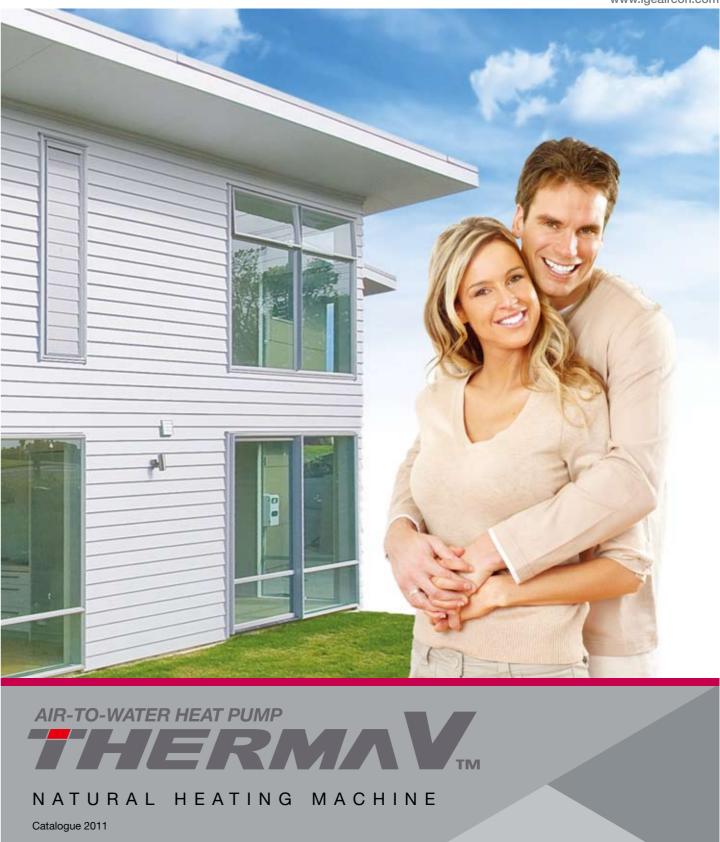




LG Electronics Air Conditioning & Energy Solution

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http://www.lgeaircon.com







LG Electronics'

Eco-friendly Technology

LG Electronics' environmental policy is centered on its "Life's Good When it's Green" program. The program is divided into two areas: pre-production and post-production. LG Electronics' goal is to reduce greenhouse gases in the pre- and post-production stages by 150,000 tons and 30,000,000 tons, respectively, by 2020. This reduction of greenhouse gases emitted during a product's life cycle (including raw materials used in production, product distribution, product usage, and product disposal) will be carried out in stages.

THERMA V LINE UP	04
• WHAT IS THERMA V?	06
-The Solution for New Housing and Renovation	
BENEFITS OF THERMA V	08
 Energy Performance Respecting the Environment Convenient Control Anti-Corrosion Gold Fin™ Easy Installation Constant Heating - V2 Injection 	
THERMA V SPLIT _ HYDROKIT (1Ø, 3Ø)	14
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THERMA V Split Type (R410A) _ 1Ø 230V / 3Ø 400V



THERMA V Split V2 Injection Type (R410A) _ 1Ø 230V / 3Ø 400V



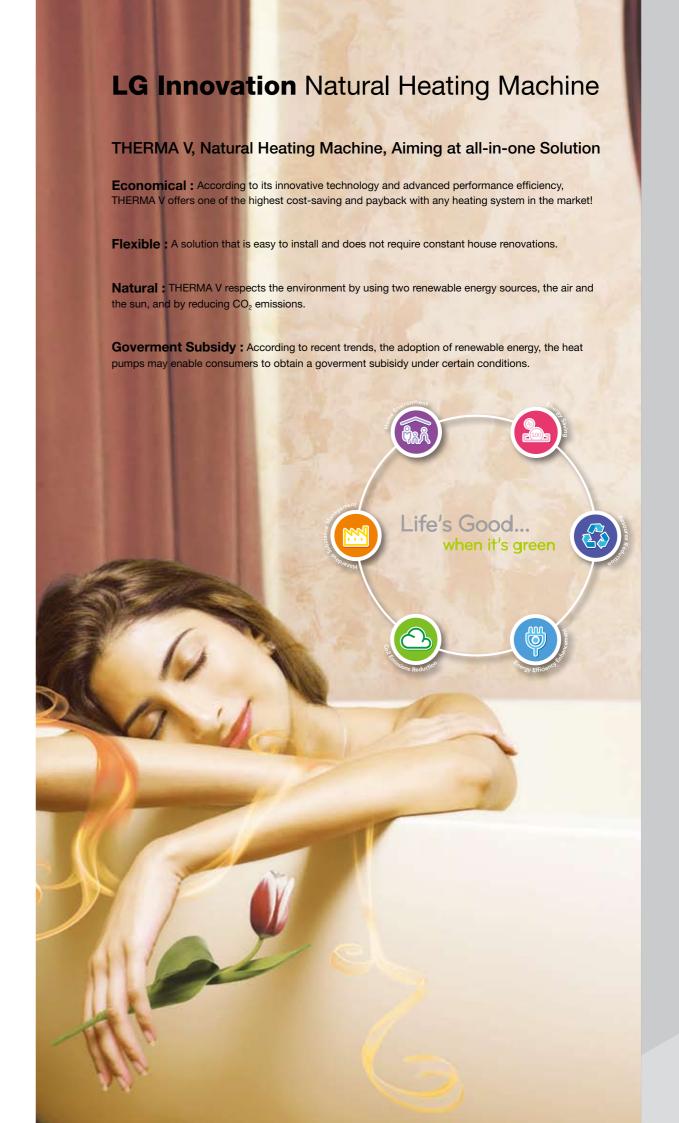
^{*} Split V2 Injection available from August in the market

THERMA V MONO Type (R407C) _ 1Ø 230V / 3Ø 400V

Capacity _ kW	10.0	12.0	14.0
MONO (R407C)		1ø / 3ø	

SANITARY TANK

Volume_Liter	Single Coil, 200 liter	Single Coil, 300 liter	Double Coil, 200 liter	Double Coil, 300 liter
Sanitary Water Tank			•	

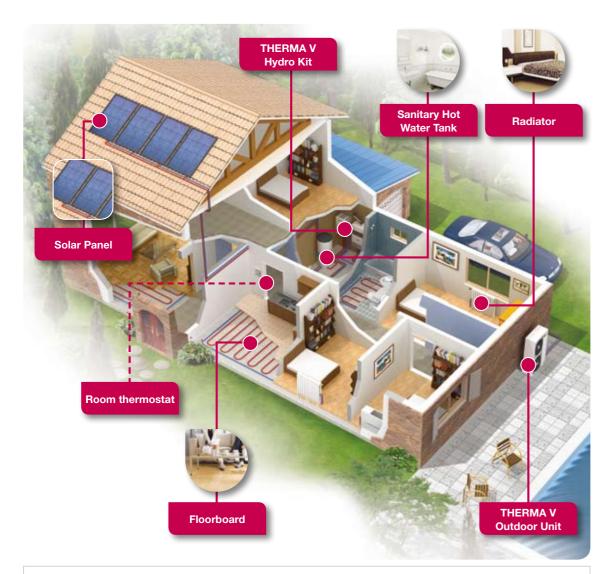




What is THERMA V?

The Solution for New Housing and Renovation

THERMA V was specially conceived to respond to the needs of the renovation market (to relieve or replace a boiler) and the new housing market. The product adapts perfectly to individual and collective residential applications. Moreover, this Air-to-Water heat pump makes up an eco-friendly product that uses two renewable energy sources – the air and the sun. Finally, it proves economics with coefficients of performances (COP) up to 4.5, among the most advanced on the market.



- Different heat transmitters :
- > Heating Floorboard
- > Radiators
- > Fan Coil Unit
- Optional Accessories :
- > Sanitary Hot Water Tank





A Natural Solution

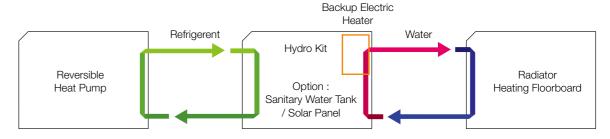
- Economical system with advanced coefficient of performances: COP = 4.5.
- Utilization of two renewable energies: Air and sun.
- Reduced CO2 emissions compared to gas or fuel heating.

A Flexible Solution

Monovalent operation

A compact technology, THERMA V is capable of responding to all of your daily comfort & energy needs. In addition, if the outdoor temperature decreases below the seasonal temperature, a backup electric heater will come to guarantee your optimal well-being.

Application: Replacing Coventional Boiler



• Alternative Bivalent Operation :

THERMA V heat pump can also be integrated in the installation of existing boiler(gas or fuel). Boiler takes over space heating and sanitary hot water, in case of severe low ambient temperature.

Application: Using Existing Boiler



• Simplicity of Installation:

THERMA V includes a compact outdoor unit, plus an indoor unit that is easy to install. Only one refrigerating link is required to connect the two elements.

LG Air Conditioners 2011 06

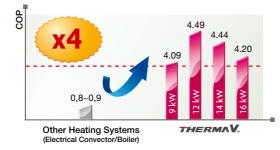


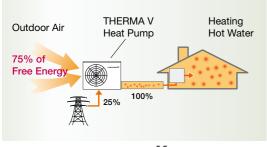
Benefits of THERMA V

Energy Performance

Advanced Coefficients of Performance (COP) for More Energy Saving

As generating free energy from outdoor air even in low temperature, THERMA V makes it possible to heat efficiently. With Inverter Technology of LGE, THERMA V can make higher efficiency level up to the range of 4.1 to 4.5. In other words, consuming 1kW of electric energy of an electrical network enables more than 4kW of heating energy.





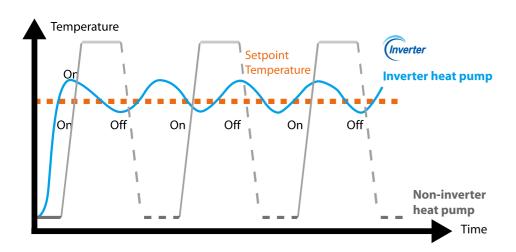
Fuel/Gas Boiler
CO2 NO
Fuel/Gas Boiler
Lectrical Convector
100%

THERMAV. Other Heating Systems (Electrical Convector/Boiler)

Inverter regulation, for more serenity



Once the desired temperature is achieved, unlike conventional air to water heat pump that turns the compressor on and off, LG inverter units adjust and constantly vary the compressor speed to maintain the desired temperature with minimal fluctuation to ensure that your comfort is not compromised.



Respecting the Environment

Reducing Co₂ Emissions

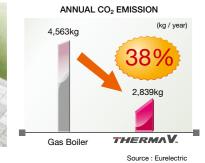
The THERMA V solution by LG adopts two renewable energies, the air and the sun.

This eco-friendly system will decrease CO2 emissions from heating systems on fossil energies such as gas and fuel.



Solar Panels







LG Air Conditioners 2011 08 / 09



Benefits of THERMA V

Convenient Control

Control of Energy Installation

- Control of the generation of heating, sanitary hot water, solar panels
- Control of weekly scheduling
- Control of operating modes
- Control of the water temperature
- Control of heating emergency operation



Heating Emergency Operation

Heating is essential during winter. THERMA V is equipped with an emergency operation that allows the maintenance of heating in case of possible failure.

The heating security mode consist of two levels the indoor:

- Level 1: When indoor unit malfunctions, the outdoor unit operates under a pre-defined emergency operation mode.
- Level 2: When outdoor unit malfunctions, electronic heater of the indoor unit operates under a pre-defined emergency operation mode.



Anti-Corrosion Gold Fin™

The exchangers of our outdoor unit are treated against corrosion and pollution. This treatment guarantees the durability of the systems and high-level performance.



> Salt Spray Test for 15 Days







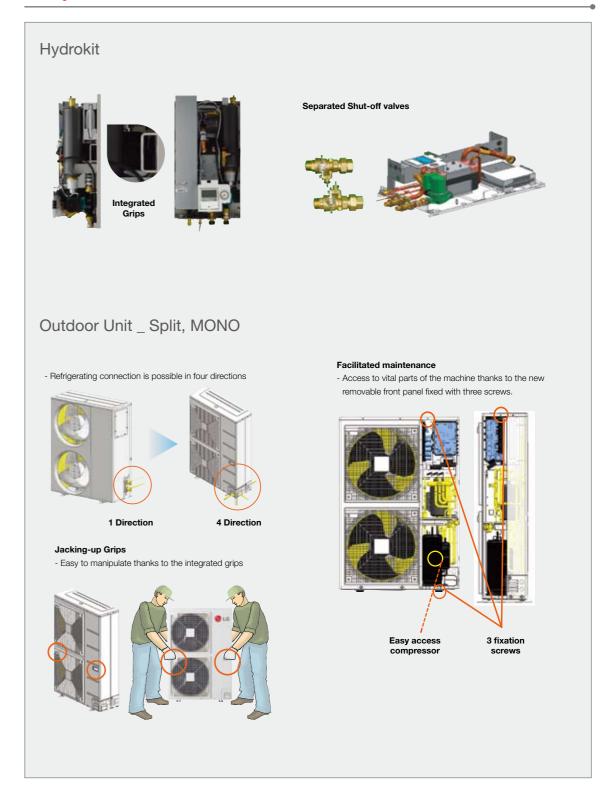
After 15 days

Conventional Starting to Corrode

Uncoated

Alumium

Easy Installation



LG Air Conditioners 2011

Benefits of THERMA V

V2 Injection technology-adopted THERMA V Split offers you most comfortable atmosphere in extreme cold weather condition by providing 100% heating performance at -15°C without an auxiliary heater or boiler. Therefore, it saves users electricity cost greatly (Peak data result with heating steady-state without defrost effect at the test condition of A*/W35)

100% performance at -15°C without electric heaters

A Compelling Reason to Use LG V2 Injection 100% stable & constant heating down to -15°C (Therma V provides 100% comfort at any outside condition even down to -15°C without an auxiliary heater)

V2 injection

70% heating performance at -20°C

Save electricity consumption and save electricity bill

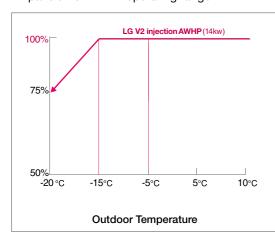
Eco-friendliness

Inverter technology offers
Ultimate comfortable environment

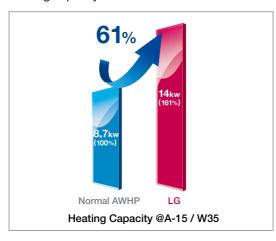
Constant Heating - V2 Injection Technology

Effects of V2 Injection compressor

Expansion of AWHP operating range

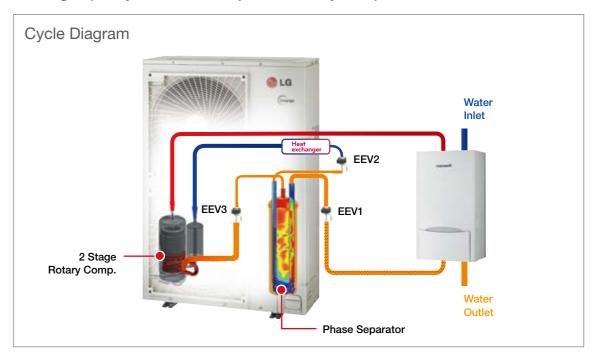


Heating capacity increase



Split V2 Injection - Logic

Heating capacity Increase V2 Injection Rotary compressor



LG go through a real field test in Finland to secure reliability at the severe low temperature.



LG Air Conditioners 2011 12 / 13





THERMA V SPLIT Hydrokit



Specifications

Hydrokit _ I	ndoor Unit		*HN0916.	*HN0926.	*HN0936.	HN0914.	HN1616.	HN1626.	HN1636.	*HN1629.	HN1639.
Combined Ou		HU121.u31 - 1ø 230V HUV121 HU161.u31 - 1ø 230V HUV141 HU161.u31 - 1ø 230V HUV123 HU123.u31 - 3ø 400V HUV123			V121.U31 - V141.U31 - V123.U31 - V143.U31 -	1ø 230V 1ø 230V 3ø 400V					
Electric	Power Supply	ø/V/Hz	1ø/220-240V/50Hz	3ø/220V/50Hz	3ø/380-415V/50Hz	1ø/220-240V/50Hz	1ø/220~240V/50Hz	3ø/220V/50Hz	3ø/380-415V/50Hz	3ø/220V/50Hz	3ø/380-415V/50Hz
Heater	Capacity	kW		6		4		6			9
Dimension		W*H*D		490*8	50*313		490*850*313				
Weight		kg		5	52		55				
Noise Level at 1	meter	dB(A)		2	28		28				
Leaving Water	Heating	°C		15	~55		15~55				
Temperature	Cooling	°C		6~30			6~30				
Water Pump	Max. Power Input	Watt	135			205					
Max. Head		meter		6.4			7				
Expansion Tank		liter			8				8		

^{*} Available from June of 2011

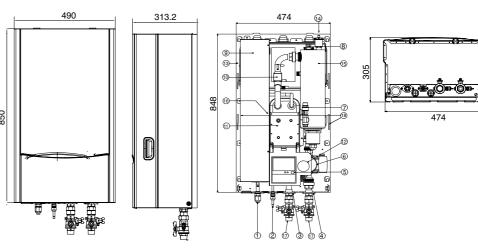
HYDROKIT











N°	ITEM
1	Refrigerating Pipe - Gas
2	Refrigerating Pipe - Liquid
3	Water Connection – Entry – 1 inch
4	Water Connection – Exit – 1 inch
5	Control Panel
6	Water Pump
7	Discharge Gate – Open when pressed > 3 bars
8	Thermostat
9	Control Box
10	Water Flow Switch

N°	ITEM
11	Plate Heat Exchanger
12	Hydraulic Pressure Manometer
13	Expansion Vasel
14	Air-vent
15	Electric Heater
16	Strainer
17	Shut-off Valve
18	Grip

Separated Shut-off valves





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Outdoor Unit (1ø 230V) Maximum 55°C Water Temperature







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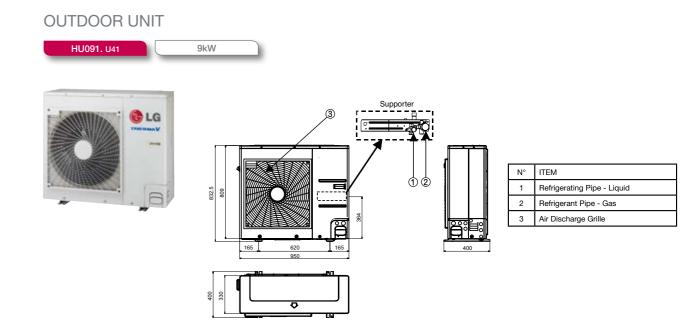
THERMA V SPLIT _ 1ø



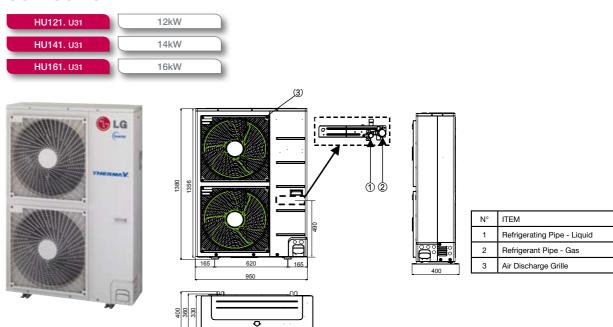


Specifications

Outdoor Un	it		HU091. U41	HU121. U31	HU141. U31	HU161. U31	
Combined Hy	drokit		HN0916. NK1 HN0926. NK1 HN0936. NK1 HN0914. NK1		HN1616. NK1 HN1626. NK1 HN1636. NK1 HN1629. NK1 HN1639. NK1		
Power Supply		ø/ V / Hz		1ø / 220-240V / 50Hz			
Nominal	Heating(A10/W35)	kW	9.71	13.32	14.94	16.93	
Capacity	Heating(A7/W35)	kW	9	12	14	16	
-	Heating(A2/W35)	kW	6.87	9.4	10.69	11.9	
	Heating(A-7/W35)	kW	8.61	11.48	13.11	14.8	
	Cooling(A35/W18)	kW	9.00	14.00	14.00	14.00	
Nominal Input	Heating(A10/W35)	kW	2.2	2.99	3.39	3.87	
	Heating(A7/W35)	kW	2.2	2.67	3.15	3.81	
	Heating(A2/W35)	kW	2.07	2.8	3.22	3.62	
	Heating(A-7/W35)	kW	3.19	4.16	4.85	5.61	
	Cooling(A35/W18)	kW	2.65	4.40	4.40	4.40	
COP	Heating(A10/W35)	W/W	4.41	4.45	4.41	4.37	
	Heating(A7/W35)	W/W	4.09	4.49	4.44	4.20	
	Heating(A2/W35)	W/W	3.32	3.36	3.32	3.29	
	Heating(A-7/W35)	W/W	2.70	2.76	2.70	2.64	
EER	Cooling(A35/W18)	W/W	3.40	3.18	3.18	3.18	
Sound	Heating	dBA	52		53		
oressure level	Cooling	dBA	52		54		
Dimension		W*H*D	950*834*330		950*1,380*330		
Neight		kg	64		105		
Refrigerant	Pre-charged amount	g	1,90		2,980		
(R410A)	Pipe Diameter(Liquid/G	as) inch		3/8.	5/8		







Outdoor Unit (3ø 400V) Maximum 55°C WaterTemperature





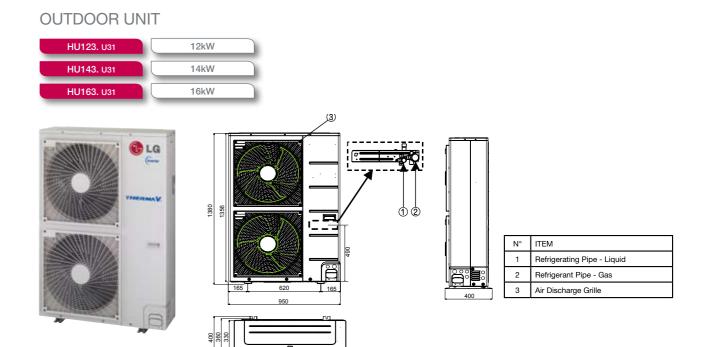


THERMA V SPLIT _ 3ø



Specifications

Outdoor Uni	it		HU123. U31	HU143. ป31	HU163. U31	
Combined Hyl	drokit			HN1616. NK1 HN1626. NK1 HN1636. NK1 HN1629. NK1 HN1639. NK1		
Power Supply		ø/ V / Hz		3ø / 380-415V / 50Hz		
Nominal	Heating(A10/W35)	kW	13.25	15.06	17.34	
Capacity	Heating(A7/W35)	kW	12	14	16	
	Heating(A2/W35)	kW	9.46	10.89	12.22	
	Heating(A-7/W35)	kW	11.66	12.72	14.92	
	Cooling(A35/W18)	kW	14.60	15.50	16.80	
Nominal Input	Heating(A10/W35)	kW	3.02	3.49	4.1	
	Heating(A7/W35)	kW	2.72	3.24	3.81	
	Heating(A2/W35)	kW	2.83	3.28	3.82	
	Heating(A-7/W35)	kW	4.31	4.98	5.95	
	Cooling(A35/W18)	kW	4.02	4.65	5.09	
COP	Heating(A10/W35)	W/W	4.39	4.32	4.23	
	Heating(A7/W35)	W/W	4.41	4.32	4.20	
	Heating(A2/W35)	W/W	3.34	3.32	3.20	
	Heating(A-7/W35)	W/W	2.71	2.55	2.51	
EER	Cooling(A35/W18)	W/W	3.63	3.33	3.30	
Sound	Heating	dBA		53		
oressure level	Cooling	dBA	54			
Dimension		W*H*D		950*1,380*330		
Weight		kg		105		
Refrigerant	Pre-charged amont	g		2,980		
(R410A)	Pipe Diameter(Liquid/0	Gas) inch		3/8, 5/8		







THERMA V **V2 Injection** 1ø, 3ø



Specifications

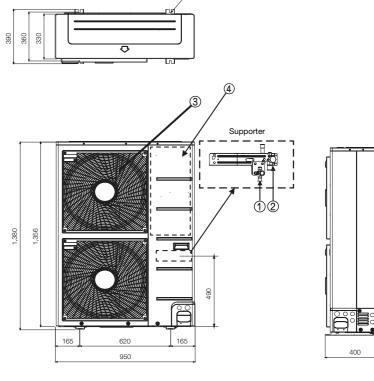
Outdoor Unit			HUV121. U31 (*)	HUV141. U31	HUV123. U31	HUV143. U31
Combined Hyd	rokit			HN162 HN163 HN162	16.NK1 26.NK1 36.NK1 29.NK1 39.NK1	
Power Supply		ø/ V / Hz	1ø/220-2	40V / 50Hz	3ø / 380-4	15V / 50Hz
Nominal Capacity	Heating(A10/W35)	kW	13.10	14.69	13.10	14.69
-	Heating(A7/W35)	kW	12.00	14.00	12.00	14.00
-	Heating(A2/W35)	kW	9.85	11.05	9.85	11.05
_	Heating(A-2/W35)	kW	12.11	13.58	12.11	13.58
	Cooling(A35/W18)	kW	12.00	14.00	12.00	14.00
Nominal Input	Heating(A10/W35)	kW	3.05	3.34	3.05	3.34
	Heating(A7/W35)	kW	2.82	3.32	2.82	3.32
_	Heating(A2/W35)	kW	3.14	3.44	3.14	3.44
_	Heating(A-2/W35)	kW	5.16	5.71	5.16	5.71
	Cooling(A35/W18)	kW	3.33	3.88	3.33	3.88
COP	Heating(A10/W35)	W/W	4.30	4.40	4.30	4.40
	Heating(A7/W35)	W/W	4.26	4.22	4.26	4.22
	Heating(A2/W35)	W/W	3.14	3.21	3.14	3.21
	Heating(A-2/W35)	W/W	2.35	2.38	2.35	2.38
EER	Cooling(A35/W18)	W/W	3.60	3.61	3.60	3.61
Peak Data	Heating Capacity	kW	12.28	13.78	12.28	13.78
at A-15/W35 (**)	COP	W/W	2.32	2.35	2.32	2.35
Sound	Heating	dBA		Ę	54	
pressure level	Cooling	dBA		ţ	53	
Dimension		W*H*D		950*1,	380*330	
Weight(Net)		kg		1	05	
Refrigerant	Pre-charged amont	g		3,	400	
(R410A)	Pipe Diameter(Liquid/	Gas) incl		(3/8))/(5/8)	

^{(*):} Specification will be fixed when this model is completely developed (**): Heating steady-state performance without defrost effect

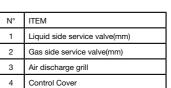
OUTDOOR UNIT

HUV121. U31	12kW
HUV141. U31	14kW
HUV123. U31	12kW
HUV143. U31	14kW





4-holes for anchor bolts









THERMA V MONO _ 1ø



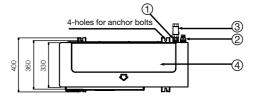
Specifications

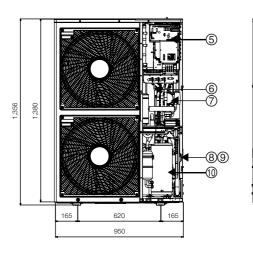
Outdoor Uni	t		HM091M. U31	HM121M. U31	HM141M. U31
Power Supply		ø/ V / Hz		1ø / 220-240V / 50Hz	
Nominal	Heating(A10/W35)	kW	10.58	12.7	14.68
Capacity	Heating(A7/W35)	kW	10	12	14
	Heating(A2/W35)	kW	5.67	6.83	8.57
	Heating(A-7/W35)	kW	7.40	9.0	11.05
	Cooling(A35/W18)	kW	10.00	12.00	14.00
Nominal Input	Heating(A10/W35)	kW	2.39	2.91	3.43
	Heating(A7/W35)	kW	2.35	2.86	3.38
	Heating(A2/W35)	kW	2.19	2.57	2.99
-	Heating(A-7/W35)	kW	3.02	3.62	4.23
	Cooling(A35/W18)	kW	2.74	3.33	4.01
COP	Heating(A10/W35)	W/W	4.43	4.36	4.28
	Heating(A7/W35)	W/W	4.26	4.20	4.14
	Heating(A2/W35)	W/W	2.59	2.66	2.87
	Heating(A-7/W35)	W/W	2.45	2.49	2.61
EER	Cooling(A35/W18)	W/W	3.65	3.60	3.49
Sound	Heating	dBA	53	53	54
pressure level	Cooling	dBA	53	53	54
Dimension		W*H*D		950*1,380*330	
Weight		kg		131	
Refrigerant(R4070) Pre-charged amount	g		3,550	
Leaving Water	Heating	°C		20~65	
Temperature	Cooling	°C		6~25	
Water Pump	Maximum Power Inpu	ıt W		205	
	Maximum Head	m		7	
	Minimum Water Flow Ra	ate LPM		12	

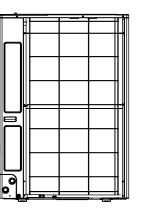
OUTDOOR UNIT

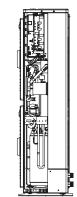












N°	ITEM
1	Energy Water Pipe
2	Leaving Water Pipe
3	Strainer
4	Top Cover
5	Control Box
6	Plate Heat Exchanger
7	Water Pump
8	Pressure Gage
9	Safety Valve
10	Compressor







THERMA V MONO _ 3ø



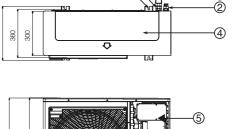
Specifications

Outdoor Unit			HM103M. U31	HM123M. U31	HM143M. U31
Power Supply		ø/ V / Hz		3ø / 380-415V / 50Hz	1
Nominal	Heating(A10/W35)	kW	10.79	12.70	14.81
Capacity	Heating(A7/W35)	kW	10.00	12.00	14.00
	Heating(A2/W35)	kW	7.36	8.04	8.45
	Heating(A-7/W35)	kW	9.29	10.83	11.65
Nominal Input	Heating(A10/W35)	kW	2.45	2.90	3.40
	Heating(A7/W35)	kW	2.35	2.86	3.38
	Heating(A2/W35)	kW	2.59	2.83	3.06
	Heating(A-7/W35)	kW	3.37	4.01	4.42
COP	Heating(A10/W35)	W/W	4.40	4.38	4.36
	Heating(A7/W35)	W/W	4.26	4.20	4.14
	Heating(A2/W35)	W/W	2.84	2.84	2.76
	Heating(A-7/W35)	W/W	2.76	2.70	2.64
Sound pressure level	Heating	dBA	53	53	53
Dimension		W*H*D	·	950*1,380*330	
Weight		kg		128	
Refrigerant(R4070	C)	g		3,550	
Leaving Water Temperature	Heating	°C		20~65	

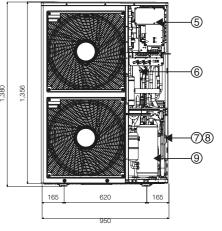
OUTDOOR UNIT

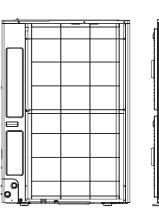






4-holes for anchor bolts





Ν°	ITEM			
1	Energy Water Pipe			
2	Leaving Water Pipe			
3	Strainer			
4	Top Cover			
5	Control Box			
6	Plate Heat Exchanger			
7	Pressure Gauge			
8	Safety Valve			
9	Compressor			

An Indoor Box for MONOBLOC 3ø

THERMA V **Indoor Box**

The indoor box contains an electric backup heater and a water pump.

The traditional MONOBLOC includes an electrical back-up heater and a water pump in the outside unit but LG's '3-phase' MONOBLOC puts the water pump in the indoor box so that it keeps the water pump from being frozen as it is installed inside the building separately.

It also generate additional heat energy with an electrical back-up Heater.

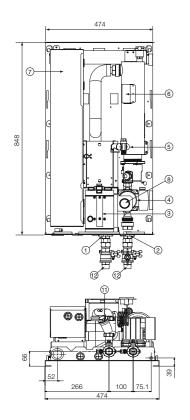


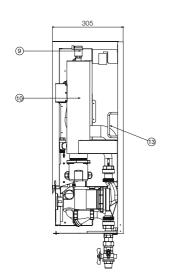


Specifications

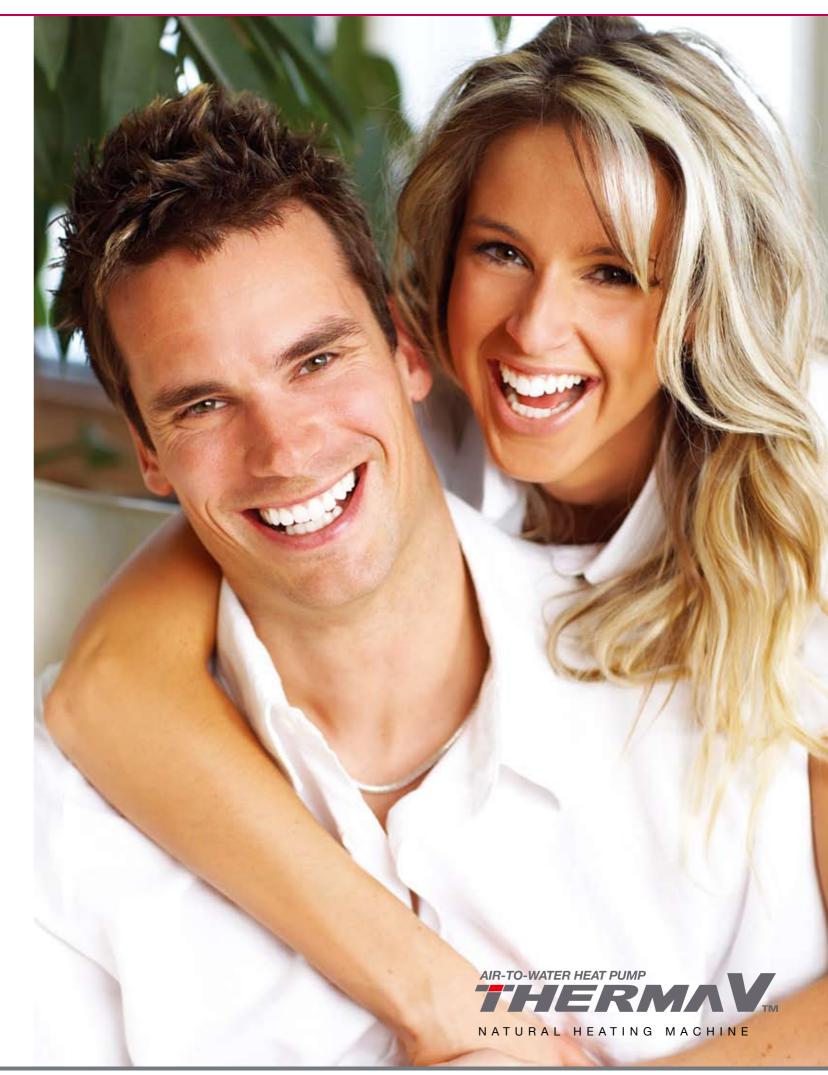
Outdoor Unit			CHN1426. NK1	CHN1436. NK1	CHN1429. NK1	CHN1429. NK1	
Electric Heater	Power Supply	ø/V/Hz	3ø / 220V / 50Hz	3ø / 380-415V / 50Hz	3ø / 220V / 50Hz	3ø / 380-415V / 50Hz	
	Capacity	Kw	6	6	9	9	
Water Pump	Maximum Power Inp	put W	205	205	205	205	
	Maximum Head	m	7	7	7	7	
	Minimum Water Flor	w RateLPM	15	15	15	15	
Dimension		W*H*D	490*850*315	490*850*315	490*850*315	490*850*315	
Weight		kg	38	38	38	38	
Water Connection	ns Entry / Leaving	mm	25 / 25	25 / 25	25 / 25	25 / 25	
Safety Valve	Relief Pressure	Bar	3	3	3	3	

INDOOR BOX





N°	ITEM		
1	Energy Water Pipe		
2	Leaving Water Pipe		
3	Control Panel		
4	Water Pump		
5	Safety Valve		
6	Thermal Switch		
7	Control Box		
8	Pressure Gage		
9	Air Vent		
10	Electronic Heater		
11	Strainer		
12	Shut-off Valve		
13	Carrying Handle		









SANITARY WATER TANK - SINGLE COIL

SANITARY WATER TANK	LGRTV200VE	LGRTV300VE	
GENERAL CHARACTERISTICS			ı
Water Volume	L	198	287
Diameter	mm	580	580
Height	mm	1230	1680
Empty Weight	kg	45	59
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
CHARACTERISTICS OF EXCHANGER			
Exchanger Type		Single	Single
Material Exchanger		LDX 2101 - Stainless steel	LDX 2101 - Stainless steel
Maximum Water Temperature	°C	80	80
HYDRAULIC CONNECTIONS - HEAT PUMP			
THERMA V Entry	mm	25	25
THERMA V Exit	mm	25	25
HYDRAULIC CONNECTIONS - SANITARY WATER			
City Water Entry	mm	22	22
Hot water Exit	mm	22	22
ELECTRIC CONNECTION			
Supply	ø/V/Hz	1ø/220-240V 50Hz	1ø/220-240V 50Hz
MANDATORY OPTIONAL ACCESSORIES			
Sanitary Tank Installation Kit		PHLTA	PHLTA

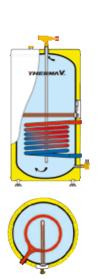
SANITARY WATER TANK - DOUBLE COIL

SANITARY WATER TANK	LGRTV200E	LGRTV300E	
GENERAL CHARACTERISTICS			
Water Volume	L	198	287
Diameter	mm	580	580
Height	mm	1230	1680
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
CHARACTERISTICS OF EXCHANGER			
Exchanger Type		Double	Double
Material Exchanger		LDX 2101 - Stainless steel	LDX 2101 - Stainless steel
Maximum Water Temperature	°C	80 (With an Heat Pump)	80 (With an Heat Pump)
HYDRAULIC CONNECTIONS - HEAT PUMP			
THERMA V Entry	mm	25	25
THERMA V Exit	mm	25	25
HYDRAULIC CONNECTIONS - SANITARY WATER			
City Water Entry	mm	22	22
Hot water Exit	mm	22	22
ELECTRIC CONNECTION			
Supply	ø/V/Hz	1ø/220-240V 50Hz	1ø/220-240V 50Hz
MANDATORY OPTIONAL ACCESSORIES			
anitary Tank Installation Kit		PHLTA	PHLTA

SANITARY WATER TANK - SINGLE COIL







SANITARY WATER TANK - DOUBLE COIL







SOLAR PANELS FOR DOUBLE COIL TANK

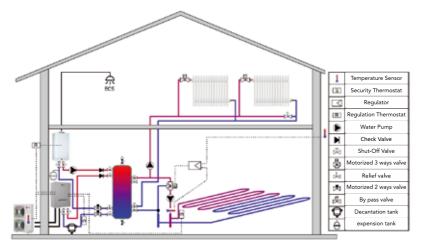
For better performance and energy saving, it is possible to combine the THERMA V heat pump with solar panels.



Flexible Application

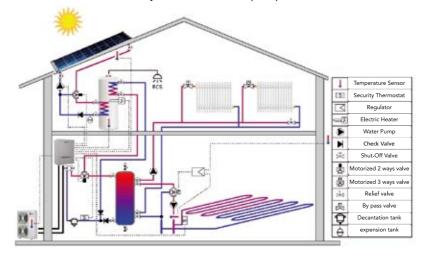
Application for New Housing 1

- > Monovalent operation mode
- > Functions :
- Heating Floorboard Low Temperature Radiators
- Generation of Sanitary Hot Water: Heat pump + Additional Electric Tank



Application for New Housing 2

- > Monovalent operation mode
- > Functions :
- Heating Floorboard Low Temperature Radiators
- Generation of Sanitary Hot Water: Heat pump + Additional Electric Tank + Solar Panels

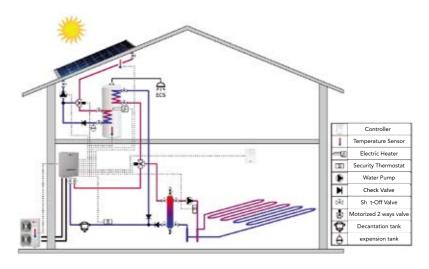


Warning

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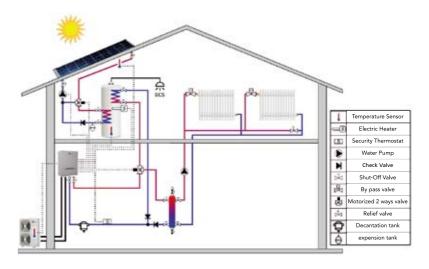
Application for New Housing 3

- > Monovalent operation mode
- > Functions :
- Heating Floorboard



Application for New Housing 4

- > Monovalent operation mode
- > Functions :
- Low Temperature Radiators



Warning:

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