









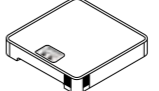


THERMA V™
ACCESSORIES

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Accessories Provided by LG








Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
Sensors	Room Temperature Sensor	PQRSTA0		All Therma V products	Room Temperature Based Control	To detect room air temperature for room temperature based control	• Max. wire length : 15m
	Thermistor for 2 nd Circuit or E/Heater	PRSTAT5K10		All except for High Temperature	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 R32 Split IWT and R32 Hydrosplit IWT	Domestic Hot Water Heating	To detect DHW tank temperature	• Included in PHLTA kit
Valves	3 Way Valve	OSHA-3V		All except for R32 Split IWT and R32 Hydrosplit IWT	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		All except for R32 Split IWT and R32 Hydrosplit IWT	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
		OSHW-300F					
OSHW-500F							
	Domestic Hot Water Tank (double coil)	OSHW-300FD		All except for R32 Split IWT, R32 Hydrosplit IWT and High Temperature			• Storage volume : 300L • Type : Internal double coil • Material : Stainless steel • Capacity of booster heater : 2.4kW
Installation Kits	Domestic Hot Water Tank Kit	PHLTA		R32 Split Hydro Box, R410A Split Hydro Box, R32 Hydrosplit Hydro Box	Domestic Hot Water Heating	To operate with DHW tank	• Parts included : DHW tank sensor (thermistor), Circuit breaker, Relay
		PHLTC		R410A Split Hydro Box (HN1639 NK3, 3Ø only)			
		PHLTB		R32 Monobloc, R32 Monobloc S			• Parts included : DHW tank sensor (thermistor), Circuit breaker, Relay, Multi harness
	Solar Thermal Kit	PHLLA		R32 Monobloc, R410A Split Hydro Box (HN1639 NK3, 3Ø only)	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

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Installation Kits	Electric Back Up Heater	HA031M E1		R32 Monobloc, R32 Monobloc S	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 Split IWT and R32 Hydrosplit 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 Split IWT and R32 Hydrosplit 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 Therma V products	-	To extend wire between wired remote controller and indoor unit	• Length : 10m
	Extension Cable for Wi-Fi Modem	PWYREW000		All Therma V products	Wi-Fi Control via LG ThinQ	To extend wire between Wi-Fi modem and indoor unit	• Length : 10m
	2 Remote Control Wire	PZCWRC2		All Therma V products	2 Remote Control	To connect two remote controller on the one indoor unit	• Length : 0.25m
	Drain Pan	PHDPB		R32 Split Hydro Box (HN0916M NK4), R410A Split Hydro Box (HN1616 NK3 / HN1639 NK3)	Cooling Operation	To collect condensed water in indoor unit when cooling operation	-
		PHDPC		R32 Hydrosplit, R32 Split Hydro Box (HN091MR NK5), R410A Split Hydro Box (HN1616M NK5 / HN1636M NK5)			
Cover Plate	PDC-HK10		R32 Hydrosplit Hydro Box, R32 Hydrosplit IWT, R32 Split Hydro Box, R32 Split IWT, R410A Split Hydro Box	-	To fill the blank space of the indoor unit front panel when the remote controller is relocated indoors.	-	

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Remote Controller	Wired Remote Controller	PREMTW101		All Therma V products	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 Therma V products	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

Category	Model Name	Model Number	Figure	Applicable Product	Relevant Function	Purpose	Feature
Gateway	ACP Lonworks	PLNWKB000		All Therma V products	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
	Modbus RTU Gateway	PMBUSB00A				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				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
Dry Contact	Simple Dry Contact	PDRYCB000		All Therma V products	-	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	PWFMDD200		All Therma V products	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				Energy Monitoring	To measure production / consumption power

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

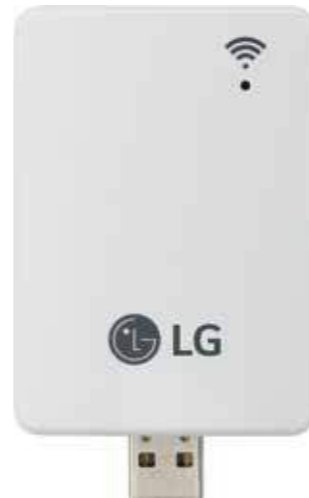
LG Wi-Fi Modem

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.