

## Interior & Connections



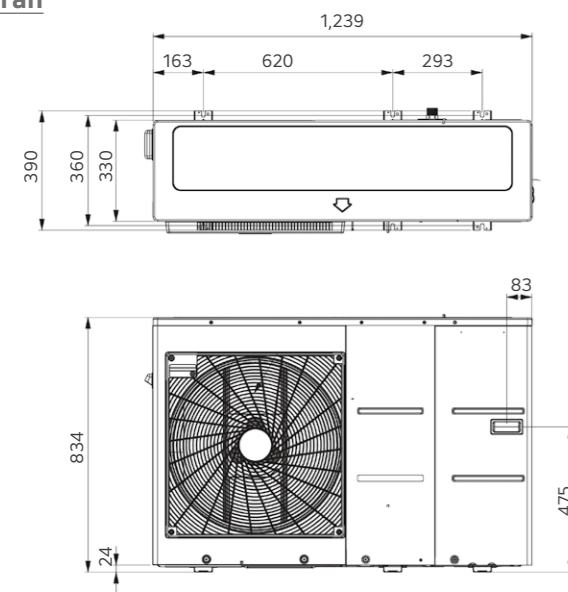
### Components

- 1 Standard III remote controller<sup>1)</sup>
- 2 R1 compressor
- 3 Compressor noise shield
- 4 Black fin heat exchanger (ref/air)
- 5 Plate type heat exchanger (ref/water)
- 6 Water pump
- 7 Water flow sensor
- 8 Expansion vessel (8 ℓ)
- 9 Water pressure sensor
- 10 Air vent valve
- 11 Strainer

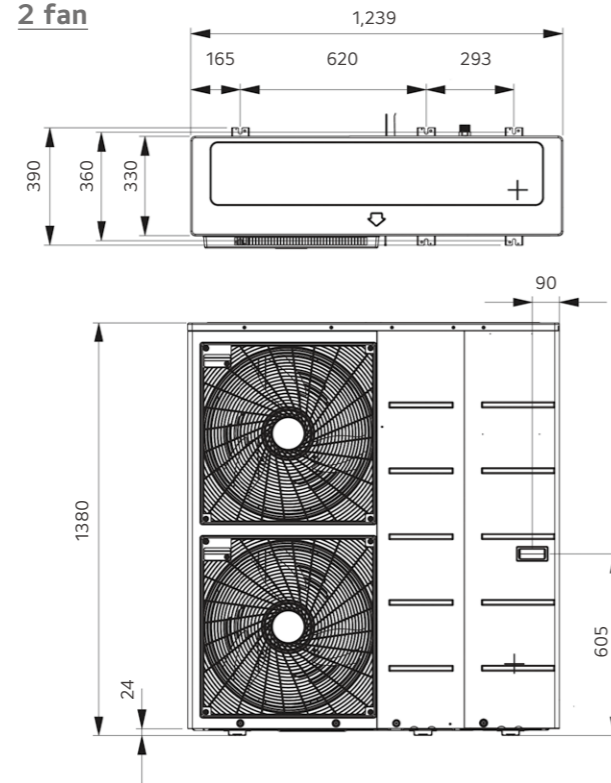
1) The remote controller is supplied with the product, but it needs to be installed separately.

## Product Dimensions

### 1 fan



### 2 fan



Installation  
video tutorial



Installation guide step 1



Installation guide step 2

## Specification

| Product Specification           |                                | Unit                    | HM091MR U44LAP                                         | HM121MR U34LAP                                         | HM141MR U34LAP                                         | HM161MR U34LAP                                         |
|---------------------------------|--------------------------------|-------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------|
| Capacity (heating)              | A7 / W35                       | kW                      | 9.00                                                   | 12.00                                                  | 14.00                                                  | 16.00                                                  |
|                                 | A7 / W55                       | kW                      | 5.50                                                   | 11.00                                                  | 11.50                                                  | 12.00                                                  |
| Capacity (cooling)              | A2 / W35                       | kW                      | 6.80                                                   | 11.00                                                  | 12.00                                                  | 13.80                                                  |
|                                 | A35 / W18                      | kW                      | 9.00                                                   | 12.00                                                  | 14.00                                                  | 16.00                                                  |
| Power input (heating)           | A7 / W35                       | kW                      | 1.96                                                   | 2.45                                                   | 2.92                                                   | 3.40                                                   |
|                                 | A7 / W55                       | kW                      | 2.04                                                   | 3.79                                                   | 4.04                                                   | 4.29                                                   |
| Power input (cooling)           | A2 / W35                       | kW                      | 1.94                                                   | 3.01                                                   | 3.31                                                   | 3.83                                                   |
|                                 | A35 / W18                      | kW                      | 2.14                                                   | 2.53                                                   | 3.26                                                   | 4.00                                                   |
| COP (heating)                   | A7 / W35                       | W/W                     | 4.60                                                   | 4.90                                                   | 4.80                                                   | 4.70                                                   |
|                                 | A7 / W55                       | W/W                     | 2.70                                                   | 2.90                                                   | 2.85                                                   | 2.80                                                   |
| EER (cooling)                   | A2 / W35                       | W/W                     | 3.50                                                   | 3.65                                                   | 3.63                                                   | 3.60                                                   |
|                                 | A35 / W18                      | W/W                     | 4.20                                                   | 4.75                                                   | 4.30                                                   | 4.00                                                   |
| SCOP (average climate)          | A35 / W7                       | W/W                     | 3.10                                                   | 3.30                                                   | 3.30                                                   | 3.10                                                   |
|                                 | Water outlet 35°C              | W/W                     | 4.55                                                   | 4.67                                                   | 4.62                                                   | 4.53                                                   |
| Operation range (leaving water) | Water outlet 55°C              | W/W                     | 3.20                                                   | 3.47                                                   | 3.46                                                   | 3.45                                                   |
|                                 | Cooling (min - max)            | °C(DB)                  | 5 - 27                                                 | 5 - 27                                                 | 5 - 27                                                 | 5 - 27                                                 |
| Water pump                      | Heating (min - max)            | °C(DB)                  | 15 - 65                                                | 15 - 65                                                | 15 - 65                                                | 15 - 65                                                |
|                                 | Domestic hot water (min - max) | °C(DB)                  | 15 - 80                                                | 15 - 80                                                | 15 - 80                                                | 15 - 80                                                |
| Water connecting pipes          | Water flow rate (rated)        | ℓ / min                 | 25.9                                                   | 34.5                                                   | 40.3                                                   | 46.0                                                   |
|                                 | Inlet                          | inch                    | Male PT 1" according to ISO 7-1 (tapered pipe threads) | Male PT 1" according to ISO 7-1 (tapered pipe threads) | Male PT 1" according to ISO 7-1 (tapered pipe threads) | Male PT 1" according to ISO 7-1 (tapered pipe threads) |
| Power supply                    | Outlet                         | inch                    | Male PT 1" according to ISO 7-1 (tapered pipe threads) | Male PT 1" according to ISO 7-1 (tapered pipe threads) | Male PT 1" according to ISO 7-1 (tapered pipe threads) | Male PT 1" according to ISO 7-1 (tapered pipe threads) |
|                                 | Case 1                         | V, φ, Hz                | 220 - 240, 1, 50                                       | 220 - 240, 1, 50                                       | 220 - 240, 1, 50                                       | 220 - 240, 1, 50                                       |
| Compressor                      | Type                           | -                       | Hermetic sealed scroll                                 | Hermetic sealed scroll                                 | Hermetic sealed scroll                                 | Hermetic sealed scroll                                 |
|                                 | Model x No.                    | -                       | RJB036MAA x 1                                          | RJB036MAA x 1                                          | RJB036MAA x 1                                          | RJB036MAA x 1                                          |
| Refrigerant                     | Motor type                     | -                       | BLDC                                                   | BLDC                                                   | BLDC                                                   | BLDC                                                   |
|                                 | Type                           | -                       | R32                                                    | R32                                                    | R32                                                    | R32                                                    |
| Sound power level               | Precharged amount              | kg                      | 1.4                                                    | 2.0                                                    | 2.0                                                    | 2.0                                                    |
|                                 | GWP (Global Warming Potential) | -                       | 675                                                    | 675                                                    | 675                                                    | 675                                                    |
| Dimensions                      | t-CO <sub>2</sub> eq.          | -                       | 0.945                                                  | 1.350                                                  | 1.350                                                  | 1.350                                                  |
|                                 | Control type                   | -                       | Electronic expansion valve                             | Electronic expansion valve                             | Electronic expansion valve                             | Electronic expansion valve                             |
| Weight                          | Heating (low noise)            | dB(A)                   | 55                                                     | 56                                                     | 57                                                     | 57                                                     |
|                                 | Heating (rated)                | dB(A)                   | 57.0                                                   | 60.0                                                   | 61.0                                                   | 61.0                                                   |
| Exterior                        | Heating (daytime max)          | dB(A)                   | 64                                                     | 65                                                     | 66                                                     | 66                                                     |
|                                 | Color                          | -                       | Warm gray                                              | Warm gray                                              | Warm gray                                              | Warm gray                                              |
| Connecting cable                | Net (W x H x D)                | mm                      | 1,239 x 834 x 330                                      | 1,239 x 1,380 x 330                                    | 1,239 x 1,380 x 330                                    | 1,239 x 1,380 x 330                                    |
|                                 | Weight                         | kg                      | 89.5                                                   | 119.1                                                  | 119.1                                                  | 119.1                                                  |
| RAL code                        | Color                          | -                       | Warm gray                                              | Warm gray                                              | Warm gray                                              | Warm gray                                              |
|                                 | Power supply cable (H07RN-F)   | mm <sup>2</sup> x cores | 4.0 x 3C                                               | 6.0 x 3C                                               | 6.0 x 3C                                               | 6.0 x 3C                                               |

Note.

1. Due to our policy of innovation, some specifications may be changed without notification.
2. Wiring cable size must comply with the applicable local and national codes.
3. Sound pressure level is measured on the rated condition in the anechoic rooms by ISO 3745 standard. Sound power level is measured on the rated condition in the reverberation rooms by ISO 3741 standard. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
4. Performances are accordance with EN14511 and reflect ErP testing conditions. Above gives the declared values at rated conditions acc. ErP regulation. For max capacities, refer to Performance Data.
- \* Rating current. Outdoor Temp. 7°C DB / 6°C WB / 35°C LWT
5. This product contains Fluorinated greenhouse gases.



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# THERMA V™ MONOBLOC S R32

- Continuous heating comfort even in extreme weather conditions
- Compact Monobloc concept with no additional hydronic components
- Low noise level for high installation flexibility



Visit our website





# WHY CHOOSE LG THERMA V MONOBLOC S?

## HIGHLIGHT OF LG THERMA V MONOBLOC S

- Excellent performance at low ambient temperature (100% @ -7°C)
- Wide operation range (ambient : -25 ~ 35°C / water side : 15 ~ 65°C)
- R32 refrigerant with low GWP
- R1 scroll compressor
- Corrosion resistance black fin
- LG ThinQ™



**R32** **65°C** **R1Compressor™** **Black Fin** **ThinQ™**

|                                               |                     |                         |                         |                         |                              |                   |                    |                |
|-----------------------------------------------|---------------------|-------------------------|-------------------------|-------------------------|------------------------------|-------------------|--------------------|----------------|
| <b>Excellent Performance &amp; Efficiency</b> | R1 compressor       | R32 refrigerant         | Max. water temp. 65°C   | Flash gas injection     | Wide operation range         | Black fin         | Solar thermal      | Energy state   |
| <b>User Convenience</b>                       | Intuitive interface | LG ThinQ                | 2 <sup>nd</sup> circuit | Various control options | 3 <sup>rd</sup> party boiler | Energy monitoring | Seasonal auto mode | Low noise mode |
| <b>Easy Installation</b>                      | All in one          | LG heating configurator | Clip connection         |                         |                              |                   |                    |                |

\* To use some of functions, it is required to install additional accessories.

## MONOBLOC CONCEPT - ALL IN ONE

Monobloc is a fully packaged piece of equipment, where the indoor and outdoor units are combined as one module. Therefore, there is no need for refrigerant piping work since Monobloc unit located outside is connected only to water piping. Further, hydronic components such as plate heat exchanger, expansion tank and water pump are included in the package.



## R32 Compliant with R32 Refrigerant

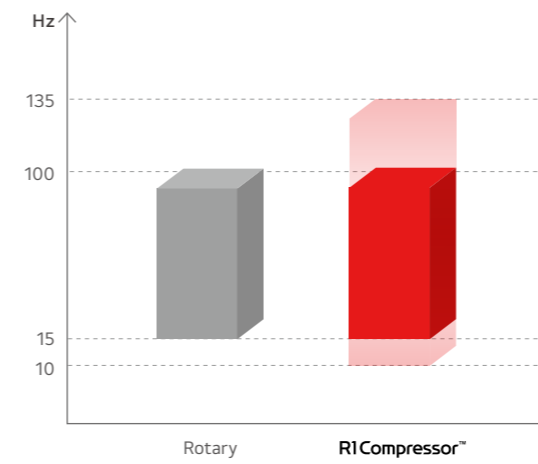
The LG THERMA V Monobloc uses R32 refrigerant.



## R1Compressor™ LG Technology

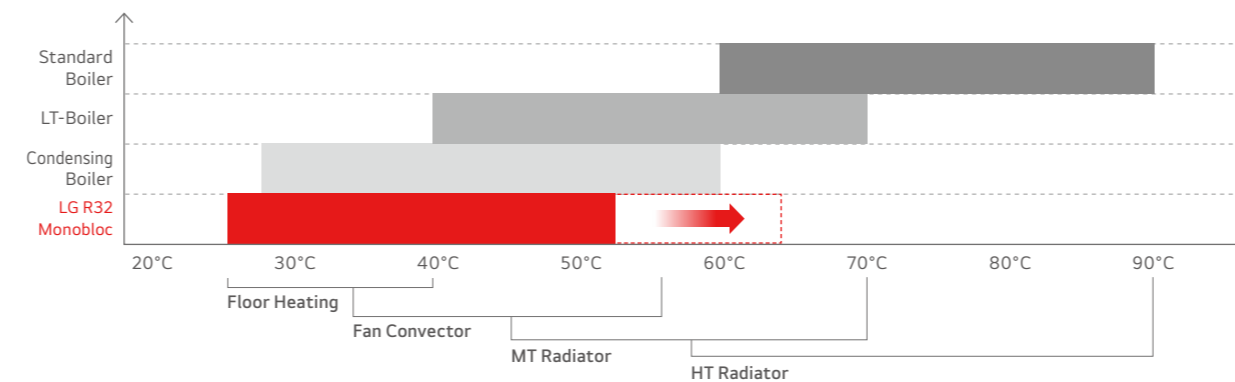
R1Compressor™ is a stable and simple compressing structure with low-vibration characteristics.

- Extended operation range (Max. 135 Hz)**
- Centrifugal oil return & Oil separating guide for oil discharge reduction**
- Shaft-through structure & Support both ends of shaft**
  - Solid compressor operation for enhanced durability
- Bottom compression & Simple structure**
  - Lower noise & vibration
  - Less weight
  - Superior reliability



## 65°C Leaving Water Temperature

By using R32 refrigerant and the R1 Compressor, the LG THERMA V R32 Monobloc can produce a Leaving Water Temperature of up to 65°C. It can be used to replace a mid-temperature radiator in a home refurbishment as well as in a new home development.



## Black Fin

The black coating with enhanced epoxy resin is applied for strong protection from various corrosive external conditions such as salt contamination and air pollution including fumes from factories.

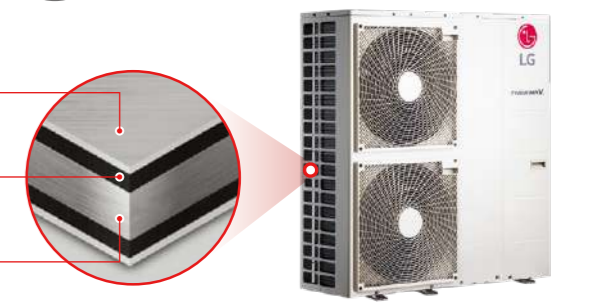
- Longer Lifespan, Lower Operational Costs**
- Strengthened Corrosion Resistant Coating**

## Black Fin

**Hydrophilic Film (Water Flow)**  
The Hydrophilic coating minimizes moisture build up on the fin.

**Acryl + Epoxy + Melamine Resin (Corrosion Resistant)**  
The Black coating provides strong protection from corrosion.

**Aluminum Fin**



## Stylish Remote Controller

LG's remote controller is optimised to operate the LG THERMA V R32 Monobloc with simple functionality that anyone can use.

### User-Friendly Interface

- Simple information display
- Easy-to-use navigation

### Easy-to-Read Energy Information

- Instant view of power consumption against target
- Power and energy consumption data weekly, monthly or annually

### Premium Design

- Modern 4.3 inch color LCD display
- Simple touch buttons (on/off and more)

### Convenient Functions

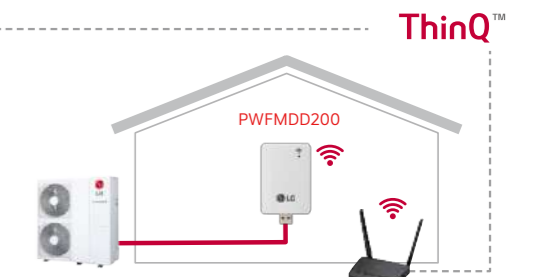
- Programmable settings to optimize use
- Customize your unit's on/off schedule, operation mode, target temperature and more
- Easy installation setting



## ThinQ™

Thanks to a LG Wi-Fi Modem and LG's smartphone app, LG ThinQ, users can monitor and remotely control compatible LG products and access the vast majority of functions available on the THERMA V controller. Via the app, it's simple to set the perfect temperature from any location and return to a blissfully warm indoor environment.

- Mandatory additional accessories required :
  - PWFMDD200 (LG Wi-Fi Modem)
  - PWYREW000 (10m extension connect cable in between THERMA V indoor and LG Wi-Fi Modem)
 could be required depends on installation condition.



\* Search "LG ThinQ" on Google market or App store, then download the app.  
\* Internet and Wi-Fi connection required. Data usage may apply.  
Controlling devices and features requires compatible smart devices. Features and services may be changed without notice.