





LG Electronics AE Company, Commercial Air Conditioning

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High Efficient Heating Solution

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Focus on Energy & Environment

Continuous Challenges

The EU has set a target to cut emissions by 40% by 2030 with 27% of energy being produced by renewable sources. Plans are in place to move each country to a more energy efficient, low-carbon economy to help meet this target.

The UK's example

- The UK "Green Deal" and the "CRC Energy Efficiency Scheme" to assist investing in low carbon technologies
- All properties (homes, commercial and public buildings) must have an "Energy Performance Certificate (EPC)" when sold, built or rented.
- Larger public buildings over 500m² must display a "Display Energy Certificate (DEC)".

The Renewable Heat Incentive (RHI)

The RHI is the UK Government financial incentive scheme to encourage a switch from fossil fuel heating systems to renewable heating systems.

Renewable heat is defined as the heat generated minus the electrical input. (If the output is 10 kW, and the input is 3 kW, then the renewable output is 7kW, or 7kWh every hour of operation.)

- The domestic RHI for Air to Water Heat Pump (launched 9 April 2014): RHI pays 7.3p/kWhr to homeonwers, private landlords, social landlords and self-builders.
- Non-domestic RHI for Air to Water Heat Pump (launched 28 May 2014) :
- RHI pays 2.5p/kWhr to industry, businesses and public sector organization.

In order to claim for the RHI you will need a Green Deal Assessment and a MCS approved product and an MCS approved installer.

Microgeneration Certified Scheme (MCS)

Before applying

- A Green Deal Assessment must be carried out.
- Install loft or cavity wall insulation if it's recommended in the Green Deal Advice Report.
- Get an updated EPC (Energy Performance Certificate) to verify you've installed the loft or cavity wall insulation.

How to apply

- The end-user must complete an online application form and supply
- MCS Certificate (or equivalent) Number This is at the top of the certificate and looks like : MCS 01234567-A
- EPC Number
- This is at the top of your certificate and looks like : 12345-5678-9012-3456 Green Deal Advice Report Number This is at the top of your report and looks like: 12345-6789-0123-4567

Save money and pay-back

- Domestic RHI Claimable for 7 years (this can be backdated) Tariff 7.3pkWhr - Non-domestic RHI Claimable for 20 years Tariff 2.5pkWhr
- *Further Information
- https://www.ofgem.gov.uk/environmental-
- programmes/domestic-renewable-heat-incentive
- https://gdcashback.decc.gov.uk/
- https://www.gov.uk/crc-energy-efficiency-schemequalification-and-registration

European Standards

LG THERMA V has adopted for the energy certification to correspond with the market demand for the each country. THERMA V has been validated for its reliability and efficiency by acquiring these certifications under strict conditions.

Certification benefit

- MCS (UK): RHI (Renewable Heat Incentive) tariff 7.3 Pence / kWh for 7 years - NF PAC (France) : Promoted in the context of Thermal Regulation RT 2012.
- Tax Refund (15%~25% of product cost)
- EUROVENT (EU): Model registration at the EUROVENT website

LG Energy Lab

LG THERMA V has passed through the severe testing condition at the Energy Lab which is located in northern France. It can prove LG THERMA V is designed to make sure the steady performance and reliability under European winter condition.





FOCUS ON ENERGY & ENVIRONMENT



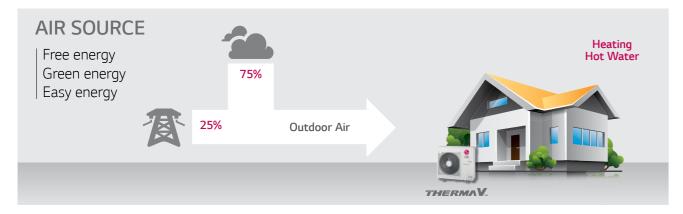


What is LG THERMA V?

THERMA V is LG's newest Air to Water Heat Pump system, especially designed for new housing and renovation by LG's advanced heating technology with energy saving. THERMA V can be used as various heating solution from floor heating to hot water supply with multiple heat sources.

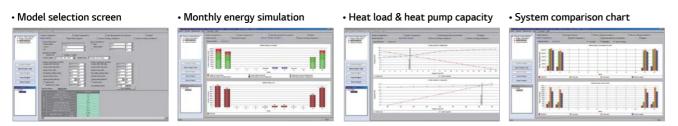
Energy Efficient Application

THERMA V offers the best solution for home heating and hot water supply with LG's inverter technology. It is 4 times more energy efficient than boiler system by absorbing energy from the outdoor environment.



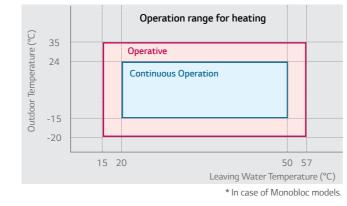
Optimal Application

Advanced model selection software enables designers to choose optimal THERMA V model based on the location and environmental factors.



Reliable Application

Heating range for outdoor temperature is down to -20°C and leaving water temperature can reach max. 57 degree.



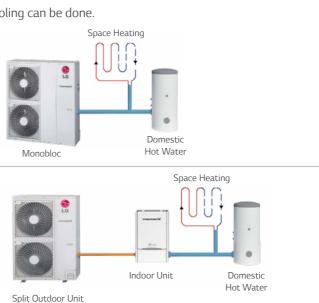
Various Application

Various kinds of application is possible with THERMA V units including new house also renovation house.

New House

With low temp. monobloc & split model, heating and cooling can be done.









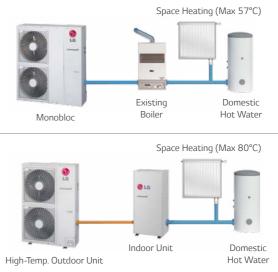
Renovation House

THERMA V can be connected to existing boiler system to optimize energy efficiency and heating capacity for renovation house. Also THERMA V High Temperature can replace completely exiting boiler by providing 80°C hot water.









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Why LG THERMA V?

The LG Therma V is designed to create incomparable customer values like energy saving, comforts, easy controls and services by applying the advanced technologies.

The LG inverter technology provides excellent energy efficiency with optimal components such as water pump, heat exchanger and fan motor.

Moreover, the pressure control technology provides stable heating capacity at low temperature and reaches target performance without difficulties. Additionally, the differentiated structure like allin-one type, gold-fin and users-oriented functions enhance professionals reputations as well as endusers happiness by experiencing the LG's full line-up from 3kW to 16kW in heating capacity.

ENERGY EFFICIENCY



P.08

- Highly efficient inverter compressor
- Savings from energy efficient water pump
- Energy efficiency at -2°C
- Optimized components

CONVENIENCE & COMFORT



P.10

- Stable heating capacity with refrigerant pressure control
- Low operating noise
- Convenient control for end-users

EASY INSTALLATION & SVC



P.12

Compact size & light weight for easy installation
All-in-one type for quick and reliable installation
Improved structure for easy service
Emergency operation mode
Service & Warranty support

THERMAV

ENERGY EFFICIENCY

Powerful BLDC* Compressor

*BLDC : Brushless DC Motor

THERMA V is equipped with a BLDC* compressor that uses a strong neodymium magnet. The compressor has improved efficiency compared to standard AC inverter product and it is optimized for seasonal efficiency.





Conventional Distributed Winding





Concentrated Winding





Energy Efficiency

at -2°C

Efficiency and performance are improved by increased heat exchange rate of wide louver fin & new optimal distributor design applied to the heat exchanger.

Wide Louver Fin Improved heat exchanger efficiency of up to 28%. Optimized Heat Exchanger Path Improved cycle efficiency up to 5% with equal distribution.

12kW

Heat Exchange Rate (%)

Heating

2.5

2.0

1.5

1.0 0.5 0.0

High Efficient Water Pump

THERMA V is equipped with a high efficiency A-Class water pump. The pump pressure is adjustable, to suit design conditions.



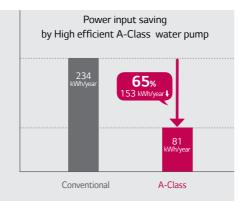
12/14/16 kW 3/5/7/9kW

Minimized oil circulation

Optimized vibration, noise

• High efficiency motor Optimized compression

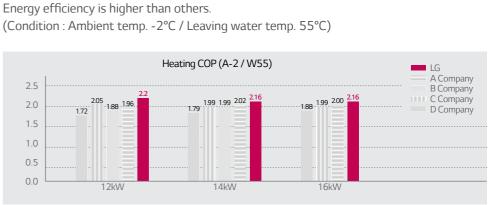
• High reliability



* Condition : 12 hours x 30 days x 5 month (estimated value)

Inverter BLDC Fan Motor

LG BLDC fan motor offers additional energy savings up to 40% at low speed and 20% at high speed compared to an AC motor.



* Peak value / Monobloc models

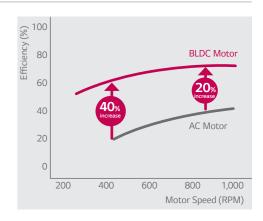




Conventional Unequal Distribution



New Equal Distribution

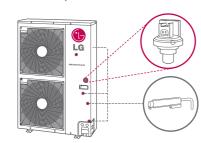




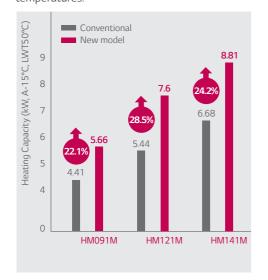
CONVENIENCE & COMFORT

Reliability at Low Temperature

Pressure control reinforces heating performance by operating in stable condition at low ambient temperature.



Heating Capacity at Low Temperature High and stable performance at low temperatures.





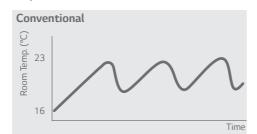
Pressure Control

-

Temperature Control

perature Sensor Only

High and stable heating performance at low temperatures.



This ensures to reach target performance point without failing to

compressor to target point.

This algorithm is more likely to be affected

by temperature change and it takes more time to calculate proper operation range of

keep a reliable operation



Improved Fan for Low Noise



Conventional

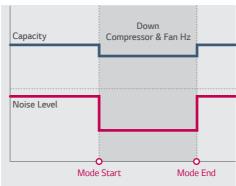
Weather Dependent Operation

If users choose this mode, setting temperature will follow outdoor temperature automatically. If outdoor temperature decreases, heating capacity for the house will increase automatically in order to keep comfortable heating performance according to weather.

Silent Mode & Scheduler

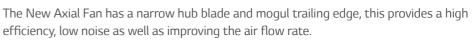
Silent mode operation can reduce the noise level specially during the setting time by remote controller and users can set the weekly on/off schedule also.

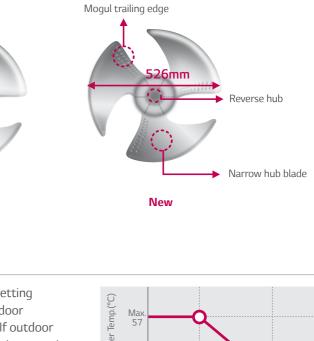
Heating Capacity	Heating Soun	d Pressure (dBA)
(kW)	Normal	Silent Mode
3	47	43
5	51	48
7	52	48
9	52	48
12	53	50
14	53	50
16	53	50



Anti-Legionella Function

By setting Anti-legionella operation mode on, THERMA V heats the whole water tank automatically once a week until water temperature reach up to 80°C.

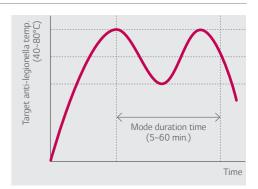












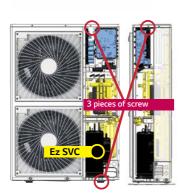
THERMAV

EASY INSTALLATION & SVC

Ez Installation & SVC

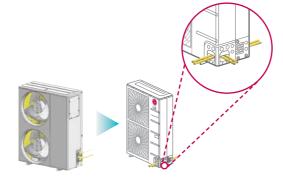
Compact & Slim





Compact design & Ez SVC - Remove 3 pieces of screw for SVC - Front panel removal system





3-Way charging pipe (Split type only) Refrigerating connection is possible in three directions.

Emergency Operation

Even in case of sudden product error, THERMA V ensures stable heating operation by applying 2 steps of emergency control.



Corrosion **Resistant Heat** Exchanger

LG's Outdoor Heat Exchanger is coated with a gold-colored anti-corrosive epoxy treatment on the aluminum coil, to prevent corrosion. This maintains excellent heat transfer properties of the coil for an extended time, whereas non-Gold $\mathsf{Fin}^{\mathsf{m}}$ coils progressively lose efficiency due to surface corrosion. Gold Fin[™] fin is perfect for areas with high pollution or locations exposed to saltwater spray from the sea.

Composition of Fin screens



Service and Warranty

LG provide various levels of technical support to cover model selection & quotation, installation, commissioning and spare parts & warranty.

3 Levels of Technical Service

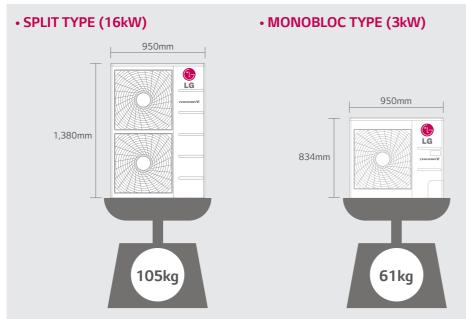


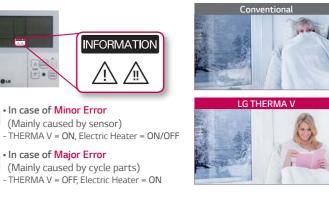
LG Warranty Package (The UK Example)

- PRE-PREVENTIVE ACTION - Free technical training - Free AWHP health check* - Dedicated spare parts division
- TM44 CIBSE Energy inspections

* If 3 warranty issues are claimed within the warranty period. ** Mainland UK only: excluding Northern Ireland, Scottish Highlands and Islands, Fire (Monday-Friday)

THERMA V is shaped to minimize the size and weight in order to help easy and efficient work condition for installation.





Gold Fin is long lasting, durable and makes the Outdoor Unit look prestigious

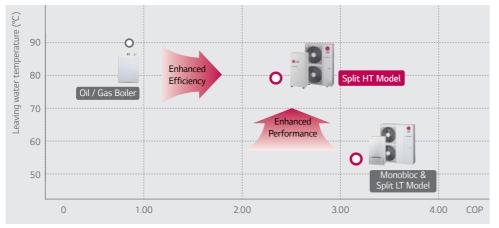






Enhanced Efficiency & Performance

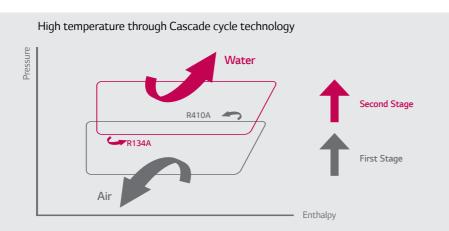
THERMA V high temp. can produce Max. 80°C hot water with high efficiency (Max. COP 4.06 at 24°C ODT & 40/45 EWT/LWT) through cascade 2 stage compression technology.



*Condition for HT model : Outdoor air temp. 18°C, entering water temp. 70°C *Condition for LT model : Outdoor air temp. 18°C, entering water temp. 50°C

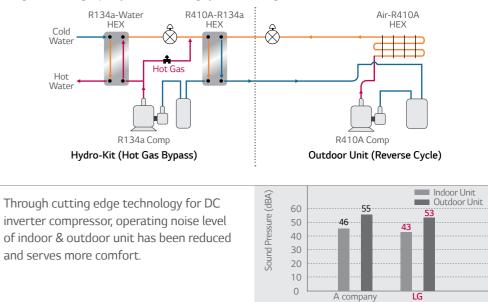
Cascade 2 Stage Compression Technology

Max. 80°C hot water can be generated through Cascade R410A to R134A BLDC compressor technology and applicable for existing old boiler heating system which demands hot water supply.



Low Maximum easily installed without any additional Current Level electric connection cost. Quick Through R134A compressor controlling technology, necessary time for defrost Defrosting operation has been minimized effectively. (LG Patent)

As compared to normal reverse cycle defrost, 25% reduction in defrost time, and 10% increase of integrated heating capacity is achieved using hybrid defrosting.



Low Noise Level

and serves more comfort.

Higher Energy Efficiency

By applying efficient compressor and optimally designed structure, the more energy saving, the lower operating cost make sooner return on initial investment.

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	3.00	3.01
	2.50	
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	0.50	
	0.00	A7/W45 A7/W
		A//W-5 A//W

CO

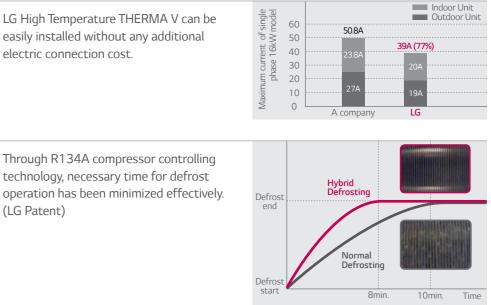
Heating COP at 7°C ODT

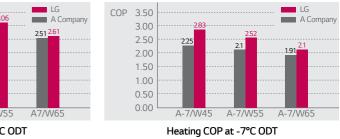
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Accessories provided by LG

Accessory	Feature							
Domestic Hot Water Tank	LGRTV200E 198 LITERS LGRTV300E 287 LITERS Single Coil	LGRTV200VE 198 LITERS LGRTV300VE 287 LITERS Double Coil						
		* The sensor (PHRSTA0) can be purchased separately						
Domestic Hot Water	• PHLTA (1¢, Split)	in case of using other brand's Domestic tank.						
Tank Kit	 PHLTC (3Ф, Split) PHLTB (Monobloc) 							
	Features Easy to install the domestic hot water for There is a MCCB to protect the product. Dimension(mm) (HxWxD) : 250x170x110 Weight(kg) : 2.1 To extend THERMA V functionality in generating dom	0						
Remote Temperature Sensor	PQRSTA0 Features It can help to detect the exact room temp Applied to ceiling cassette, ceiling conceale Hydro Kit.	ed duct, AWHP and						
	Parts Included							
	Remote temperature sensor / Extension c	able (15m) / Manual						
Solar Thermal Kit	• PHLLA Features To interface solar-thermal system with TH coil Domestic tank. Installed at the water p and solar-thermal system. Dimension(mm) (HxWxD) : 110x55x22	T						
Dry Contact	PQDSA Features	6 8 8 6						

Optional accessories supplied in the fields

No.	Accessory	Picture	Purpose	Specification
1	Domestic Hot Water Tank		Store and provide hot water for sanitation	Volume : 200-400 l Enameld or stainless-steel tank / Insulating foam (e.g. PUR - polyurethane) heat-exchanger surface \geq 3 m ²
2	3-Way-Valve		Switch between heating and domestic hot water circuit	230V AC SPDT (Single Pole Double Throw) / opening time 30-90 sec / final position switch Internal leakage rate < 0,1%
3	Electrical Tank Heater		Supports heating of domestic hot water, when heat pump is blocked or capacity is limited	2-6 kW Connector dimension suitable for DHW tank
4	Buffer Tank		Prevents cycling, when water volume is low and/ or heating demand is low; secures enough heat for defrosting cycle	Insulating foam (e.g. PUR - polyurethane) Volume : 100-200 l (installation in series with heat pump) 500~1,000 l (installation in parallel with heat pump)
5	Bypass Valve	E	Ensures minimum water flow rate, when flow through heating circuits is limited due to closed valves	Dimensioning according manufacturer adjustable opening pressure
6	2-Way-Valve		Blocks heating circuits, that are not suitable for cooling during cooling operation	230V AC NO or NC type final position switch
7	Expansion Vessel	\bigcirc	Absorption of pressure differences in the heating circuits due to temperature increase/decrease of the water	Dimensioning on-site required
8	Strainer		Protects plate-heat-exchanger from blocking particles	1inch / 25.4mm, Mesh size ~ 1x1mm for HM03M1.U42 only (other models are included)
9	Heating Cable	\bigcirc	Prevents the condensate pan and the drainage pipe from icing	Thermostatic control depending on outdoor temperature
10	Condensate Pan		Collects condensate water (when dropping to the base is not possible) and drains the water to a pipe	Diameter of drainage at least 3/4" Minimum dimensions according to chassis sizes (refer to specification) plus 5-10cm in width and length
11	Antifreeze		Prevents the heating water from freezing, when heat pump is out of order	Monoethyleneglycole Concentration according to lowest possible outdoor temperature
12	Noise Damper	(Anno) (Anno)	Prevents that structure-born noise is transported via the water piping	EPDM; Operating temperature according climate region (at least -10 ~ +90°C)
13	Anti-Noise Sockets		Prevents that structure-born noise is transported to the base or to the brackets	Dimensioning on-site required
14	Thermostat		When thermostatic room temperature control is preferred by costumer	230V AC When heat pumps operates in heating and cooling mode: thermostat with mode selection
15	Refrigerant Tubes	Ó	Pre-fabricated double-pipe to connect split indoor and outdoor unit	Diameter. Please refer to Specification
16	Water Tubes		Pre-fabricated double-pipe to connect monobloc outdoor unit with heating system	When heat pump is used for cooling: diffusion-resistant tubes
17	Bushing Sleeve	\bigcirc	Protecting the building against pressing water coming through the duct of the heating tubes	Dimensioning on-site required
18	Insulation Material		Mandatory when heat pump is used for cooling; prevents condensate water on cold pipes and assemblies	Diffusion-resistant

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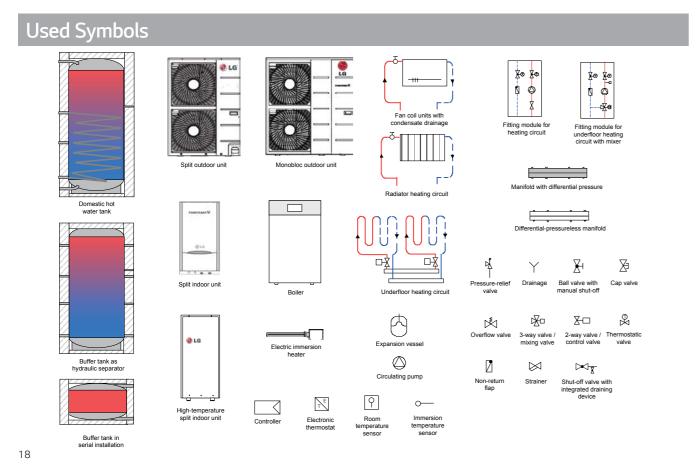
THERMAV **FLEXIBLE APPLICATIONS**

Table of the Hydraulic Applications

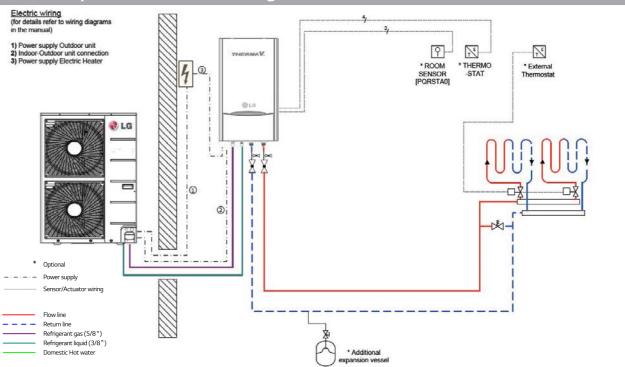
This shows some examples of how to integrate the THERMA V into the heating system according to each customer needs. Each application is accompanied with the representative connection and installation explanations with symbol icons.

Case	Heating	DHW	Heating & Cooling	Bivalent with boiler	Double Zone Heating
1	•				
2	•	•			
3	•	•	•		
4	•	•			•
5	•	•		•	•
6	•*	•	•		

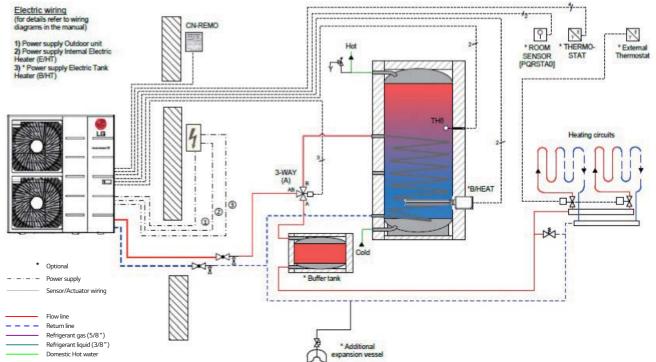
Combinations of these systems might be possible. Please refer to your local LG heating specialist. * High Temperature 80°C



Case 1. Split _ for Floor Heating

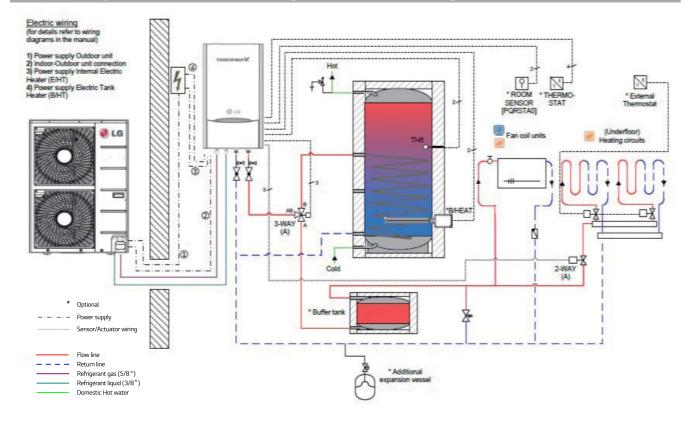


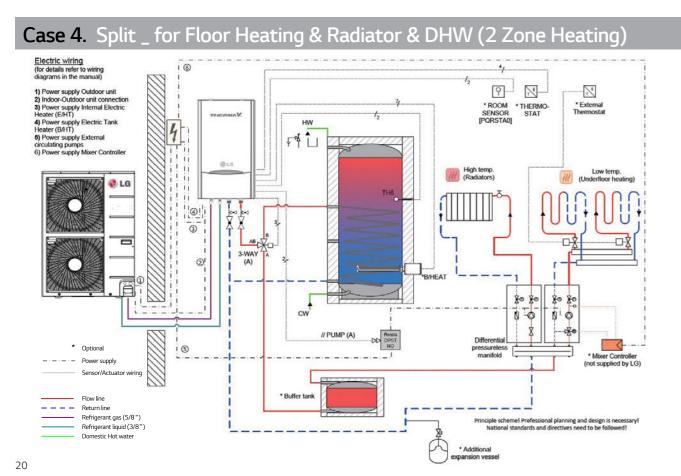
Case 2. Monobloc _ for Floor Heating & DHW



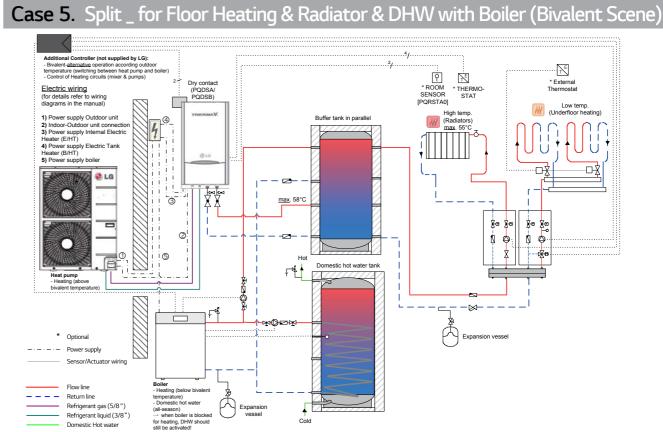
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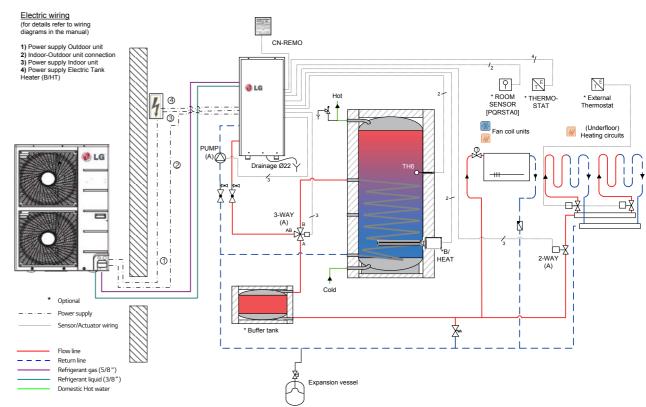




Case 3. Split _ for Floor Heating & DHW & Cooling with Fan Coil Unit



Case 6. Split (High Temp.) _ for Floor Heating & DHW & Fan Coil Units



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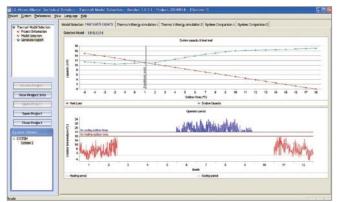
BEFORE SALES & AFTER SALES SERVICE

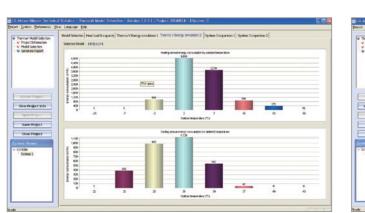
THERMA V Selection Program

LATS THERMA V simulates quick and easy result of THERMA V's economic benefits. By specifying a number of parameters, this program shows annual energy cost compared with conventional heating system and CO₂ annual amount, monthly energy amount and cost, total amount of thermal energy in kWh as the outside temperature.

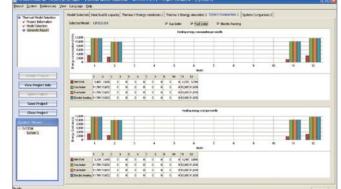
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Service and Warranty

A dedicated Technical Service department and LG's authorized Service Centers provide various levels of technical support to cover model selection & guotation, installation, commissioning and spar parts & warranty.

3 Levels of Technical Service



BEFORE INSTALLATION

- Model selection
- Energy simulation - Life time cost simulation
- Ouotation

LG Warranty Package (The UK Example)

PRE-PREVENTIVE ACTION

- Free technical training - Free AWHP health check*
- Dedicated spare parts division
- TM44 CIBSE Energy inspections

* IF 3 warranty issues are claimed within the warranty period.
** Mainland UK only, excluding Northern Ireland, Scottish Highlands and Islands, Eire (Monday-Friday)



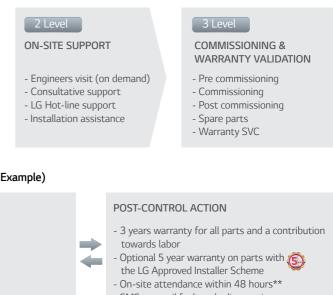
Just text the 1,2 or 3 digital fault code to : 07624 818 794 Available 24 hours a day, 365 days per year.



Speak to an LG engineer call : 08448 471 402 and select 'Option 4.' Available Monday to Friday between 09:00 and 17:00

LG Training and CPD Seminars (The UK Example)

Two Training Academies positioned in the South and North of England - Slough and Leeds, both equipped with the latest THERMA V, LG Air to Water Heat Pump. Installers can gain hands-on practical experience of the product range as well as theory in the purpose built classroom. Training courses are free of charge. LG also offer CPD accredited seminars, which can be held at your offices or at our own premises.



SMS or email fault code diagnostics

E-mail support

Send your question by e-mail to : uk.aircon@lge.com Available Monday to Friday between 09:00 and 17:00



For specific enquiries please email

Spare parts : aircon.spares@lge.com Warranty queries : aircon.warranty@lge.com Commissioning : aircon.commissioning@lge.com Training : aircon.training@lge.com





2014 Full Line-up of LG AWHP

					Perfo	rmance a	t Low A	mbient				Reliability & C	omfort						Con	venience		
Type	Capacity	φ	Product	European	A7 /	W35	A-2	/ W55	Heating Ope	rating Range	BLDC	Control	Embedded	Water	Heat	Elect	ric Heater		Emorgong	Dry	Weather	PHEX
<u>н</u> .				Certificate	СОР	Capacity	COP	Capacity	Outdoor Temp.	Leaving Water Temp.	Inverter Compressor	Sensor	Component	Pump	Exchanger Coating	Size	Capacity Control	Timer	Emergency Operation		Dependant Operation	Freezina
	3kW	1Ф	NEW		4.10	3.00	1.94	1.80	-20°C ~ 35°C	20°C ~ 57°C	LG Twin Rotary		A-Class Water Pump (Plate Heat Exchanger)	A CLASS	gold [™] Gold-fin	N/A	N/A		1 LEVEL	-0~0-	AUTO	ڗ۬ڴ
	5kW	1Ф	NEW O	MCS NF	4.42	4.99	2.08	3.01	-20°C ~ 35°C	15℃~ 57℃	LG Twin Rotary	,	A-Class Water Pump	A CLASS	gold [™] Gold-fin	4kW	1 [STEP]		2 LEVEL	- 0 ~ 0 -	AUTO	ڗٝڎ۫
ype	7kW	1Φ	NEW O	MCS NF	4.30	7.00	2.03	4.21	-20°C ~ 35°C	15℃~ 57℃	LG Twin Rotary	,		A CLASS	gold [™] Gold-fin	4kW	2 1 [STEP]		2 LEVEL	- 6 ~ 0 -	AUTO	ڗٝڎ۫
Monobloc Type	9kW	1Ф	NEW C		4.09	9.00	2.04	5.41	-20°C ~ 35°C	15℃~ 57℃	LG Twin Rotary	€ +	PHE (Plate Heat Exchanger) +	A CLASS	gold [™] Gold-fin	4kW	2 1 [STEP]		2 LEVEL	- 6 ~ 0 -	AUTO	ڗڎ
Mo	12kW	1Φ 3Φ	NEW O		4.49 4.49	12.00 12.00	2.05 2.04	7.27 7.31	-20°C ~ 35°C	15℃~ 57℃	LG Twin Rotary			A CLASS	gold [™] Gold-fin	6kW	2 1 STEP		2 LEVEL	- <u>6~</u> 0-	AUTO	ڗٚڴ
	14kW	1Ф	NEW O		4.44	14.00	2.04	8.42	-20°C ~	15°C ~	LG Twin	+	Expansion Tank +	A	<u>gold</u> ™	6kW	1		2 LEVEL	- <u>6~</u> 0-		ڗ۬ڴ
	14KVV	3Ф	0		4.44	14.00	2.03	8.40	35℃	57°C	Rotary		la,	CLASS	Gold-fin	OKVV	[STEP]	24HZ WEEKLY	LEVEL		AUTO	Ľ
	16kW	1Ф ЗФ	NEW O		4.20 4.20	16.00 16.00	2.03 2.02	9.56 9.57	-20°C ~ 35°C	15°C ~ 57℃	LG Twin Rotary	,	Electric Heater	A CLASS	gold [™] Gold-fin	6kW	2 1 STEP		2 LEVEL	- <u>6~</u> 0-	AUTO	ڗٚڴ
	3kW*	1Ф	NEW 2	Work in Progress	4.62	3.00	2.16	2.19	-20°C ~ 30°C	15℃~ 55℃	LG Twin Rotary	,		A CLASS	gold [™] Gold-fin	N/A	N/A		1 LEVEL	-0~0-	AUTO	ڗ۠ڎ
	5kW*	1ф	NEW	Work in Progress	4.55	5.00	2.11	4.11	-20°C ~ 30°C	15℃ ~ 55℃	LG Twin Rotary	,	A-Class Water Pump +	A CLASS	gold [™] Gold-fin	4kW	2 1 [STEP]		2 LEVEL	-0~0-		ڗ۠ڎ
	7kW*	1Ф	NEW	Work in Progress	4.40	7.00	2.17	5.20	-20°C ~ 30°C	15℃ ~ 55℃	LG Twin Rotary	,	PHE	A CLASS	gold [™] Gold-fin	4kW	1 [STEP]		2 LEVEL	-0~0-		ڗڎ
Split Type	9kW*	1Ф	NEW	Work in Progress	4.23	9.00	2.00	5.85	-20°C ~ 30°C	15℃ ~ 55℃	LG Twin Rotary	,	(Plate Heat Exchanger) +	A CLASS	gold [™] Gold-fin	4kW	2 1 [STEP]		2 LEVEL	- O -O-	AUTO	ڗڎ
S	12kW	1Φ	01		4.49	12.00	2.05	7.27	-20°C ~	15°C ~	LG Twin		Expansion	Normal	<u>gold</u> ™	6kW	2 1 [STEP]		2 LEVEL	- <u>6~</u> 0-		ڗ۬ڴ
	IZNV	3Ф	- 0		4.41	12.00	2.04	7.31	30°C	55°C	Rotary	ginger (Expansion Tank +	Normai	Gold-fin	OKVV	[STEP]	24H	LEVEL		AUTO	
	14kW	1Φ	0_		4.44	14.00	2.04	8.42	-20°C ~	15°C ~	LG Twin		lē,	Normal	<u>gold</u> [™]	6kW	1 STEP		2 LEVEL	- 6 ~ 0 -		ڗ۬ڴ
		3Ф			4.32	14.00	2.03	8.40	30°C	55°C	Rotary		Electric		Gold-fin							
	16kW	1Φ 3Φ	0		4.20	16.00 16.00	2.03 2.02	9.56 9.57	-20°C ~ 30°C	15℃ ~ 55℃	LG Twin Rotary		Heater	Normal	gold [™] Gold-fin	6kW	2 1 ISTEP		2 LEVEL	-0~0-	AUTO	ڗٚڴ
Split High Temp. Type	16kW	1Φ	NEW	N	2.61 (A7/W65	16.00	2.62	16.60	-15℃~ 35℃	25℃~ 80℃	LG Twin Rotary		PHE (Plate Heat Exchanger)	N/A	gold [™] Gold-fin	N/A	N/A	24H	1 LEVEL	- O ~O-	AUTO	۲۵

* These models will be available in Q1 2015 * NF-PAC / MCS certification is work in progress. Expected release Q2 2015.

* Split 12,14,16kW certified only single phase for MCS certification.

2014 LINE-UP

SPECIFICATION

MONOBLOC TYPE



		Capacity	NEW 3kW 1Φ	NEW 5kW 1Φ	NEW 7kW 1¢	NEW 9kW 10			
Monobloc (Outdoor U	nit)	Reference	HM031M.U42	HM051M.U42	HM071M.U42	HM091M.U42			
	Heating (A7/W35)	kW	3.00	4.99	7.00	9.00			
	Heating (A2/W50)	kW	2.10	3.49	4.89	6.29			
Nominal Capacity	Heating (A-2/W50)	kW	1.96	3.26	4.57	5.88			
	Heating (A-7/W35)	kW	2.83	4.72	6.61	8.61			
	Cooling (A35/W18)	kW	-	4.99	7.00	9.00			
	Heating (A7/W35)	kW	0.73	1.13	1.63	2.20			
	Heating (A2/W50)	kW	0.90	1.40	2.01	2.57			
Nominal Power Input	Heating (A-2/W50)	kW	0.89	1.39	1.98	2.65			
	Heating (A-7/W35)	kW	1.10	1.72	2.45	3.19			
	Cooling (A35/W18)	kW	-	1.39	2.00	2.65			
	Heating (A7/W35)		4.10	4.42	4.30	4.09			
OP	Heating (A2/W50)		2.33	2.49	2.43	2.45			
.0P	Heating (A-2/W50)		2.20	2.35	2.31	2.22			
	Heating (A-7/W35)		2.57	2.74	2.70	2.70			
ER	Cooling (A35/W18)		-	3.59	3.50	3.40			
Dimension	W*H*D	mm	950 x 834 x 330 1,239 x 907 x 390						
Veight		kg	61 99						
ound Pressure Level (He	ating)	dB(A)	47	51	52	52			
Outdoor Air	Heating	°CDB		-20	0 ~ 35				
Operation Range	Cooling	°CDB		5	~ 48				
eaving Water	Heating	°C	20 ~ 57		15 ~ 57				
emp. Range	Cooling	°C	-		6 ~ 35				
	Inlet	mm(inch)		Female	PT 25(1)				
Vater Pipe Connection	Outlet	mm(inch)		Female	PT 25(1)				
	Power Supply	P/V/Hz	-		1 / 220-240 / 50				
Electric Heater Capacity kW			-						
Vater Flowrate Limit		LPM	Min. 15						
Max. Water Head		m	6 7						
Power Supply		P/V/Hz	1 / 220-240 / 50						
Recommended Fuse		A	20						

Manahlan (Outdoor U	-:+)	Capacity	NEW 12kW 1Ф	NEW 14kW 10	NEW 16kW 10	NEW 12kW 30	NEW 14kW 30	NEW 16kW 34			
Monobloc (Outdoor U	nit)	Reference	HM121M.U32	HM141M.U32	HM161M.U32	HM123M.U32	HM143M.U32	HM163M.U32			
	Heating (A7/W35)	kW	12.00	14.00	16.00	12.00	14.00	16.00			
	Heating (A2/W50)	kW	8.50	9.78	11.03	8.55	9.83	11.29			
Nominal Capacity	Heating (A-2/W50)	kW	7.94	9.14	10.30	7.99	9.18	10.54			
	Heating (A-7/W35)	kW	11.48	13.11	14.80	11.48	13.11	14.92			
	Cooling (A35/W18)	kW	14.50	15.50	16.10	14.50	15.50	16.10			
	Heating (A7/W35)	kW	2.67	3.15	3.81	2.67	3.15	3.81			
	Heating (A2/W50)	kW	3.41	4.00	4.60	3.49	4.07	4.73			
Nominal Power Input	Heating (A-2/W50)	kW	3.30	3.95	4.63	3.40	4.00	4.63			
	Heating (A-7/W35)	kW	4.16	4.85	5.61	4.16	4.85	5.95			
	Cooling (A35/W18)	kW	4.00	4.69	5.07	4.00	4.69	5.07			
	Heating (A7/W35)		4.49	4.44	4.20	4.49	4.44	4.20			
COP	Heating (A2/W50)		2.49	2.45	2.40	2.45	2.42	2.39			
LUP	Heating (A-2/W50)		2.41	2.31	2.22	2.35	2.30	2.28			
	Heating (A-7/W35)		2.76	2.70	2.64	2.76	2.70	2.51			
EER	Cooling (A35/W18)		3.63	3.30	3.18	3.63	3.30	3.18			
Dimension	W*H*D	mm	1,239 x 1,450 x 390								
Weight		Kg	141								
Sound Pressure Level (He	ating)	dB(A)			5	53					
Outdoor Air	Heating	°CDB			-20	~ 35					
Operation Range	Cooling	°CDB			5 -	- 48					
Leaving Water	Heating	°C			15	~ 57					
Temp. Range	Cooling	°C			6 -	- 35					
Water Pipe Connection	Inlet	mm(inch)			Female	PT 25(1)					
water Pipe Connection	Outlet	mm(inch)			Female	PT 25(1)					
Electric Heater	Power Supply	P/V/Hz	1 / 220-240 / 50								
	Capacity	kW				6					
Nater Flowrate Limit		LPM	Min. 15								
Max. Water Head	m	8									
Power Supply		P/V/Hz		1 / 220-240 / 50			3 / 380-415 / 50				
Recommended Fuse		A		32			10				



SPECIFICATION

SPLIT TYPE



Split (Outdoor Unit)		Capacity	NEW 3kW 1¢	NEW 5kW 1¢	NEW 7kW 1¢	NEW 9kW 1¢
		Reference	HU031.UE2*	HU051.U42*	HU071.U42*	HU091.U42*
	Heating (A7/W35)	kW	3.00	5.00	7.00	9.00
	Heating (A2/W50)	kW	2.25	4.08	5.19	6.04
Nominal Capacity	Heating (A-2/W50)	kW	2.26	4.16	5.25	5.98
	Heating (A-7/W35)	kW	2.89	4.92	6.70	8.11
	Cooling (A35/W18)	kW	3.00	5.00	7.00	9.00
	Heating (A7/W35)	kW	0.65	1.10	1.59	2.13
	Heating (A2/W50)	kW	0.89	1.59	2.07	2.59
Nominal Power Input	Heating (A-2/W50)	kW	0.93	1.73	2.18	2.64
	Heating (A-7/W35)	kW	1.02	1.69	2.31	3.03
	Cooling (A35/W18)	kW	0.75	1.35	2.05	2.90
	Heating (A7/W35)		4.62	4.55	4.40	4.23
COP	Heating (A2/W50)		2.53	2.57	2.51	2.33
LUP	Heating (A-2/W50)		2.44	2.40	2.41	2.27
	Heating (A-7/W35)		2.83	2.91	2.90	2.68
EER	Cooling (A35/W18)		4.00	3.70	3.41	3.10
Dimension	W*H*D	mm	870 × 655 × 320	950 x 834 x 330	950 x 834 x 330	950 x 834 x 330
Neight		kg	46	64	64	64
Sound Pressure Level (H	Heating)	dB(A)	51	54	54	54
Outdoor Air	Heating	°CDB	-20 ~ 30	-20~30	-20~30	-20~30
Operation Range	Cooling	°CDB	5 ~ 48	5~48	5~48	5~48
	Pipe Diameter (Liquid)	mm(inch)	Φ6.35(1/4)	9.52(3/8)	9.52(3/8)	9.52(3/8)
	Pipe Diameter (Gas)	mm(inch)	φ12.7(1/2)	15.88(5/8)	15.88(5/8)	15.88(5/8)
Refrigerant (R410a)	Pre-Charged Amount	kg	1	1.55	1.55	1.55
	Chargeless Pipe Length	m	7.5	7.5	7.5	7.5
	Additional Charging Volume	g/m	20	40	40	40
	Minimum	m	-	-	-	-
Ref. Pipe Length	Standard	m	7.5	7.5	7.5	7.5
	Maximum	m	40	50	50	50
Power Supply		P/V/Hz	1/220-240/50	1/220-240/50	1/220-240/50	1 / 220-240 / 50
Recommended Fuse		A	20	20	20	20

Cality (Indexed Linity)		Capacity	NEW 3kW	NEW 5,7, 9kW HN0914.NK2					
Split (Indoor Unit)		Reference	HN0314.NK2						
Dimension	W*H*D	mm	490*850*315	490*850*315	490*850*315	490 x 850 x 315			
Weight		kg	47	48	48	48			
Electric Heater	Power Supply	P/V/Hz	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50	1 / 220-240 / 50			
	Capacity	kW	4	4	4	4			
Leaving Water	Heating	°C	15~55	15~55	15~55	15~55			
Temp. Range	Cooling	°C	6~30	6~30	6~30	6~30			
Water Flowrate Limit		LPM	Min. 8	Min. 15	Min. 15	Min. 15			
Max. Water Head		m	6	7	7	6			
	Inlet	mm(inch)	Male PT 25(1)	Male PT 25(1)	Male PT 25(1)	Male PT 25(1)			
Water Pipe Connection	Outlet	mm(inch)	Male PT 25(1)	Male PT 25(1)	Male PT 25(1)	Male PT 25(1)			

* Combination Table

	3kW	5kW	7kW	9kW
Outdoor Unit (1¢) Indoor Unit	HU031.UE2	HU051.U42	HU071.U42	HU091.U42
	HN0314.NK2	HN0914.NK2	HN0914.NK2	HN0914.NK2

<u> </u>		Capacity	12kW 1¢	14kW 1Φ	16kW 1Φ	12kW 3Φ	14kW 3Φ	16kW 3φ
Split (Outdoor Unit))	Reference	HU121. U31	HU141. U31	HU161. U31	HU123. U31	HU143. U31	HU163. U3
	Heating (A7/W35)	kW	12.00	14.00	16.00	12.00	14.00	16.00
	Heating (A2/W50)	kW	8.50	9.78	11.03	8.55	9.83	11.30
Nominal Capacity	Heating (A-2/W50)	kW	7.94	9.14	10.30	7.99	9.18	10.50
	Heating (A-7/W35)	kW	11.48	13.11	14.80	11.66	12.72	14.92
	Cooling (A35/W18)	kW	14.50	15.50	16.10	14.60	15.50	16.80
	Heating (A7/W35)	kW	2.67	3.15	3.81	2.72	3.24	3.81
	Heating (A2/W50)	kW	3.41	4.00	4.60	3.49	4.07	4.73
Nominal Power Input	Heating (A-2/W50)	kW	3.30	3.95	4.63	3.40	4.00	4.63
	Heating (A-7/W35)	kW	4.16	4.85	5.61	4.31	4.98	5.95
	Cooling (A35/W18)	kW	4.00	4.69	5.07	4.02	4.65	5.09
	Heating (A7/W35)		4.49	4.44	4.20	4.41	4.32	4.20
60D	Heating (A2/W50)		2.49	2.45	2.40	2.45	2.42	2.39
COP	Heating (A-2/W50)		2.41	2.31	2.22	2.35	2.30	2.27
	Heating (A-7/W35)		2.76	2.70	2.64	2.71	2.55	2.51
EER	Cooling (A35/W18)		3.63	3.30	3.18	3.63	3.33	3.30
Dimension	W*H*D	mm	950 x 1,380 x 330					
Weight		kg	105					
Sound Pressure Level (H	Heating)	dB(A)			!	53		
Outdoor Air	Heating	°CDB			-20	~ 30		
Operation Range	Cooling	°CDB	5~48					
	Pipe Diameter (Liquid)	mm(inch)	9.52 (3/8)					
	Pipe Diameter (Gas)	mm(inch)	15.88 (5/8)					
Refrigerant (R410a)	Pre-Charged Amount	Kg	2.85	2.85	2.85	2.98	2.98	2.98
	Chargeless Pipe Length	m	7.5	7.5	7.5	7.5	7.5	7.5
	Additional Charging Volume	g/m	60	60	60	60	60	60
	Minimum	m				3		
Ref. Pipe Length	Standard	m	7.5					
	Maximum	m	50					
Power Supply		P/V/Hz		1 / 220-240 / 50		3 / 380-415 / 50		
Recommended Fuse		А		32			16	
		Capacity			12~	16kW		
Split (Indoor Unit)		Reference	HN1616.NK1	HN1626.N	1	29.NK1	HN1636.NK1	HN1639.NK1
Dimension	W*H*D	mm				50 x 315		
Weight		kg	54.5					
5	Power Supply	P/V/Hz	1 / 220-240 / 50 3 / 220 / 50 3 / 380-415 / 50				5 / 50	
Electric Heater	Capacity	kW	6	6		9	6	9
Leaving Water	Heating	°C			15	~ 55		
Temp Range	Cooling	°C			6	30		

		Capacity	12kW 1¢	14kW 1¢	16kW 1¢	12kW 3Φ	14kW 3Φ	16kW 3Φ
Split (Outdoor Unit)		Reference	HU121. U31	HU141. U31	HU161. U31	HU123. U31	HU143. U31	HU163. U31
	Heating (A7/W35)	kW	12.00	14.00	16.00	12.00	14.00	16.00
	Heating (A2/W50)	kW	8.50	9.78	11.03	8.55	9.83	11.30
Nominal Capacity	Heating (A-2/W50)	kW	7.94	9.14	10.30	7.99	9.18	10.50
	Heating (A-7/W35)	kW	11.48	13.11	14.80	11.66	12.72	14.92
	Cooling (A35/W18)	kW	14.50	15.50	16.10	14.60	15.50	16.80
	Heating (A7/W35)	kW	2.67	3.15	3.81	2.72	3.24	3.81
	Heating (A2/W50)	kW	3.41	4.00	4.60	3.49	4.07	4.73
Nominal Power Input	Heating (A-2/W50)	kW	3.30	3.95	4.63	3.40	4.00	4.63
	Heating (A-7/W35)	kW	4.16	4.85	5.61	4.31	4.98	5.95
	Cooling (A35/W18)	kW	4.00	4.69	5.07	4.02	4.65	5.09
	Heating (A7/W35)		4.49	4.44	4.20	4.41	4.32	4.20
	Heating (A2/W50)		2.49	2.45	2.40	2.45	2.42	2.39
COP	Heating (A-2/W50)		2.41	2.31	2.22	2.35	2.30	2.27
	Heating (A-7/W35)		2.76	2.70	2.64	2.71	2.55	2.51
ER	Cooling (A35/W18)		3.63	3.30	3.18	3.63	3.33	3.30
Dimension	W*H*D	mm		950 x 1,380 x 330				
Neight		kg	105					
Sound Pressure Level (Heating) dB(A)			53					
Outdoor Air	Heating	°CDB			-20	~ 30		
Deration Range	Cooling	°CDB	5~48					
	Pipe Diameter (Liquid)	mm(inch)	9.52 (3/8)					
	Pipe Diameter (Gas)	mm(inch)	15.88 (5/8)					
Refrigerant (R410a)	Pre-Charged Amount	Kg	2.85	2.85	2.85	2.98	2.98	2.98
<u> </u>	Chargeless Pipe Length	m	7.5	7.5	7.5	7.5	7.5	7.5
	Additional Charging Volume	g/m	60	60	60	60	60	60
	Minimum	m				3		
Ref. Pipe Length	Standard	m	7.5					
- F 5-	Maximum	m	50					
Power Supply		P/V/Hz	1/220-240/50 3/380-415/50					
Recommended Fuse		A		32			16	
		Capacity	12~16kW					
Split (Indoor Unit)		Reference			29.NK1 F	IN1636.NK1	HN1639.NK1	
Dimension	W*H*D	mm	490 x 850 x 315					
Neight		kg			54	4.5		
	Power Supply	P/V/Hz	1/220-240/50 3/220/50 3/380-415/50			5 / 50		
Electric Heater	Capacity	kW	6 6 9 6		9			
eaving Water	Heating	°C	15~55					
emp. Range	Cooling	°C	6~30					
Nater Flowrate Limit		LPM	Min. 15					
Max. Water Head		m	7					
Water Pipe Connection	Inlet	mm(inch)			Male P	T 25 (1)		
			Male PT 25 (1)					

* Combination Table

Outdoor Unit (1¢)	HU121.U31	HU141.U31	HU161.U31	Outdoor Unit (3¢)	HU123.U31	HU143.U31	HU163.U31
	12kW	14kW	16kW	Indoor Unit	12kW	14kW	16kW
	HN1616. NK1	HN1616. NK1	HN1616. NK1		HN1616. NK1	HN1616. NK1	HN1616. NK1
Indoor Unit	HN1626. NK1	HN1626. NK1	HN1626. NK1		HN1626. NK1	HN1626. NK1	HN1626. NK1
	HN1636. NK1	HN1636. NK1	HN1636. NK1		HN1636. NK1	HN1636. NK1	HN1636. NK1
	HN1629. NK1	HN1629. NK1	HN1629. NK1		HN1629. NK1	HN1629. NK1	HN1629. NK1
	HN1639. NK1	HN1639. NK1	HN1639. NK1		HN1639. NK1	HN1639. NK1	HN1639. NK1

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SPECIFICATION

HIGH TEMPERTURE TYPE



DOMESTIC HOT WATER TANK

Domestic Hot Water Tank – Double Coil

High Temp, Split (Outdoor Unit)		Capacity	NEW 16kW 10
		Reference	HU161H.U32
	Heating (A7/W65)	kW	16
Vominal	Heating (A2/W65)	kW	14.6
Capacity	Heating (A-2/W65)	kW	15.7
	Heating (A-7/W65)	kW	15.1
	Heating (A7/W65)	kW	6.13
Jominal	Heating (A2/W65)	kW	6.81
Power Input	Heating (A-2/W65)	kW	6.96
	Heating (A-7/W65)	kW	7.2
СОР	Heating (A7/W65)		2.61
	Heating (A2/W65)		2.14
	Heating (A-2/W65)		2.26
	Heating (A-7/W65)		2.10
Dimension	W*H*D	mm	950 x 1,380 x 330
Neight		Kg	105
Sound Pressure Level (Heating)		dB(A)	53
Dutdoor Air Dperation Range	Heating	°CDB	-15 ~ 35
	Pipe Diameter (Liquid)	mm(inch)	9.52 (3/8)
	Pipe Diameter (Gas)	mm(inch)	15.88 (5/8)
Refrigerant (R410a)	Pre-Charged Amount	Kg	3.5
	Chargeless Pipe Length	m	10
	Additional Charging Volume	G/m	60
	Minimum	m	5
Ref. Pipe Length	Standard	m	7.5
	Maximum	m	50
Power Supply		P/V/Hz	1 / 220-240 / 50
Recommended Fuse		А	25
ELT CIEV	1 11 15	Capacity	NEW 16kW 1¢
High Temp. Split (Indoor Unit)			—

High Temp. Split (Indoor Unit)				
		Reference	HN1610H.NK2	
Dimension	W*H*D	mm	520 x 1,080 x 330	
Weight		kg	94	
Sound Pressure Level (Heating)		dB(A)	43	
Nominal Power Input	Heating	kW	6.13	
Leaving Water Temp. Range	Heating	°C	25 ~ 80	
Water Flowrate Limit		LPM	Min. 15	
Refrigerant (R134a)	Pipe Diameter (Liquid)	mm(inch)	9.52 (3/8)	
	Pipe Diameter (Gas)	mm(inch)	15.88 (5/8)	
	Pre-Charged Amount	kg	2.3	
Water Dina Connection	Inlet	mm(inch)	Male PT 25 (1)	
Water Pipe Connection	Outlet	mm(inch)	Male PT 25 (1)	
Draining Pipe Connection		mm(inch)	Male PT 25 (1)	
Power Supply		P/V/Hz	1 / 220-240 / 50	
Recommended Fuse		A	25	

Domestic Hot Water Tank			LGRTV200VE	LGRTV300VE	
	Water Volume	L	198	287	
	Diameter	mm	580	580	
General Characteristics	Height	mm	1,230	1,680	
	Empty Weight	kg	50	64	
	Tank – Materials		Stainless Steel	Stainless Steel	
	Outer Skin – Materials		Paint Epoxy	Paint Epoxy	
	Color – White RAL		White NC	White NC	
Characteristics of Electrical Back-Up	Additional Electric Heater	kW	3	3	
	Adjustable Thermostat	°C	60 ~ 90	60 ~ 90	
	Exchanger Type		Double	Double	
Characteristics of	Material Exchanger		LDX 2101 – Stainless Steel	LDX 2101 – Stainless Steel	
Characteristics of Exchanger	Maximum Water Temperature	°C	80 (With an Heat Pump)	80 (With an Heat Pump)	
	Coil Surface	mm	0.94	0.94	
Hydraulic Connections	THERMA V Entry	mm	25	25	
– Heat Pump	THERMA V Exit	mm	25	25	
Hydraulic Connections – Domestic Hot Water Tank	City Water Entry	mm	22	22	
	Hot water Exit	mm	22	22	
Electric Connection	Supply	Φ/V/Hz	1¢ / 220-240V 50Hz	1¢ / 220-240V 50Hz	

MANDATORY OPTIONAL ACCESSORIES
Domestic Hot Water Tank Installation Kit

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