OVERVIEW

LG THERMA V R32 Split

- Air to Water Heat Pump. (AWHP)
- Indoor and Outdoor units are separated and connected via R32 refrigerant piping.
- 3 Unit capacities (5 / 7 / 9kW) for heating and cooling.

Controller

Indoor Unit
HN0916M NK4

Outdoor Unit
HU051MR U44 / HU071MR U44 / HU091MR U44

011-1W0315

* EHPA for Austria.

LG's New R32 Split AWHP

Aims to be the Best Heating Solution

Provides space heating and domestic hot water supply throughout your home all year long.

7 Key Advantages of LG THERMA V R32 Split

- Achieves excellent performance, especially at low ambient temperatures under -7°C.
- Promotes green living through R32 refrigerant's low global warming potential.
- Provides smart living solutions with Wi-Fi connectivity via SmartThinQ®.
- Provides a sufficient level of heating by supplying hot water up to 65℃.
- Optimizes efficiency with LG's cutting edge R1 Compressor technology.
- Offers a user-friendly and intuitive interface via a new, stylish remote controller.
- Increases credibility with an EU-regulation compliant energy label of A+++.

SPECIFICATION

Indoor Unit Specification

Description			Unit	HN0916M NK4
Operation Range (Leaving Water)	Heating		℃	15 ~ 65
	Cooling	For Fan Coil Unit	℃	5 ~ 27
		For Under Floor	℃	16 ~ 27
Electric Heater	Power Supply	Phase / Frequency / Voltage	Ø / Hz / V	1 / 50 / 220 ~ 240
	Number of Heating Coil		EA	2
	Capacity		kW	3 + 3
	Maximum Running Current		A	32
Flow Sensor	Type		-	Vortex
	Measuring Range		LPM	5 ~ 80
Piping Connections	Water Circuit	Inlet	mm(inch)	Male PT 25(1)
		Outlet	mm(inch)	Male PT 25(1)
	Refrigerant Circuit	Gas	mm(inch)	15.88 Ø (5/8)
		Liquid	mm(inch)	9.52 Ø (3/8)
Dimensions	Body	W x H x D	mm	490 x 850 x 315
Net Weight	Body		kg	41
Sound Power Level	Heating	Rated	dB(A)	44

Outdoor Unit Specification

Description		OAT	LWT	Indoor Unit	HN0916M NK4		
				Outdoor 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	kW	5.50	5.50	5.50
		2°C	35°C	kW	3.30	4.20	5.40
	Cooling	35°C	18°C	kW	5.50	7.00	9.00
		35°C	7°C	kW	5.50	7.00	9.00
Nominal Power Input	Heating	7°C	35°C	kW	1.12	1.43	1.94
		7°C	55°C	kW	1.57	1.57	1.57
		2°C	35°C	kW	0.94	1.20	1.54
	Cooling	35°C	18°C	kW	1.20	1.56	2.14
		35°C	7°C	kW	1.96	2.59	3.46
COP	Heating	7°C	35°C	W/W	4.90	4.90	4.65
		7°C	55°C	W/W	3.50	3.50	3.50
		2°C	35°C	W/W	3.52	3.51	3.50
EER	Cooling	35°C	18°C	W/W	4.60	4.50	4.20
		35°C	7°C	W/W	2.80	2.70	2.60
Operation Range (Outdoor Air)	Heating	Min. ~ Max.		°CDB	-25 ~ 35		
	Cooling	Min. ~ Max.		°CDB	5 ~ 48		
Refrigerant	Type			-	R32		
	GWP (Global Warming Potential)			-	675		
	Charge			kg	1.5		
				tCO2eq	1.013		
	Chargeless Pipe Length			m	10		
	Additional Charging Volume			g/m	30		
Compressor	Quantity			EA	1		
	Type			-	Scroll		
Refrigerant Piping Connection	Outer Dia.	Liquid		mm(inch)	9.52 Ø (3/8)		
		Gas		mm(inch)	15.88 Ø (5/8)		
	Length	Standard		m	5		
		Max.		m	50		
	Level Difference (ODU ~ IDU)	Max.		m	30		
Dimensions	Unit	W x H x D		mm	950 x 834 x 330		
Weight	Unit			kg	60		
Sound Power Level	Heating	Rated		dB(A)	60		
Sound Pressure Level (at 1m)	Heating	Rated		dB(A)	50		
Power Supply	Phase / Frequency / Voltage			Ø / Hz / V	1 / 50 / 220 ~ 240		
	Maximum Running Current			A	21	22	23
	Recommended Circuit Breaker			A	25		

* 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 based on that interconnected pipe length is standard length and difference of elevation (Outdoor ~ Indoor unit) is zero.
* This product contains fluorinated greenhouse gases.

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
		Rated Heat Output (Prated)	kW	6	6	6
		Seasonal Space Heating Efficiency (ηs)	%	183	183	183
		Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A+++	A+++	A+++
		Annual Energy Consumption	kWh	2,444	2,552	2,669
	Average Climate Water Outlet 55°C	SCOP	-	3.23	3.23	3.23
		Rated Heat Output (Prated)	kW	6	6	6
		Seasonal Space Heating Efficiency (ηs)	%	126	126	126
		Seasonal Space Heating Eff. Class (A+++ to D Scale)	-	A++	A++	A++
		Annual Energy Consumption	kWh	3,843	3,843	3,843

Note
1. A+++ label is available from 26, Sep. 2019 and should be considered as A++ label until that time.
2. EHPA for Austria.

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LG
Life's Good

R32

THERMA V™

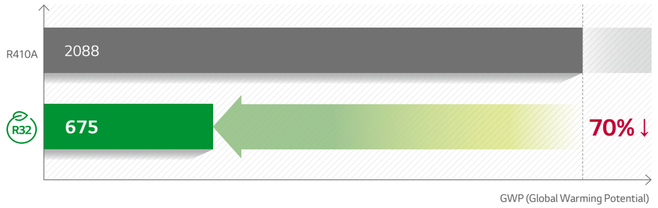
SPLIT HYDRO BOX TYPE

Efficient, Environmental, Excellent in every way

GET TO KNOW LG THERMA V R32 SPLIT

Compliant with the New, Eco-Conscious R32 Refrigerant

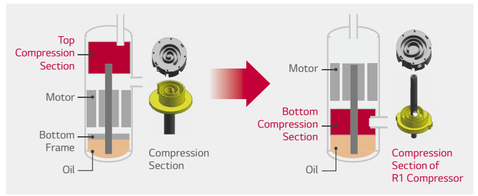
By taking advantage of R32 refrigerant's low GWP, LG R32 THERMA V Split is the perfect way to make your home more eco-conscious and regulation compliant.



R1 Compressor™ LG's Revolutionary Technology

R1 Compressor™ is the world's first "shaft-through" hybrid scroll-shaped compressor. Taking the best elements of scroll and rotary type compressors, the R1 offers unrivaled performance and efficiency and allows for a marked improvement in operational range. LG's innovative technology eliminates the tilting motion of the scroll, minimizing energy waste and increasing overall reliability.

Conventional Scroll Compressor | **R1 Compressor**

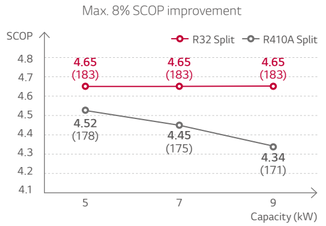


- Scroll compressor with simple structure.
- High efficiency. (Low load at low speed / Total efficiency)
- Low noise. (High speed possible)
- Improved tilting motion of scroll.
- 20% weight reduction. (vs. Conventional compressor)

Achieves EU Regulation Compliant A+++ Label

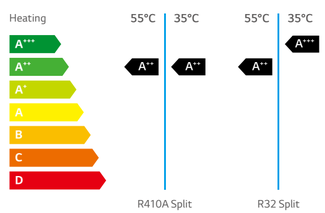
Combining the R1 Compressor with R32 refrigerant, this product boasts a 4.65 Seasonal Coefficient of Performance (SCOP) in heating operation and an Energy related Product (ErP) of A+++.
(Dependent on a leaving water temperature of 35°C)

SCOP



* Test Condition
Test procedure follows EN14825 (Low temp. average), Based on the single phase model line up.

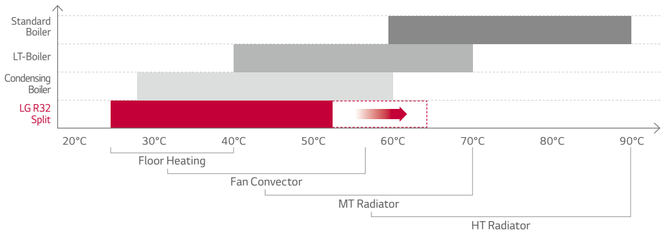
ErP Energy Labeling



* A+++ label is available from 26, Sep. 2019 and should be considered as A++ label until that time.

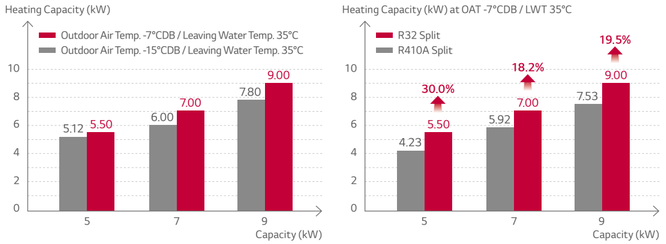
65°C Leaving Water Temperature

By using R32 refrigerant and the R1 Compressor, the LG THERMA V R32 Split can produce a Leaving Water Temperature of up to 65°C. It can be used to replace a mid-temperature radiator in a home refurbishment as well as in a new home development.



Excellent Performance Especially at Low Ambient Temperature

The heating capacity of the R32 Split at a low ambient temperature is 18% more efficient than the R410A Split.



New Stylish Remote Controller

LG's new remote controller is optimized to operate the LG THERMA V R32 Split with simple functionality that anyone can use.

User-Friendly Interface
- Simple information display.
- Easy-to-use navigation.

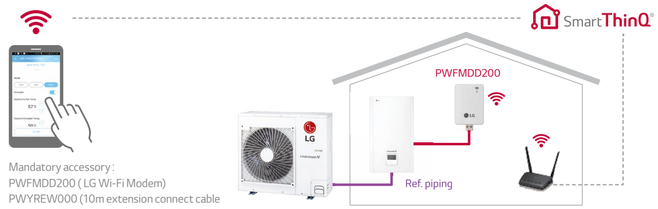
Easy-to-Read Energy Information
- Instant view of power consumption against target.
- Power and energy consumption data weekly, monthly or annually.

Premium Design
- New modern 4.3 inch color LCD display.
- Simple touch buttons. (On/Off and more)

Convenient Functions
- Programmable settings to optimize use.
- Customize your unit's On/Off schedule, operation mode, target temperature and more.
- Easy installation setting.

SmartThinQ®

Thanks to a LG Wi-Fi Modem and LG's smartphone app, SmartThinQ®, users can monitor and remotely control compatible LG products and access the vast majority of functions available on the THERMA V R32 Split's controller. Via the app, it's simple to set the perfect temperature from any location and return to a blissfully warm indoor environment.



Mandatory accessory :
PWFMDD200 (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 SmartThinQ®" on Google market or App store, then download the app.

LINE UP

THERMA V Full Line up

(Heating Capacity)

		Water Temperature (C/H)	Refrigerant	Power	Capacity (kW) 5	7	9	12	14	16
THERMA V Monobloc		5°C / 65°C	R32	1ø 230V	○ 5.5 (5.5)	○ 7.0 (7.0)	○ 9.0 (9.0)	○ 12.0 (12.0)	○ 14.0 (14.0)	○ 16.0 (16.0)
				3ø 400V				○ 12.0 (12.0)	○ 14.0 (14.0)	○ 16.0 (16.0)
THERMA V Split	NEW Hydro Box Type	5°C / 65°C	R32	1ø 230V	○ 5.5 (5.5)	○ 7.0 (7.0)	○ 9.0 (9.0)			
	Hydro Box Type	5°C / 57°C	R410A	1ø 230V				○ 10.4 (12.0)	○ 12.0 (14.0)	○ 13.0 (16.0)
				3ø 400V				○ 10.4 (12.0)	○ 12.0 (14.0)	○ 13.0 (16.0)
	DHW Tank Intergrated	7°C / 58°C		1ø 230V			○ 9.0 (9.0)	○ 10.4 (12.0)	○ 11.0 (14.0)	○ 12.0 (16.0)
				3ø 400V				○ 10.4 (12.0)	○ 11.0 (14.0)	○ 12.0 (16.0)
Therma V High Temp.	High Temp. (Heating only)	80°C	R410A + R134a	1ø 230V						○ (16.0)