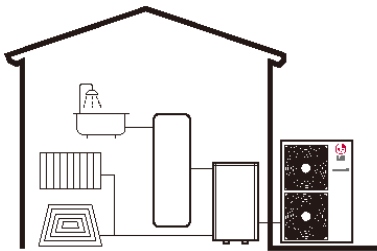




Split - HT *100% performance even at -7°C ambient temperature*

THERMA V™



Excellent performance

A split air-to-water heat pump system consists of two parts: 1) an outdoor heat pump and 2) an indoor floor standing unit connected via refrigerant pipe work. The advantage is the two units can be far apart (up to 50m away and/or 30m high difference) the outdoor unit can be positioned away from the home and the indoor unit connects to the wet central heating system as a traditional boiler. The indoor unit does not combust any fuel so there is no need for a chimney or flue and allowing the indoor unit to be situated anywhere inside the property.

This latest High Temperature Split from LG, provides excellent heating performance, especially at low ambient temperature. Even an outside temperatures of -7°C and LWT of 80°C, the HT Split is able to provide 16kW heating capacity (improved by 16.8% compared to the previous models).

Cascade 2 stage compression

THERMA V high temperature is suitable for houses which have poor insulation such as Victorian / Edwardian homes with existing old radiators, or have to meet domestic sanitary water regulation requiring higher water temperatures.

Through 2 refrigerant cycles with different temperatures levels R410A in the outdoor unit and R134a within the indoor hydro kit unit, cascade technology can produce hot water supply up to 80°C efficiently.

Excellent Performance

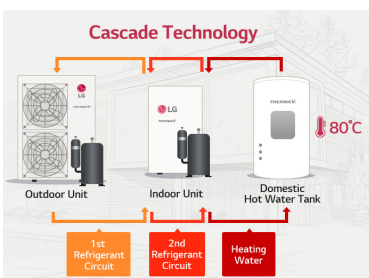
- Higher energy efficiency.
- Enhanced efficiency & Performance.
- Cascade 2 stage compression.

Time saving commissioning

- Efficient & Flexible design.
- Light weight.

User convenience

- Suitable for old radiator.
- Low noise.
- Quick defrosting.



Time saving commissioning

Based on installation site information, installers can prepare pre-settings with LG's **Heating Configurator** program and save data into a memory card from the office. This can reduce their time on site if there are many controllers.

- The Therma V remote controller can be configured based on site specific installation requirements and uploaded to a memory card.
- The memory card can be used to commission multiple units, saving time and money.

The remote controller can store up to 50 history items, making it possible to easily identify the rare cause of malfunction or faults using the history data and give a prompt solution.



User convenience

Users can access their Therma V Monobloc from anywhere at anytime, using LG's smartThinQ app (Android or iOS based mobile phones) or even voice control from smart speaker (optional accessory required).

Simple operation for various functions include, On/Off, Operation Mode Selection, Current temperature, Set temperature, On/Off Reservation and Energy Monitoring.

Mandatory Accessory: PWFMD200 (LG Wi-Fi Modem) and PWYREW000 (10m extension connect cable in between the THERMA V unit and Wi-Fi module)



SPLIT TYPE UP TO 80°C



Above: A twin fan (16kW) outdoor unit with connecting indoor unit, hence the term - split system.
 outdoor HU161HAU33 indoor HN1610HNK3



KIWA MCS up to 65°C for domestic RHI payments
<https://www.ofgem.gov.uk/environmental-programmes/domestic-rhi/about-domestic-rhi>

VARIOUS APPLICATION



RADIATOR

FLOOR HEATING

HOT WATER

THERMA V™ Black Fin SmartThinQ®



<https://www.microgenerationcertification.org/consumers/product-search/>

The High Temperature Therma V split system is suitable for older houses with poor insulation or homes that have suitable existing radiators or a need for a higher usage of domestic hot water.

The LG High Temperature Split system from LG has excellent efficiency performance especially at low ambient temperatures, even at -7°C outside temperature the system provides 16kW capacity, due to the cascade refrigeration cycle, and is quiet in operation.

A flexible system with 50m distance pipework and 30m height difference the units are able to fit neatly into a property due to the slim outdoor unit design and the compact and lightweight design of the indoor unit.

The improved high temperature outdoor unit has a new shaped fan for better airflow and is coated with the LG Black Fin epoxy corrosion coating for better heating performance and a longer lifespan.

Information - A high temperature split outdoor unit can be up to 50m away from the indoor heat exchanger unit.

Description - OUTDOOR UNIT		Outdoor Unit		Unit	HU161HA.U33
Nominal Capacity	Heating	OAT	LWT	Unit	
		7°C	35°C	kW	16.00
Nominal Power Input	Heating	7°C	35°C	kW	16.00
		7°C	55°C	kW	4.89
COP	Heating	7°C	35°C	W/W	5.00
		7°C	55°C	W/W	3.27
Operation range (Outside)	Heating	Min. ~ Max.	°C DB		2.80
Refrigerant	Type / GWP				-25 ~ 35
Refrigerant Piping Connection	Outer Dia.	Liquid	mm(inch)		R410A / 2088.00
		Gas	mm(inch)		Ø 9.52 (3/8)
		Standard	m		Ø 15.88 (5/8)
Dimensions	Unit	W x H x D	mm		7.5
Weight	Unit		kg		950 x 1,380 x 330
Sound Power Level	Heating	Rated	dB(A)		89
					63

Description - INDOOR UNIT		Unit		Unit	HN1610H.NK3
Operation Range (Leaving Water)	Heating		°C		25 - 80
Refrigerant	Type / GWP				R134a / 1,430
Water Flow Rate	Min. (Recommended)		LPM		15
Piping Connections	Water Circuit	Inlet	mm(inch)		Male PT 25(1)
		Outlet	mm(inch)		Male PT 25(1)
	Refrigerant Circuit	Gas	mm(inch)		Ø 15.88 (5/8)
		Liquid	mm(inch)		Ø 9.52 (3/8)
Dimensions	Body	W x H x D	mm		520 x 1,080 x 330
Net Weight	Body		kg		84
Sound Power Level	Heating	Rated	dB(A)		58 / 63*

Power supply for outdoor unit	Phase / Frequency / Voltage	1 / Hz / V	1 / 50 / 220 - 240
	Maximum Running Current	A	20
	Recommended Circuit Breaker	A	25

- Capacities and power inputs are based on the following conditions:
 - Piping Length: Interconnected pipe Length = 7.5m - Difference limit of elevation (Outdoor - Indoor unit) is zero.
- Wiring cable size must comply with the applicable local and national codes.
- Sound level values are measured at anechoic chamber. Therefore, these values can be increased owing to ambient conditions during operation.
- This product contains fluorinated Greenhouse Gases.
- LWT: Leaving Water Temperature, OAT: Outdoor Air Temperature.
- Due to our policy of innovation some specifications may be changed without notification.

Renewable technology

Comfortable home

Lower bills

Reduce carbon emissions