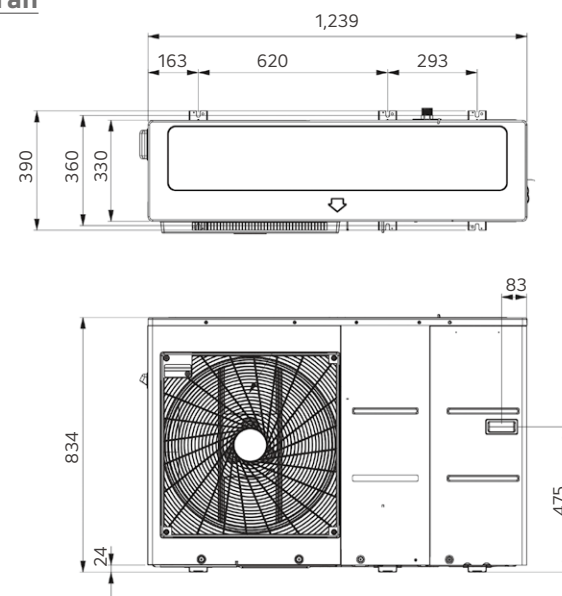## Interior & Connections

Components

1. Standard III remote controller [1]
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

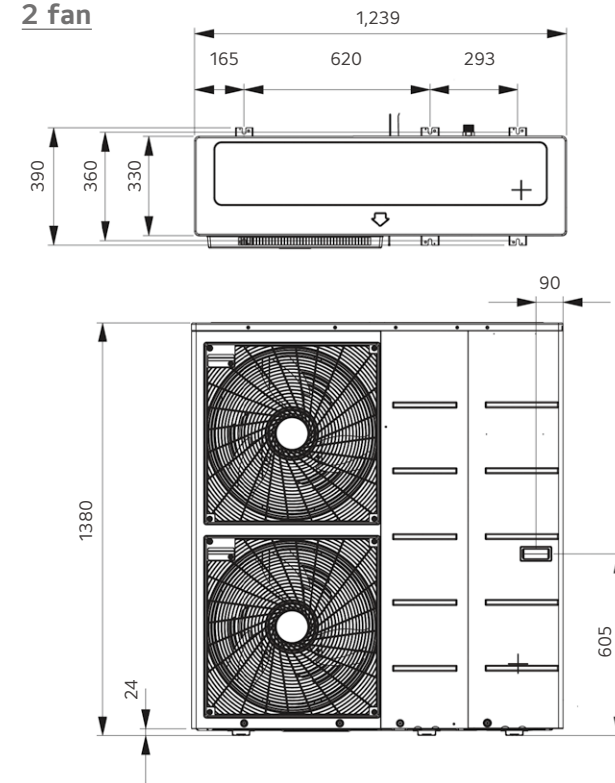1) The remote controller is supplied with the product, but it needs to be installed separately.

Air temp sensor integrated

Product Dimensions

1 fan

1,239 · 163 · 620 · 293 · 390 · 360 · 330 · 834 · 24 · 475 · 83

2 fan

1,239 · 165 · 620 · 293 · 390 · 360 · 330 · 1380 · 24 · 605 · 90

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
	A2 / W35	kW	6.80	11.00	12.00	13.80
Capacity (cooling)	A35 / W18	kW	9.00	12.00	14.00	16.00
	A35 / W7	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
	A2 / W35	kW	1.94	3.01	3.31	3.83
Power input (cooling)	A35 / W18	kW	2.14	2.53	3.26	4.00
	A35 / W7	kW	2.90	3.64	4.24	5.16
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
	A2 / W35	W/W	3.50	3.65	3.63	3.60
EER (cooling)	A35 / W18	W/W	4.20	4.75	4.30	4.00
	A35 / W7	W/W	3.10	3.30	3.30	3.10
SCOP (average climate)	Water outlet 35℃	W/W	4.55	4.67	4.62	4.53
	Water outlet 55℃	W/W	3.20	3.47	3.46	3.45
Operation range (leaving water)	Cooling (min – max)	℃(DB)	5 ~ 27	5 ~ 27	5 ~ 27	5 ~ 27
	Heating (min – max)	℃(DB)	15 – 65	15 – 65	15 – 65	15 – 65
	Domestic hot water (min – max)	℃(DB)	15 – 80	15 – 80	15 – 80	15 – 80
Water pump	Water flow rate (rated)	ℓ / min	25.9	34.5	40.3	46.0
Water connecting pipes	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)
	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)
Power supply	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
	Motor type	-	BLDC	BLDC	BLDC	BLDC
Refrigerant	Type	-	R32	R32	R32	R32
	Precharged amount	kg	1.4	2.0	2.0	2.0
	GWP (Global Warming Potential)	-	675	675	675	675
	t-CO_2 eq.	-	0.945	1.350	1.350	1.350
	Control type	-	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve	Electronic expansion valve
Sound power level	Heating (low noise)	dB(A)	55	56	57	57
	Heating (rated)	dB(A)	57.0	60.0	61.0	61.0
	Heating (daytime max)	dB(A)	64	65	66	66
Dimensions	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	Net	kg	89.5	119.1	119.1	119.1
Exterior	Color	-	Warm gray	Warm gray	Warm gray	Warm gray
	RAL code	-	RAL 7044	RAL 7044	RAL 7044	RAL 7044
Connecting cable	Power supply cable (H07RN-F)	mm² × 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℃ DB / 6℃ WB / 35℃ LWT
5. This product contains Fluorinated greenhouse gases.
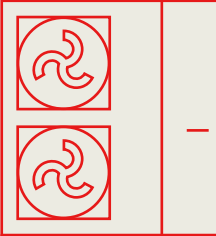
Distributed by

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℃ R1 Compressor™ Black Fin ThinQ™

Excellent Performance & Efficiency	R1 compressor	R32 refrigerant	Max. water temp.	Flash gas injection	Wide operation range	Black fin	Solar thermal	Energy state
User Convenience	Intuitive interface	LG ThinQ	2ⁿᵈ circuit	Various control options	3ʳᵈ party boiler	Energy monitoring	Seasonal auto mode	Low noise mode
Easy Installation	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.

Refrigerant Pipe | Hydronic Components Included in the Monobloc
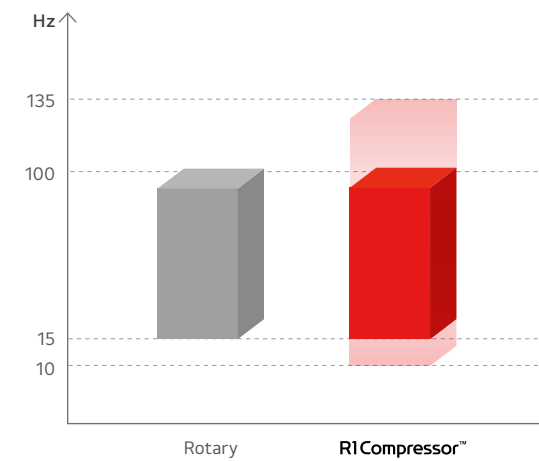
Outdoor unit | Indoor unit | THERMA V. R32 Monobloc | PHE (Plate heat exchanger) | Expansion tank | A-Class water pump

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Compliant with R32 Refrigerant

The LG THERMA V Monobloc uses R32 refrigerant.

R410A	2,088	
R32	675	68% ↓

* Based on IPCC Fourth Assessment Report (AR4)

GWP (Global Warming Potential)

R1 Compressor™ LG Technology

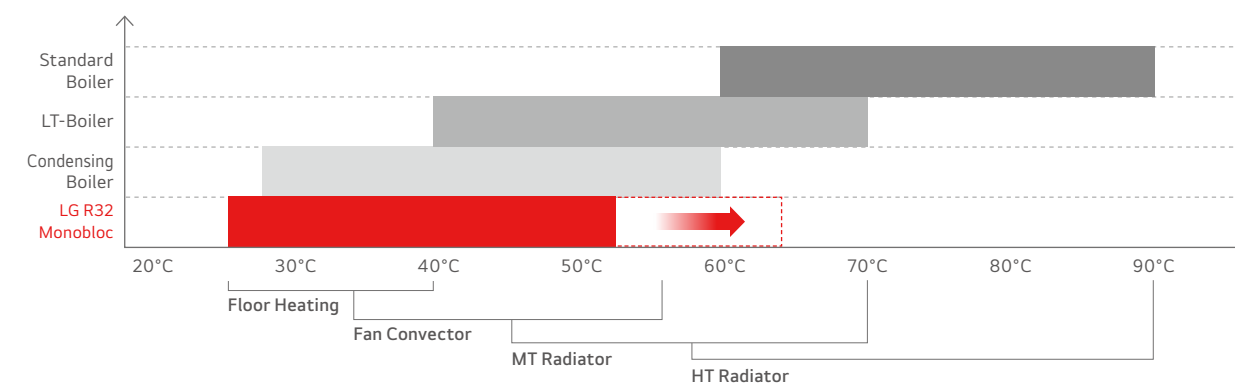R1 Compressor™ is a stable and simple compressing structure with low-vibration characteristics.

Extended operation range (Max. 135Hz)

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

Hz

135 / 100 / 15 / 10

Rotary | R1 Compressor™

65℃ 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.

Standard Boiler
LT-Boiler
Condensing Boiler
LG R32 Monobloc

20°C | 30°C | 40°C | 50°C | 60°C | 70°C | 80°C | 90°C

Floor Heating | Fan Convector | MT Radiator | HT Radiator

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.
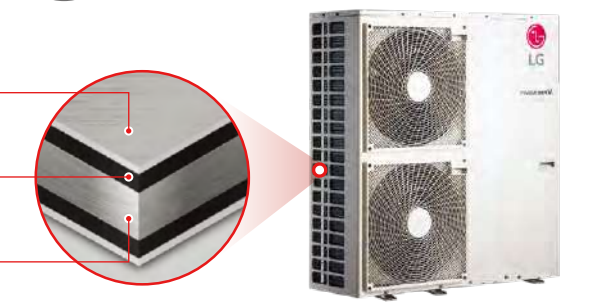
Longer Lifespan, Lower Operational Costs | Strengthened Corrosion Resistant Coating

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
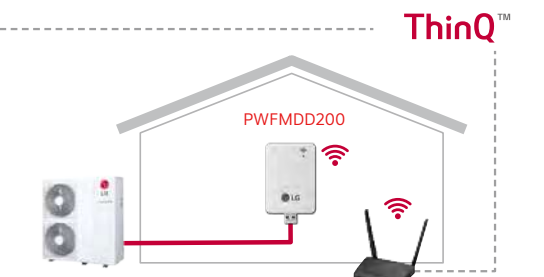- Easy installation setting

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.

ThinQ™

PWFMDD200

* 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.