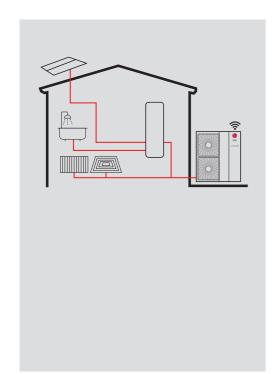
THERMA V_m (R32) R32 SILENT MONOBLOC



Excellent Performance & Efficiency



User Convenience















Easy Installation & Maintenance

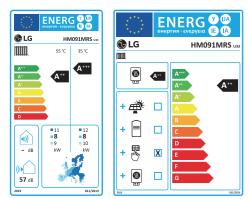








Energy Labeling



Silent Monobloc Concept

The LG THERMA V R32 Silent Monobloc is designed for lower noise levels than conventional Monobloc series while retaining its previous advantages; All in one with eco-conscious R32 refrigerant and LG's powerful yet stable R1 compressor. Thanks to its low noise level corresponding with DACH region noise regulations, THERMA V R32 Silent Monobloc offers maximized installation flexibility which allows installing within minimum safety space as 5m from neighboring houses. Moreover, the energy efficiency of THERMA V R32 Silent Monobloc is remarkably enhanced compared to conventional Monobloc as so it is recognized as an ultra-high efficient model.



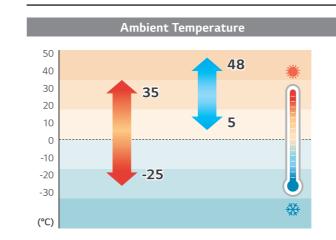


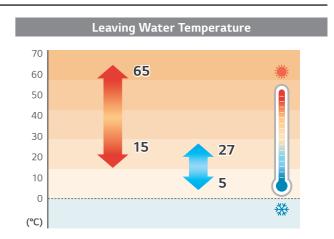
Capacity Range (Heating & Cooling)

R32 Silent Monobloc

Capacity Range [kW]	9
Heating Capacity	• (9.0)
Cooling Capacity	• (9.0)

Operation Range (Heating & Cooling)





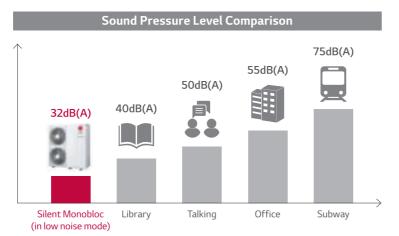
^{*} Detailed description for each function is presented on page 26 \sim 43.

PRODUCT FEATURES

Very Low Sound Level

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





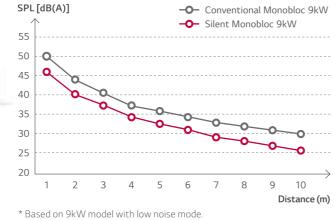
Installation Flexibility

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

Neighbor's house





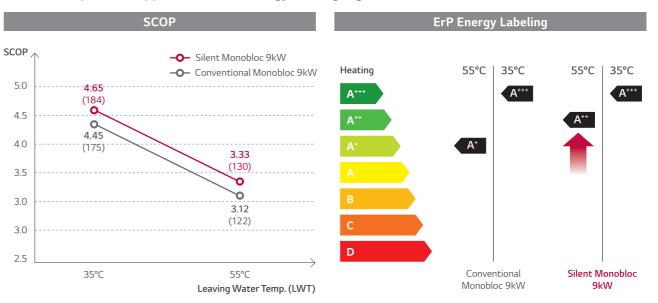


Noise Regulation	Germany	(TA Lärm)	Austria (ÖNORM S 5021)		
	D. (05, 22)	EO ID(A)	Day (06 ~ 19)	45dB(A)	
In Residential Area (rest area)	Day (06 ~ 22)	50dB(A)	Evening (19 ~ 22)	40dB(A)	
	Night (22 ~ 06)	35dB(A)	Night (22 ~ 06)	35dB(A)	

High Energy Efficiency

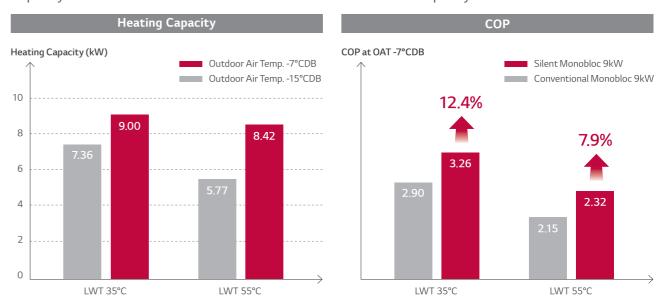
The energy label directive is a key factor of selecting heating device in Europe heating market.

THERMA V Silent Monobloc has an energy label rating A+++ for low temperature application and A++ for medium temperature application in ErP energy labeling regulation.



High Heating Performance even at Low Temperature

THERMA V Silent Monobloc provides excellent heating performance – especially at low ambient temperature. Heating Capacity at OAT -7°CDB & LWT 35°C is same as normal capacity¹⁾ and Heating Capacity at OAT -15°CDB & LWT 35°C is more than 80% of normal capacity.



1) Normal : Outdoor air temperature 7°CDB / 6°CWB, Water outlet temperature 35°C

PRODUCT SPECIFICATION

R32 Silent Monobloc

HM091MRS U33























Features

- Very Low Sound Level (32dB(A) at 5m in low noise mode)
- High energy efficiency (SCOP 4.68/A+++)
- 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
- Black Fin heat exchanger
- LG ThinQ
- KEYMARK/EHPA certification/MCS/Eurovent certification

Model Line-up

		Model Name
Category	Unit	Capacity (kW)
		9.0
1 Phase Model 220 ~ 240V. 1Ø. 50Hz	Monobloc Unit	HM091MRS U33

Seasonal Energy

Description			Unit	HM091MRS U33
	Average	SCOP	W/W	4.68
	Climate Water	Seasonal Space Heating Efficiency (ηs)	%	184
Space Heating (according to		Seasonal Space Heating Eff. Class (A+++ to D scale)	-	A+++
`		SCOP	-	3.33
,	Climate Water	Seasonal Space Heating Efficiency (η _s)	%	130
Outlet 55°C		Seasonal Space Heating Eff. Class (A+++ to D scale)	-	A++

Nominal Capacity and Nominal Power Input

Description		OAT (DB)	LWT (DB)	Unit	HM091MRS U33
		7°C	35°C		9.00
	Heating	7°C	55°C		6.00
Nominal Capacity		2°C	35°C	kW	8.00
	Cooling	35°C	18°C		9.00
	Cooling	35°C	7°C		9.00
	Heating	7°C	35°C	kW	1.76
		7°C	55°C		2.14
Nominal Power Input		2°C	35°C		2.16
1 ower input	Cooling	35°C	18°C		1.80
		35°C	7°C		3.00
		7°C	35°C		5.10
COP	Heating	7°C	55°C	W/W	2.80
		2°C	35°C		3.70
EER	Cooling	35°C	18°C	W/W	5.00
LLIV	Cooling	35°C	7°C		3.00

Product Specification

Technical S	pecification			Unit	HM091MRS U33
	Operation Range	Heating			15 ~ 65
	(leaving water	Cooling	Min. ~ Max.	°CDB	5 ~ 27 (16 ~ 27) ²⁾
Water	temperature)	DHW ¹⁾	_		15 ~ 80
Side	Piping	Water Circuit	Inlet	mm (inch)	Male PT 25.4 (1)
	Connections	vvater Circuit	Outlet	mm (inch)	Male PT 25.4 (1)
	Rated Water Flow	Rate at LWT 35°C		LPM	25.87
	Operation Range	Heating	Min Man	9CDD	-25 ~ 35
	(outdoor temp.)	Cooling	Min. ~ Max.	°CDB	5 ~ 48
	C	Quantity		EA	1
Refrigerant	Compressor	Туре		-	Hermetic Sealed Scroll
Side	Refrigerant	Туре		-	R32
		GWP (global wa	GWP (global warming potential)		675
		Precharged Amount		g	2,100
		t-CO ₂ eq		-	1.418
Sound Powe	r I aval	Llasting	Rated	dD(A)	57
Souria Powe	r Level	Heating	Low noise	dB(A)	54
C	I (-t F)	Rated		JD(A)	35
Sound Press	ure Level (at 5m)	Heating	Low noise	dB(A)	32
Dimensions		Unit	WxHxD	mm	1,239 x 1,380 x 330
Weight		Unit		kg	115.5
D C. I		Voltage, Phase, F	requency	V, Ø, Hz	220 ~ 240, 1, 50
		Rated Running	Heating	А	7.83
Power Suppl	y	Current	Cooling	А	7.99
		Recommended (Circuit Breaker	А	16
Wiring Conn	ections	Wiring Connections Power Supply Cable (included ea			4.0 x 3C

- 1) DHW $58 \sim 80^{\circ}\text{C}$ operating is available only when the booster heater is operating.
- 2) When fan coil unit not used.

- 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. 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.
- 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 9614 standard.
- Therefore, these values can be increased owing to ambient conditions during 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.

 Rated running current: outdoor temp. 7°CDB / 6°CWB, LWT 35°C

 This product contains fluorinated greenhouse gases.

THERMA V_m (R32) SILENT MONOBLOC

PRODUCT SPECIFICATION

Performance Table for Heating Operaion

Maximum Heating Capacity (Including Defrost Effect)

HM091MRS U33

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

- Note

 1. DB: Dry Bulb Temperature (°C), LWT: Leaving Water Temperature (°C), LPM: Liters Per Minute (\(\ell/\)min), TC: Total Capacity (kW)

 2. Direct interpolation is permissible. Do not extrapolate.

 3. Measuring procedure follows EN-14511.

 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 rating will vary slightly.

Performance Table for Cooling Operation

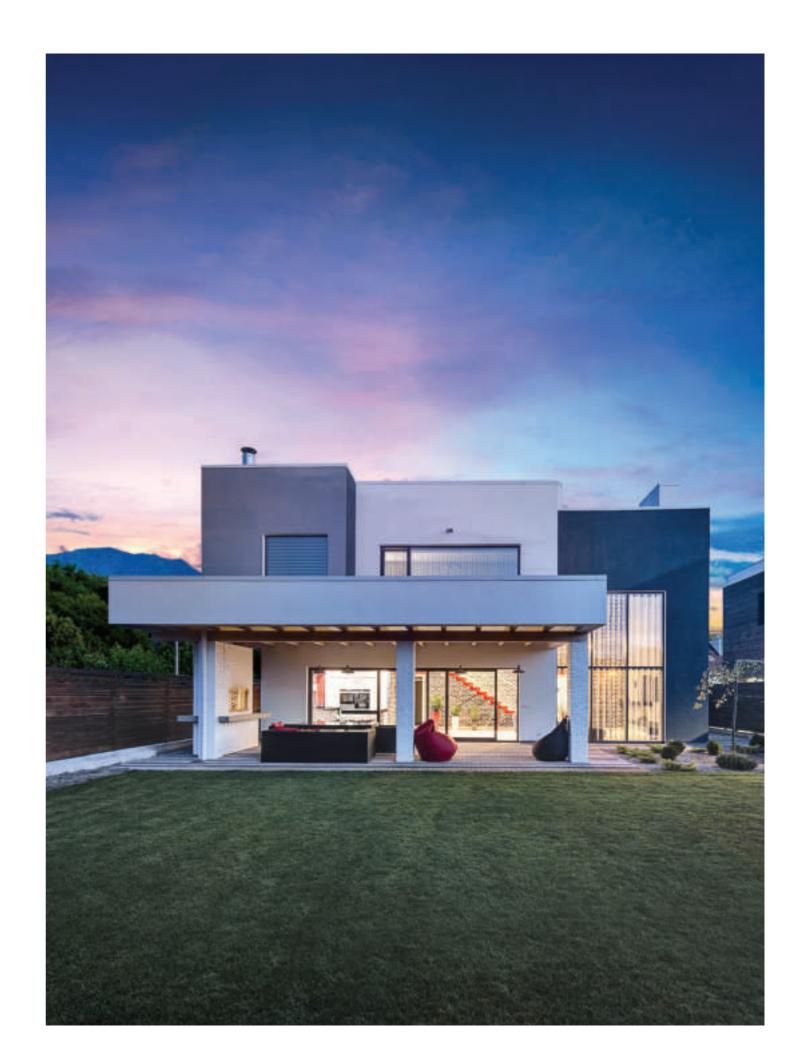
Maximum Cooling Capacity

HM091MRS U33

Outdoor	LWT 7°C	LWT 10°C	LWT 13°C	LWT 15°C	LWT 18°C	LWT 20°C	LWT 22°C
Temperature	TC	TC	TC	TC	TC	TC	TC
10°C DB	8.50	9.31	10.12	10.66	11.47	12.00	12.54
20°C DB	8.70	9.19	9.67	9.99	10.48	10.80	11.13
30°C DB	8.90	9.06	9.22	9.33	9.49	9.60	9.71
35°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00
40°C DB	9.10	9.02	8.94	8.89	8.81	8.76	8.71
45°C DB	9.20	9.04	8.89	8.78	8.63	8.52	8.42

- 1. DB: Dry Bulb Temperature (°C), LWT: Leaving Water Temperature (°C), LPM: Liters Per Minute (\(\ell / \text{min} \), TC: Total Capacity (kW) 2. Direct interpolation is permissible. Do not extrapolate.

- 2. Direct litter polation is permissible. Do not extrapolate.
 3. Measuring procedure follows EN-14511.
 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 rating will vary slightly.



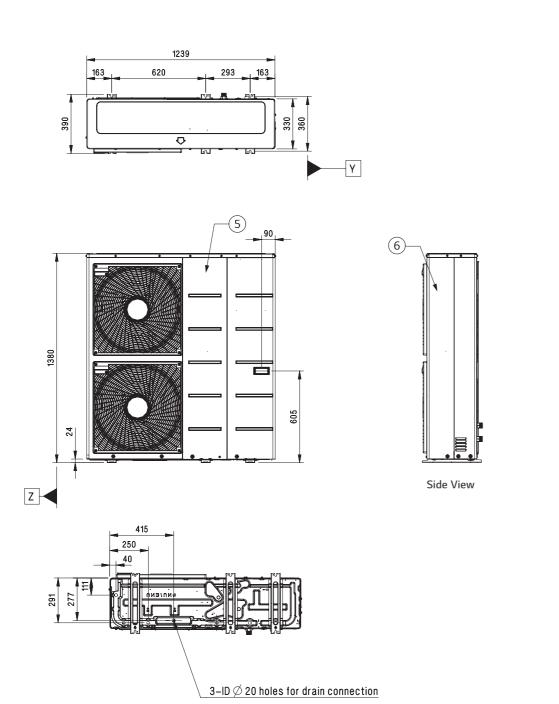
THERMA V... (R32) SILENT MONOBLOC

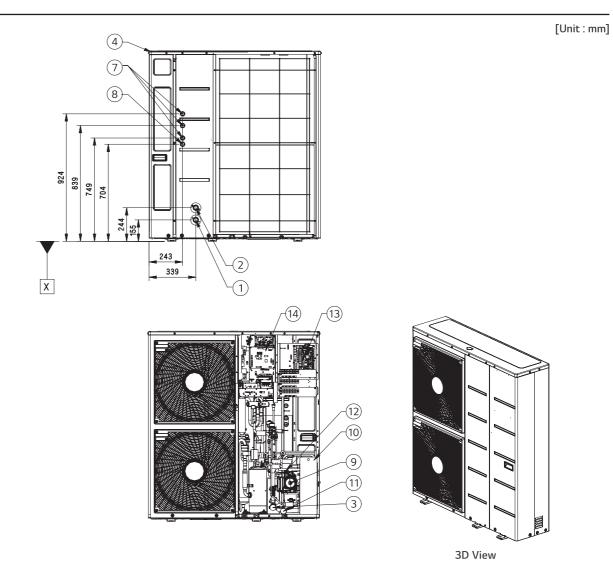
PRODUCT SPECIFICATION

Drawings

Category	Unit	Model Name Capacity (kW) 9.0
1 Phase Model 220 ~ 240V, 1Ø, 50Hz	Monobloc Unit	HM091MRS U33

HM091MRS U33 [Unit:mm]





No.	Part Name	Description
1	Entering Water Pipe	Male PT 1 inch
2	Leaving Water Pipe	Male PT 1 inch
3	Strainer	Filtering and stacking particles inside circulating water
4	Top Cover	-
5	Front Panel	-
6	Side Panel	-
7	Low Voltage	Accessory kit cables
8	UNIT Power	Outdoor entry power cable
9	Water Pump	-
10	Plate Heat Exchanger	Heat exchange between refrigerant and water
11	Pressure Gauge	Indicates circulating water pressure
12	Safety Valve	Open at water pressure 3bar
13	Indoor Control Box	Indoor PCB and terminal blocks
14	Outdoor Control Box	Outdoor PCB and terminal blocks

THERMA V... (R32) SILENT MONOBLOC

PRODUCT SPECIFICATION

Electric Back up Heater

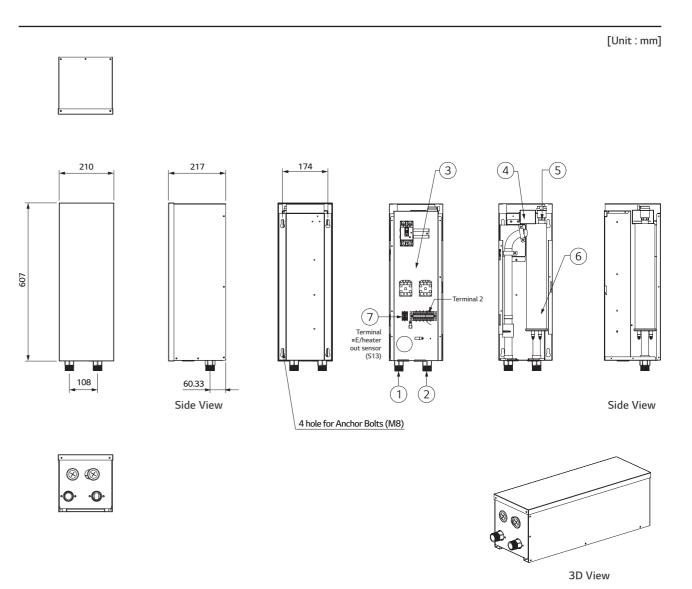
HA031M E1 HA061M E1



Product Specification

Electrical Spe	cification	Unit	HA031M E1	HA061M E1
	Туре	-	Sheath	
	Number of Heating Coil	EA	1	2
	Capacity Combination	kW	3.0	3.0 + 3.0
Back up	Operation	-	Automatic	
Heater	Heating Steps	Step	1	2
	Power Supply	V, Ø, Hz	220 ~ 24	40, 1, 50
	Dimensions (W x H x D)	mm	210 x 60)7 x 217
	Net Weight (unit)	kg	13.0	13.8
Wiring	Power Supply Cable (included earth, H07RN-F)	mm ² x cores	1.5 x 3C	4.0 x 3C
Connections	Communication Cable (H07RN-F)	mm ² x cores	0.75 x 2C	0.75 x 4C

- 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.



No.	Part Name	Description
1	Leaving Water Pipe	Male PT 1 inch
2	Entering Water Pipe	Male PT 1 inch
3	Control Box	Circuit breaker, Magnetic switch, Terminal blocks
4	Thermal Switch	Cut-off power input to E/heater at 90°C
5	Air Vent	Air purging when charging water
6	Electric Heater	Refer the related information
7	Back up Heater Outlet Sensor (S13)	Connect to unit (heat pump)



THERMA V_{IM}

ACCESSORIES

Accessories Provided by LG

Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
	Room Temperature Sensor	PQRSTA0	9	All except for R410A IWT	Room Temperature Based Control	To detect room air temperature for room temperature based control	• Max. wire length : 15m
Sensors	2 nd Circuit Thermistor	PRSTAT5K10	0	All except for R410A IWT and High temp.	2 nd Circuit (mixing circuit)	To detect 2 nd circuit temperature when using 2 nd circuit function	• 5kΩ thermistor, 10m
	Domestic Hot Water Sensor	PHRSTA0	0	All except for IWT and High temp. models	Domestic Hot Water Heating	To detect DHW tank temperature	• Included in PHLTA kit
	3 Way Valve	OSHA-3V		All except for IWT models	Domestic Hot Water Heating	To divert water flow between space heating and DHW heating	• Size : DN 20 G 1" connection, male threaded
Valves	Thermostatic	OSHA-MV		Regardless	Domestic	To blend hot water with cold water for ensuring constant, safe shower and bath outlet temp.	• Size : 3/4" DN20 male threaded
	Mixing Valve	OSHA-MV1	S. C. C.	of model	Hot Water Supply		• Size : 1" DN25 male threaded
	Domestic	OSHW-200F	1				• Storage volume : 200L, 300L, 500L
51111	Hot Water Tank (single coil)	OSHW-300F OSHW-500F		All except for IWT models	Domestic	To generate and	Type: Internal double coil Material: Stainless stee Capacity of booster heater: 2.4kW
DHW Tanks	Domestic Hot Water Tank (double coil)	OSHW-300FD		All except for IWT and High temp. models	Hot Water Heating	store domestic hot water	Storage volume: 300L Type: Internal double coil Material: Stainless steel Capacity of booster heater: 2.4kW
	Domestic	PHLTA (1Ø, split) PHLTC (3Ø, split)	0	All except	Domestic	_	Parts included : DHW tank sensor (thermistor), Circuit breaker, Relay
Installation Kits	Hot Water Tank Kit	PHLTB (monobloc)	- 0	for IWT and High temp. models	Hot Water Heating	To operate with DHW tank	Parts included: DHW tank sensor (thermistor), Circuit breaker, Relay, Multi harness
	Solar Thermal Kit	PHLLA	10	All except for IWT, Hydrosplit and High temp. models	Solar Thermal Heat Utilization	To operate with solar thermal system	• Length of thermistor: 12m • Size of tube connector (W x H x D): 110 x 55 x 22

Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
		HA031M E1					Heater capacity: 3kW Number of heating coil: 1EA (3.0kW) Size (W x H x D): 210 x 607 x 217 Power: 220 ~ 240V, 1Ø
Installation Kits	Electric Back Up Heater	HA061M E1		R32 Monobloc and R32 Silent Monobloc (HA063M E1 is not applicable for R32 Silent Monobloc)	Capacity Back Up & Emergency Operation	To supplement insufficient capacity	 Heater capacity: 6kW Number of heating coil: 2EA (3.0 + 3.0kW) Size (W x H x D): 210 x 607 x 217 Power: 220 - 240V, 1Ø
		HA063M E1	• •		& Emergency		Heater capacity: 6kW Number of heating coil: 3EA (2.0 + 2.0 + 2.0kW) Size (W x H x D): 210 x 607 x 217 Power: 380 - 415V, 3Ø
	Buffer Tank for Space Heating	OSHB-40KT		R32 IWT	-	To provide the buffer volume of water to the heating circuit	• Volume : 40L • Size (W x H x D) : 518 x 560 x 175
Vessel	Expansion Vessel for DHW	OSHE-12KT		R32 IWT	-	volume of water to the heating circuit To absorb the volume changes by temperature of water for the DHW circuit To extend wire between wired remote controller and indoor unit To extend wire between Wi-Fi	• Volume: 8L • Connection: 3/4" • Max. pressure: 10 bar • Size (W x H x D): 416 x 238 x 502
	Extension Wire for Wire Remote Controller	PZCWRC1	0	All except for R410A IWT	-	between wired remote controller	• Length : 10m
	Extension Cable for Wi-Fi Modem	PWYREW000	S	All except for R410A IWT		between WI-Fi modem and	• Length : 10m
	2 Remote Control Wire	PZCWRC2		All except for R410A IWT model		To connect two remote controller on the one indoor unit	• Length : 0.25m
ETC		PHDPB	(5	R32 Split, R410A Split		To collect condensed	
	Drain Pan	PHDPC		R32 Hydrosplit		water in indoor unit when cooling operation	-
	Cover Plate	PDC-HK10		R32 Hydrosplit, R32 Split, R32 IWT, R410A Split	-	To fill the blank space of the indoor unit front panel when the remote controller is relocated indoors.	-

153

THERMA V_{IM}

ACCESSORIES

Accessories Provided by LG

Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
Remote Controller	Wired Remote Controller	PREMTW101	7774	All except for R410A IWT model	2 Remote Control	To control AWHP using two remote controller (additional remote controller)	New modern design 4.3 inch color LCD display Information displayed with simple graphic, icon & text Built-in temperature sensor Size (W x H x D): 120 x 120 x 16 Extension cable (PZCWRC1, 10m) and 2 remote cable (PZCWRC2, 0.25m) are included
	AC Ez Touch	PACEZA000	**************************************			To control AWHP using LG central controller	• 5 inch color display • User-friendly control with iconographic interface (touch screen) • Max. 32 unit control • Total 200 schedule events (weekly / monthly / yearly / exception day) • Operation history • Remote controller lock (all, temp, mode) • PC access supported (IPv6 supported) • DI 1EA (emergency stop only) • Size (W x H x D): 137 x 121 x 25
Central Controller	AC Smart 5	PACS4B000 (Smart 4) PACS5A000 (Smart 5)		All except for R410A IWT model	Centralized Control		• 10.2 inch color display • User-friendly control with iconographic interface (touch screen) • (Smart 4)_Max. IDU 32, (Smart 5)_Max. IDU 64 • Total 100 schedule events (weekly/monthly/yearly/exception day) • History/operation trend • Interlock with 3 rd party equipment (ACS IO, ACU IO module is needed) • Error alarm by e-mail • Remote controller lock (all, temp, mode) • Map view (visual navigation) • Web access supported with HTML5 (PC, smartphone, tablet) • DI 2EA, DO 2EA • BACnet IP/modbus TCP protocol support • Size (W x H x D): 253.2 x 167.7 x 28.9
	ACP 5	PACP4B000 (ACP4) PACP5A000 (ACP5)	# 1- #0				Web access controller Max. 128 unit control Total 100 schedule events (weekly/monthly/yearly/exception day) History/operation trend Interlock with 3 rd party equipment (ACS IO, ACU IO module is needed) Error alarm by e-mail Remote controller lock (all, temp, mode) Map view (visual navigation) DI 10EA, DO 4EA BACnet IP/modbus TCP protocol support Size (W x H x D): 270 x 155 x 65
Gateway	ACP Lonworks	PLNWKB000	-	All except for R410A IWT model	Centralized Control	To link with AWHP and other existing building control system	Web access controller Max. 64 unit control ACP function included Lonworks protocol support Size (W x H x D): 270 x 155 x 65

Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
Gateway	Modbus RTU Gateway	PMBUSB00A	•	All except for R410A IWT model		To communicate and control through the central controller (providing modbus RTU connection between AWHP and BMS)	Modbus RTU slave (RS485) / 9,600 bps Size (W x H x D): 53.6 x 89.7 x 60.7 Max. 16 IDUs with single module / Max. 64 IDUs with 4 modules Power: DC 12V
	PI485 Gateway	PMNFP14A1		All except for R410A IWT model	Centralized Control	To communicate and control through the central controller (converting LG protocol to RS485 protocol)	• 1 for each outdoor unit • Power : Supplied by outdoor unit
	PI485 Gateway	PP485B00K	440	R410A IWT		To communicate between outdoor unit and IWT type indoor unit	• 1 for each outdoor unit • Power : Supplied by outdoor unit
	Simple Dry Contact	PDRYCB000			-	To connect between the AWHP and external devices to control various functions	 1 Set per 1 unit 1 Input contact for turning on/off Input power: 220 ~ 240V 2 output contacts Operation status - Error status
Cor	Dry Contact for Thermostat	PDRYCB320		All except for R410A IWT model			 1 Set per 1 unit Non voltage or 12 ~ 24V 8 digital input contacts for thermostat On/off, operation mode, DHW heating Emergency mode, silent mode 2 Output contacts Operation status - Error status
	LG Wi-Fi Modem	PWFMDD200		All except for R410A IWT model	Wi-Fi Control via LG ThinQ	To control AWHP via smartphone	Basic control function On/off, operation mode, set temp DHW heating and set temp Weekly on/off schedule Error status check Frequency: 2.4GHz IEEE 802.11b/g/n supported
ETC	Meter Interface	PENKTH000	(All except for R410A IWT model	To measure Energy production / Monitoring consumption power		Energy meter interface to monitor Electricity and Heat energy Max. 3 watt
	2 Zone Valve Controller	PZNVVB200	84	All except for R410A IWT model	Zone Valve Control	To control individual zone valves with room temperature sensor or room thermostat	Individual temperature setting possible. (to be set through wired remote control in room temperature input mode) Room temperature detection (AI: 2 ports) 3rd Party thermostat interlock input. (DI: 2 port) Can read one DI or AI for each zone. Maximum number of connections: Max. 4EA (expandable up to 8-zone) Size (W x H x D): 53.6 x 89.7 x 60.7 Power: DC12V for module, AC24V for valve

Note 1. PI485 Gateway (PMNFP14A1) should be installed on outdoor unit to use central controller.

THERMA V.

ACCESSORIES

LG Wi-Fi Modem

PWFMDD200 ENCXLEU

Access LG THERMA V anytime and from anywhere with Wi-Fi equipped device. LG's exclusive Home Appliances control app (LG ThinQ) is available.

Simple operation for various functions.

- On/off
- Operation mode selection
- Current temperature
- Set temperature
- On/off reservation scheduling
- Energy monitoring
- ESS monitoring
- Silent mode reservation
- Holiday mode
- Quick DHW heating



Model Name	PWFMDD200			
Size (mm)	46 x 68 x 14			
Interfaceable Products	All THERMA V Line-ups except for R410A IWT			
Connection Type	Indoor Unit 1 : 1			
Communication Frequency	2.4GHz			
Wireless Standards	IEEE 802.11b/g/n			
Mobile Application	LG ThinQ (Android v4.1 (Jellybean) or higher, iPhone iOS 9.0 or higher)			
Optional Extension Cable	PWYREW000 (10m extension)			

Note

- 1. Functionality may be different according to each Indoor model.
- 2. User interface of application shall be revised for its design and contents improvement.
- 3. Application is optimized for smartphone use, so it may not be well functioning with tablet devices.

 For the compatibility with indoor unit, please contact regional office.

Domestic Hot Water Tank

OSHW-200F AEU OSHW-300F AEU OSHW-300FD AEU



Double Coil

Single Coil

Domestic Hot Wate	r Tank	Unit	OSHW-200F	OSHW-300F	OSHW-500F	OSHW-300FD
	Water Volume	l	200	300	500	300
	Diameter	mm	640	640	640	640
General	Height	mm	1,350	1,850	1,900	1,850
Characteristics	Empty Weight	Kg	61	100	146	106
	Tank Materials	-	STS: F18	STS: F18	STS:F18	STS:F18
	Color	-	Grey	Grey	Grey	Grey
c .c	Additional Electric Heater	W	2,400	2,400	2,400	2,400
Specification of Electric Back up	Power Supply	V, Ø, Hz	230, 1, 50 (60)	230, 1, 50 (60)	230, 1, 50 (60)	230, 1, 50 (60)
Liecti ic back up	Adjustable Thermostat	°C	0 ~ 90	0 ~ 90	500 640 1,900 146 STS: F18 Grey 2,400	0 ~ 90
	Exchanger Type	-	Single	Single	Single	Double
Specification of	Material Exchanger	-	STS:F18	STS : F18	STS:F18	STS:F18
Heat Exchanger	Maximum Water Temp.	°C	90	90	90	90
	Coil Surface	m ²	2.3	3.1	0 - 90 Single STS: F18 90 4.8 1 ¼ BSP female	3.1 + 0.97
	Heat Pump Inlet	inch	1 BSP female	1 BSP female	1 ¼ BSP female	¾ BSP female (upper coil)
	Heat Pump Outlet	inch	1 BSP female	1 BSP female	1 ¼ BSP female	¾ BSP female (upper coil)
Water Connections	Solar Inlet	inch	-	-	-	1 BSP Female (lower coil)
	Solar Outlet	inch	-	-	-	1 BSP Female (lower coil)
	City Water Inlet	inch	¾ BSP male	¾ BSP male	1 BSP male	¾ BSP male
	Hot Water Outlet	inch	¾ BSP female	1 BSP female	1 BSP female	1 BSP female
Energy Efficiency Clas	s (A+ to F scale)	-	В	В	В	В
Standing Heat Loss		W	61	70	83	70

Mandatory Optional Accessories						
Domestic Hot Water Tank Installation Kit PHLTA (10, split), PHLTB (monobloc), PHLTC (30, split)						
Optional Accessories						
Thermostatic Mixing Valve (3/4" DN20)	OSHA-MV					
Thermostatic Mixing Valve (1" DN25)	OSHA-MV1					
3 Way Valve	OSHA-3V					

THERMA V.

ACCESSORIES

Combined Test with DHW Tank

LG has conducted a combination test of THERMA V with DHW tanks in accordance with EN16147 and obtained an ErP label for packages in order to cope with European nZEB regulations.

- R32 Monobloc (5, 7, 9kW) + OSHW-200F
- R32 Monobloc (12, 14, 16kW) + OSHW-200F
- R32 Monobloc (5, 7, 9kW) + OSHW-300F
- R32 Split Hydro Box (5, 7, 9kW) + OSHW-200F



	AWHP	R32 Split (5,7,9kW)	R32 Monobloc (5,7,9kW)	R32 Monobloc (12, 14, 16kW)	R32 Monobloc (5,7,9kW)	
	IDU	HN0916M NK4	HM051M U43	HM121M U33	HM051M U43	
Model	ODU	HU051MR U44 HU071MR U44 HU091MR U44	HM051M 043 HM071M U43 HM091M U43	HM141M U33 HM161M U33	HM071M U43 HM091M U43	
	Tank	OSHW-200F AEU	OSHW-200F AEU	OSHW-200F AEU	OSHW-300F AEU	
Declared Lo	ad Profile	L	L	L	XL	
	Grade	A+	A+	A	A+	
Average	Efficiency	118%	122%	109%	134%	
Climate Appual Energy	940kWh	1,254kWh				
Energy Labe	el	ENERGY OF THE PROPERTY OF THE	ENERG © © LG MM0931M m / OSHW-200F nr L A A B C C C C C C C C C C C C C C C C C	ENERG © (1) © LG HM161M -/ OSHW-2006 1 13 to	ENERG O CONTROL OF STATE OF ST	