User Convenience

























2022





Therma V can be connected to the DHW recirculation pump, which can then be managed via the scheduling function. When a user opens the faucet, hot water is immediately accessible thanks to the DHW recirculating function. This feature also has the added advantage of preventing Legionella growth in the hot water pipe.



ThinQ Seamless Connectivity

LG ThinQ, a smart phone app, allows users to monitor and manage compatible LG products remotely, which means they can set the temperature and regulate the use of their THERMA V anytime and anywhere. In most EU countries, LG ThinQ technology also works with Google Assistant and Alexa, letting users control their Therma V with voice commands.



PWFMDD200 (LG Wi-Fi Modem) / PWYREW000 (10m extension connect cable in between THERMA V indoor and LG Wi-Fi Modem) could be required depending on installation condition.

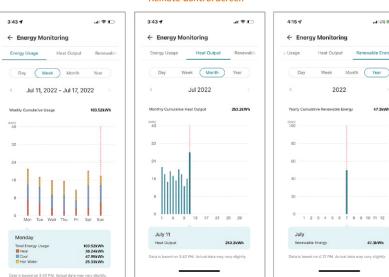
* Search "LG ThinQ" on Google market or App store, then download the app.



Energy Monitoring via Remote Controller and ThinQ

Without connecting Meter Interface, estimated power consumption and thermal energy can be monitored on both the remote controller and LG ThinQ 1).

- Instant power consumption
- Power consumption by period (Daily, Weekly, Monthly, Yearly): Categorized as Heat, Cool, and DHW
- Produced Heat output by period (Daily, Weekly, Monthly, Yearly)²⁾ - Renewable Energy by period (Daily, Weekly, Monthly, Yearly) 2), 3)



3) This energy information is only available with LG ThinO in Spain. 4) This image is intended to help you understand, and the differences in actual use.

1) To use LG ThinO. LG Wi-Fi modem (PWFMDD200) is required When using antifreeze, it will not be available. LG ThinQ App. Screen 4)

Current 0 kW
Total 16 kW 0%

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Key Advantages

Easy Installation & Maintenance

Excellent Performance & Efficiency























All-in-one solution: Integrated Water Tank Type

THERMA V R32 Split IWT is the perfect space-saving solution for residential application thanks to its fully integrated hot water tank. Unlike in the case of typical separate installation, in this all-in-one solution hydronic components and Domestic Hot Water (DHW) are prewired, which requires reduced installation time and saves valuable living space. THERMA V R32 Split IWT is easy to set up and operate while it demonstrates outstanding reliability and efficiency.

Easy Draining System





LG THERMA V R32 SPLIT IWT

Direct Modbus Communication

It is convenient for maintenance or moving as the water inside can be easily drained through the built-in drain valve.

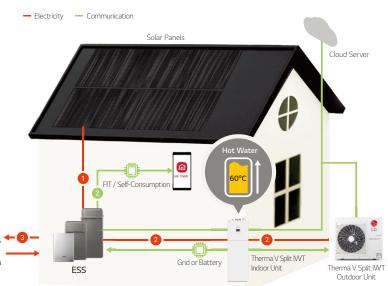


R32 Split IWT can be connected and controlled by a thirdparty control system using a Modbus protocol directly, without Modbus RTU gateway.



Energy States Interlock

Therma V R32 Split IWT provides an energy state interlock function that enables customers to use as much as possible of their own renewable energy. It can shift set points depending on input signal from Energy Storage System (ESS) or any other third-party device using Modbus or Digital 230V inputs.



2) Once the battery is fully charged, the surplus energy from the ESS will heat the water tank. The user gets to monitor the

3) Once the water is heated, the use



Full-on Innovation Inside and Out

LG Therma V Split IWT with an integrated indoor hot water tank – a domestic hot water supply, space heating and cooling solution – has reached a new era of innovation. A stainless steel water tank reduces the risk of corrosion, while an internal coil type heat exchanger contributes to higher efficiency. Compact and lightweight components allow quicker and easier installation, with various advanced control options providing for user convenience.

Key Features

All-in-one integration

- Quick and easy installation
- DHW tank and hydronic component integration
- Integrated 3kW backup heater and expansion tank for heating (8 ℓ)

Enhanced installation flexibility

- Refrigerant pipes connect IDU & ODU
- Light weight and compact size indoor unit
- Max. 50m refrigerant piping and 3-way piping connection

High efficiency & wide operational range

- R32 Refrigerant with low GWP
- SCOP up to 4.65 / 3.12 (low temp. / med temp. application): A+++ / A++
- Water heating efficiency 133% (5,7kW, profile L) / 140% (9kW, profile XL): A+
- COP up to 4.90 (outdoor air 7°C / leaving water 35°C)
- Leaving water temperature up to 65°C

Innovative design & technology

- Duplex stainless steel water tank (200ℓ)
- Durable stainless steel: no need to install an anode and replace it on a regular basis in the case of a magnesium anode, or no electricity consumption in the case of an impressed current anode.



- Built-in water flow and pressure sensors to monitor the water circuit in real time
- PWM-pump with option to control by △T
- Energy monitoring of estimated power consumption

Control & Connectivity

- LG ThinQ Wi-Fi control and monitoring solution
- PV / ESS or smart grid connectivity
- Modbus connectivity without a gateway
- Schedule-based control logic for DHW recirculation pump
- Enhanced 2nd circuit control logic

Product	Phase	Capacity (kW)	Indoo	or Unit	Outdoor Unit			
		5			HU051MR U44			
R32 Split IWT	1Ø	7	HN0913T NK0		HU071MR U44	LG Personal V.		
		9			HU091MR U44			

Product Specification | Indoor Unit

Technical Specification			Indoor Unit	HN0913T NK0		
	Heating	Min. ~ Max.	°C	15 ~ 65		
Operation Range (Leaving Water Temp.)	Cooling	Min. ~ Max.	°C	5 ~ 27 (16 ~ 27) 1)		
(Leaving Water Temp.)	Domestic Hot Water	Min. ~ Max.	°C	15 ~ 80 ²⁾		
	Volume		l	200		
Domestic Hot Water Tank	Material		-	Duplex Stainless Steel		
	Internal Thermal Protect I	imit	°C	85		
Main Water Pump	Main Water Pump Model			Grundfos UPM3K 20-75 CHBL		
Flow Sensor	Measuring Range	Min. ~ Max.	ℓ/min	5 ~ 80		
Water Pressure Sensor	Measuring Range	Min. ~ Max.	bar (G)	0 ~ 20		
Expansion Vessel (Heating Circuit)	xpansion Vessel (Heating Circuit) Volume		Į.	8		
S. f. t. Value	Heating Circuit	Upper Limit	bar	3		
Safety Valve	DHW Circuit	Upper Limit	bar	10		
	B 61	Liquid (outside diameter)	mm (Inch)	Ø 9.52 (3/8)		
	Refrigerant Circuit	Gas (outside diameter)	mm (Inch)	Ø 15.88 (5/8)		
	10/	Inlet	Inch	5 C4		
Piping Connections	Water Circuit	Outlet	Inch	Female G1" according to ISO228-1 (parallel pipe thre		
		Cold Inlet	Inch			
	DHW Tank Water Circuit	Hot Outlet	Inch	Female G1" according to ISO228-1 (parallel pipe threads)		
		Recirculation	Inch			
Sound Power Level	Heating	Rated	dB(A)	42		
Dimensions	Unit	$W \times H \times D$	mm	600 × 1,750 × 660		
Weight (without water)	Unit		kg	118		
Exterior	Color / RAL Code		-	White / RAL 9016		
Electrical Specification	"		Indoor Unit	HN0913T NK0		
Wiring Connections	Power and Communicatio	n Cable (Included Earth, H07RN-F)	mm² x cores	0.75 x 4C		
	Туре		-	Sheath		
	No. of Heating Coil		EA	2		
	Capacity Combination		kW	3		
Electric Heater	Heating Step		Step	1		
	Power Supply		V, Ø, Hz	220-240, 1, 50		
	Wiring Connections Power S	Supply Cable (Included Earth, H07RN-F)	mm² x cores	1.5 x 3C		
	Rated Current		Α	13.0		

2) DHW 58 ~ 80°C operating is available only when the electric heater is operating.

Key Components



Components

- 1 Plate Heat Exchanger (Ref. / Water)
- 3 Expansion Tank for heating (8L)
- Reserved space for DHW Expansion Tank
- 5 DHW Storage Tank (Stainless Steel, 200L)
- with internal coil type heat exchanger 6 Standard III Remote controller
- (Attached on front panel)
- Air vent valve
- **8** 3 Way diverting valve (DC)
- 9 Electric back-up heater (3kW) Water flow sensor
- 11 Main water pump with air vent and safety valve (water circuit, 3bar)
- Water pressure sensor
- B Drain valve for water circuit
- 4 Safety valve (DHW tank, 10bar)
- Drain valve for DHW tank

Connections

- A DHW recirculation pipe (Female G1" *)
- B Domestic hot water outlet pipe (Female G1" *) © Domestic cold water inlet pipe (Female G1" *)
- D Heating circuit inlet pipe (Female G1" *)
- Heating circuit outlet pipe (Female G1" *)
- F Refrigerant Liquid pipe (SAE 3/8") G Refrigerant Gas pipe (SAE 5/8")
- * According to ISO 228-1 (parallel pipe threads)

Product Specification | Outdoor Unit

		OAT		Indoor Unit	HN0913T NK0				
Technical Specification	nical Specification		LWT	Outdoor Unit	HU051MR U44	HU071MR U44	HU091MR U44		
		7°C	35°C	kW	5.50	7.00	9.00		
	Heating	7°C	55°C	kW	5.50	5.50	5.50		
Nominal Capacity		2°C	35°C	kW	3.30	4.20	5.40		
		35°C	18°C	kW	5.50	7.00	9.00		
	Cooling	35°C	7°C	kW	5.50	7.00	9.00		
		7°C	35°C	kW	1.12	1.43	1.94		
	Heating	7°C	55°C	kW	2.04	2.04	2.04		
Nominal Power Input		2°C	35°C	kW	0.94	1.20	1.54		
	6 "	35°C	18°C	kW	1.20	1.56	2.14		
	Cooling	35°C	7°C	kW			3.46		
		7°C	35°C	W/W	4.90	4.90	4.65		
COP	Heating	7°C	55°C	W/W	2.70	2.70	2.70		
		2°C	35°C	W/W	3.52	3.51	3.50		
EER	Carlina	35°C	18°C	W/W	4.60	4.50	4.20		
	Cooling	35°C	7°C	W/W	2.80	2.70	2.60		
Operation Range	Heating Min. ~ Max.			°C DB	-25 ~ 35				
(Outdoor Temp.)	Cooling Min. ~ Max.			°C DB	5 ~ 48				
Compressor	Туре			-	Hermetic Sealed Scroll				
	Туре			-	R32				
Dafricanant	GWP (Global Warming Po	tential)		-		675			
Refrigerant	Precharged Amount			g	1,500				
	t-CO ₂ eq			-		1.013			
	Outer Diameter	Liquid		mm (inch)	Ø 9.52 (3/8)				
	Outer Diameter	Gas		mm (inch)	Ø 15.88 (5/8)				
Piping Connections	Longth	Standard		m	5				
	Length	Max.		m	50				
	Level Difference Max.			m	30				
	Chargeless-Pipe Length			m	10				
	Additional Charging Volume			g/m	40				
Rated Water Flow Rate (at LW		ℓ/min	15.8	20.1	25.9				
Sound Power Level	Heating Rated		dB(A)	60	60	60			
Sound Pressure Level (at 1m)	Heating	Rated		dB(A)	52 52 52				
Dimensions	Unit	W×H×D		mm	950 × 834 × 330				
Weight	Unit			kg	60.0				
Exterior Color / RAL Code				-	Warm Gray / RAL 7044				
Flactrical Specification		Outdoor Unit	HIIOS1MD IIAA	HIIO71MD IIAA	HIJOO1MB IJAA				

Voltage, Phase, Frequency

Rated Running Current

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 6. SCOP are in accordance with EN14825. cable and circuit breaker should be selected in accordance with that.

Power Supply Cable (included earth, H07RN-F)

- pressure level is converted from sound power level based on tonality penalty of OdB and installation in free-field. Therefore, these values can be increased owing to ambient conditions during operation Rated sound power level is in accordance with EN12102-1 under conditions of EN14825.
- the declared values at rated conditions acc. ErP regulation.
- 7. Water Heating Efficiency is in accordance with EN16147.
- Sound power level is measured on the rated condition in accordance with ISO 9614 standard. Sound 8. All installation sites must be equipped with an earth leakage circuit breaker (ELCB).

Seasonal Energy Efficiency

cription			Indoor Unit		HN0913T NK0		ENERG eneptron - everpren	90	****	ENERG
			Outdoor Unit	HU051MR U44	HU071MR U44	HU091MR U44	LG HU091MR out /	_	3.7	енергия - ενεργεια
	Average	SCOP	-	4.65	4.65	4.65			⊕ LG	HU091MR U44 / HN09
ce Heating Utlet 35°C Average Climate Water Outlet 35°C Average Climate Water Outlet 55°C	Seasonal Space Heating Efficiency (η _s)	%	183	183	183	A*** A*	A*	(S) A" I		
		Seasonal Space Heating Eff. Class	-	A+++	A+++	A+++	A** A ** B C		· A ·	A B C
	Average	SCOP	-	3.23	3.23	3.23	C E		+ 🚎	D E F
	Climate Water	Seasonal Space Heating Efficiency (η _s)	%	126	126	126	D		+	□ X _{XL}
		Seasonal Space Heating Eff. Class	-	A++	A++	A++	42 dB	■ 7 kW ■ 6 kW ■ 9 kW	+ 🎘	A*** A** A**
nestic Hot Water ciency cording to EN 16147)		Declared Load Profile	-	L	L	XL	(6) 5			B C D
		Water Heating Efficiency (ην/h)	%	133	133	140	60 dB		+ 🚳	
		Water Heating Fff. Class	-	A+	A+	A+	2019	811/2013		



















HU051MR U44 + HN0913T NK0

HU071MR U44 + HN0913T NK0

HU091MR U44 + HN0913T NK0

HU051MR U44 + HN0913T NK0

HU071MR U44 + HN0913T NK0

HU091MR U44 + HN0913T NK0

Performance Table for Cooling Operation | Maximum Cooling Capacity

Performance Table for Heating Operation | Maximum Heating Capacity (Including Defrost Effect)

LWT 30°C LWT 35°C LWT 40°C LWT 45°C LWT 50°C LWT 55°C LWT 60°C LWT 65°C Capacity (kW) Capacity (kW) Capacity (kW) Capacity (kW) Capacity (kW) Capacity (kW) Capacity (kW)

LWT 30°C LWT 35°C LWT 40°C LWT 45°C LWT 50°C LWT 55°C LWT 60°C LWT 65°C Capacity (kW) | Capacity (kW)

LWT 30°C LWT 35°C LWT 40°C LWT 45°C LWT 50°C LWT 55°C LWT 60°C LWT 65°C

Capacity (kW) Capacity (kW)

LWT 7°C LWT 10°C LWT 13°C LWT 15°C LWT 18°C LWT 20°C LWT 22°C

LWT 7°C LWT 10°C LWT 13°C LWT 15°C LWT 18°C LWT 22°C LWT 22°C

LWT 19°C LWT 10°C LWT 13°C LWT 15°C LWT 18°C LWT 20°C

^{* 9}kW 10 model * A+++ to D scale.

Note
1. DB : Dry Bulb Temperature (°C), LWT : Leaving Water Temperature (°C) 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

The table values above may not be matched, subject to installation conditions. • The rating can slightly vary depending on the test standards or countries.

^{4.} The shaded areas are not guaranteed continuous operation.