

# MONOBLOC R32 TWIN FAN

Model	HM12*M   HM14*M   HM16*M
Capacity	12KW / 14KW / 16KW
Type	OUTDOOR UNIT AWHP
Phase	Single* (1) or Three* (3)

## Overview

The LG Therma V R32 Monobloc is a fully packaged outdoor unit. There is no need for refrigerant piping work since the Monobloc is a sealed unit and must be located outside only connecting to water piping. Hydronic components such as plate heat exchanger, expansion tank and water pump are included in the inside of the unit. This product has the following characteristics which make it best suited for small and medium sized houses or flats.

## Specifications

Dimensions	H * W * D (mm)	1,239 * 1,380 * 330	
Heating operation range	Water side	16 ~ 65°C	
	Ambient side	[minus] -25 ~ 35°C	
Sound pressure (in accordance with ISO 3745)		@1m	52dB(A)
Inverter compressor	Type: R1	Range (Hz)	10 ~ 150

The twin fan unit is compact meeting permitted planning permission rights (PDR)

Model	HP	Nominal Capacity (kW)	Cubic Volume (m3)	Weight (kg)	Charged R32 (kg)
HM12*M.U33	12	12.00	0.564	125	2.4
HM14*M.U33	14	14.00	0.564	125	2.4
HM16*M.U33	16	16.00	0.564	125	2.4

## Key Features

- Side discharge, suitable to install on ground or balconies
- Compact size, light weight, easy to install
- Under permitted planning permission rights (PDR)
- Low noise, and night silent mode available
- Heating leaving water temperature (LWT) up to 65°C
- Inverter compressor** with enhanced durability and reliability
- High efficiency with a wide operation range
- 100% capacity down to -7°C** ambient temperature at 55°C water temperature
- High performance (heating operation) in very low outdoor temperatures

## Outdoor coils - Black Fin Coating

The aluminium fin has a factory applied highly corrosion resistant epoxy resin coating, covered with a Hydrophilic coating on top, to minimise moisture build-up on the surface of the heat exchanger fins. The Black Fin coating improves the unit durability and prolongs the product lifespan

Black Fin technology has been independently tested in compliance with ISO 21207 and the results were certified by global certification organisation UL (Underwriters Laboratory).

Nominal capacity	HM121M.U33 HM123M.U33	HM141M.U33 HM143M.U33	HM161M.U33 HM163M.U33
LWT 35°C at OAT 7°C	12.00	14.00	16.00
LWT 55°C at OAT 7°C	12.00	14.00	16.00
LWT 35°C at OAT 2°C	12.00	14.00	16.00
LWT 35°C at OAT -7°C	12.00	14.00	16.00
LWT 55°C at OAT -7°C	12.00	14.00	16.00
COP	HM121M.U33 HM123M.U33	HM141M.U33 HM143M.U33	HM161M.U33 HM163M.U33
LWT 35°C at OAT 7°C	2.80	2.80	2.80
LWT 55°C at OAT 7°C	3.52	3.5	3.50
LWT 35°C at OAT 2°C	4.45	4.45	4.45

# THERMA V™

AIR TO WATER HEAT PUMP SYSTEM



## MCS Product Approved

MCS Product Certification Scheme Standards: MCS010, MCS011, MCS007

Certificate number	KIWA 00033
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## Wired controller

The Monobloc unit is supplied with a premium wired controller.

- 4.3" colour, LCD graphic screen
- Up to 30 events can be set; including installer functions such as data logging
- operational history
- error reports

LG Configuration software up to 50 history items stored.

The controller can be configured based on site specific installation requirements and uploaded to a memory card. The memory card can be used to commission multiple units, saving time and money.

## Optional Wi Fi control - ThinQ app

Users can access their Therma V system from anywhere at anytime, using LG's ThinQ app (Android or iOS based mobile phones) or even voice control from smart speaker (optional accessory required).

Simple operation for various functions include:

- On/Off,
- Operation Mode Selection,
- Current temperature,
- Set temperature,
- On/Off Reservation and
- Energy Monitoring.

Mandatory Accessory	PWFMDD200 (LG Wi-Fi Modem)
	PWYREW000 (10m extension connect cable inbetween the THERMA V unit and Wi-Fi module)

## 7 years warranty

A parts and labour contribution for up to 7 years. Subject to attending LG Therma V training course and other stipulations as shown in LG's Warranty Policy reference: [LGUNWPv3\\_03\\_19](#). Which can be found at <http://partner.lge.com/uk/index.lge>.

This product contains fluorinated greenhouse gases (R32)



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**THERMA V™**

AIR TO WATER HEAT PUMP SYSTEM

Category	Unit	Model Name		
		Capacity (kW)		
		12.0	14.0	16.0
1 Phase Model 220 ~ 240V, 1Ø, 50Hz	Monobloc Unit	HM121M U33	HM141M U33	HM161M U33
3 Phase Model 380 ~ 415V, 3Ø, 50Hz		HM123M U33	HM143M U33	HM163M U33

