

Excellent Performance & Efficiency

- R1 compressor
- R32 refrigerant
- Flash gas injection
- Wide operation range
- Black Fin heat exchanger
- Solar thermal
- Smart grid (energy state)

User Convenience

- Intuitive interface
- LG ThinQ
- 2nd circuit
- Various control options
- Flow sensor
- 3rd party boiler
- Energy monitoring
- Seasonal auto mode
- Low noise mode

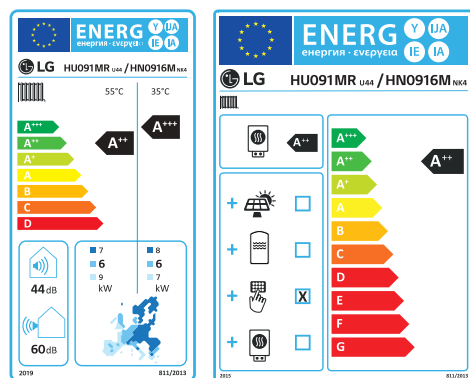
Easy Installation & Maintenance

- LG heating configurator
- Clip connection
- Flexible piping design

* Detailed description for each function is presented on page 26 – 43.



Energy Labeling



* 9kW 10 model.
* A+++ to D scale.

Split Hydro Box Concept

The LG THERMA V R32 Split is a hydro box type comprising a separate indoor and outdoor unit, which are connected by refrigerant piping. Hydronic components such as plate heat exchanger, expansion tank and water pump are located within the indoor unit, making the unit capable of withstanding freezing outside ambient temperatures.

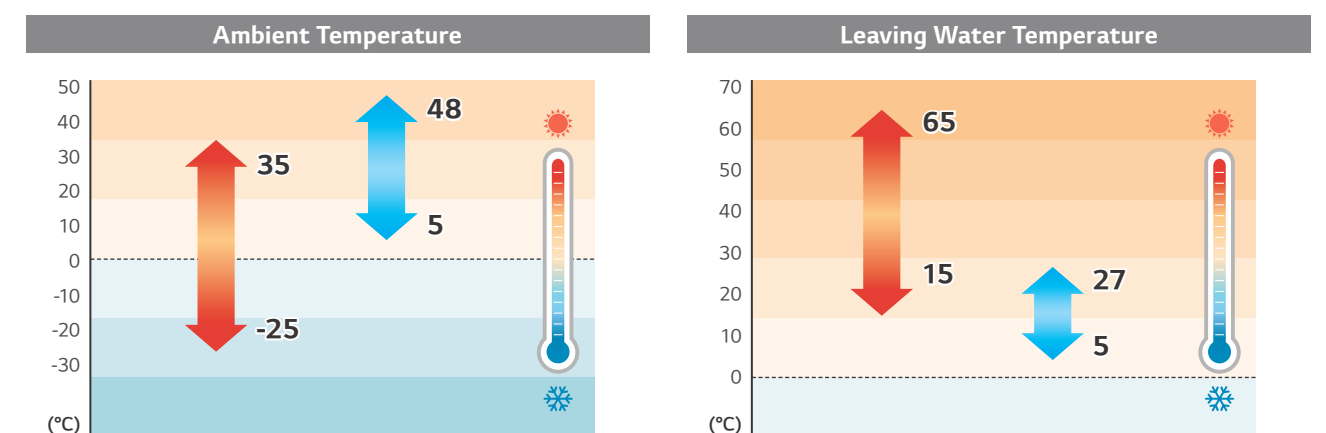


Capacity Range (Heating & Cooling)

R32 Split

Capacity Range [kW]	5	7	9
Heating Capacity	● (5.5)	● (7.0)	● (9.0)
Cooling Capacity	● (5.5)	● (7.0)	● (9.0)

Operation Range (Heating & Cooling)



PRODUCT SPECIFICATION

R32 Split

IDU

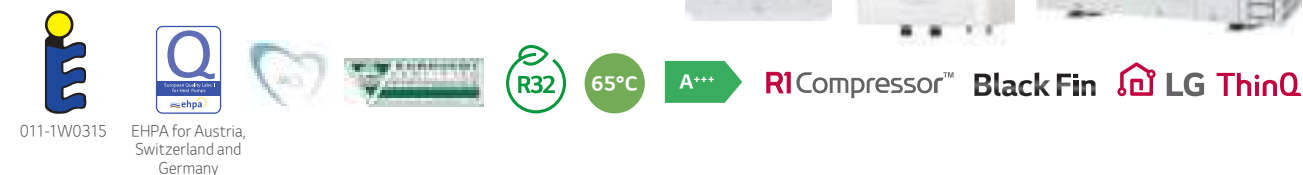
HN0916M NK4

ODU

HU051MR U44

HU071MR U44

HU091MR U44



Features

- High energy efficiency (SCOP 4.65/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

Category	Unit	Model Name Capacity (kW)		
		5.5	7.0	9.0
1 Phase Model 220 ~ 240V, 1Ø, 50Hz	Outdoor Unit	HU051MR U44	HU071MR U44	HU091MR U44
	Indoor Unit	HN0916M NK4		

Seasonal Energy

Description			Outdoor Unit	HU051MR U44	HU071MR U44	HU091MR U44
			Indoor Unit	HN0916M NK4		
Space Heating (according to EN14825)	Average Climate Water Outlet 35°C	SCOP	-	4.65	4.65	4.65
		Seasonal Space Heating Efficiency (η _s)	%	183	183	183
	Seasonal Space Heating Eff. Class (A+++ to D scale)		-	A+++	A+++	A+++
	Average Climate Water Outlet 55°C	SCOP	-	3.23	3.23	3.23
Seasonal Space Heating Efficiency (η _s)		%	126	126	126	
Seasonal Space Heating Eff. Class (A+++ to D scale)		-	A++	A++	A++	

Nominal Capacity and Nominal Power Input

Description	OAT (DB)	LWT (DB)	Outdoor Unit			
			Indoor Unit	HU051MR U44	HU071MR U44	HU091MR U44
Nominal Capacity	Heating	7°C 35°C	kW	5.50	7.00	9.00
		7°C 55°C		5.50	5.50	5.50
		2°C 35°C		3.30	4.20	5.40
	Cooling	35°C 18°C		5.50	7.00	9.00
		35°C 7°C		5.50	7.00	9.00
		7°C 35°C		1.12	1.43	1.94
Nominal Power Input	Heating	7°C 55°C	kW	1.57	1.57	1.57
		2°C 35°C		0.94	1.20	1.54
		35°C 18°C		1.20	1.56	2.14
	Cooling	35°C 7°C		1.96	2.59	3.46
		7°C 35°C		4.90	4.90	4.65
		7°C 55°C		3.50	3.50	3.50
COP	Heating	2°C 35°C	W/W	3.52	3.51	3.50
		35°C 18°C		4.60	4.50	4.20
EER	Cooling	35°C 7°C	W/W	2.80	2.70	2.60

Product Specification (Outdoor Unit)

Technical Specification			Unit	HU051MR U44	HU071MR U44	HU091MR U44
Operation Range (outdoor temp.)	Heating	Min. - Max.	°CDB	-25 ~ 35		
	Cooling		°C	5 ~ 48		
Compressor	Quantity	EA	1			
	Type	-	Hermetic Sealed Scroll			
Refrigerant	Type	-	R32			
	GWP (global warming potential)	-	675			
	Precharged Amount	g	1,500			
	t-CO ₂ eq	-	1.013			
Piping Connections	Outer Diameter	Gas	mm (inch)	Ø15.88 (5/8)		
		Liquid	mm (inch)	Ø9.52 (3/8)		
	Length	Standard	m	5		
		Max.	m	50		
	Level Difference	Max.	m	30		
	Chargeless-Pipe Length	m	10			
	Additional Charging Volume	g/m	30			
Rated Water Flow Rate (at LWT 35°C)	LPM	15.81	20.12	25.87		
Sound Power Level	Heating	Rated	dB(A)	60		
Sound Pressure Level (at 1m)	Heating	Rated	dB(A)	52		
Dimensions	Unit	W x H x D	mm	950 x 834 x 330		
	Unit		kg	60.0		
Power Supply	Voltage, Phase, Frequency		V, Ø, Hz	220 ~ 240, 1, 50		
		Rated Running Current	Heating	A	5.0	6.3
	Cooling		A	5.3	6.9	9.5
	Recommended Circuit Breaker	A	16	20	25	
Wiring Connections	Power Supply Cable (included earth, H07RN-F)	mm ² x cores	4.0 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. 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 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. Sound pressure level is converted values from sound power level as per distance.
4. Performances are based on the following conditions (It is according to EN14511): Interconnected pipe length is standard length and difference of elevation (outdoor ~ indoor unit) is 0m.
5. This product contains fluorinated greenhouse gases.

Product Specification (Indoor Unit)

Technical Specification			Unit	HN0916M NK4	
Operation Range (leaving water)	Heating	Min. - Max.	°CDB	15 ~ 65	
	Cooling DHW ¹⁾		5 ~ 27 (16 ~ 27) ²⁾		
Flow Sensor	Type	-	Vortex		
	Measuring Range	Min. - Max.	l/min	5 ~ 80	
Piping Connections	Flow (trigger point)	Min.	l/min	7	
		Water Circuit	Inlet	mm (inch)	Male PT 25.4 (1)
	Refrigerant Circuit	Outlet	mm (inch)	Male PT 25.4 (1)	
		Gas	mm (inch)	Ø15.88 (5/8)	
		Liquid	mm (inch)	Ø9.52 (3/8)	
		Sound Power Level	Heating	Rated	dB(A)
Dimensions	Unit	W x H x D	mm	490 x 850 x 315	
Weight	Unit		kg	40.5	
Electrical Specification			Unit	HN0916M NK4	
Wiring Connections	Power and Communication Cable (included earth, H07RN-F)	mm ² x cores	0.75 x 4C		
Back up Heater	Type	-	Sheath		
	Number of Heating Coil	EA	2		
	Capacity Combination	kW	3.0 + 3.0		
	Operation	-	Automatic		
	Heating Steps	Step	2		
	Power Supply	V, Ø, Hz	220 ~ 240, 1, 50		
	Rated Current	A	25.0		
Power Supply Cable (included earth, H07RN-F)	mm ² x cores	4.0 x 3C			

- 1) DHW 58 ~ 80°C operating is available only when the booster heater is operating.
- 2) When fan coil unit not used.

PRODUCT SPECIFICATION

Performance Table for Heating Operation

Maximum Heating Capacity (Including Defrost Effect)

HU051MR U44 + HN0916M NK4

Outdoor Temperature	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°C DB	4.02	3.90	3.78	3.66	-	-	-	-
-20°C DB	4.64	4.51	4.38	4.26	4.13	-	-	-
-15°C DB	5.26	5.12	4.99	4.85	4.72	4.58	-	-
-7°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	-
-4°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	-
-2°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	-
2°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
7°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
10°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
15°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
18°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
20°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50
35°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50

HU071MR U44 + HN0916M NK4

Outdoor Temperature	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°C DB	5.00	4.85	4.71	4.56	-	-	-	-
-20°C DB	5.58	5.43	5.27	5.11	4.95	-	-	-
-15°C DB	6.17	6.00	5.83	5.66	5.49	5.32	-	-
-7°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	-
-4°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	-
-2°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	-
2°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
7°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
10°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
15°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
18°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
20°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
35°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00

HU091MR U44 + HN0916M NK4

Outdoor Temperature	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°C DB	6.40	6.20	6.00	5.80	-	-	-	-
-20°C DB	7.23	7.00	6.77	6.54	6.31	-	-	-
-15°C DB	8.06	7.80	7.54	7.28	7.02	6.76	-	-
-7°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	-
-4°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	-
-2°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	-
2°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
7°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
10°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
15°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
18°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
20°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
35°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00

Note

1. DB : Dry Bulb Temperature (°C), LWT : Leaving Water Temperature (°C), LPM : Liters Per Minute (ℓ/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.
4. The shaded areas are not guaranteed continuous operation.

Performance Table for Cooling Operation

Maximum Cooling Capacity

HU051MR U44 + HN0916M NK4

Outdoor Temperature	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°C DB	6.42	6.95	7.49	7.85	8.39	8.75	9.11
20°C DB	6.05	6.37	6.70	6.91	7.23	7.45	7.66
30°C DB	5.68	5.79	5.90	5.97	6.08	6.15	6.22
35°C DB	5.50	5.50	5.50	5.50	5.50	5.50	5.50
40°C DB	5.32	5.34	5.35	5.37	5.38	5.40	5.41
45°C DB	5.13	5.17	5.21	5.23	5.27	5.29	5.32

HU071MR U44 + HN0916M NK4

Outdoor Temperature	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°C DB	8.17	8.85	9.54	9.99	10.68	11.13	11.59
20°C DB	7.70	8.11	8.52	8.80	9.21	9.48	9.75
30°C DB	7.23	7.37	7.51	7.60	7.74	7.83	7.92
35°C DB	7.00	7.00	7.00	7.00	7.00	7.00	7.00
40°C DB	6.77	6.79	6.81	6.83	6.85	6.87	6.88
45°C DB	6.53	6.58	6.63	6.66	6.70	6.74	6.77

HU091MR U44 + HN0916M NK4

Outdoor Temperature	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°C DB	10.50	11.38	12.26	12.85	13.73	14.31	14.90
20°C DB	9.90	10.43	10.96	11.31	11.84	12.19	12.54
30°C DB	9.30	9.48	9.65	9.77	9.95	10.06	10.18
35°C DB	9.00	9.00	9.00	9.00	9.00	9.00	9.00
40°C DB	8.70	8.73	8.76	8.78	8.81	8.83	8.85
45°C DB	8.40	8.46	8.52	8.56	8.62	8.66	8.70

Note










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THERMAV™
ACCESSORIES

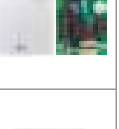
Accessories Provided by LG

Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
Sensors	Room Temperature Sensor	PQRSTA0		All except for R410A IWT	Room Temperature Based Control	To detect room air temperature for room temperature based control	• Max. wire length : 15m
	2 nd Circuit Thermistor	PRSTAT5K10		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		All except for IWT and High temp. models	Domestic Hot Water Heating	To detect DHW tank temperature	• Included in PHLTA kit
Valves	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
	Thermostatic Mixing Valve	OSHA-MV OSHA-MV1		Regardless of model	Domestic Hot Water Supply	To blend hot water with cold water for ensuring constant, safe shower and bath outlet temp.	• Size : 3/4" DN20 male threaded • Size : 1" DN25 male threaded
DHW Tanks	Domestic Hot Water Tank (single coil)	OSHW-200F OSHW-300F OSHW-500F		All except for IWT models	Domestic Hot Water Heating	To generate and store domestic hot water	• Storage volume : 200L, 300L, 500L • Type : Internal double coil • Material : Stainless steel • Capacity of booster heater : 2.4kW
	Domestic Hot Water Tank (double coil)	OSHW-300FD		All except for IWT and High temp. models			• Storage volume : 300L • Type : Internal double coil • Material : Stainless steel • Capacity of booster heater : 2.4kW
	Domestic Hot Water Tank Kit	PHLTA (1Ø, split) PHLTC (3Ø, split) PHLTB (monobloc)		All except for IWT and High temp. models			Domestic Hot Water Heating
Installation Kits	Solar Thermal Kit	PHLLA		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
Installation Kits	Electric Back Up Heater	HA031M 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 : 3kW • Number of heating coil : 1EA (3.0kW) • Size (W x H x D) : 210 x 607 x 217 • Power : 220 ~ 240V, 1Ø
		HA061M E1					• 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					• 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
Vessel	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
	Expansion Vessel for DHW	OSHE-12KT		R32 IWT	-	To absorb the volume changes by temperature of water for the DHW circuit	• Volume : 8L • Connection : 3/4" • Max. pressure : 10 bar • Size (W x H x D) : 416 x 238 x 502
ETC	Extension Wire for Wire Remote Controller	PZCWRC1		All except for R410A IWT	-	To extend wire between wired remote controller and indoor unit	• Length : 10m
	Extension Cable for Wi-Fi Modem	PWYREW000		All except for R410A IWT	Wi-Fi Control via LG ThinQ	To extend wire between Wi-Fi modem and indoor unit	• Length : 10m
	2 Remote Control Wire	PZCWRC2		All except for R410A IWT model	2 Remote Control	To connect two remote controller on the one indoor unit	• Length : 0.25m
	Drain Pan	PHDPB		R32 Split, R410A Split	Cooling Operation	To collect condensed water in indoor unit when cooling operation	-
PHDPC			R32 Hydrosplit				
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.	-	

Accessories Provided by LG

Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
Remote Controller	Wired Remote Controller	PREMTW101		All except for R410A IWT model	2 Remote Control	To control AWHP using two remote controller (additional remote controller)	<ul style="list-style-type: none"> 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
Central Controller	AC Ez Touch	PACEZA000		All except for R410A IWT model	Centralized Control	To control AWHP using LG central controller	<ul style="list-style-type: none"> 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
	AC Smart 5	PACS4B000 (Smart 4) PACS5A000 (Smart 5)					<ul style="list-style-type: none"> 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 3rd 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)					<ul style="list-style-type: none"> Web access controller Max. 128 unit control Total 100 schedule events (weekly / monthly / yearly / exception day) History / operation trend Interlock with 3rd 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	<ul style="list-style-type: none"> 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	Centralized Control	To communicate and control through the central controller (providing modbus RTU connection between AWHP and BMS)	<ul style="list-style-type: none"> 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		To communicate and control through the central controller (converting LG protocol to RS485 protocol)	<ul style="list-style-type: none"> 1 for each outdoor unit Power : Supplied by outdoor unit 	
	PI485 Gateway	PP485B00K		R410A IWT		To communicate between outdoor unit and IWT type indoor unit	<ul style="list-style-type: none"> 1 for each outdoor unit Power : Supplied by outdoor unit 	
Dry Contact	Simple Dry Contact	PDRYCB000		All except for R410A IWT model	-	To connect between the AWHP and external devices to control various functions	<ul style="list-style-type: none"> 1 Set per 1 unit 1 Input contact for turning on/off Input power : 220 ~ 240V 2 output contacts Operation status - Error status 	
	Dry Contact for Thermostat	PDRYCB320					<ul style="list-style-type: none"> 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 	
ETC	LG Wi-Fi Modem	PWFMD200		All except for R410A IWT model	Wi-Fi Control via LG ThinQ	To control AWHP via smartphone	<ul style="list-style-type: none"> 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 	
	Meter Interface	PENKTH000		All except for R410A IWT model	Energy Monitoring	To measure production / consumption power	<ul style="list-style-type: none"> Energy meter interface to monitor Electricity and Heat energy Max. 3 watt - Hour meter Max. 1 heat meter Pulse width : 40ms ~ 100ms Modbus RTU comm. with THERMA V 2 wire RS485 / 9600bps Power : DC 12V Size (W x H x D) : 54 x 90 x 61 	
	2 Zone Valve Controller	PZNVVB200		All except for R410A IWT model		Zone Valve Control	To control individual zone valves with room temperature sensor or room thermostat	<ul style="list-style-type: none"> 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.

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-500F AEU
OSHW-300FD AEU



Double Coil

Single Coil

Domestic Hot Water Tank		Unit	OSHW-200F	OSHW-300F	OSHW-500F	OSHW-300FD
General Characteristics	Water Volume	ℓ	200	300	500	300
	Diameter	mm	640	640	640	640
	Height	mm	1,350	1,850	1,900	1,850
	Empty Weight	Kg	61	100	146	106
	Tank Materials	-	STS : F18	STS : F18	STS : F18	STS : F18
	Color	-	Grey	Grey	Grey	Grey
Specification of Electric Back up	Additional Electric Heater	W	2,400	2,400	2,400	2,400
	Power Supply	V, ∅, Hz	230, 1, 50 (60)	230, 1, 50 (60)	230, 1, 50 (60)	230, 1, 50 (60)
	Adjustable Thermostat	°C	0 - 90	0 - 90	0 - 90	0 - 90
Specification of Heat Exchanger	Exchanger Type	-	Single	Single	Single	Double
	Material Exchanger	-	STS : F18	STS : F18	STS : F18	STS : F18
	Maximum Water Temp.	°C	90	90	90	90
	Coil Surface	m ²	2.3	3.1	4.8	3.1 + 0.97
Water Connections	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)
	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 Class (A+ to F scale)	-	B	B	B	B	
Standing Heat Loss	W	61	70	83	70	

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