

LG'S NEW THERMA V IWT AT A GLANCE



SLEEK DESIGN, EASY INSTALLATION, ADVANCED PERFORMANCE

THERMA V R32 IWT, or integrated water tank, is a domestic hot water supply, space heating and cooling solution that conveniently combines an indoor hot water tank with a separate outdoor unit. THERMA V R32 IWT is the perfect space-saving solution for residential applications because hydronic components like the domestic hot water (DHW) and buffer tanks, which are typically installed separately, are fully integrated.

LG THERMA V R32 IWT

All-in-one integration

- Quick & easy installation
- DHW tank & hydronic component integration
- Integrated max. 6kW backup heater
- Integrated expansion tank for heating (12ℓ)

Enhanced installation flexibility

- Light weight & compact indoor unit: only 2 installers required
- Max. 50m refrigerant piping and 3-way piping connection availability
- Integrable buffer tank (40ℓ) & expansion tank for DHW circuit (8ℓ) (optional)

High efficiency

- SCOP up to 4.52 (Average climate/Low temp. application): A+++
- DHW heating efficiency 125% (Profile L): A+



1) Will be acquired

HN0916T NB1

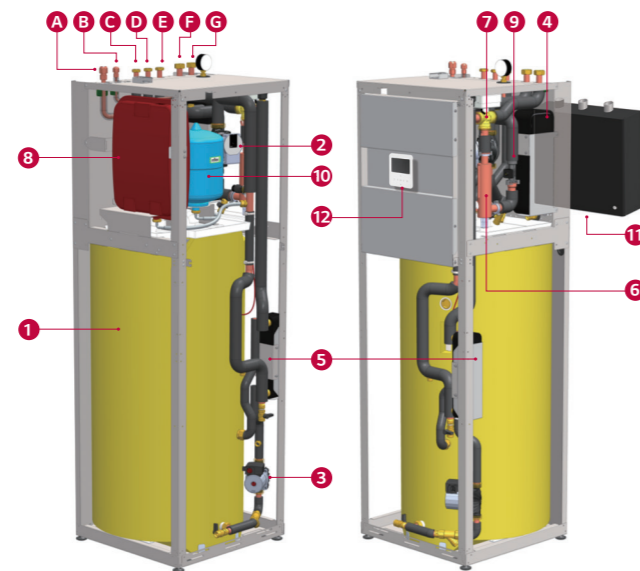


HU051MR U44
HU071MR U44
HU091MR U44



KEY COMPONENTS

- 1 DHW storage tank (200ℓ)
- 2 Main water pump
- 3 Water pump for DHW charging
- 4 Main plate heat exchanger (Ref / Water)
- 5 Plate heat exchanger for DHW (Water / DHW)
- 6 Backup electric heater (Max. 6kW)
- 7 3-way diverting valve
- 8 Expansion vessel for heating (12ℓ)
- 9 Flow sensor
- 10 Expansion vessel for DHW (8ℓ, Option)
- 11 Buffer tank (40ℓ, Option)
- 12 RS3 Remote controller (Attached on the front panel)
- A 5/8" Refrigerant gas pipe
- B 3/8" Refrigerant liquid pipe
- C G3/4" Domestic hot water outlet
- D G3/4" Domestic cold water inlet
- E G3/4" DHW Re-circulation
- F G1" Heating circuit inlet
- G G1" Heating circuit outlet



PRODUCT SPECIFICATION (INDOOR UNIT)

Description				HN0916T NB1
Operation Range (Leaving Water)	Heating	Min.-Max.	°C	15 - 65
	Cooling	Min.-Max.	°C	5 - 27
	Domestic Hot Water	Min.-Max.	°C	15 - 80 ¹⁾
Water Flow Rate	Min.	ℓ/min		7
	Rated ²⁾ (5 / 7 / 9kW)	ℓ/min		15.8 / 20.1 / 25.9
	Min. - Max.	ℓ/min		5 - 80
Flow Sensor	Measuring Range			3
Safety Valve	Heating Circuit			10
	DHW Circuit			12
Expansion Vessel (Heating Circuit)	Volume	ℓ		Ø 15.88 (5/8)
				Ø 9.52 (3/8)
Piping Connections	Refrigerant Circuit	Gas (Outer Diameter)	mm (inch)	G1" (Ø 22 mm) internal thread
		Liquid (Outer Diameter)	mm (inch)	G1" (Ø 22 mm) internal thread
	Water Circuit	Inlet	inch	G3/4" (Ø 19.75 mm) internal
		Outlet	inch	G3/4" (Ø 19.75 mm) internal
	DHW Tank Water Circuit	Cold Water Inlet	inch	G3/4" (Ø 19.75 mm) internal
		Hot Water Outlet	inch	G3/4" (Ø 19.75 mm) internal
Domestic Hot Water Tank	Re-circulation	inch	G3/4" (Ø 19.75 mm) internal	
	Rated	ℓ		200
Sound Power Level	Water Volume	°C		85
	Internal Thermal Protect Limit	°C		43
Dimensions (W x H x D)	Unit	mm		602 x 1,810 x 680
Weight (Without Water)	Unit	kg		140
Power Supply	V, Ø, Hz			220-240, 1, 50
	Capacity	kW		10 : 2 / 4 30 : 6
Backup Heater	V, Ø, Hz			220-240, 1, 50 / 380-415, 3, 50
	Power Supply			

1) DHW 58-80 Operating is available only when the back up heater is operating.

2) Rated conditions for Low temperature (A7/W35 -> 30)

* 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.

* LWT : Leaving Water Temperature, OAT : Outdoor Air Temperature

* Sound level values are measured at anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.

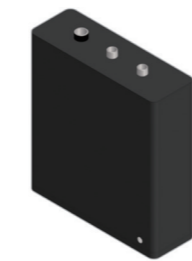
* Performances are accordance with EN14511 and reflect ErP testing conditions. Above gives the declared values at rated conditions acc. ErP regulation.

* This product contains fluorinated greenhouse gases.

ACCESSORY PARTS (OPTIONAL ACCESSORY)

Buffer tank for space heating

As an optional accessory, the installer can install a standard 40ℓ buffer tank for space heating. Fitting seamlessly into the main casing, it can be attached on the backside of the IWT unit.



Buffer tank for space heating		OSHB-40KT.AEU
Water Volume	ℓ	40
Dimensions (W x H x D)	mm	518 x 560 x 175
Weight (w/o water) Product	kg	24

Expansion vessel for DHW

As an optional accessory, the installer can install a standard 8ℓ DHW expansion vessel that conveniently fits inside the indoor unit. It is provided with an accessory kit that includes a flexible connection tube.



Expansion vessel for DHW		OSHE-12KT.AEU
Expansion Volume	ℓ	8
Connection	inch	3/4
Max. Pressure	bar	10
Pre-charge	bar	3
Dimensions (W x H x D)	mm	416 x 238 x 502
Weight (w/o water) Product	kg	2.5

ACCESSORY PARTS (SEPARATELY PROVIDED)

Shut-off valve (1EA)



Shut-off valve with strainer (1EA)



THERMA V™ R32

NEW IWT (Integrated Water Tank)



KEY ADVANTAGES

EASY INSTALLATION	EXCELLENT PERFORMANCE & EFFICIENCY	USER CONVENIENCE
<ul style="list-style-type: none"> All in one LG heating configurator* Flexible piping design 	<ul style="list-style-type: none"> R1 compressor R32 refrigerant Flash gas injection Wide operation range Black Fin heat exchanger Smart grid (Energy state) 	<ul style="list-style-type: none"> Harmonious exterior Intuitive interface LG ThinQ Mixing circuit Various control options Flow sensor 3rd party boiler Energy monitoring Seasonal auto mode Low noise mode

* will be supported within this year

ECO-CONSCIOUS WITH R32 REFRIGERANT

Ensure regulation compliance with eco-conscious R32 refrigerant, which boasts enhanced efficiency and a 68% reduced global warming potential (GWP) than the alternative.

GWP (Global Warming Potential)

R1 Compressor™ LG'S REVOLUTIONARY TECHNOLOGY

R1 Compressor™ technology offers advanced efficiency, reliability and operational range due in part to the enhanced tilting motion of the scroll.

LG ThinQ SEAMLESS CONNECTIVITY

LG ThinQ allows users to monitor and control compatible LG products remotely, so they can set the temperature and regulate the use of their THERMA V R32 IWT anytime, anywhere. ThinQ technology also works with voice activation with Google Home.

Mandatory accessory: PWFMD200 (LG Wi-Fi Modem), PWYREW000 (10m extension connect cable in between THERMA V indoor and LG Wi-Fi Modem) could be required depends on installation condition.

* Search "LG ThinQ" on Google market or App store, then download the app.
* Google home voice is supported in United Kingdom, France, Germany, Spain, Italy, Austria, Ireland, Portugal.

SOPHISTICATED DESIGN

The THERMA V R32 IWT indoor unit can be installed in multiple indoor spaces, to include the utility or laundry room, garage or kitchen due to its sleek design.

INTUITIVE CONTROL

THERMA V is equipped with a new remote controller which supports various functions.

Premium Design

- New modern design 4.3 inch color LCD display
- Capacitive touch button (Especially On/Off button turn on LED)

User Friendly Interface

- Information displayed with simple graphic, icon & text
- Easy-to-use navigation

Convenient Functions

- Optimize schedule setting logic
- Set the period, date, On/Off time, operation mode, target temp easy installation setting

Enhanced Energy Information with Simple Interface

- A clear view of instantaneous power consumption against target
- Accumulated power consumption & heat energy production weekly, monthly or annually

Display information in detail

PRODUCT SPECIFICATION (OUTDOOR UNIT)

Description		OAT	LWT	Indoor Unit Outdoor Unit	HN0916T NB1		
					HU051MR U44	HU071MR U44	HU091MR U44
Nominal Capacity	Heating	7 °C	35 °C	kW	5.50	7.00	9.00
	Cooling	7 °C	55 °C	kW	5.00	5.25	5.50
Nominal Power Input	Heating	35 °C	18 °C	kW	5.50	7.00	9.00
	Cooling	7 °C	35 °C	kW	1.22	1.56	2.05
COP	Heating	7 °C	55 °C	kW	1.92	2.02	2.12
	Cooling	35 °C	18 °C	kW	1.20	1.59	2.20
EER	Heating	7 °C	35 °C	W/W	4.50	4.50	4.40
	Cooling	7 °C	55 °C	W/W	2.60	2.60	2.60
Operation Range (Outdoor Temperature)	Heating	35 °C	18 °C	W/W	4.60	4.40	4.10
	Cooling	Min. - Max.	Min. - Max.	°C DB	-25 - 35		
Refrigerant	Type			°C DB	5 - 48		
	GWP (Global Warming Potential)				R32		
	Factory Charge				675		
	Chargeless Pipe Length				1,500 g		
	Additional Charging Volume				1.013 t-CO2 eq.		
	Compressor				30 m		
Refrigerant Piping Connection	Type				30 g/m		
	Outer Diameter	Liquid	mm (inch)	Hermetic Sealed Scroll			
	Gas	mm (inch)	Ø 9.52 (3/8)				
	Standard	m	Ø 15.88 (5/8)				
Dimensions	Length			5 m			
	Max.			50 m			
	Level Difference (ODU - IDU)			30 m			
Weight	Unit			950 x 834 x 330 mm			
	Sound Power Level			60 kg			
Sound Pressure Level (at 1m)	Heating			61.0 dB(A)			
	Cooling			61.0 dB(A)			
Power Supply	Rated			61.0 dB(A)			
	Rated			53.0 dB(A)			
	Rated			53.0 dB(A)			
Wiring Connections	Voltage, Phase, Frequency			220-240, 1, 50			
	Maximum Running Current			14.2 A			
	Recommended Circuit Breaker			15.7 A			
Voltage, Phase, Frequency	Maximum Running Current			23.0 A			
	Recommended Circuit Breaker			20.0 A			
Power Supply	Power Supply Cable (Included Earth, H07RN-F)			25.0 A			
	Power Supply Cable (Included Earth, H07RN-F)			4.0 x 3 mm ² x cores			

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* LWT: Leaving Water Temperature, OAT: Outdoor Air Temperature.
* Sound level values are measured at anechoic chamber. Therefore, these values depend on the ambient conditions and values are normally higher in actual operation.
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SEASONAL ENERGY EFFICIENCY

Description		Indoor Unit Outdoor Unit	HN0916T NB1			
			HU051MR U44	HU071MR U44	HU091MR U44	
Space Heating (According to EN14825)	Average Climate Water Outlet 35°C	SCOP	-	4.52	4.47	4.45
	Seasonal Space Heating Efficiency (η _s)	%	178	176	175	
	Seasonal Space Heating Eff. Class (A+++ to D Scale)		A+++	A+++	A+++	
	Average Climate Water Outlet 55°C	SCOP	-	3.01	3.00	3.03
Domestic Hot Water Efficiency (According to EN 16147)	Seasonal Space Heating Efficiency (η _s)	%	117	117	118	
	Seasonal Space Heating Eff. Class (A+++ to D Scale)		A+	A+	A+	
	Declared Load Profile		L	L	L	
	Water Heating Efficiency (η _{wh})	%	125	125	125	
Water Heating Eff. Class (A+++ to G Scale)		A+	A+	A+		

1) Will be acquired

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