EXCELLENT PERFORMANCE

Excellent Performance at Low Ambient Temperature (100% @ -7°C)
Wide Operation Range (Leaving water temperature up to 65°C)

Performance in Heating mode (Include defrost effect)

Outdoor Temperature		Water Flow Rate 25.9 LPM				Water Flow Rate 16.2 LPM		Water Flow Rate 12.9 LPM	
		LWT 30°C	LWT 35°C	LWT 40°C	LWT 45°C	LWT 50°C	LWT 55°C	LWT 60°C	LWT 65°C
		TC	TC	TC	TC	TC	TC	TC	TC
-25	°CDB	5.66	5.09	4.57	4.02				
-20	°CDB	6.61	6.50	5.61	4.89	4.32			
-15	°CDB	7.33	7.36	7.25	6.99	6.35	5.77		
-7	°CDB	9.00	9.00	9.00	9.00	9.00	8.42		
-4	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	6.87	
-2	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	7.09	
2	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	7.48	
7	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	7.87	7.14
10	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	8.06	7.34
15	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	8.28	7.58
18	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	8.36	7.68
20	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	8.40	7.72
35	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	8.45	7.80

Performance in Cooling mode

Outdoor Temperature		Water Flow Rate 25.9 LPM						
		LWT 7°C	LWT 10°C	LWT 13°C	LWT 15°C	LWT 18°C	LWT 20°C	LWT 22°C
		TC	TC	TC	TC	TC	TC	TC
10	°CDB	8.50	9.31	10.12	10.66	11.47	12.00	12.54
20	°CDB	8.70	9.19	9.67	9.99	10.48	10.8	11.13
30	°CDB	8.90	9.06	9.22	9.33	9.49	9.60	9.71
35	°CDB	9.00	9.00	9.00	9.00	9.00	9.00	9.00
40	°CDB	9.10	9.02	8.94	8.89	8.81	8.76	8.71
45	°CDB	9.20	9.04	8.89	8.78	8.63	8.52	8.42

Note
1. DB : Dry bulb temperature (°C), LWT : Leaving water temperature (°C), LPM : Liters per minute (ℓ/min)
2. TC : Total capacity (kW), COP : Coefficient of performance (kW/kW)
3. Direct interpolation is permissible. Do not extrapolate.
4. Measuring procedure follows EN14511.
   • Rated values are based on standard conditions, and it can be found on specifications.
   • Above table values may not be matched according to installation condition. Except for rated value, the performance is not guaranteed.
   • In accordance with the test standard (or nations), the results may vary.
   • The shaded areas are not guaranteed continuous operation.

SPECIFICATION

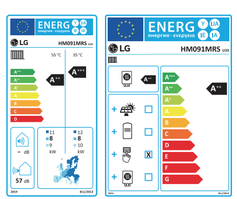
Product Specification

Description		OAT	LWT	Unit	HM091MRS U33
Nominal Capacity	Heating	7°C	35°C	kW	9.00
			55°C	kW	6.00
		2°C	35°C	kW	8.00
	Cooling	35°C	18°C	kW	9.00
			7°C	kW	9.00
Nominal Power Input	Heating	7°C	35°C	kW	1.76
			55°C	kW	2.14
		2°C	35°C	kW	2.16
	Cooling	35°C	18°C	kW	1.80
			7°C	kW	3.00
COP	Heating	7°C	35°C	W/W	5.10
			55°C	W/W	2.80
		2°C	35°C	W/W	3.70
EER	Cooling	35°C	18°C	W/W	5.00
			7°C	W/W	3.00
Operation Range (Outdoor Air)	Heating	Min. ~ Max.		°C DB	-25 ~ 35
	Cooling	Min. ~ Max.		°C DB	5 ~ 48
Operation Range (Leaving Water Temp.)	Heating	Min. ~ Max.		°C DB	15 ~ 65
	Cooling	Min. ~ Max.		°C DB	5 ~ 27
	DHW	Min. ~ Max.		°C DB	15 ~ 80
Refrigerant	Type			-	R32
	GWP (Global Warming Potential)			-	675
	Precharged Amount			kg	2.1
	tCO_2eq			tCO_2eq	1.418
Compressor	Quantity			EA	1
	Type			-	Hermetic Sealed Scroll
Water Flow Rate	Rated			ℓ/min	25.9
Piping Connection	Water Circuit	Inlet		mm(inch)	Male PT 25(1)
		Outlet		mm(inch)	Male PT 25(1)
Dimensions	Unit	W x H x D		mm	1,239 × 1,380 × 330
Weight	Unit			kg	115.5
Sound Power Level	Heating	Rated		dB(A)	57
		Low noise mode		dB(A)	54
Sound Pressure Level (at 5m)	Heating	Rated		dB(A)	35
		Low noise mode		dB(A)	32
Power Supply	Phase / Frequency / Voltage			Ø / Hz / V	1 / 50 / 220-240
	Maximum Running Current			A	15
	Recommended Circuit Breaker			A	16

* Due to our policy of innovation some specifications may be changed without notification.
* Wiring cable size must comply with the applicable local and national codes.
  And "Electric characteristics" chapter should be considered for electrical work and design.
  Especially the power cable and circuit breaker should be selected in accordance with that.
* LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature.
* DHW 58~80 Operating is available only when the booster heater is operating.
* Sound level values are measured at anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
* Performances are accordance with EN14511 and reflect ErP testing conditions.
  Above gives the declared values at rated conditions acc. ErP regulation.
* This product contains fluorinated greenhouse gases.

Seasonal Energy

Description			Unit	HM091MRS U33
Space Heating (According to EN14825)	Average Climate Water Outlet 35°C	SCOP	-	4.68
		Rated Heat Output (Prated)	kW	8
		Seasonal Space Heating Efficiency (ηs)	%	184
		Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A+++
		Annual Energy Consumption	kWh	3,533
	Average Climate Water Outlet 55°C	SCOP	-	3.33
		Rated Heat Output (Prated)	kW	8
		Seasonal Space Heating Efficiency (ηs)	%	130
		Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A++
		Annual Energy Consumption	kWh	4,971



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LG Life's Good

GETTING TO KNOW
THERMA V MONOBLOC SILENT

LOW SOUND LEVEL ALLOWING HIGH INSTALLATION LOCATION FLEXIBILITY

Low Sound Level

With a sound level that is quieter than a library, Therma V Monobloc Silent operates at 32dB(A) in Low noise mode, creating a tranquil environment indoors and outdoors.

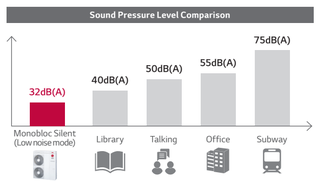
Low noise mode

54 dB(A)
Sound Power Level

32 dB(A)
Sound Pressure Level at 5m

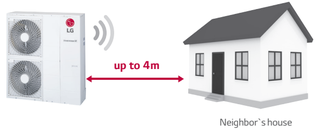
Sound Pressure Comparison

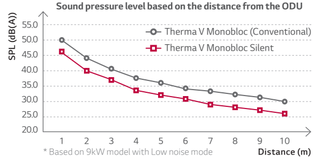
Therma V Monobloc Silent generates a sound pressure level lower than a library.



Installation Flexibility

Therma V Monobloc Silent can be installed up to 4m (in Low noise mode) from neighboring houses while complying with noise regulations.





* Based on 9kW model with Low noise mode

Noise Regulation	Germany (TA Lärm)		Austria (ÖNORM S 5021)	
In residential area (Rest area)	Day (06~22)	50dB(A)	Day (06~19)	45dB(A)
			Evening (19~22)	40dB(A)
	Night (22~06)	35dB(A)	Night (22~06)	35dB(A)

8 KEY ADVANTAGES

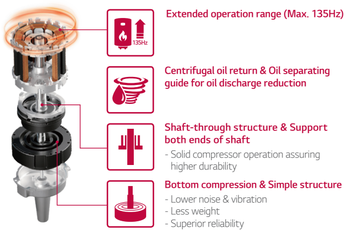
- Provide installation flexibility by offering low sound level. 32dB(A) SPL at 5m, Low noise mode.
- Promotes green living through R32 refrigerant's low global warming potential.
- Provides smart living solutions with Wi-Fi connectivity via LG ThinQ.
- Achieves excellent performance, especially at low ambient temperatures under -7°C.
- Optimizes efficiency with LG's cutting-edge R1 Compressor technology.
- Offers a user-friendly and intuitive interface via a new, stylish remote control.
- Provides a sufficient level of heating by supplying hot water up to 65°C.
- Adheres to EU regulations with energy rating of A+++.

COMPLIANT WITH THE NEW, ECO-CONSCIOUS R32 REFRIGERANT

Make your home more eco-conscious with R32, a new refrigerant that's more efficient and boasts a 68% reduced Global Warming Potential (GWP) than the alternative.

R1 Compressor™ LG'S REVOLUTIONARY TECHNOLOGY

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

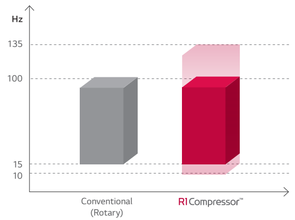


Extended operation range (Max. 135Hz)

Centrifugal oil return & Oil separating guide for oil discharge reduction

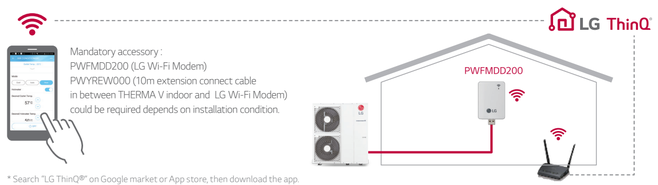
Shaft-through structure & Support both ends of shaft
- Solid compressor operation assuring higher durability

Bottom compression & Simple structure
- Lower noise & vibration
- Less weight
- Superior reliability



LG 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 accessory :
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.

STYLISH REMOTE CONTROL

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
- New 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

LG's R32 AIR TO WATER HEAT PUMP

Aims to be the Best Heating Solution

Provides space heating and domestic hot water supply throughout your home all year long.