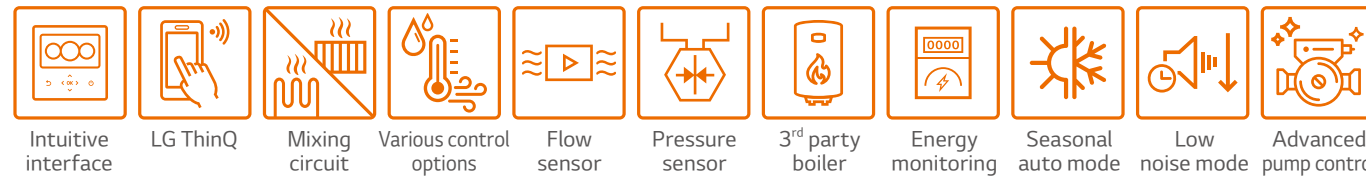
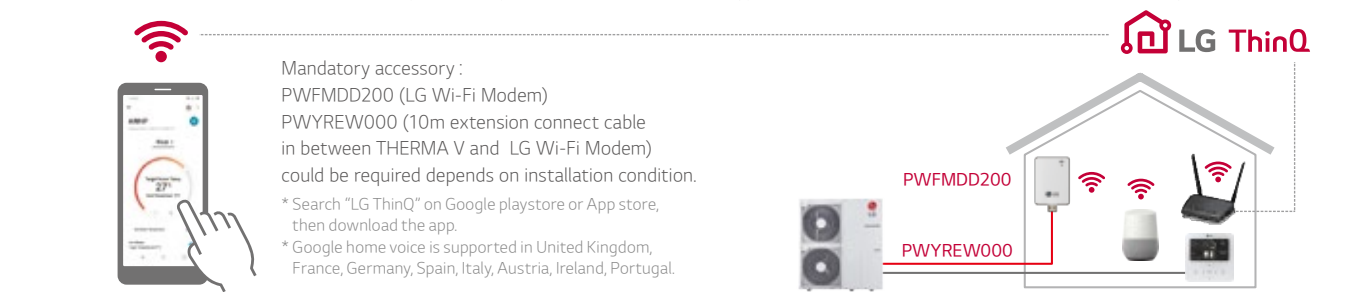


User Convenience



Seamless Connectivity

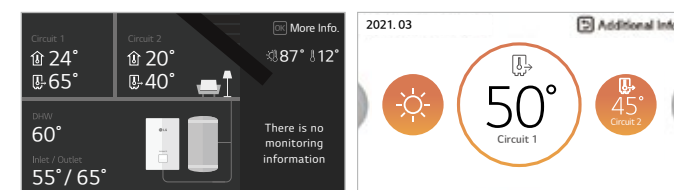
LG ThinQ allows users to monitor and control compatible LG products remotely, so they can set the temperature and regulate the use of their THERMA V anytime, anywhere. ThinQ technology also works with voice activation with Google Home.



Intuitive Control

THERMA V is equipped with a new remote controller which supports various functions.

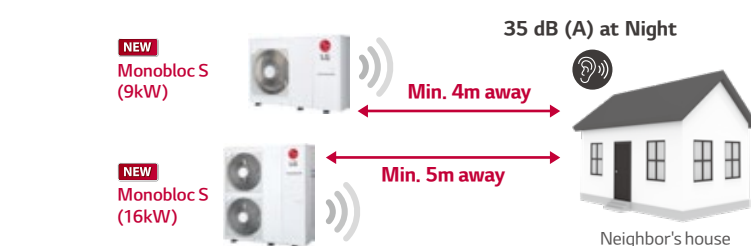
- Premium design (4.3 inch color LCD)
- User friendly interface (simple graphic, icon & text)
- Convenient functions (easy schedule setting & installer setting)
- Energy monitoring without meter interface (estimated power consumption)



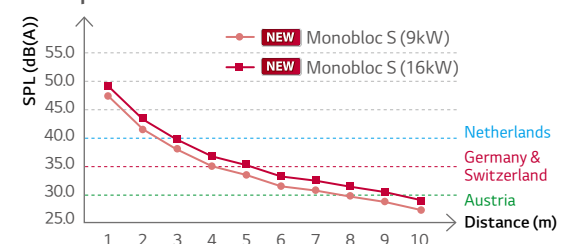
Reduced Noise Level

R32 Monobloc S can be installed at the minimum of 4m away (based on 9kW model & Low noise mode) from neighboring houses while complying with German noise regulation.

Description	Germany	Austria	Switzerland	Netherlands
Sound Pressure Threshold	50 dB (A) (06:00 - 22:00)	40 dB (A) (06:00 - 19:00)	40 dB (A) (07:00 - 19:00)	45 dB (A) (07:00 - 19:00)
	-	35 dB (A) (19:00 - 22:00)	-	-
	35 dB (A) (22:00 - 06:00)	30 dB (A) (22:00 - 06:00)	35 dB (A) (19:00 - 07:00)	40 dB (A) (19:00 - 07:00)



Sound pressure level* based on the distance from the ODU



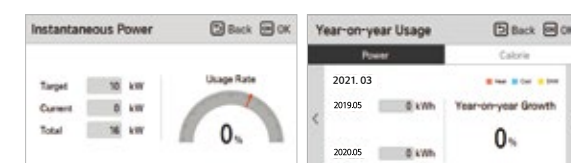
Seasonal Auto Mode

The operation mode and target temperature will be changed according to the outdoor temperature automatically. Moreover, this function can be conveniently set using visualized graphics.

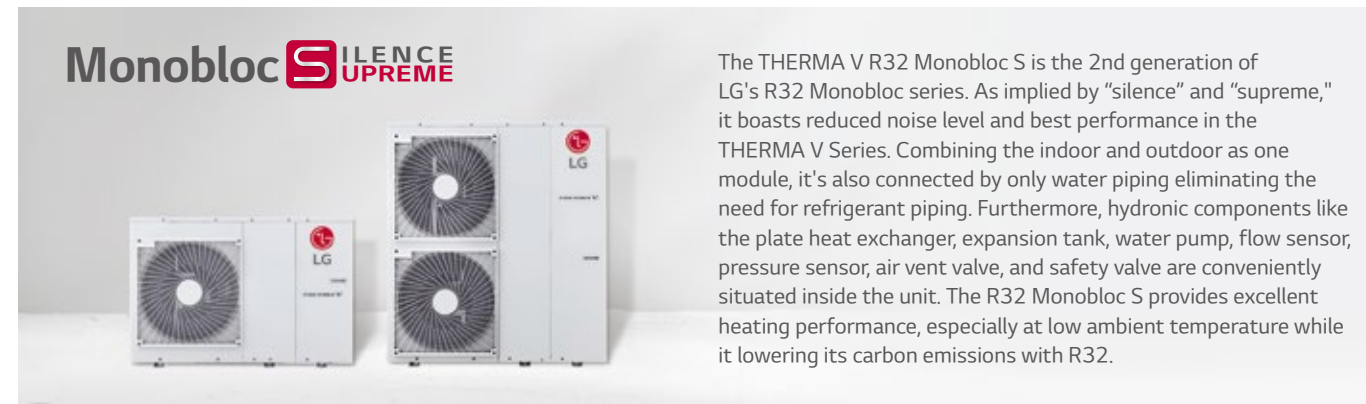


Energy Monitoring

Without connection of Meter Interface, estimated power consumption for Therma V and backup heater can be monitored on the remote controller.



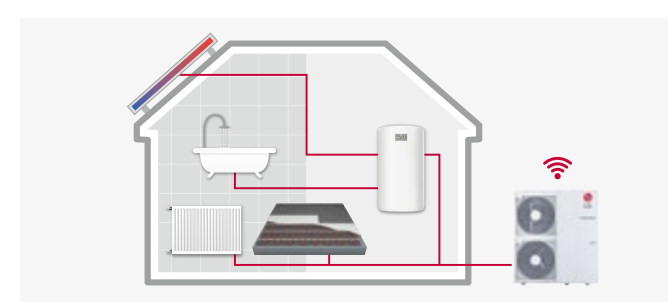
THERMA V™ R32 Monobloc S at a Glance



THERMA V™ R32 Monobloc S

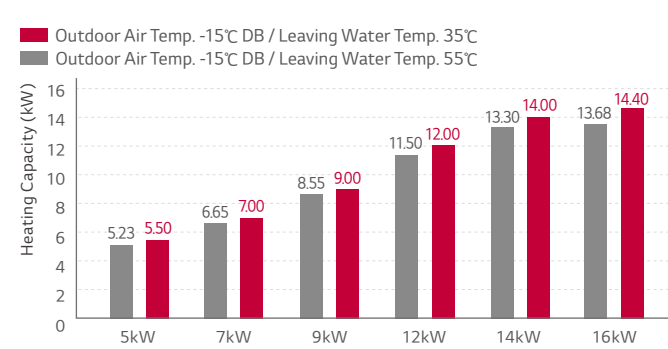
Enhanced installation flexibility

- All-in-one outdoor unit
- Low sound level allowing high installation location flexibility
- ODU with built-in hydronic components : water pump, flow sensor, pressure sensor, expansion tank, air vent, etc.
- User-friendly installation settings interface
- Optional electric backup heater (3kW or 6kW)
- Enhanced connectivity for 3rd party backup heater



High efficiency & wide operational range

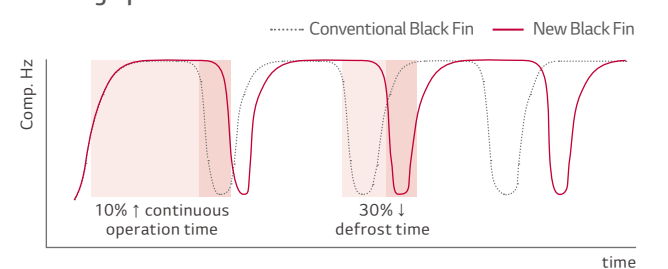
- R32 refrigerant with reduced global warming potential (GWP)
- Less environmental impact with low refrigerant amount
- 100% heating capacity at -15°C OAT (@ LWT 35°C, except for 16kW model)
- Improved heating operation at defrost condition
- SCOP up to 4.67 (Average climate / Low temp. application) : A+++
- SCOP up to 3.47 (Average climate / Mid temp. application) : A++
- COP up to 4.90 (Outdoor air 7°C / Leaving water 35°C)
- Leaving water temperature up to 65°C
- Expanded operative range of solar thermal system



Innovative design & technology

- Improved heat exchanger design (New Black Fin)
- Built-in water flow & pressure sensors to monitor real-time water circuit
- Advanced water pump control (Optimal flow rate, fixed capacity, fixed flow rate, fixed ΔT)
- Enhanced 2nd circuit control logic
- Energy monitoring of estimated power consumption via remote controller
- Modbus connectivity without gateway
- Control for DHW recirculation pump based on schedule

Heating operation at defrost condition



* This result is based on LG internal test and it can be different depending on actual environment.

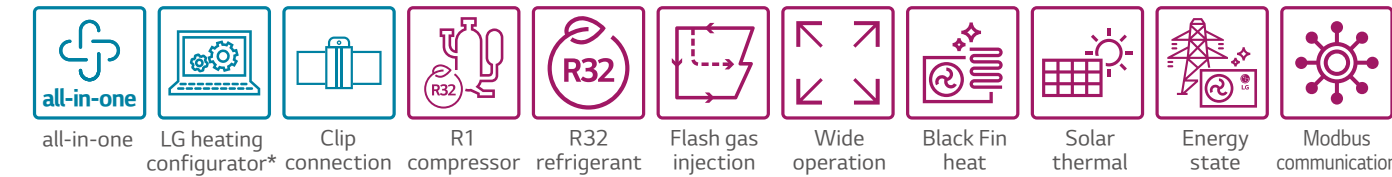
Product	Capacity (kW)	Unit		Appearance
		1Ø	3Ø	
R32 Monobloc S	5	HM051MR U44	-	
	7	HM071MR U44	-	
	9	HM091MR U44	-	
	12	HM121MR U34	HM123MR U34	
	14	HM141MR U34	HM143MR U34	
	16	HM161MR U34	HM163MR U34	



THERMA V™ R32 Monobloc S

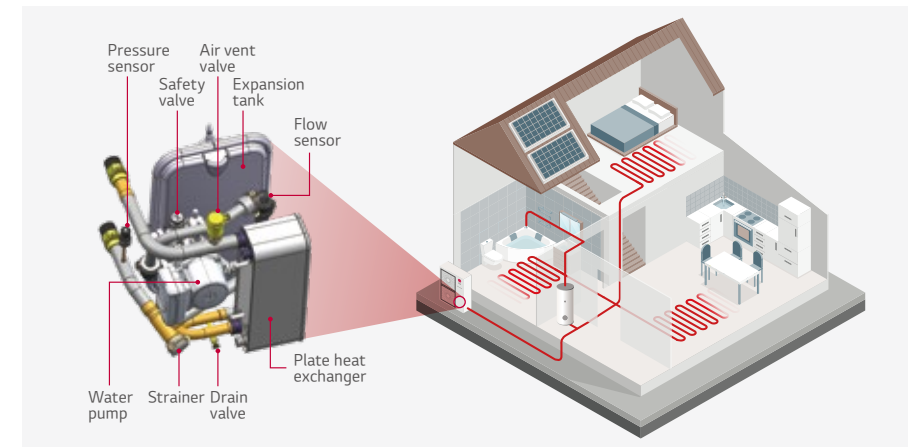


EASY INSTALLATION EXCELLENT PERFORMANCE & EFFICIENCY



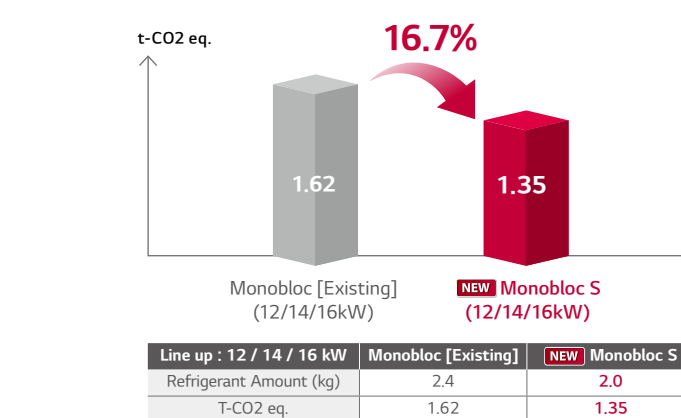
Monobloc Concept

- R32 Monobloc S is an all-in-one concept and reduced weight allows for quicker and easier installations.
- Additional hydronic components are included in the package
- Easier and quicker installation without refrigerant piping work



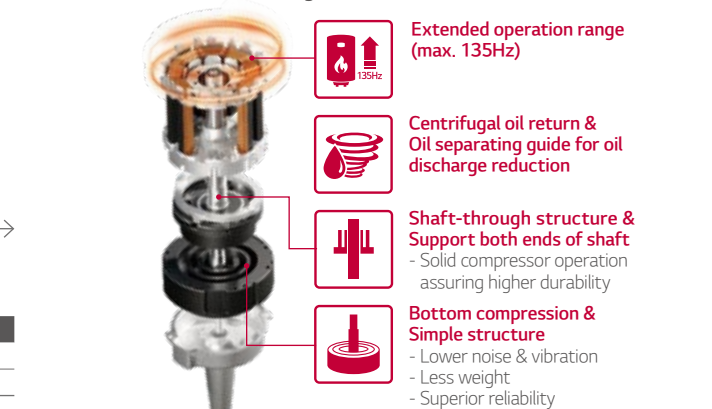
Less Environmental Impact

R32 Monobloc S produces less carbon emission by reducing the amount of refrigerant in the system compared to current model.



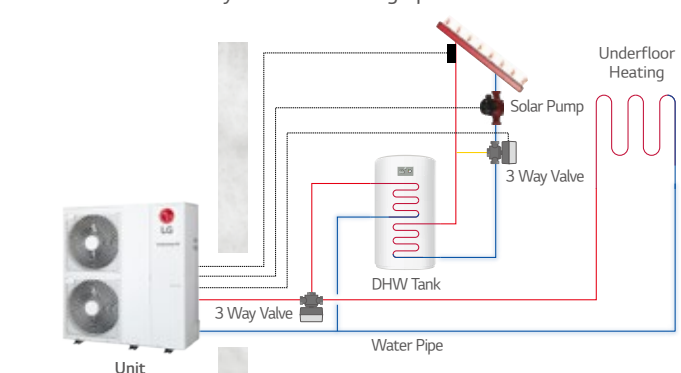
RI Compressor™ LG's Revolutionary Technology

RI Compressor™ technology offers advanced efficiency, reliability and operational range due in part to the enhanced tilting motion of the scroll.



Combination with Solar Thermal System

By combining the solar system with Therma V, the efficiency of DHW heating operation can be maximized.



* Mandatory accessory: PT-1000 type solar thermal temp. sensor (field supply)

Direct Modbus Communication

R32 Monobloc S can be connected and controlled by 3rd party control system using Modbus protocol directly, without Modbus RTU gateway.

