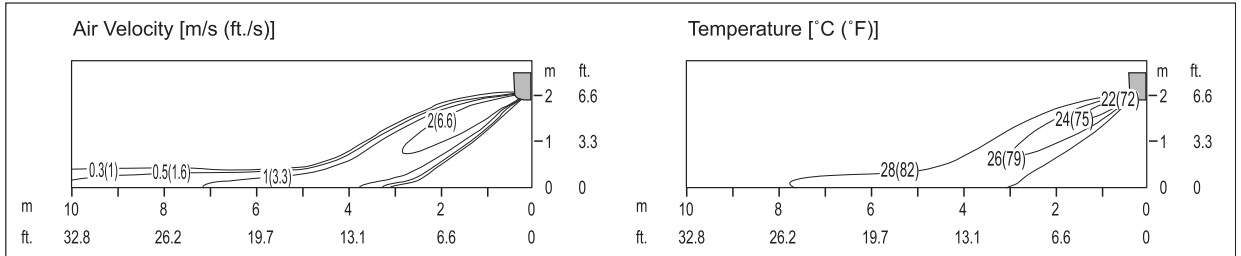
Vertical Louver : Left & Right

Fan Speed : Power

11. Air Flow and Temperature Distributions (Reference Data)

HS-12ISU.ATTGLCP (S3-Q12JA3WG.ATTGLCP)

Cooling

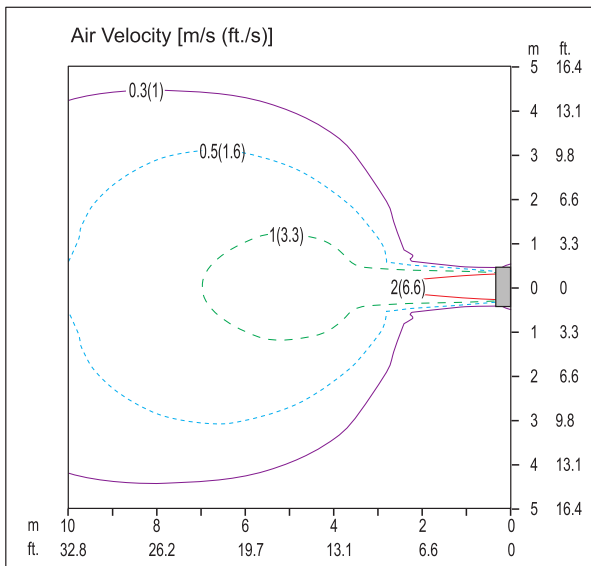


Side View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power



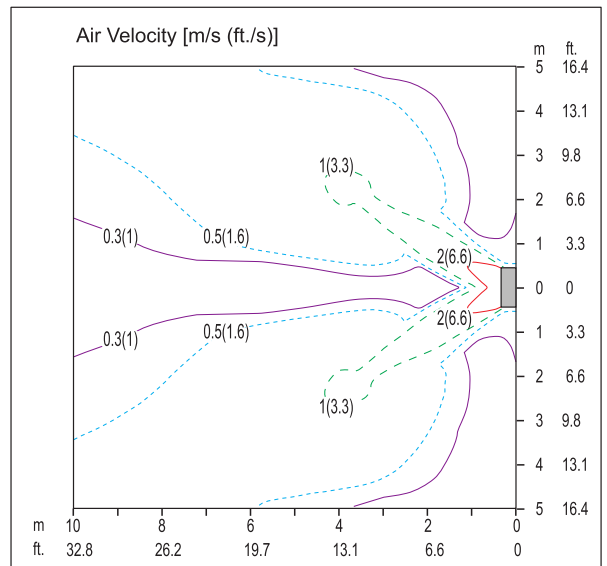
Top View

Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Center

Fan Speed : Power

Air Speed 0.3 m/s (1 ft./s) Range : 13.0 m (42.7 ft.)



Top View

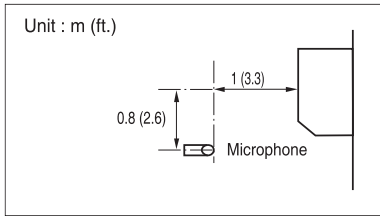
Discharge Angle : 35° (From the floor ▾)

Vertical Louver : Left & Right

Fan Speed : Power

12. Sound Levels (Reference Data)

12.1 Sound Pressure Level (Indoor Unit)



Note

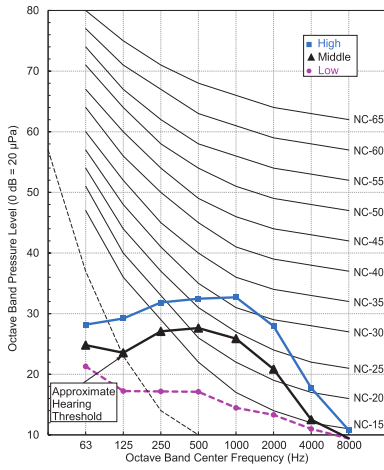
- Sound measured at 1 m (3.3 ft.) away from the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0 dB=20 μ Pa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
- Sound level is measured in an anechoic room and may be different according to the test condition or equipment.

Model	Sound Levels [dB (A)]					
	Cooling			Heating		
	H	M	L	H	M	L
HSN09APC.ATTGLCP (S3NQ09JA1YB.ATTGLCP)	39	33	27	-	-	-
HSN09IPC.ATTGLCP (S3NQ09JA2PB.ATTGLCP)	39	33	27	-	-	-
HSN12IPA.ATTGLCP (S3NQ12JA2PA.ATTGLCP)	41	35	27	-	-	-
HSN12IPC.ATTGLCP (S3NQ12JA2PE.ATTGLCP)	41	35	27	-	-	-
HSN18IPA.ATTGLCP (S3NQ18KL2PA.ATTGLCP)	45	40	37	-	-	-
HSN24IPA.ATTGLCP (S3NQ24K22PA.ATTGLCP)	47	41	37	-	-	-
HSN09IPA.ATTGLCP (S3NQ09JA2PA.ATTGLCP)	39	33	27	-	-	-
HSN18ISW.ATTGLCP (S3NQ18KL31A.ATTGLCP)	45	40	37	-	-	-
HSN24ISW.ATTGLCP (S3NQ24K231A.ATTGLCP)	47	41	37	-	-	-
HSN18ISU.ATTGLCP (S3NQ18KL3WG.ATTGLCP)	45	40	37	-	-	-
HSN09ISU.ATTGLCP (S3NQ09JA3WG.ATTGLCP)	39	33	27	-	-	-
HSN12ISU.ATTGLCP (S3NQ12JA3WG.ATTGLCP)	41	35	27	-	-	-

12. Sound Levels (Reference Data)

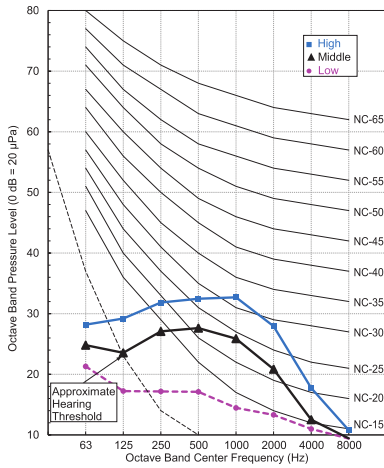
HSN09APC.ATTGLCP (S3NQ09JA1YB.ATTGLCP)

Cooling



HSN09IPC.ATTGLCP (S3NQ09JA2PB.ATTGLCP)

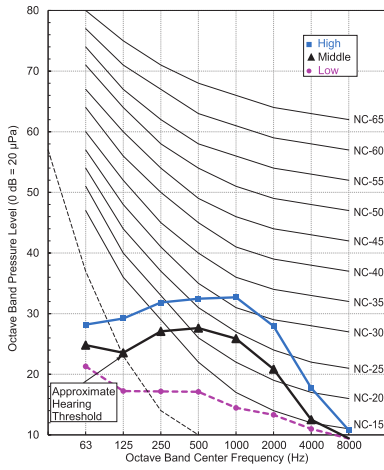
Cooling



12. Sound Levels (Reference Data)

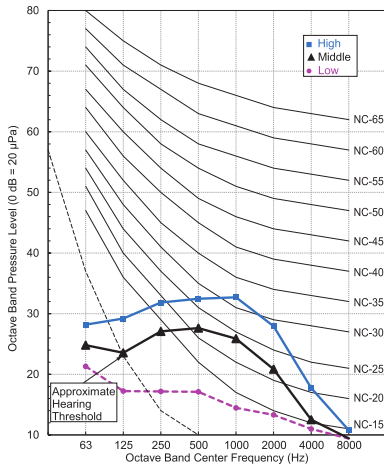
HSN12IPA.ATTGLCP (S3NQ12JA2PA.ATTGLCP)

Cooling



HSN12IPC.ATTGLCP (S3NQ12JA2PE.ATTGLCP)

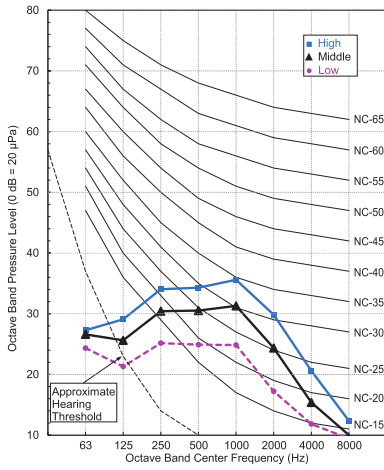
Cooling



12. Sound Levels (Reference Data)

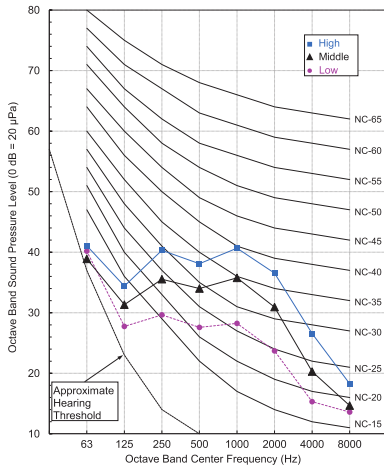
HSN18IPA.ATTGLCP (S3NQ18KL2PA.ATTGLCP)

Cooling



HSN24IPA.ATTGLCP (S3NQ24K22PA.ATTGLCP)

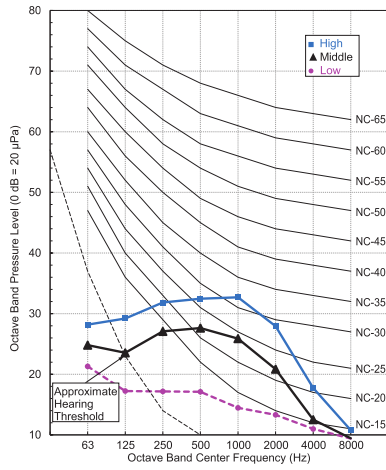
Cooling



12. Sound Levels (Reference Data)

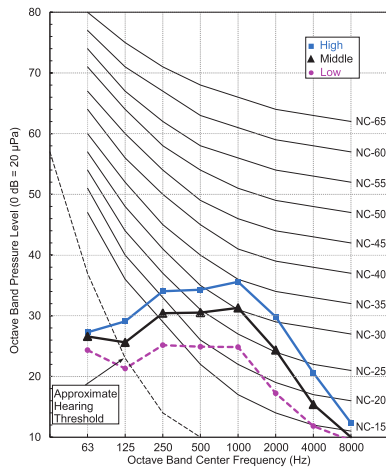
HSN09IPA.ATTGLCP (S3NQ09JA2PA.ATTGLCP)

Cooling



HSN18ISW.ATTGLCP (S3NQ18KL31A.ATTGLCP)

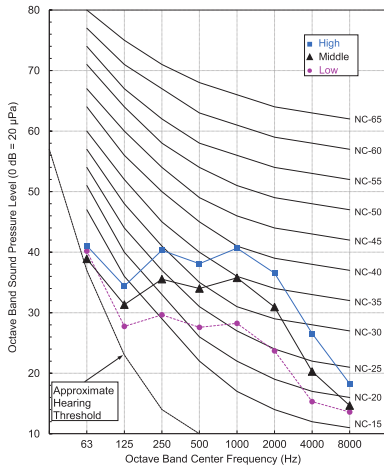
Cooling



12. Sound Levels (Reference Data)

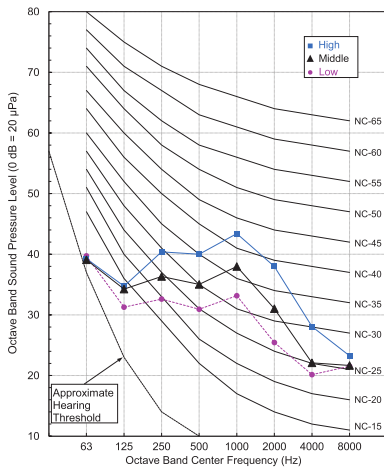
HSN24ISW.ATTGLCP (S3NQ24K231A.ATTGLCP)

Cooling



HSN18ISU.ATTGLCP (S3NQ18KL3WG.ATTGLCP)

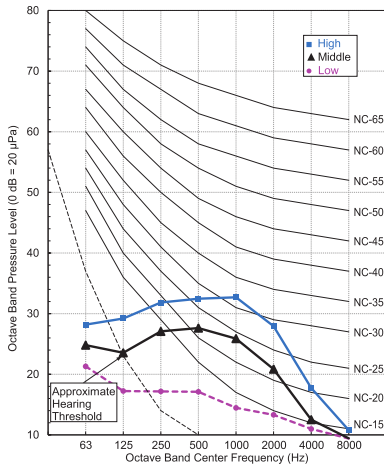
Cooling



12. Sound Levels (Reference Data)

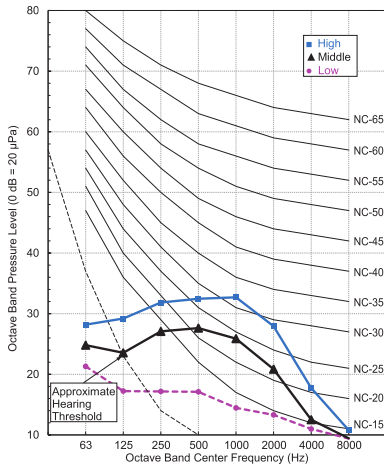
HSN09ISU.ATTGLCP (S3NQ09JA3WG.ATTGLCP)

Cooling



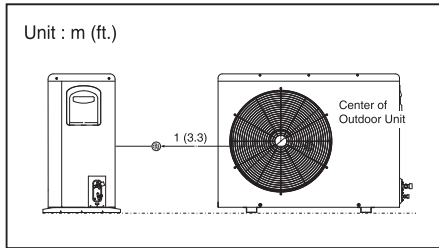
HSN12ISU.ATTGLCP (S3NQ12JA3WG.ATTGLCP)

Cooling



12. Sound Levels (Reference Data)

12.2 Sound Pressure Level (Outdoor Unit)



Note

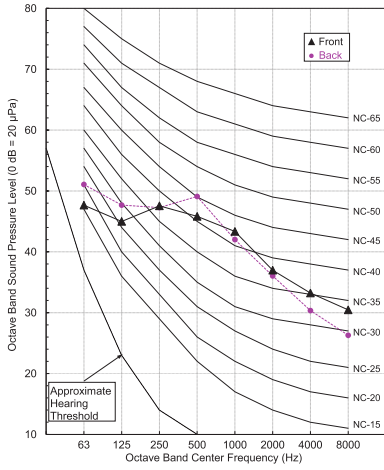
- Sound measured at 1 m (3.3 ft.) away from the unit.
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- Reference acoustic pressure 0 dB=20 μPa.
- Sound level will vary depending on a range of factors such as the construction(acoustic absorption coefficient) of particular room in which the equipment is installed.
- The operating conditions are assumed to be standard.
- Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard.
- Sound level is measured in an anechoic room and may be different according to the test condition or equipment.

Model	Sound Levels [dB (A)]	
	Cooling	Heating
	H	H
HSU09APC.ATTGLCP (S3UQ09JA1YB.ATTGLCP)	50	-
HSU09IPC.ATTGLCP (S3UQ09JA2PB.ATTGLCP)	50	-
HSU12IPA.ATTGLCP (S3UQ12JA2PA.ATTGLCP)	50	-
HSU12IPC.ATTGLCP (S3UQ12JA2PE.ATTGLCP)	50	-
HSU18IPA.ATTGLCP (S3UQ18KL2PA.ATTGLCP)	53	-
HSU24IPA.ATTGLCP (S3UQ24K22PA.ATTGLCP)	55	-
HSU09IPA.ATTGLCP (S3UQ09JA2PA.ATTGLCP)	50	-
HSU18ISW.ATTGLCP (S3UQ18KL31A.ATTGLCP)	53	-
HSU24ISW.ATTGLCP (S3UQ24K231A.ATTGLCP)	55	-
HSU18ISU.ATTGLCP (S3UQ18KL3WG.ATTGLCP)	53	-
HSU09ISU.ATTGLCP (S3UQ09JA3WG.ATTGLCP)	50	-
HSU12ISU.ATTGLCP (S3UQ12JA3WG.ATTGLCP)	50	-

12. Sound Levels (Reference Data)

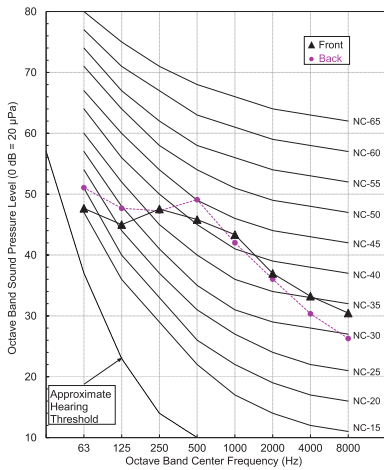
HSU09APC.ATTGLCP (S3UQ09JA1YB.ATTGLCP)

Cooling



HSU09IPC.ATTGLCP (S3UQ09JA2PB.ATTGLCP)

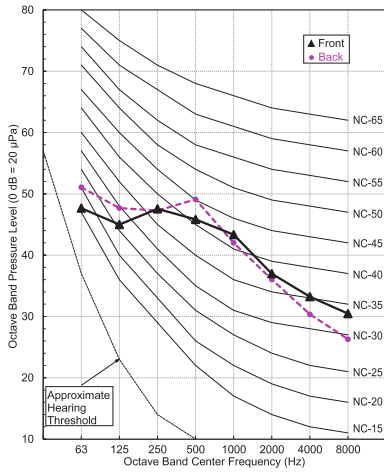
Cooling



12. Sound Levels (Reference Data)

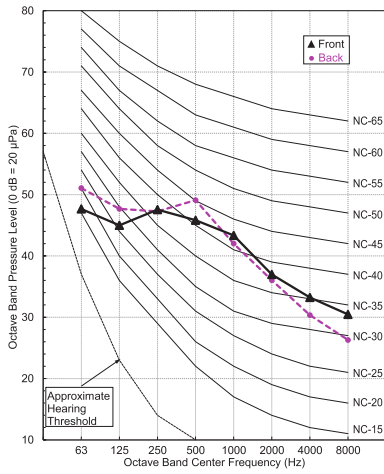
HSU12IPA.ATTGLCP (S3UQ12JA2PA.ATTGLCP)

Cooling



HSU12IPC.ATTGLCP (S3UQ12JA2PE.ATTGLCP)

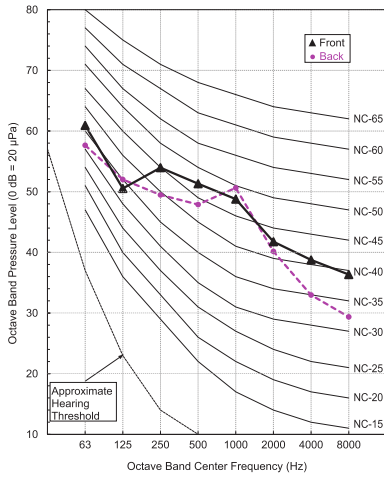
Cooling



12. Sound Levels (Reference Data)

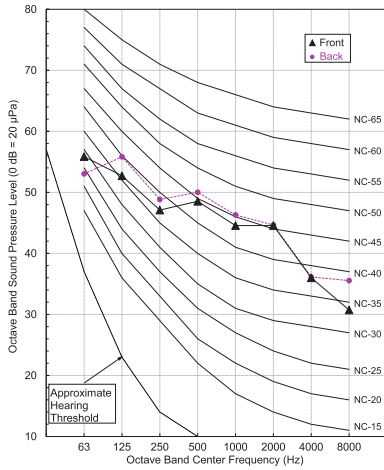
HSU18IPA.ATTGLCP (S3UQ18KL2PA.ATTGLCP)

Cooling



HSU24IPA.ATTGLCP (S3UQ24K22PA.ATTGLCP)

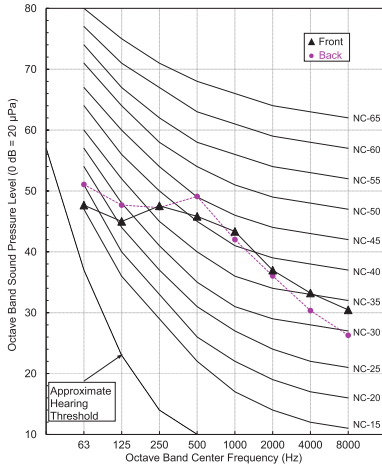
Cooling



12. Sound Levels (Reference Data)

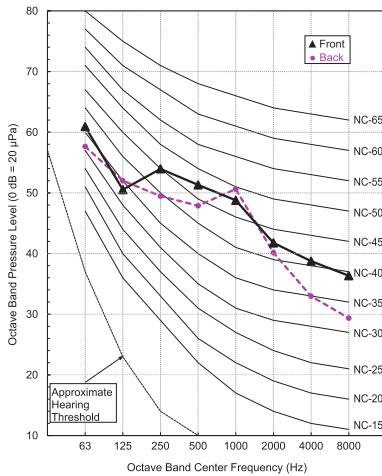
HSU09IPA.ATTGLCP (S3UQ09JA2PA.ATTGLCP)

Cooling



HSU18ISW.ATTGLCP (S3UQ18KL31A.ATTGLCP)

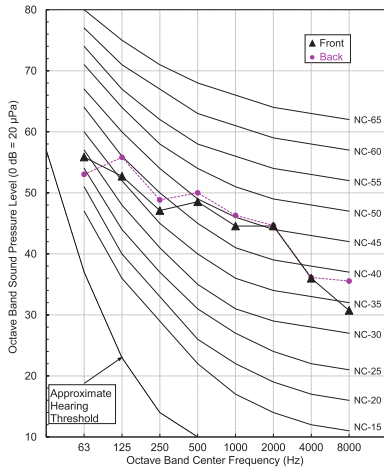
Cooling



12. Sound Levels (Reference Data)

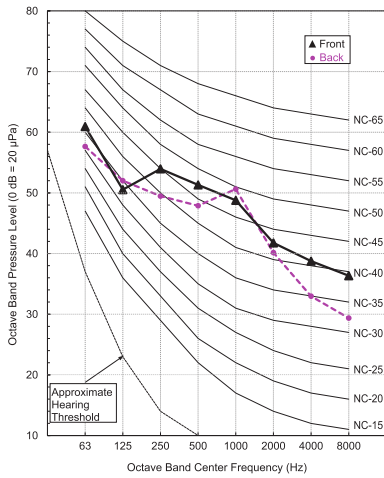
HSU24ISW.ATTGLCP (S3UQ24K231A.ATTGLCP)

Cooling



HSU18ISU.ATTGLCP (S3UQ18KL3WG.ATTGLCP)

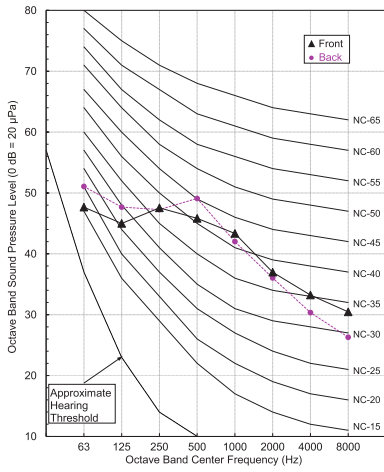
Cooling



12. Sound Levels (Reference Data)

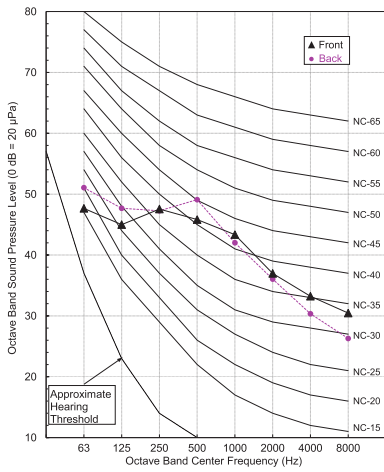
HSU09ISU.ATTGLCP (S3UQ09JA3WG.ATTGLCP)

Cooling



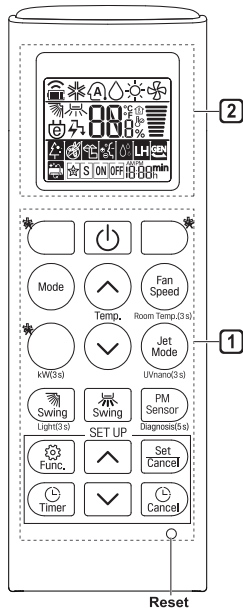
HSU12ISU.ATTGLCP (S3UQ12JA3WG.ATTGLCP)

Cooling



13. Remote Controller

Wireless Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °C	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To select the auto changeover/auto operation mode.
Fan Speed		To change room temperature quickly.
		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

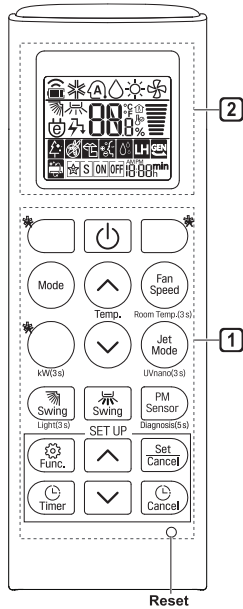
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB75215312	HSN09APC.ATTGLCP (S3NQ09JA1YB.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To select the auto changeover/auto operation mode.
Fan Speed		To change room temperature quickly.
		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

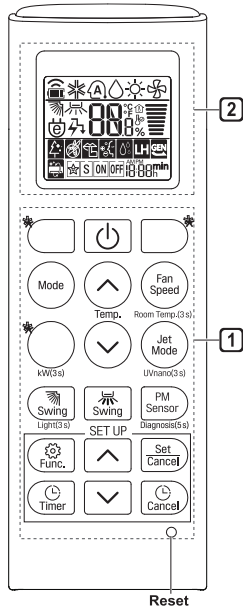
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB75075801	HSN09IPC.ATTGLCP (S3NQ09JA2PB.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To select the auto changeover/auto operation mode.
Fan Speed		To change room temperature quickly.
		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

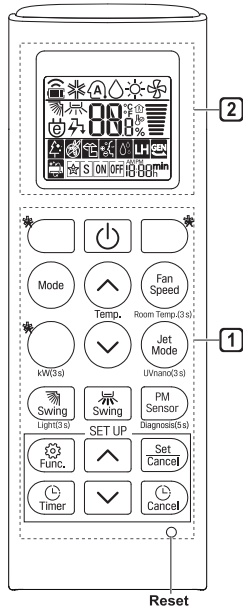
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB7495604	HSN12PA.ATTGLCP (S3NQ12JA2PA.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To select the auto changeover/auto operation mode.
Fan Speed		To change room temperature quickly.
		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

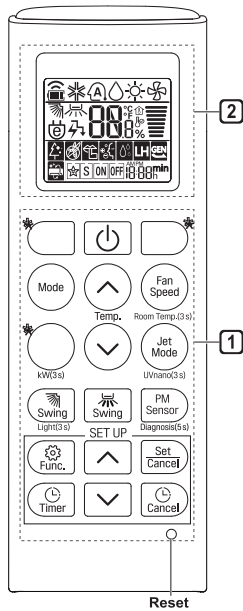
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB7495604	HSN12PC.ATTGLCP (S3NQ12JA2PE.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To change room temperature quickly.
Fan Speed		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

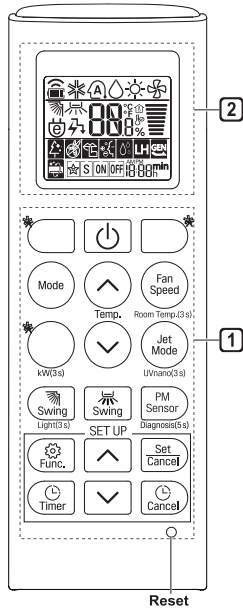
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB7495604	HSN18IPA.ATTGLCP (S3NQ18KL2PA.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the auto changeover/auto operation mode.
Jet Mode	P0	To change room temperature quickly.
Fan Speed		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

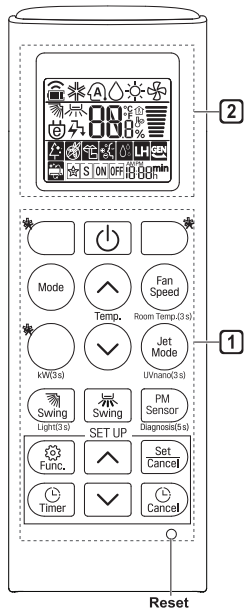
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB7495604	HSN24IPA.ATTGLCP (S3N24K22PA.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To select the auto changeover/auto operation mode.
Fan Speed		To change room temperature quickly.
		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

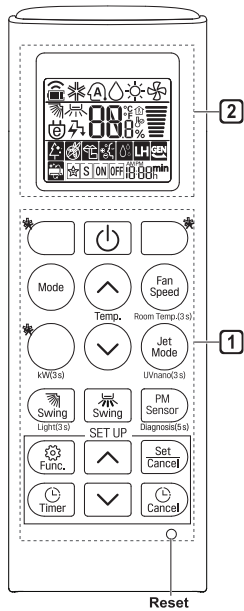
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB7495604	HSN09IPA.ATTGLCP (S3NQ09JA2PA.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the auto changeover/auto operation mode.
Jet Mode	P0	To change room temperature quickly.
Fan Speed		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

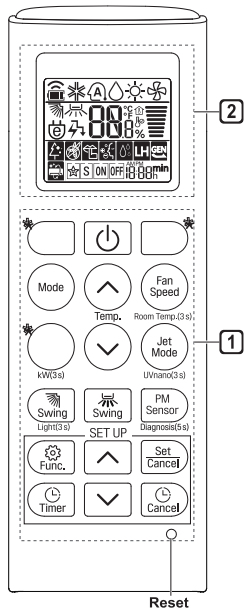
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB75075801	HSN18ISW.ATTGLCP (S3NQ18KL31A.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the auto changeover/auto operation mode.
Jet Mode	P0	To change room temperature quickly.
Fan Speed		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

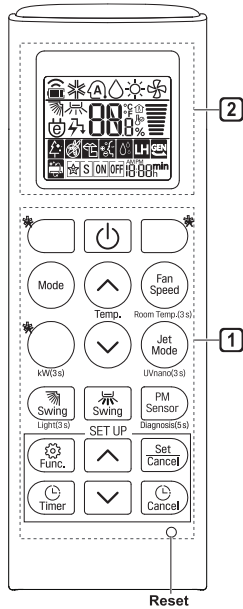
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB7495604	HSN24ISW.ATTGLCP (S3NQ24K231A.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To select the auto changeover/auto operation mode.
Fan Speed		To change room temperature quickly.
		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

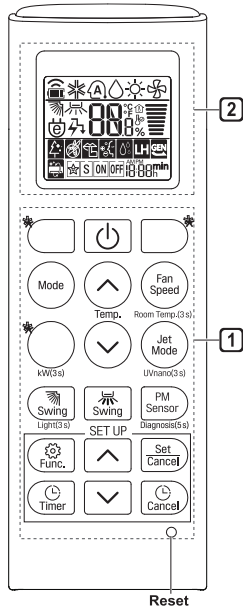
NOTE

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- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB75075801 or AKB74955604	HSN18ISU.ATTGLCP (S3NQ18KL3WG.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the auto changeover/auto operation mode.
Jet Mode	P0	To change room temperature quickly.
Fan Speed		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

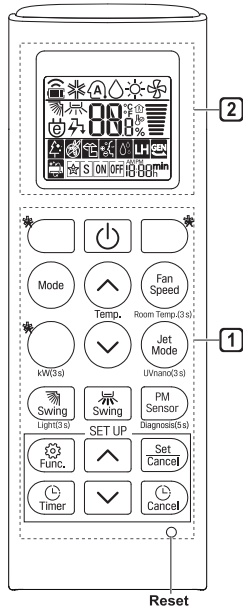
NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB75075801 or AKB74955604	HSN09ISU.ATTGLCP (S3NQ09JA3WG.ATTGLCP)

13. Remote Controller



1 Button	2 Display Screen	Description
	-	To turn on/off the air conditioner.
	88 °	To adjust the desired room temperature in cooling, heating or auto changeover mode.
Mode		To select the cooling mode.
		To select the heating mode.
		To select the dehumidification mode.
		To select the fan mode.
Jet Mode		To change room temperature quickly.
Fan Speed		To adjust the fan speed.
		To adjust the air flow direction vertically or horizontally.

NOTE

- * buttons may be changed according to the type of model.
- When connected to the Multi Outdoor unit, the Energy Display, Energy Control, Silent and Smart Diagnosis function may not be supported.
- Some functions may not be supported, depending on the model.
- Press the **Set/Cancel** button to operate the selected **Func.**

1 Button	2 Display Screen	Description
		To turn on/off air conditioner automatically at desired time.
Set/Cancel	-	To set/cancel the special functions and timer.
	-	To cancel the timer settings.
	-	To adjust time.
Light(3 s)	-	To set the brightness of the display on the indoor unit.
Room Temp.(3 s)		To display the room temperature.
*Energy Saving		To minimize power consumption.
*Comfort Air		To adjust the air flow to deflect wind.
kW(3 s)	-	To set whether or not to display information regarding energy.
*Energy Ctrl.		To bring the effect of the power saving.
*Comfort Sleep		To make a comfortable sleeping environment.
Diagnosis (5 s)	-	To conveniently check maintenance information of a product.
PM Sensor	-	To check indoor dust status.
*Air Purify		The Ion generator uses millions of ions to help improve indoor air quality.
UVnano(3 s)	-	To keep the fan clean.
		To reduce noise from outdoor units.
		To keep your skin moisturized by generating ion clusters.
		To lower indoor humidity quickly.
		To maintain a minimum room temperature and prevent objects in the room from freezing.
		To scare away a mosquito.
		To remove moisture generated inside the indoor unit.
		To make a comfortable sleeping environment.
Reset	-	To initialize the remote control settings.

P/No	Applied Model
AKB75075801 or AKB74955604	HSN12ISU.ATTGLCP (S3NQ12JA3WG.ATTGLCP)

14. Installation

14.1 Important Safety Instructions

The following safety guidelines are intended to prevent unforeseen risks or damage from unsafe or incorrect operation of the appliance. The guidelines are separated into 'WARNING' and 'CAUTION' as described below.



This symbol indicates that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposure to an external ignition source, there is a risk of fire.



This symbol is displayed to indicate matters and operations that can cause risk. Read the part with this symbol carefully and follow the instructions in order to avoid risk.



WARNING

This indicates that the failure to follow the instructions can cause serious injury or death.



CAUTION

This indicates that the failure to follow the instructions can cause the minor injury or damage to the product.



WARNING

To reduce the risk of explosion, fire, death, electric shock, injury or scalding to persons when using this product, follow basic precautions, including the following :

- The information contained in the manual is intended for use by a qualified service technician who is familiar with the safety procedures and equipped with the proper tools and test instruments.
- The appliance shall be installed in accordance with local and national wiring regulations.
- Means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agents or similarly qualified person in order to avoid a hazard.
- Appliance shall be disconnected from its power source during service and when replacing parts.
- Failure to read and follow all instructions in this manual can result in equipment malfunction, property damage, personal injury and/or death.
- Check that the appliance's voltage level is 90 % or higher than the rated voltage. To check it, refer to the label attached to the side of the appliance.
- Do not install the appliance on an unstable surface or in a place where there is danger of it falling.
- This appliance must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current.
- Improper connection of the equipment-grounding conductor can result in risk of electric shock. Check with a qualified electrician or service personnel if you are in doubt as to whether the appliance is properly grounded.
- If the power supply cable is damaged or the cable connection is loose, do not use the power supply cable and contact an authorized service center.
- Do not connect the ground wire to a gas pipe, a lightning rod, or a telephone ground wire.

14. Installation

- Do not share the power supply for this unit with other with other products or devices, it must be a dedicated power source for this this appliance.
- Do not modify or extend the power cable.
- Ensure the power cable is secure so that it does not come out while the appliance is operating.
- Do not touch the power cable or the appliance controls with wet hands.
- Cut the power during a severe thunderstorm or lightening or when not in use for a long period of time.
- Do not grab the power cable when removing the plug, but rather hold the power plug tightly.
- Do not bend the power cable excessively or place a heavy object on it.
- Do not turn on the circuit breaker or power when covers are removed or opened.
- Make sure that the pipe and the power cable connecting the indoor and outdoor units are not pulled too tight when installing the appliance.
- Install dedicated electric outlet and circuit breaker for the appliance.
- Make sure to close the cover of the control box after connecting the wiring to the appliance.
- Loose connections may cause electrical sparks, injury, and death.
- Do not install the appliance in a place where flammable liquids or gases such as gasoline, propane, paint thinner, etc., are stored.
- Only use the refrigerant designated on the label, do not put any foreign substances into the appliance.
- Use non-flammable gas (nitrogen) to check for leak and to purge air.
- Inert gas (oxygen free nitrogen) should be used when you checking for leaks, cleaning or repairs of pipes etc. If you are using combustible gases including oxygen, appliance may have the risk of fires and explosions.
- Do not use copper pipes which are deformed. Otherwise, the expansion valve or capillary tube may become blocked with contaminants.
- When installing or relocating the appliance, consult with a qualified technician to set up the appliance. The appliance should not be installed by someone without proper qualifications.
- Operating the appliance while it is disconnected to the pipe could result in explosion and damage. Use the appliance after connecting it to the pipe once the appliance has been relocated and the refrigerant circuit repaired.
- Do not place a heater or other heating appliances near the power cable.
- Keep any required ventilation openings clear of obstruction.
- Use only refrigerant grade pipe specific for R32 refrigerant. Do not use R22 products, which have lower pressure ratings and can result in excessive pressure, explosion and injury.
- Compliance with national gas regulations shall be observed.
- Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- The installation of pipe-work shall be kept to a minimum.
- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority regard of flammable refrigerants, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
- Refrigerant tubing shall be protected or enclosed to avoid damage.

14. Installation

- Flexible refrigerant connectors (such as connecting lines between the indoor and outdoor unit) that may be displaced during normal operations shall be protected against mechanical damage
- Ducts connected to an appliance shall not contain an ignition source.
- A brazed, welded, or mechanical connection shall be made before opening the valves to permit refrigerant to flow between the refrigerating system parts.
- When mechanical connectors are reused indoors, sealing parts shall be renewed.
- When flared joints are reused indoors, the flare part shall be re-fabricated.
- Mechanical connections (mechanical connectors or flared joints) shall be accessible for maintenance purposes.
- The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.)
- The appliance shall be stored so as to prevent mechanical damage from occurring.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.
- Pipe-work shall be protected from physical damage.

CAUTION

To reduce the risk of minor injury to persons, malfunction, or damage to the product or property when using this product, follow basic precautions, including the following :

- Install at places where it can endure the weight and vibration/noise of the outdoor unit.
- Install the appliance in a place where the noise from the outdoor unit or the exhaust air will not inconvenience the neighbors. Failure to do so may result in conflict with the neighbors.
- Ensure the appliance is installed level. Otherwise, it may cause vibration or water leakage.
- Install the drain hose properly for the smooth drainage of water condensation.
- Do not touch the leaking refrigerant during installation or repair.
- Always check for gas (refrigerant) leakage after installation or repair of appliance.
- Be cautious not to get injured by the sharp edges while installing the appliance or taking it out of its packaging.
- Ensure that you carry by the chassis when you lift the unit.
- This appliance should only be transported by two or more people holding the appliance securely.
- Safely dispose of packing materials such as screws, nails or batteries using proper packaging after installation or repair.
- To avoid nitrogen entering the refrigerant system in a liquid state, the top of the cylinder must be higher than its bottom when you pressurize the system.
- Do not use the appliance for special purposes, such as preserving foods, works of art, and etc. It is an appliance for consumer purposes, not a precision refrigeration system. There is risk of damage or loss of property.

14. Installation

- Do not discharge the refrigerant into the atmosphere.
- If refrigerant leaks, ventilate the room.
- The tubing shall be protected to the extent that it will not be handled or used for carrying during moving of the product.
- Ventilation system have to be installed in the space when appliance with R32 is using for cooling of electric equipment.
- The handling of the refrigerant must comply with national regulations.

14. Installation

Precaution for using R32 refrigerant

- The basic installation work procedures are the same as conventional refrigerant (R410A, R22) models. However, pay careful attention to the following points:
- Please refer to installation and service manual of each appliance for detail.

WARNING

1. Since the working pressure is higher than that of refrigerant R22 models, some of the piping and installation and service tools are special.
Especially, when replacing a refrigerant R22 model with a new refrigerant R32 model, always replace the conventional piping and flare nuts with the R32 and R410A piping and flare nuts on the outdoor unit side.
2. Models that use refrigerant R32 and R410A have a different charging port thread diameter to prevent erroneous charging with refrigerant R22 and for safety.
3. Be more careful than R22 so that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc.

CAUTION

1. Installation (Space)
 - The installation of pipe-work shall be kept to a minimum. Avoid use dented pipe and do not allow acute bending.
 - Pipe-work shall be protected from physical damage.
 - Must comply with national gas regulations, state municipal rules and legislation. Notify relevant authorities in accordance with all applicable regulations.
 - Must ensure mechanical connections be accessible for maintenance purposes.
 - In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.
 - When disposal of the product, do follow to the precautions in #12 and comply with national regulations.
Always contact to local municipal offices for proper handling.
 - Interconnecting refrigerant pipework, i.e. pipework external to the unitary components, should be marked with a Class label every two metres where the pipework is visible. This includes pipework located in a ceiling space or any void which a person may access for maintenance or repair work within that space.
2. Servicing
 - 2-1. Service personnel
 - Any qualified person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
 - Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
 - Servicing shall be performed only as recommended by the manufacturer.
 - 2-2. Work

14. Installation

- Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimised.
For repair to the refrigerating system, the precautions in #2-2 to #2-8 must be followed before conducting work on the system.

- Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapour being present while the work is being performed.
- All maintenance staff and others working in the local area shall be instructed and supervised on the nature of work being carried out.
- Avoid working in confined spaces.
- Wear appropriate protective equipment, including respiratory protection, as conditions warrant.
- Ensure that the conditions within the area have been made safe by limit of use of any flammable material. Keep all sources of ignition and hot metal surfaces away.

2-3. Checking for presence of refrigerant

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non sparking, adequately sealed or intrinsically safe.
- In case of leakage/spillage happened, immediately ventilate area and stay upwind and away from spill/release.
- In case of leakage/spillage happened, do notify persons downwind of the leaking/spill, isolate immediate hazard area and keep unauthorized personnel out.

2-4. Presence of fire extinguisher

- If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available at hand.
- Have a dry powder or CO₂ fire extinguisher adjacent to the charging area.

2-5. No ignition sources

- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. You must not be smoking when carrying out such work.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.
- “No Smoking” signs shall be displayed.

2-6. Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

2-7. Checks to the refrigeration equipment

14. Installation

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer's maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer's technical department for assistance.
- The following checks shall be applied to installations using flammable refrigerants
 - The actual refrigerant charge is in accordance with the room size within which the refrigerant containing parts are installed.
 - The ventilation machinery and outlets are operating adequately and are not obstructed.
 - If an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant.
 - Marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected.
 - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are properly protected against being so corroded.

2-8. Checks to electrical devices

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures.
- Initial safety checks shall include but not limit to
 - That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking.
 - That there is no live electrical components and wiring are exposed while charging, recovering or purging the system.
 - That there is continuity of earth bonding.
- At all times the manufacturer's maintenance and service guidelines shall be followed.
- If in doubt consult the manufacturer's technical department for assistance.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- The owner of the equipment must be informed or reported so all parties are advised thereafter.

Repairs to sealed components

- During repairs to sealed components, all electrical supplies shall be disconnected from the equipment being worked upon prior to any removal of sealed covers, etc.
- If it is absolutely necessary to have an electrical supply to equipment during servicing, then a permanently operating form of leak detection shall be located at the most critical point to warn of a potentially hazardous situation.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded such that they no longer serve the purpose of preventing the ingress of flammable atmospheres.
- Replacement parts shall be in accordance with the manufacturer's specifications.

14. Installation

Note

The use of silicon sealant may inhibit the effectiveness of some types of leak detection equipment.

Intrinsically safe components do not have to be isolated prior to working on them.

4. Repair to intrinsically safe components

- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components are the only types that can be worked on while live in the presence of a flammable atmosphere.
- The test apparatus shall be at the correct rating.
- Replace components only with parts specified by the manufacturer. Unspecified parts by manufacturer may result ignition of refrigerant in the atmosphere from a leak.

5. Cabling

- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

6. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.

7. Leak detection methods

- Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need recalibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (25 % maximum) is confirmed.
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
- If a leak is suspected, all naked flames shall be removed/extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Oxygen free nitrogen (OFN) shall then be purged through the system both before and during the brazing process.

8. Removal and evacuation

- When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, it is important that best practice is followed since flammability is a consideration.
The following procedure shall be adhered to :

14. Installation

- remove refrigerant → purge the circuit with inert gas → evacuate → purge again with inert gas → open the circuit by cutting or brazing
 - The refrigerant charge shall be recovered into the correct recovery cylinders.
 - The system shall be “flushed” with OFN to render the unit safe.
 - This process may need to be repeated several times.
 - Compressed air or oxygen shall not be used for this task.
 - Flushing shall be achieved by breaking the vacuum in the system with OFN and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
 - This process shall be repeated until no refrigerant is within the system.
 - When the final OFN charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.
 - This operation is absolutely vital if brazing operations on the pipe work are to take place.
 - Ensure that the outlet for the vacuum pump is not close to any ignition sources and there is ventilation available.
9. Charging procedures
- In addition to conventional charging procedures, the following requirements shall be followed.
 - Ensure that contamination of different refrigerants does not occur when using charging equipment.
 - Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
 - Cylinders shall be kept upright.
 - Ensure that the refrigeration system is earthed prior to charging the system with refrigerant.
 - Label the system when charging is complete (if not already).
 - Extreme care shall be taken not to over fill the refrigeration system.
 - Prior to recharging the system it shall be pressure tested with OFN (refer to #7).
 - The system shall be leak tested on completion of charging but prior to commissioning.
 - A follow up leak test shall be carried out prior to leaving the site.
 - Electrostatic charge may accumulate and create a hazardous condition when charging and discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.
10. Decommissioning
- Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its details.
 - It is recommended good practice that all refrigerants are recovered safely.
 - Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of reclaimed refrigerant.

14. Installation

- It is essential that electrical power is available before the task is commenced.
 - a. Become familiar with the equipment and its operation.
 - b. Isolate system electrically.
 - c. Before attempting the procedure ensure that :
 - mechanical handling equipment is available, if required, for handling refrigerant cylinders
 - all personal protective equipment is available and being used correctly
 - the recovery process is supervised at all times by a competent person
 - recovery equipment and cylinders conform to the appropriate standards
 - d. Pump down refrigerant system, if possible.
 - e. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
 - f. Make sure that cylinder is situated on the scales before recovery takes place.
 - g. Start the recovery machine and operate in accordance with manufacturer's instructions.
 - h. Do not over fill cylinders. (No more than 80 % volume liquid charge).
 - i. Do not exceed the maximum working pressure of the cylinder, even temporarily.
 - j. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
 - k. Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.
- Electrostatic charge may accumulate and create a hazardous condition when charging or discharging the refrigerant. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before charging/discharging.

11. Labelling

- Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant.
- The label shall be dated and signed.
- Ensure that there are labels on the equipment stating the equipment contains flammable refrigerant.

12. Recovery

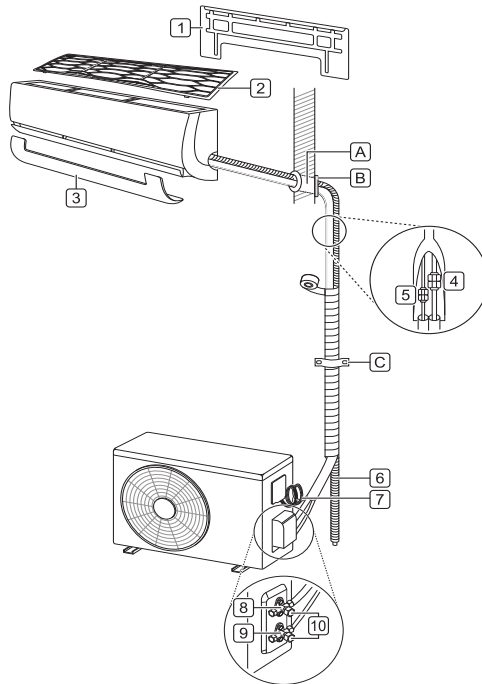
- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge are available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

14. Installation

- The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of flammable refrigerants.
- In addition, a set of calibrated weighing scales shall be available and in good working order.
- Hoses shall be complete with leak-free disconnect couplings and in good condition.
- Before using the recovery machine, check that it is in satisfactory working order, has been properly maintained and that any associated electrical components are sealed to prevent ignition in the event of a refrigerant release. Consult manufacturer if in doubt.
- The recovered refrigerant shall be returned to the refrigerant supplier in the correct recovery cylinder, and the relevant Waste Transfer Note arranged.
- Do not mix refrigerants in recovery units and especially not in cylinders.
- If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant.
- The evacuation process shall be carried out prior to returning the compressor to the suppliers.
- Only electric heating to the compressor body shall be employed to accelerate this process.
- When oil is drained from a system, it shall be carried out safely.

14. Installation

14.2 Product Overview



Parts

1	Installation Plate	6	Drain Hose
2	Air Filter	7	Power Supply Cable
3	Decor	8	Gas Service Valve
4	Gas Pipe (Larger Pipe)	9	Liquid Service Valve
5	Liquid Pipe (Smaller Pipe)	10	(Gas/Liquid) Service Valve Cap

Local Purchases

It is highly recommended that you install the following parts.

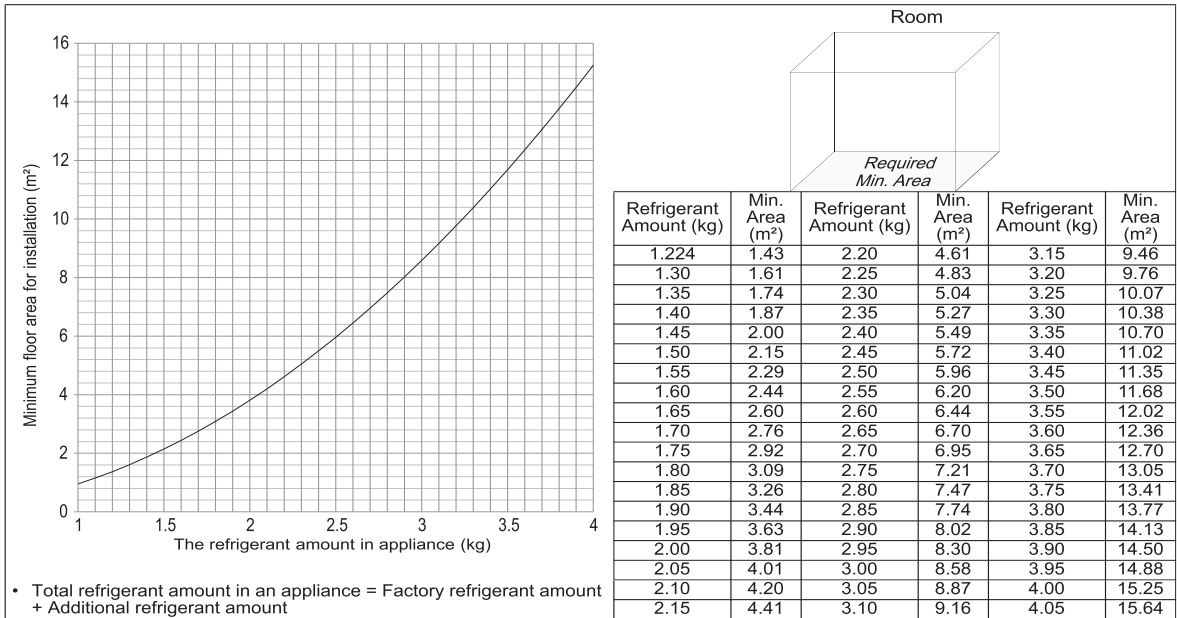
A	Sleeve
B	Sealant
C	Clamp

Note

- This feature could be different depending on models.
- If needed, additional pipes, drain hoses, and power cables must be purchased separately.

14. Installation

The minimum installation floor area for wall mounted products using R32



⚠ WARNING

The outdoor unit should be installed in a well-ventilated area or outside.

Determine the case applicable based on the relationship of the refrigerant charge (M) and m_1, m_2, m_3 , defined as follows :

Case	Refrigerant Charge Amount	Requirements
1	$M \leq m_1$	No limit for floor area to install an appliance
2	$m_1 < M \leq m_2$	Need a minimum floor area to install an appliance in accordance with a formula
3	$m_2 < M \leq m_3$	Need a minimum floor area to install an appliance in accordance with a formula Need an additional equipment (Ventilation, shut-off valve, alarm etc.)

$$m_1 = (4 \text{ m}^3) \times \text{LFL} = 4 \text{ m}^3 \times 0.306 \text{ kg/m}^3 = 1.244 \text{ kg}$$

$$m_2 = (26 \text{ m}^3) \times \text{LFL} = 26 \text{ m}^3 \times 0.306 \text{ kg/m}^3 = 7.956 \text{ kg}$$

$$m_3 = (130 \text{ m}^3) \times \text{LFL} = 130 \text{ m}^3 \times 0.306 \text{ kg/m}^3 = 39.78 \text{ kg}$$

The maximum charge (m_{max} kg) in a room

$$m_{\text{max}} = 2.5 \times \text{LFL}^{5/4} \times h_0 \times A^{1/2} = 2.5 \times 0.306^{5/4} \times 1.8 \times A^{1/2}$$

The required minimum floor area (A_{min} m²) to install an appliance with refrigerant charge (M kg)

$$A_{\text{min}} = (M / (2.5 \times \text{LFL}^{5/4} \times h_0))^2 = (M / (2.5 \times 0.306^{5/4} \times 1.8))^2$$

Symbol

M : The refrigerant charge amount in appliance (kg), The sum of a pre-charge and an additional charge regard of a pipe length

m_{max} : The allowable maximum charge in a room (kg), The sum of a pre-charge and an additional charge regard of a pipe length

A : The room area (m²)



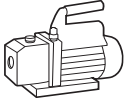

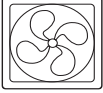
A_{min} : The required minimum room area (m²)

h_0 : The installation height of the appliance (m), h_0 is **1.8 m** for wall mounted

LFL : The lower flammable limit (kg/m³), LFL of R32 is **0.306 kg/m³**

14. Installation

Installation Tools for the products using R32

				
Gas Leak Detector	Manifold Gauge	Vacuum Pump	Reclaim Unit	Ventilation Equipment

Note

- Leakage detector which is confirmed rated for use with R32, should be used when you are checking for leaks.
- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.
- Ventilation Equipment: For AC system using R32 (A2L gases) a ventilation equipment with “Ex” mark only should be used when a system design exceeds the Lower flammable limit if the gas was to escape from a system.

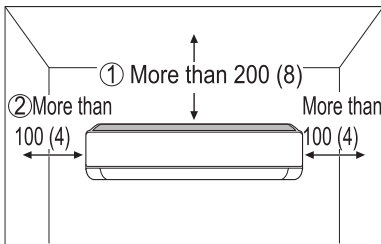
14. Installation

14.3 Installation Place

Indoor Unit

- Install the indoor unit on a strong and hard wall.
- Install the indoor unit in a spot with good drainage and good accessibility to the pipe connected to the outdoor unit.
- Maintain a clearance of at least ① from the right and left sides of the indoor unit.
- Maintain a clearance of at least ② between the top of the indoor unit and the ceiling.
- Maintain a clearance of at least 2 m (6.5 ft.) from the floor for adequate clearance.
- Do not install the indoor unit near heaters or heating apparatuses.
- Do not install the indoor unit near an obstacle that hinders airflow.
- Do not install the indoor unit near an exit.
- Do not install the indoor unit where it can be exposed to direct sunlight.

Unit: mm (inch)



14. Installation

Outdoor Unit

- Install the outdoor unit in a location where the floor is firm and even.
- When placing the outdoor unit under an overhang, awning, sunroof or other “roof-like structure”, ensures that heat radiation from the condenser is not restricted around the unit.
- Do not place the unit where animals and/or plants will be in the path of the warm air, or where the warm air and/or noise will disturb neighbors.
- Sunroof is recommended for installations that are exposed to direct sunlight and for installations in cold climates with heavy snow which can accumulate on top of outdoor unit.
- Take the weight of the air conditioner into account and select a place where noise and vibration are minimum.
- Install the outdoor unit somewhere the technician can easily access it for repairs or maintenance.
- Do not install the outdoor unit in a location exposed to saline conditions, such as coastal areas, or sulfuric steam, such as near a hot spring.
- Do not install the outdoor unit in a location exposed to high winds.
- Observe the below clearance requirements.

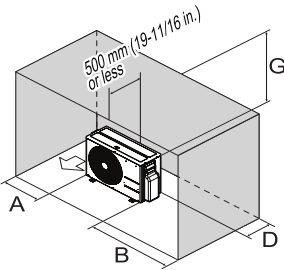
Note

- Normal clearances are recommended for service and cleaning access.
- If you do not meet the minimum clearances for installation, the unit does not guarantee the reliability of the unit.
- If the outdoor unit is installed between normal and minimum clearances, capacity can be decreased about 10%.

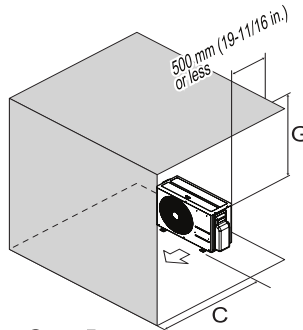
14. Installation

Outdoor unit service access and allowable clearances

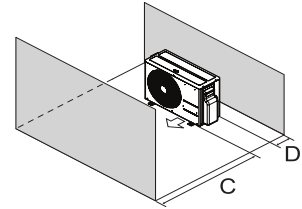
Case 1



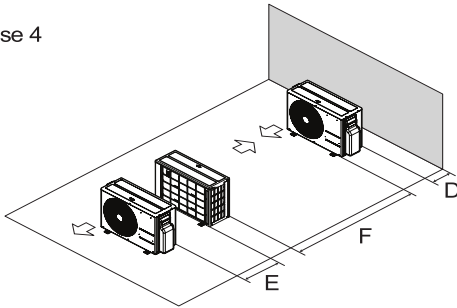
Case 2



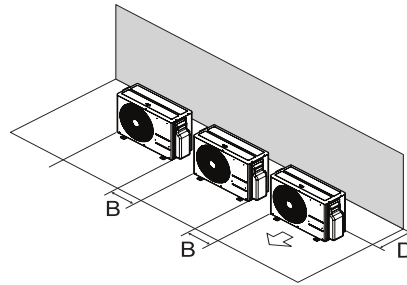
Case 3



Case 4



Case 5



Unit : mm		A	B	C	D	E	F	G
Case1	Normal	300	600	-	300	-	-	-
	Minimum	100	250	-	100	-	-	1000
Case2	Normal	-	-	500	-	-	-	-
	Minimum	-	-	350	-	-	-	1000
Case3	Normal	-	-	500	300	-	-	-
	Minimum	-	-	350	100	-	-	-
Case4	Normal	-	-	-	300	600	-	-
	Minimum	-	-	-	100	200	2000	-
Case5	Normal	-	600	-	300	-	-	-
	Minimum	-	250	-	100	-	-	-

Unit : inch		A	B	C	D	E	F	G
Case1	Normal	11-13/16	23-19/32	-	11-13/16	-	-	-
	Minimum	3-15/16	9-27/32	-	3-15/16	-	-	39-3/8
Case2	Normal	-	-	19-11/16	-	-	-	-
	Minimum	-	-	13-25/32	-	-	-	39-3/8
Case3	Normal	-	-	19-11/16	11-13/16	-	-	-
	Minimum	-	-	13-25/32	3-15/16	-	-	-
Case4	Normal	-	-	-	11-13/16	23-19/32	-	-
	Minimum	-	-	-	3-15/16	7-7/8	78-3/4	-
Case5	Normal	-	23-19/32	-	11-13/16	-	-	-
	Minimum	-	9-27/32	-	3-15/16	-	-	-

14. Installation

Precautions about installation in regions with extreme snowfall and cold temperatures

To ensure the outdoor unit operates properly, certain measures are required in locations where there is a possibility of heavy snowfall or severe wind chill or cold :

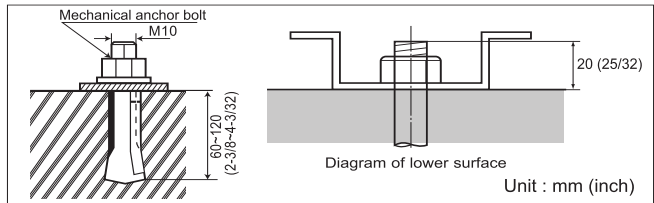
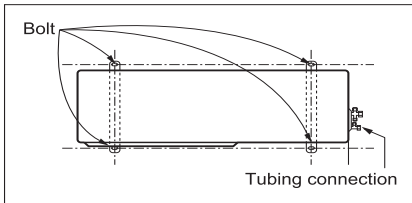
- Prepare for severe winter wind chills and heavy snowfall, even in areas of the country where these are unusual phenomena.
- Position the outdoor unit so that its airflow fans are not buried by direct, heavy snowfall. If snow piles up and blocks the airflow, the system may malfunction.
- Remove any snow that has accumulated 100 mm (4 in.) or more on the top of the outdoor unit.
- Place the outdoor unit on a raised platform at least 500 mm (20 inches) higher than the average annual snowfall for the area. If the frame width is wider than the outdoor unit, snow may accumulate.
- Install a snow protection hood.
- To prevent snow and heavy rain from entering the outdoor unit, install the suction and discharge ducts facing away from direct winds.
- Additionally, the following conditions should be taken into consideration when the unit operates in defrost mode :
If the outdoor unit is installed in a highly humid environment (near an ocean, lake, etc.), ensure that the site is well ventilated and has a lot of natural light. (Example : Install on a rooftop.)

14. Installation

14.4 Installing the Outdoor Unit

Fixing the Outdoor Unit with Bolt Construction Work

Fix the outdoor unit firmly to prevent it from falling and dropping.

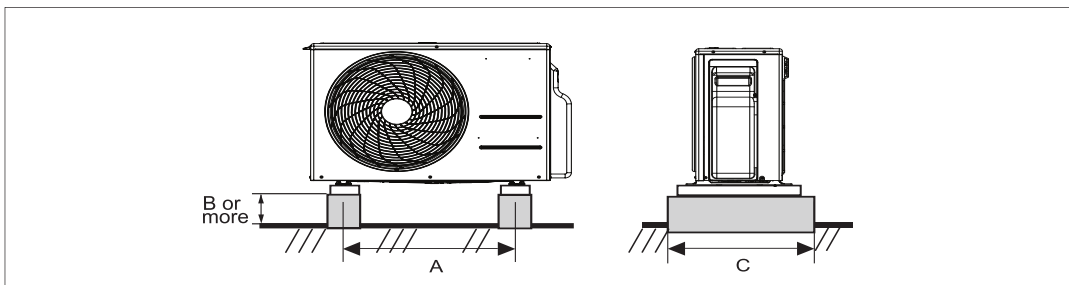


Note

- If you install the outdoor unit on a wall, roof, or rooftop, make sure it's mounted on a suitable frame.
- If the outdoor unit vibrates excessively, secure it using anti-vibration rubber between the unit's feet and the mounting frame.

Foundation

For good drain of outdoor unit, keep the bottom height from icing upward.



Unit : mm		Foundation			Leg	
Model	Tool	A	B	C	Material	Thickness
HSU09APC.ATTGLCP	UA3	463	100	280	SGMCD	1
HSU09IPC.ATTGLCP	UA3	463	100	280	SGMCD	1
HSU12IPA.ATTGLCP	UA3	463	100	280	SGMCD	1
HSU12IPC.ATTGLCP	UA3	463	100	280	SGMCD	1
HSU18IPA.ATTGLCP	UL2	558	100	370	SGMCD	1.2
HSU24IPA.ATTGLCP	U24A	586	100	400	SGMCD	1.2
HSU09IPA.ATTGLCP	UA3	463	100	280	SGMCD	1.2
HSU18ISW.ATTGLCP	UL2	558	100	370	SGMCD	1.2
HSU24ISW.ATTGLCP	U24A	586	100	400	SGMCD	1.2
HSU18ISU.ATTGLCP	UL2	558	100	370	SAZCC	1.2
HSU09ISU.ATTGLCP	UA3	463	100	280	SGCC	1.2
HSU12ISU.ATTGLCP	UA3	463	100	280	SGCC	1.2

Unit : inch		Foundation			Leg	
Model	Tool	A	B	C	Material	Thickness
HSU09APC.ATTGLCP	UA3	18-7/32	3-15/16	11-1/32	SGMCD	false
HSU09IPC.ATTGLCP	UA3	18-7/32	3-15/16	11-1/32	SGMCD	false
HSU12IPA.ATTGLCP	UA3	18-7/32	3-15/16	11-1/32	SGMCD	false
HSU12IPC.ATTGLCP	UA3	18-7/32	3-15/16	11-1/32	SGMCD	false
HSU18IPA.ATTGLCP	UL2	21-3/4	3-15/16	14-9/16	SGMCD	1/16
HSU24IPA.ATTGLCP	U24A	23-1/16	3-15/16	15-3/4	SGMCD	1/16
HSU09IPA.ATTGLCP	UA3	18-7/32	3-15/16	11-1/32	SGMCD	1/16

HSU24ISW.ATTGLCP	U24A	23-1/16	3-15/16	15-3/4	SGMCD	1/16
HSU18ISU.ATTGLCP	UL2	21-31/32	3-15/16	14-9/16	SAZCC	1/16
HSU09ISU.ATTGLCP	UA3	18-7/32	3-15/16	11-1/32	SGCC	1/16
HSU12ISU.ATTGLCP	UA3	18-7/32	3-15/16	11-1/32	SGCC	1/16

14. Installation

Connecting the Drain Plug

If you need to install a drain hose onto an outdoor unit, connect the drain hose after inserting the drain plug with drain washer through the drain hole on the bottom of the outdoor unit.



A : Drain Plug



B : Drain Cap



C : Drain Washer

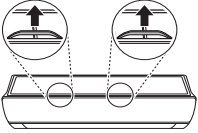
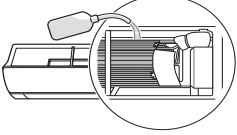
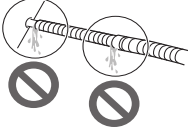
Note

- If the hole is not in use, block it with the drain cap.
- The quantity and position of the drain cap could be different depending on models.
- In cold areas, do not use the drain hose on the outdoor unit because the water drained out from the drain hose can freeze, which may cause malfunctioning by damaging the heat exchanger.

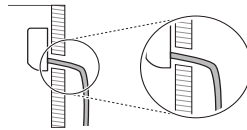
<p>HSU12ISU.ATTGLCP, HSU09IPC.ATTGLCP, HSU12IPA.ATTGLCP, HSU12IPC.ATTGLCP, HSU09IPA.ATTGLCP, HSU09ISU.ATTGLCP, HSU09APC.ATTGLCP</p>	<p>HSU18IPA.ATTGLCP, HSU24ISW.ATTGLCP, HSU18ISW.ATTGLCP, HSU18ISU.ATTGLCP</p>
<p>HSU24IPA.ATTGLCP</p>	

14. Installation

14.5 Checking the Drainage

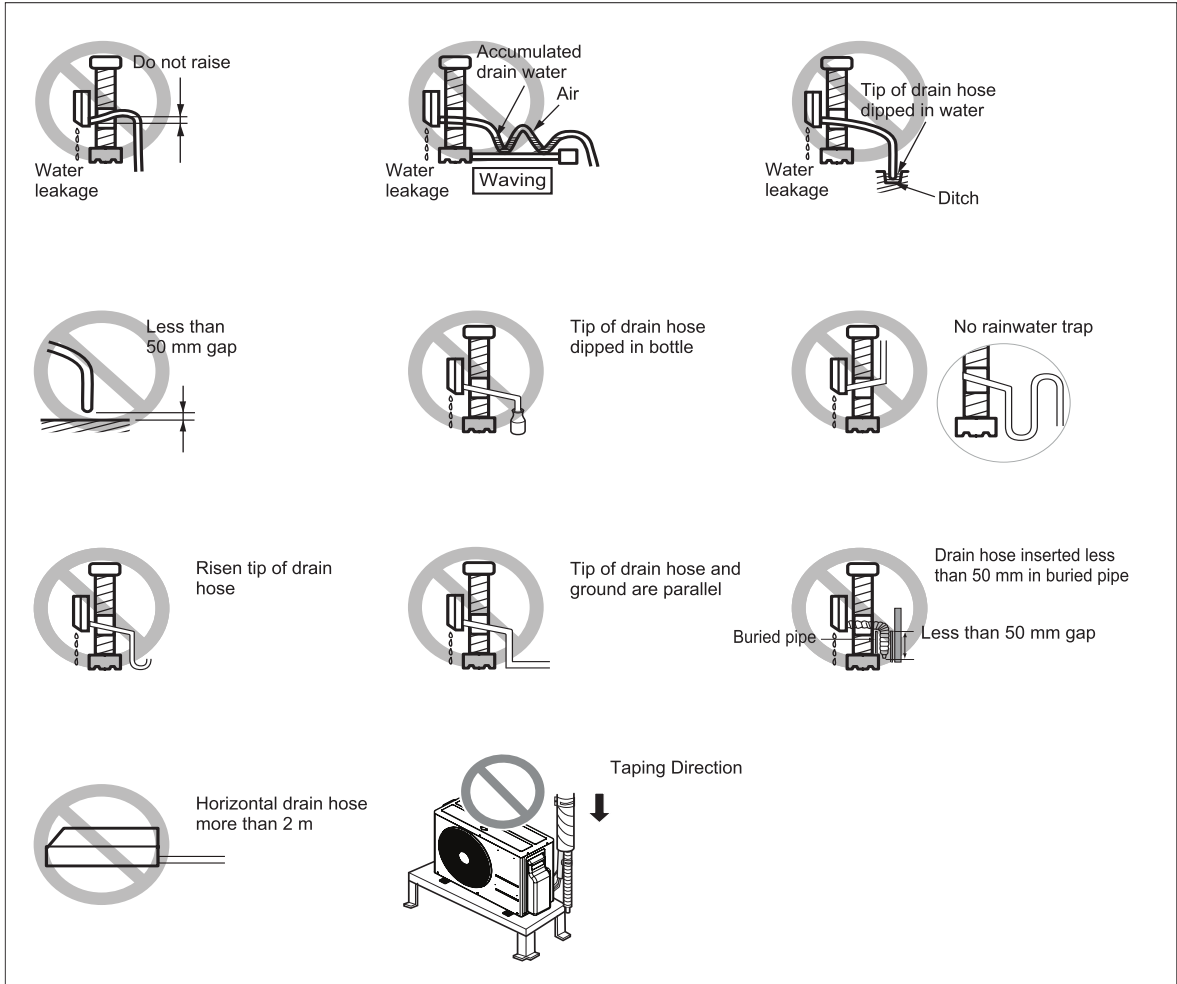
<p>1. Remove the filter.</p> <ul style="list-style-type: none">• Pull the filter up and out towards you.• Do not touch the metal part of the appliance when removing the filter.	
<p>2. Pour a cup of water into the back of the evaporator.</p>	
<p>3. Check the drainage condition.</p> <ul style="list-style-type: none">• Check whether there is any leakage from either the drain hose joint or the extended hose joint.• Check the water is flowing out through the drain hose.• If there is no leakage, but no water is flowing, pour a proper amount of water again.	
<p>4. Insert the filter again.</p>	

Example of Correct Drain Hose Installation



14. Installation

Example of Incorrect Drain Hose Installation



Note

- If the drain hose is not installed properly, water can leak indoors.
 - If the drain hose is installed at a higher position than the indoor unit
 - If the drain hose is entangled or kinked
 - If the end of the drain hose is dipped in water
 - If the gap between the end of the drain hose and the bottom is lower than 50 mm

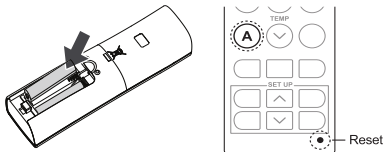


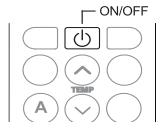
14. Installation

14.6 Check List and Installer Code

Check test item after installation

No.	Test Items	Check
1	Indoor unit is hooked to the installation plate properly.	
2	The gas and liquid service valves are fully opened.	
3	There is no refrigerant gas leakage.	
4	System is properly grounded. (No electrical leakage)	
5	The connection cable is clamped firmly.	
6	Indoor unit receives remote control commands and operates properly.	
7	Cooling/Heating operation is normal.	
8	There is no abnormal sound.	
9	There is no water leakage.	

How to set the installer code

1	Supply the power to the appliance which is turned off.	-
2	(Method I) Insert a battery with pressing (A) button. (Method II) Press “Reset” with pressing (A) button.	
3	Release (A) button. Then, a display of remote controller change to “00”.	
4	You can set a code by pressing the “TEMP” button.	
5	Press “ON/OFF” button to set a code to the appliance. Check buzzer beep.	
6	(Method I) Take out a battery and insert it again. (Method II) Press “Reset” to return to a user mode.	-
7	Cut the power to the appliance. Turn back on the power to the appliance after 30 seconds.	-

14. Installation

14.7 Outdoor Unit Cabin

Outdoor cabin louver requirement

1. Outdoor cabin type : Manual door open type
2. Louver angle : Less than 15° on the horizontal base
3. Louver interval: Over 100 mm (3-15/16 inch) (Recommend)
4. Louver shape : Wing type or plane type

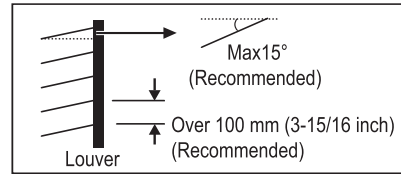
CAUTION

- Opening rate and suction should be considered for louvered outdoor room.
- Do not use 'S' type louver.

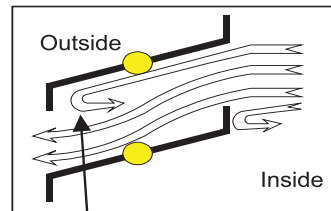
Note

The problem in case the louver opening rate is small.

- Noise can occur due to the increased velocity of the air passing through louver blade.
- Noise can occur due to the louver blade vibrations.
- Drop in outdoor fan performance (Excess static pressure damage can cause drop in the performance as well as outdoor heat exchange efficiency).
- In case the louver opening rate is small or there is insufficient air flow exchange, it might stop the air conditioner.



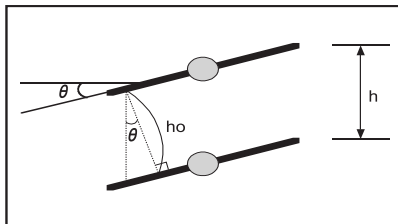
Section



Noise can occur due to the backward flow of the air passing through the louver blade



Opening rate by louver radian



$$\theta \leq 15^\circ$$

$$h_o = h * \cos \theta$$

$$\text{Total face area}(A) = H * W$$

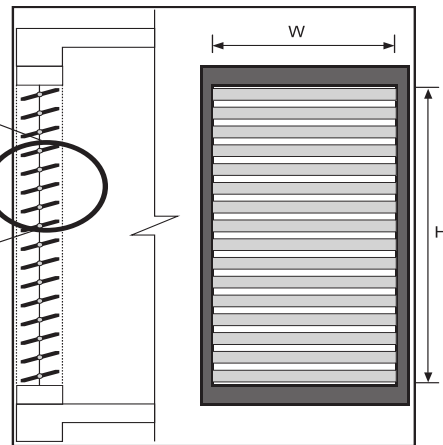
$$\text{Number of open space}(N) = (\text{number of louver} - 1)$$

$$\text{Effective face area}(A_f) = h_o * W * N$$

$$\text{Louver opening rate}(n) = A_f / A$$

$$\therefore A_f = A * n$$

Effective face area of cross section



[Side view]

[Front view]

14. Installation

14.8 Outdoor Unit Max External Static Pressure

Model	Tool	Air Flow Rate		Static Pressure	
		CMM	CFM	N / m ²	inWG
HSU09APC.ATTGLCP	UA3	28	989	7.6098	0.0306
HSU09IPC.ATTGLCP	UA3	28	989	7.6098	0.0306
HSU12IPA.ATTGLCP	UA3	28	989	7.6098	0.0306
HSU12IPC.ATTGLCP	UA3	28	989	7.6098	0.0306
HSU18IPA.ATTGLCP	UL2	31	1095	7.2405	0.0291
HSU24IPA.ATTGLCP	U24A	49	1730	9.6388	0.0387
HSU09IPA.ATTGLCP	UA3	28	989	7.6098	0.0306
HSU18ISW.ATTGLCP	UL2	38	1342	10.8796	0.0437
HSU24ISW.ATTGLCP	U24A	49	1730	9.6388	0.0387
HSU18ISU.ATTGLCP	UL2	31	1095	7.2405	0.0291
HSU09ISU.ATTGLCP	UA3	28	989	7.6098	0.0306
HSU12ISU.ATTGLCP	UA3	28	989	7.6098	0.0306



Air Solution
<http://hvacepdb.lge.com>
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The air conditioners manufactured by LG have received ISO9001 certificate for quality assurance and ISO14001 certificate for environmental management system. The specifications, designs, and information in this brochure are subject to change without notice.