



MONOBLOC (LOW TEMPERATURE) SPLIT (LOW TEMPERATURE) SPLIT (HIGH TEMPERATURE) DOMESTIC HOT WATER TANK

SPLIT (DHW TANK INTEGRATED) ACCESSORIES





THERMA V WHAT IS THERMA V

What is LG THERMA V?

THERMA V is LG's Air to Water Heat Pump system, especially designed for new and renovated housings. It is an in-house design by LG's advanced heating technology consuming less energy.

THERMA V can be used as a multi-purpose heating Solution ranging from floor heating to hot water supply using various 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 the traditional 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.

Model selection screen





Heat load & heat pump capacity



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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 ensured.



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 provide equivalent water heating to a boiler of up to 80°C.



Reliable Application

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



LINE-UP

THERMA V





D	1Φ	1Φ	3Φ	3Φ	3Φ
2	14	16	12	14	16
) 5T.NBO	HN1616T.NB0	HN1616T.NB0	HN1616T.NB0	HN1616T.NB0	HN1616T.NB0
) I.U33	● HU141.U33	● HU161.U33	● HU123.U33	● HU143U33	● HU163.U33
		HN1610H.NK2			
		• НU161Н.U32			

THERMA V **LG THERMA V**



Why LG THERMA V?

The LG THERMA V is designed to provide reasonable benefits such as like energy saving, comforts, easy controls and services

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 a low temperature and

Additionally, the amalgamated model where all-in-one features are combined such as gold-fin and users-oriented functions. This has resulted in boosting professional reputation and enhancing end-user's experience in the form of LG's full line-up

THERMA V KEY FEATURES **ENERGY EFFICIENCY**

BLDC (Brushless Direct Current Motor) Compressor

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.

- Minimized oil circulation
- High efficiency motor
- Optimized compression
- Optimized vibration, noise
- High reliability





LG

Distributed Winding

Conventional





Power input saving by High efficient A-Class water pump



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

Only THERMA V Monobloc applied



5/7/9kW



12 / 14 / 16 kW

Energy Efficiency at -2°C



C Company

D Company



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



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.





Reliability at Low Temperature

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





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 exhibits pre-eminent heat transfer properties of the coil for a lengthy period, whereas non-Gold Fin™ coils progressively lose efficiency due to surface corrosion. Gold Fin[™] fin is extremely suitable for areas affected by high pollution and areas exposed to salt water breeze.

Composition of Fin Screens



• Heating Capacity at Low Temperature



Stable Operation

High and stable heating performance a low temperatures.



Anti-Legionella Function

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





Seasonal Auto Mode

In this mode, the target temperature will vary according to the outdoor temperature automatically. This mode adds the cooling season function to the conventional weather dependent operation mode.





Improved Fan for Low Noise

The New Axial Fan has a narrow hub blade and mogul trailing edge, this provides a high efficiency, low noise as well as improving the air flow rate.



Emergency Operation

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



Silent Mode & Scheduler

Silent mode operation can reduce the noise level by remote controller and users can set the weekly On / Off schedule too.

Heating Capacity	Heating Sound 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					

Noise Level





EASY INSTALLATION & SERVICE

All in One Concept

LG will provide fully packaged monobloc with 4 main component. (except 3kW monobloc) basically. No need to work refrigerant piping, easier and quicker installation.





Electric Heater



Expansion . Tank

A-Class Water Pump

• 3-Way charging pipe (Split type only)

Refrigerating connection is possible in three directions.



• Compact design & Ez SVC

- Remove 3 pieces of screw for SVC - Front panel removal system



Compact & Slim

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

SPLIT TYPE (16kW)



MONOBLOC TYPE (3kW)





Quick Defrosting

Through R134A compressor controlling technology, necessary time for defrost operation has been minimized effectively. (LG Patent)

R410A Comp

As compared to normal reverse cycle defrost, 25% reduction in defrost time, and 10% increase of integrated heating capacity is achieved using hybrid defrosting. Outdoor Unit (Reverse Cycle) Hydro-Kit (Hot Gas Bypass) R134a-Wate R410A-R134a Air-R410A HEX HEX HEX Cold Wate \otimes X ot Gas Hot Wate



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.



Pres

Higher Energy Efficiency

R134a Comp

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



A-7/W55

A-7/W65

Heating COP at -7°C Outdoor Temperature



Cascade 2 Stage Compression Technology

Max. 80°C hot water can be generated through Cascade R410A to R134a BLDC compressor technology and is applicable for existing old boiler heating system which demands hot water supply.

Low Noise Level

Through cutting edge technology for DC inverter compressor, operating noise level of indoor & outdoor unit has been reduced and serves more comfort.

1.00

0.50

0.00

A-7/W45



Low Maximum Current Level

LG High Temperature THERMA V can be easily installed without any incurring any additional costs to the electric connections.



High temperature through Cascade cycle technology





DHW TANK INTEGRATED



THERMA V KEY FEATURES **SPLIT DHW TANK INTEGRATED**

Save space & Save time

Compared with conventional system, easy & quick installation is possible and smaller spaces are required for installation.



2nd Heating Circuit

AWHP

Possible heating individually through separate heating circuits with a controller and a mixing valve.



Controller for convenient control

Easy & convenient setting room temperature!









Option controller installed

It is not required to move it once it has been set up in your room.



Room controller Thermostat without display Basic settings of room temperature

HEATING

THERMA V SPECIFICATION

SPLIT DHW TANK INTEGRATED

HN1616T.NBO

HN1616T.NBO / HU091.U43, HU121.U33, HU141.U33, HU161.U33

		Capacity	16kW 1/3Ø					
SPLIT (INL	JOOR UNIT)		Reference	HN1616T.NB0				
Dimensions	WxHxD		mm	607 x 2,079 x 25				
Weight				228				
				200				
				40				
				95				
DHW Tank	Maximum water press			10				
		Material		Polyurethane foam				
		Thickness		50				
			kWh	1.67				
				40				
Buffer Tank				Steel powder coated				
	Insulation Material			Closed cell foamed rubber				
				Yonos PARA RS25/7 PWM1				
	Motor type			BLDC				
				Variable speed 13% to 100%				
Water Pump	Power Input			3~45				
		Min.		16				
	VValer Flow Rale			40				
	Pressure drop			70				
	Туре			Brazed Plate HEX				
11	Quantity			1				
Heat Exchanger				3.3				
(Water Side)	Water Flow Rate (Mir			13~70				
				Closed cell foamed rubber				
Safety Valve				3				
	Definement Circuit	Gas (Outer Dia.)	mm(inch)	Ø 15.88 (5/8)				
	Reingerant Circuit	Liquid (Outer Dia.)	mm(inch)	Ø 9.52 (3/8)				
		Inlet (Inner Dia.)	mm(inch)	Male PT 25 (1)				
Pining Connection	vvaler Circuit	Outlet (Inner Dia.)	mm(inch)	Male PT 25 (1)				
riping connection		Cold Inlet (Outer Dia.)	mm(inch)	Male PT 19.05 (3/4)				
	DU/M/Taple/M/ator Circu	Hot Outlet (Outer Dia.)	mm(inch)	Male PT 25 (1)				
		Recirculation (Outer Dia.)		Male PT 19.05 (3/4)				
				25-58				
Operation Range	Cooling	Water side Min.~Max.		7~25				
	Domestic hot water	Water side Min.~Max.	°C	25~52 (60*)				
Sound Power Level				36				

				Capacity	9kW 1Ø	12kW 1Ø	14kW 1Ø	16kW 1Ø	12kW 3Ø	14kW 3Ø	16kW 3Ø
	SPLIT (UUTDOOK	,		Reference	HU091.U43	HU121.U33	HU141.U33	HU161.U33	HU123.U33	HU143.U33	HU163.U33
	Heating (A7 / W35)		kW	9	12	14	16	12	14	16
ominal Capacity	Cooling (A35 / W1				9	10.4	11	12	10.4	11	12
ominal Dowor Input	Heating (A7 / W35				2.23	2.78	3.43	4.18	2.78	3.43	4.18
omma Power mput	Cooling (A35 / W1				2.88	3.3	3.53	4	3.3	3.53	4
OP	Heating (A7 / W35				4.04	4.32	4.08	3.83	4.32	4.08	3.83
ER	Cooling (A35 / W1				3.12	3.15	3.12	3	3.15	3.12	3
			SCOP		2.88	3	3	3	3	3	3
	Average climate water outlet 55°C		ηs (Seasonal space heating efficiency)	%	112	117	117	117	117	117	117
pace heating			Seasonal space heating eff. Class		A+	A+	A+	A+	A+	A+	A+
pacencating			SCOP		4.04	4.2	4.15	4.15	4.2	4.15	4.15
	Average climate water outlet 35°C		ηs (Seasonal space heating efficiency)		159	165	163	163	165	163	163
			Seasonal space heating eff. Class		A++	A++	A++	A++	A++	A++	A++
		Declared l			XL	XL	XL	XL	XL	XL	XL
omestic		ηwh (wate	r heating efficiency)		98	89	89	89	89	89	89
ot Water Heating	Average climate		iting iciency class		А	А	А	А	А	А	А
Unit W x H x D Shipping W x H x D				834x950x330			1,380 x 9	50 x 330			
				900x1,140x461			1,462 x 1,1	140 x 461			
Net				59	94	94	94	94	94	94	
leight	Groos				65	107	107	107	107	107	107
	Heating	Min. ~ Ma:			-20 ~ 35	-20~35	-20~35	-20 ~ 35	-20 ~ 35	-20~35	-20 ~ 35
peration Range	Cooling Min. ~ Max.			5~48	5~48	5~48	5~48	5~48	5~48	5~48	
	Domestic hot water Min. ~ Max.		°C	-20 ~ 30	-20 ~ 30	-20 ~ 30	-20 ~ 30	-20~30	-20 ~ 30	-20 ~ 30	
	Туре				R410a				R410a		
	GWP					2,08	7.50			2,087.50	
efrigerant	Charge			TCO ₂ eq	3.76	4.8	4.8	4.8		4.8	
					1.8	2.3	2.3	2.3		2.3	
	Chargeless-Pipe Le					7.	.5			7.5	
	Additional Charging			g/m		4	0			40	
ound Power Level	Heating			dBA	65	66	66	66		66	
		Туре				Fla	are			Flare	
iping Connections		Outer Dia.		mm (inch)		Ø 9.5.	2(3/8)			Ø 9.52(3/8)	
		lype				Fla	are			Flare	
		Outer Dia.		mm (inch)		0 15.8	8(5/8)		1	0 15.88(5/8)	
						-	5			3	
iping Length		Stanuaru				/.	.5			7.5	
iping Level Difference	Outdoor Unit ~	Max.				3	0			30	
						1 /50/2	20 240		2	150/200 41	c .
urront	Phase/Frequency/V	oitage		H2/V	20	1~/50/2	20-240	40	3.	-/50/380-41	2
ladhus Converter (*Deenimet					30	40	40	40			-
urchase separately)	Nadal					Gatewa	IY 1485			DD40ED001	5
archase separately)	Iviodel			-		PP485	DBUUK			22482800K	

* This product contains fluorinated greenhouse gases. (R410A) / All models do have electric heating cable for prevent frost from condensing water at the condensing pan. * All specification is based on EN14511 and EN14825. * Above table values does include humidification effect in the outdoor temperature below zero.





THERMA V SPECIFICATION

MONOBLOC

HM051M.U42 / HM071M.U42 / HM091M.U42



LG participates in the ECP programme for EUROVENT EURO-HP program. Check ongoing validity of certification : www.eurovent-certification.com

Nonical Control Control (NV N3) Reference HM051MU42 HM071MU42 HM071MU42 Heating (A7 / VN35) KV 459 7.00 900 Nonical Capacity Heating (A2 / VN50) KV 359 502 6.46 Heating (A7 / VN35) KV 368 516 697 Colling (A55 / VN18) KV 469 560 880 Monical Capacity Heating (A7 / VN35) KV 113 163 220 Heating (A7 / VN35) KV 113 163 220 216 278 Heating (A7 / VN35) KV 154 221 299 200 20			Capacity 5kW 1Ø		7kW 1Ø	9kW 1Ø
Naminal CapacityHeating (A.7 /W35)WW4.4997.009.00Heating (A.2 /W50)WW3.63S.086.618Heating (A.2 /W50)WW3.63S.086.64Heating (A.7 /W33)WV3.68S.166.97Tooling (A35 /W16)WW3.68S.166.97Munial Counce (A35 /W16)WW1.131.612.20Heating (A.7 /W35)WW1.142.152.85Heating (A.7 /W35)WW1.542.212.99Heating (A.7 /W35)WW1.542.212.99Cooling (A35 /W16)WW1.542.212.99Heating (A.7 /W35)WW1.542.212.99Cooling (A35 /W16)WW1.542.212.99Heating (A.7 /W35)WW1.542.322.31Heating (A.7 /W35)WW1.542.322.31Heating (A.7 /W35)WW1.542.992.362.32Coling (A35 /W16)WW1.523.633.733.73DimensionVm (Hag) A.7 /W35MG6.66.66.6Outdoor AarNo		DOOR ONT)	Reference	HM051M.U42	HM071M.U42	HM091M.U42
Nominal Capacity Heating (A2 / W50) WM 36.8 5.08 6.18 Heating (A2 / W50) WM 359 502 6.46 Heating (A2 / W50) WM 359 502 6.46 Cooling (A35 / W18) WM 4.499 5.60 8.80 Maninal Power Input Heating (A2 / W50) KM 1.13 1.63 2.20 Heating (A2 / W50) KM 1.13 1.63 2.20 2.20 Maninal Power Input Heating (A2 / W50) KM 1.54 2.21 2.20 Heating (A2 / W50) KM 1.54 2.21 2.23 2.21 COP Heating (A2 / W50) KM 1.38 1.55 2.22 2.21 COP Heating (A2 / W50) Z.36 2.32 2.33 2.33 2.33 COP Heating (A2 / W50) Kg 97 98 99 90 Sound Power Level (Heating Cooling S'COB 2.29 2.33 2.33 2.39 2.39		Heating (A7 / W35)	kW	4.99	7.00	9.00
Nominal CapacityHeating (A-7 / W30)W3595026.46Heating (A-7 / W30)KW3.685.166.97Conling (A35 / W10)KW4.0495.008.00Maninal Power InputHeating (A7 / W30)KW1.131.632.20Heating (A2 / W50)KW1.162.152.85Heating (A2 / W50)KW1.522.162.78Heating (A7 / W35)KW1.522.162.99Heating (A7 / W35)KW1.381.552.32Colling (A35 / W10)KW1.342.212.99Heating (A7 / W35)KW1.342.212.99Heating (A7 / W35)KW1.342.212.99Heating (A7 / W35)KW1.342.362.31Heating (A7 / W35)KW1.3422.362.31Heating (A7 / W35)KW1.322.362.31Heating (A7 / W35)KW1.323.313.31Heating (A7 / W35)KW1.239 / 907 / 3301.239 / 907 / 3301.239 / 907 / 330BinnenionKoling (A3 / W18)K1.239 / 907 / 3301.239 / 907 / 3301.239 / 907 / 330BinnenionKoling (A3 / W18)K1.666666Outdow AirHeating (A7 / C)BS.55.51.67Tomp-RangeColing (A 5 / W18)K1.621.62Heating (A7 / W37)KWS.5S.51.67Heating (A7 / W37)KWS.5S.5<		Heating (A2 / W50)	kW	3.63	5.08	6.18
Hatmg (A-7/W35) W 368 516 667 Cooling (A35 /W18) KW 4499 560 880 Nominal Power Input Heating (A7/W35) KW 1133 520 Heating (A2/W50) KW 152 216 235 Heating (A2/W50) KW 152 216 237 Cooling (A35/W18) KW 154 229 237 Cooling (A35/W18) KW 138 155 232 Cooling (A37/W30 KW 1362 233 233 Cooling (A37/W30 MM 1662 363 379 Dimension Mating (A //W30 KW 99 90 50 Sound Power Level (Heating / A //W30 MB 666 66 66 Outcor Air Goding 70<	Nominal Capacity	Heating (A-2 / W50)	kW	3.59	5.02	6.46
Image: Cooling (A35 / W18) WW 4.499 5.60 8.80 Nominal Power Input: Heating (A7 / W35) WV 1.13 1.63 2.20 Nominal Power Input: Heating (A7 / W35) WV 1.52 2.16 2.78 Heating (A7 / W35) WV 1.54 2.216 2.78 Cooling (A52 / W50) WV 1.54 2.216 2.32 Cooling (A52 / W35) WV 1.54 2.22 4.09 Cooling (A52 / W35) WV 1.54 2.23 2.32 Heating (A-7 / W35) V 2.39 2.33 2.33 Cooling (A52 / W18) W 1.56 2.32 2.33 Binension W k1k D mM 1.239 x907 x300 <		Heating (A-7 / W35)	kW	3.68	5.16	6.97
Heating (A7 //W35) W/W 1.13 1.63 2.20 Heating (A2 //W35) W/W 1.46 2.15 2.85 Heating (A2 //W35) W/W 1.54 2.21 2.99 Meating (A2 //W35) W/W 1.54 2.21 2.99 Attaing (A2 //W35) W/W 1.84 2.20 2.99 Attaing (A2 //W35) W/W 1.84 2.20 2.35 2.32 Attaing (A2 //W35) W/W 2.36 2.32 2.32 2.32 Attaing (A2 //W35) W/W 3.62 2.32 2.32 2.33 Attaing (A2 //W35) M/W 1.629 2.36 2.32 2.32 Attaing (A2 //W35) M/W 1.629 2.35 2.39 9.9 3.5 Sound Power Lovel (Heating (A - 7) W35)		Cooling (A35 / W18)	kW	4.99	5.60	8.80
Nominal Power Input Heating (A2 / W50) WW 1.46 2.15 2.85 Nominal Power Input Heating (A-7 / W53) WW 1.52 2.16 2.78 Heating (A-7 / W35) WW 1.38 1.55 2.32 COP Heating (A7 / W35) W 1.38 1.55 2.32 COP Heating (A2 / W50) W 2.36 2.32 2.33 ER Coloring (A35 / W18) W 3.362 3.33 2.33 Dimension W × H × D mm 1.239 × 907 × 390 </td <td></td> <td>Heating (A7 / W35)</td> <td>kW</td> <td colspan="2">1.13 1.63</td> <td>2.20</td>		Heating (A7 / W35)	kW	1.13 1.63		2.20
Nominal Power Input Heating (A.7 / W35) KW 152 216 278 Heating (A.7 / W35) KW 154 221 299 Cooling (A35 / W18) KW 154 221 299 Cooling (A2 / W35) KW 154 221 299 Cooling (A2 / W35) KW 442 429 409 Cooling (A2 / W50) 249 236 217 Heating (A.7 / W35) 233 233 233 ER Cooling (A35 / W18) 362 361 3.79 Dimension W H × D mm 1,239 × 907 × 390 1,239 × 907 × 390 1,239 × 907 × 390 Sound Power Level (Heating) Kg 97 98 99 Sound Power Level (Heating) °C DB 54.48 54.48 55.57 Cooling °C DB 54.48 55.57 54.54 54.54 54.54 Cooling * °C mm (nch) 11/20-240 / 55 54.48 55.57 54.54 54.54 54.54 55.57		Heating (A2 / W50)	kW	1.46	2.15	2.85
Heating (A-7/W35) WW 154 221 299 Cooling (A35 /W18) WW 138 155 232 Aleating (A7/W35) WW 138 155 232 COP Heating (A7/W35) 442 429 409 Heating (A-7/W35) 236 217 Heating (A-7/W35) 236 232 232 Heating (A-7/W35) 362 361 379 Dimension W × Hx D mn 1239 × 907 × 390 1239 × 907 × 390 1239 × 907 × 390 Weight kg 97 98 99 Sound Power Level (Heating) GB (A) 666 66 66 Outdoor Air Cooling<% CD B	Nominal Power Input	Heating (A-2 / W50)	kW	1.52	2.16	2.78
Cooling (A35 / W18) W 1.38 155 2.32 Heating (A7 / W35) 4.42 4.29 4.09 COP Heating (A7 / W35) 2.36 2.32 Heating (A2 / W50) 2.36 2.32 2.33 Heating (A7 / W35) 3.62 3.61 3.79 Bimension W × H × D mn 1.239 × 007 × 390 1.239 × 007 × 390 Weight Kg 97 98 99 Sound Power Level (Heating) dB (A) 666 66 66 Outdor Air Cooling<		Heating (A-7 / W35)	kW	1.54	2.21	2.99
Heating (A7/W35) 4.42 4.29 4.09 Heating (A2/W50) 2.49 2.36 2.17 Heating (A2/W50) 2.36 2.32 2.32 Heating (A2/W50) 2.36 2.33 2.33 ER Cooling (A35/W18) 3.62 3.61 3.79 Dimension W × H × D mm 1.239 × 907 × 390 1.239 × 907 × 390 Sound Power Level (Heating Kg 9.9 9.9 Sound Power Level (Heating Kg 9.9 9.9 Outdoor Air Kg 9.0 6.6 6.6 Outdoor Air Cooling CDB 2.0 2.0 3.5 Operation Range Heating (~ CDB Gooling 6.6 6.6 6.6 Outdoor Air Cooling CDB 2.0 3.5 7.6 7.6 Mater Pipe Connectin Heating (~ CDB Minich 1.6 1.6 1.6 Mater Pipe Connectini Inder Minich 1.6 1.6 1.6 1.6		Cooling (A35 / W18)	kW	1.38	1.55	2.32
COP Heating (A2 / W50) 2.49 2.36 2.17 Heating (A-2 / W50) 2.36 2.32 2.32 EER Cooling (A2 / W50) 2.39 2.33 2.33 Dimension W x H x D mm 1,239 x 907 x 390 Weight Kg 97 98 99 Sound Power Level (Heating) Go (B) 66 66 66 Outdoor Air Heating 0 °C DB 66 66 66 Outdoor Air Heating °C CDB 5 - 48 - - Outdoor Air Heating °C 66 6-30 - - Mater Pipe Connection Mn (inch) - <td< td=""><td></td><td>Heating (A7 / W35)</td><td></td><td>4.42</td><td>4.29</td><td>4.09</td></td<>		Heating (A7 / W35)		4.42	4.29	4.09
COP Heating (A-2 / W50) 2.36 2.32 Heating (A-7 / W35) 2.39 2.33 2.33 ER Cooling (A35 / W18) 362 361 3.79 Dimension W xH xD Mg 1,239 x 907 x390 1,239 x 907 x390 Weight kg 97 98 99 Sound Power Level (Heating) Mg 666 66 66 Outdoor Air Heating (A ° C D8 Geo (B ° C - 20 - 35) 99 Sound Power Level (Heating) Cooling (A ° C D8 Geo (B - 30) 99 Could or Air Heating (A ° C D8 Geo (B - 30) 90 Queter Supply Cooling (A ° C D8 Geo (B - 30) 90 Heating (A ° C M Mile Mile Mile Mile Mile Mater Flowrate Limit UPM P/V / H2 Mile Mile Mile Mile Max. Water Head Pre-Charged Amount R P/V / H2 Z0 Z0 Max. Water Head Pre-Charged Amount A Z0 Z0	COD	Heating (A2 / W50)	-KAUMATUZME	2.49	2.36	2.17
Heating (A-7 / W35) 2.39 2.33 2.33 ER Cooling (A35 / W18) 13.62 3.61 3.79 Dimension $\forall H x D$ mm 1,239 x 907 x 390 1,239 x 907 x 390 1,239 x 907 x 390 Weight kg 97 98 99 Sound Power Level (Heating MB (A) 66 66 66 Outdoor Air Heating °C D8 -20 - 35 -20 - 35 -20 - 35 Operation Range Cooling °C D8 -20 - 35 -20 - 32 -20 - 32 -20 - 32 -20 - 32 -20 - 32 -20 - 32 -20 - 32 -20 - 32 -20 - 32 -20 - 32 -20 - 32	COP	Heating (A-2 / W50)		2.36	2.32	2.32
ERCooling (A35 / W18)3623613.79DimensionW × H × Dmm1,239 × 907 × 3901,239 × 907 × 3901,239 × 907 × 390Weightkg979899Sound Power Level (Heating)CDB666666Outdoor Ar Operation RangeHeating°C DB5 - 487Outdoor Ar Operation RangeHeating°C DB5 - 487Iceaving Water Temp. RangeHeating°C DB5 - 487Outdoor Ar Outdoor MangeHeating°C DB5 - 487Mater Pipe Connection OutdotInletmm (inch)77OutdotMm (inch)7777Mater Flowrate LimitLP MMin (inch)777Power Supply $P / V / Hz$ Power Supply $P / V / Hz$ 77Power SupplyP/V / HzMin (inch)1200145160Mater Flowrate LimitInfInf1200334160Recommende FuseAGOL ge g250302334Frigherant (R410a)35°L / 55°C%A++/A+A++/A+A++/A+Seasonal space heating Seasonal space heating Seas		Heating (A-7 / W35)		2.39	2.33	2.33
Dimension Wx Hx D mm 1,239 x 907 x 390 1,239 x 907 x 390 1,239 x 907 x 390 Weight Kg 97 98 99 Sound Power Level (Heating) dB (A) 666 66 66 Outdoor Air Operation Range Heating °C DB -20 - 35 - 66 Leaving Water Fooling °C DB -20 - 35 -	EER	Cooling (A35 / W18)		3.62	3.61	3.79
Weightkg979899Sound Power Level (Heatiny)dB (A)660661661Outdoor Air Operation RangeHeating°C D8-20 - 35Operation RangeCooling°C D85 - 48-Leaving Water Temp. RangeCooling°C O5 - 57Operation RangeCooling°C O6 - 30-Mater Pipe ConnectionNum (inch)Outletmm (inch)-1/220-240/50-Power SupplyP/ V/ H2Power SupplyP/ V/ H2Max. Water Head-P/ V/ H2Power Supply-P/ V/ H2Power Supply-P/ V/ H2Power Supply-P/ V/ H2Recommended FuseA1.201.451.60Refrigerant (R410a)S°C / S°CSA++/A+A++/A+Seasonal space heating Seasonal space heating 	Dimension	WxHxD	mm	1,239 x 907 x 390	1,239 x 907 x 390	1,239 x 907 x 390
Sound Power Level (Heating)dB (A)6666Outdoor Air Operation RangeHeating°C DB-20-35Operation RangeCooling°C DB5-48Leaving Water Temp. RangeHeating°C15-57Temp. RangeCooling°C6-30Water Pipe Connection OutleInletmm (inch)Bettrice HeaterPower SupplyP/V/ Hz1/220-240/50Power SupplyP/V/ Hz41Max. Water Headmm1Max. Water Headmn20Power SupplyP/V / Hz20Recommended FuseA20Refrigerant (R410a)TC0: eq2.503.023.34Seasonal space heating energy efficiency (laws root of space heating seasonal space heating energy efficiency (laws root of space heating seasonal space heating energy efficiency (laws root of space heating energy efficiency (l	Weight		kg	97	98	99
Outdoor Air Operation RangeHeating°C DB-20-35Cooling°C DB5-48Leaving Water Temp. RangeHeating°CCooling°C15 - 57Cooling°C6 - 30Water Pipe ConnectionInletmm (inch)Outletmm (inch)1/220-240/50Electric HeaterPower SupplyP/V/HzPower SupplyP/V/Hz1/220-240/50Max. Water HeadmmYP/YPMax. Water HeadmnPower SupplyP/V/HzYPower SupplyP/V/HzYPower SupplyP/V/Hz1.50Recommended FuseA20Pre-Charged Amountkg1.20ITCO2 eq2503.02Seasonal space heating energy efficiency class35°C/55°C%160/110155/112161/114	Sound Power Level (Heating)		dB (A)	66	66	66
Operation RangeCooling°C DB5-48Leaving Water Temp. RangeHeating°C15-57Cooling°C6-30	Outdoor Air Heating		°C DB		-20 ~ 35	
Leaving Water Temp. RangeHeating $\[coling]$ <td>Operation Range</td> <td>Cooling</td> <td>°C DB</td> <td></td> <td></td>	Operation Range	Cooling	°C DB			
Temp. RangeCooling°C6 - 30Water Pipe ConnectionInletmm (inch)Outletmm (inch)Power SupplyP/V / Hz1/220-240/50Electric HeaterPower SupplyP/V / HzCapacitykW4Water Flowrate LimitLPMMax. Water HeadmMax. Water HeadmPower SupplyP/V / HzPower SupplyP/V / HzPre-Charged AmountkgRefrigerant (R410a)TCO2 eqSeasonal space heating energy efficiency class35°C/55°C%160/110155/112160/110155/112	Leaving Water		°C		15~57	
Nater Pipe ConnectionInletmm (inch)Outletmm (inch) $Outlet$ mm (inch)Power SupplyP/V/HzCapacitykWVater Flowrate LimitLPMMax. Water HeadnPower SupplyP/V/HzPower SupplyP/V/HzRecommended FuseAPre-Charged AmountkgICO2 eq2.50Seasonal space heating energy efficiency class $35^{\circ}C/55^{\circ}C$ %160/110Seasonal space heating energy efficiency class $35^{\circ}C/55^{\circ}C$ %160/110Seasonal space heating energy efficiency class $35^{\circ}C/55^{\circ}C$ %160/110Seasonal space heating energy efficiency class $35^{\circ}C/55^{\circ}C$ %160/110155/112Seasonal space heating energy efficiency class $35^{\circ}C/55^{\circ}C$ %160/110155/112	Temp. Range		°C		6~30	
Outletmm (inch)Electric HeaterPower SupplyP / V / Hz1/220-240 / 50CapacitykW4Water Flowrate LimitLPMMax. Water Headm $r<$ Power SupplyP / V / Hz7Power SupplyP / V / HzRecommended FuseA20Pre-Charged Amountkg1.201.45Refrigerant (R410a)Pre-Charged Amountkg1.20Seasonal space heating energy efficiency class 35° C / 55° C% $A++/A+$ $A++/A+$ $A++/A+$ Seasonal space heating energy efficiency class 35° C / 55° C%160/110155/112161/114	Water Pipe Connection		mm (inch)			
Power SupplyP / V / Hz1/220-240 / 50CapacitykW4Water Flowrate LimitLPMMax. Water Headm7Power SupplyP / V / HzRecommended FuseAPre-Charged Amountkg1CO 2 eq2.50Seasonal space heating energy efficiency class 35° C / 55^{\circ}C%160/110155/112161/114	Water ripe connection	Outlet	mm (inch)			
Letter letterCapacitykW4Water Flowrate LimitLPMMax. Water HeadmPower Supply $P/V/Hz$ Recommended FuseAPre-Charged Amountkg1.201.45Refrigerant (R410a)GWPSeasonal space heating energy efficiency class $35^{\circ}C/55^{\circ}C$ %160/110155/112161/114	Electric Heater		P / V / Hz		1/220-240/50	
Water Flowrate Limit LPM Max. Water Flead m 7 Max. Water Head m 7 Power Supply P/V/Hz Recommended Fuse A 20 Pre-Charged Amount kg 1.20 1.45 1.60 Refrigerant (R410a) Pre-Charged Amount kg 1.20 3.32 3.34 Seasonal space heating energy efficiency class 35°C / 55°C % A++/A+ A++/A+ A++/A+ Seasonal space heating energy efficiency class 35°C / 55°C % 160/110 155/112 161/114		Capacity	kW		4	
Max. Water Headm7Power SupplyP / V / HzRecommended FuseA20Pre-Charged Amountkg1.201.451.60Refrigerant (R410a)Pre-Charged Amountkg2.503.023.34GWPSeasonal space heating energy efficiency class35°C / 55°C%160/110155/112161/114	Water Flowrate Limit		LPM			
Power Supply P / V / Hz Recommended Fuse A 20 Refrigerant (R410a) Pre-Charged Amount kg 1.20 1.45 1.60 Refrigerant (R410a) Pre-Charged Amount kg 1.20 3.02 3.34 Seasonal space heating energy efficiency class S°C / 55°C A++ / A+ A++ / A+ A++ / A+ Seasonal space heating energy efficiency class S°C / 55°C % 160/110 155/112 161/114	Max. Water Head		m			7
Recommended Fuse A 20 Pre-Charged Amount kg 1.20 1.45 1.60 Refrigerant (R410a) TCO2 eq 2.50 3.02 3.34 GWP GWP A++/A+ A++/A+ A++/A+ Seasonal space heating energy efficiency class 35°C / 55°C % 160/110 155/112 161/114	Power Supply		P / V / Hz			
Pre-Charged Amount kg 1.20 1.45 1.60 Refrigerant (R410a) TCO2 eq 2.50 3.02 3.34 GWP Seasonal space heating energy efficiency class 35°C / 55°C A++ / A+ A++ / A+ A++ / A+ Seasonal space heating energy efficiency class 35°C / 55°C % 160/110 155/112 161/114	Recommended Fuse		А		20	
Refrigerant (R410a) TCO2 eq 2.50 3.02 3.34 GWP		Pre-Charged Amount	kg	1.20	1.45	1.60
GWP Seasonal space heating energy efficiency class 35°C / 55°C A++ / A+ A++ / A+ A++ / A+ Seasonal space heating energy efficiency (average) 35°C / 55°C % 160/110 155/112 161/114	Refrigerant (R410a)		TCO₂ eq	2.50	3.02	3.34
Seasonal space heating energy efficiency class 35°C / 55°C A++ / A+ A++ / A+ Seasonal space heating space heating 35°C / 55°C % 160/110 155/112 161/114						
Seasonal space heating 35°C / 55°C % 160 / 110 155 / 112 161 / 114	Seasonal space heating energy efficiency class	35°C / 55°C		A++ / A+	A++ / A+	A++ / A+
energy energy (average)	Seasonal space heating energy efficiency (average)	35℃ / 55℃	%	160/110	155/112	161/114
Rated heat output (average) 35°C / 55°C kW 6/5 7/6 7/7	Rated heat output (average)	35°C / 55°C	kW	6/5	7/6	7/7
Annual energy consumption (average) 35°C / 55°C kWh 3,119 / 3,707 3,631 / 4,641 3,761 / 4,638	Annual energy consumption (average)	35°C / 55°C	kWh	3,119 / 3,707	3,631 / 4,641	3,761 / 4,638
Water pump EEI ≤ 0.20 0.20 0.20	Water pump EEI ≤			0.20	0.20	0.20

* This product contains fluorinated greenhouse gases. (R410A) * All models do have electric heating cable for prevent frost from condensing water at the condensing pan. * Above table values does include humidification effect in the outdoor temperature below zero.

* All specification is based on EN14511 and EN14825.

* EHPA label for Germany, Austria and Switzerland.





HM121M.U32 / HM141M.U32 / HM161M.U32

HM123M.U32 / HM143M.U32 / HM163M.U32

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		Capacity	12kW 1Ø	14kW 1Ø	16kW 1Ø	12kW 3Ø	14kW 3Ø	16kW 3Ø
	IDOOR UNIT)	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)		8.76	10.41	11.58	8.94	10.43	12.21
Nominal Capacity	Heating (A-2 / W50)		8.63	10.33	11.45	8.84	10.31	12.07
	Heating (A-7 / W35)		8.27	9.80	10.98	8.29	9.64	11.19
	Cooling (A35 / W18)		10.40	12.20	13.20	10.40	12.20	13.20
	Heating (A7 / W35)		2.67	3.15	3.81	2.67	3.15	3.81
	Heating (A2 / W50)		3.51	4.26	4.83	3.65	4.32	5.12
Nominal Power Input	Heating (A-2 / W50)		3.57	4.45	5.05	3.75	4.45	5.25
	Heating (A-7 / W35)		2.97	3.57	4.30	2.95	3.50	4.39
	Cooling (A35 / W18)		2.67	3.32	3.65	2.67	3.32	3.65
	Heating (A7 / W35)		4.49	4.44	4.20	4.49	4.44	4.20
	Heating (A2 / W50)		2.50	2.44	2.40	2.45	2.41	2.38
COP	Heating (A-2 / W50)		2.42	2.32	2.27	2.36	2.32	2.30
	Heating (A-7 / W35)		2.78	2.75	2.55	2.81	2.75	2.55
EER	Cooling (A35 / W18)		3.90	3.67	3.62	3.89	3.67	3.62
Dimension			1,239 x 1,450 x 390					
Weight				141			145	
Sound Power Level (Heating)		dB (A)			6	8		
Outdoor Air	Heating	°C DB			-20	~ 35		
Operation Range		°C DB	5~48					
Leaving Water				15	~ 57			
Temp. Range	Cooling		1000					
		mm (inch)			Female	25.4(1)		
water Pipe Connection	Outlet	mm (inch)	1000		Female	25.4(1)		
Electric Heater	Power Supply			1/220-240/50			3/380~415/50	
	Capacity					6		
Water Flowrate Limit		LPM			Mir	n.15		
Max. Water Head						8		
Power Supply				1/220-240/50			3/380-415/50	
Recommended Fuse				32			20	
	Pre-Charged Amount				2.	20		
Refrigerant (R410a)		TCO₂ eq			4.	59		
					2,0	87.5		
Seasonal space heating energy efficiency class	35°C / 55°C		A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Seasonal space heating energy efficiency (ave <u>rage)</u>			166/121	166/121	164/121	174/124	164/124	163/124
Rated heat output (average)	35℃ / 55℃		11/10	12/10	12/10	11/11	12/11	11/13
Annual energy consumption (average)	35℃ / 55℃		5,536 / 6,698	5,819 / 6,698	6,094 / 6,698	5,812/7,078	5,922 / 7,078	6,210 / 7,078
Water pump EEI ≤			0.23	0.23	0.23	0.23	0.23	0.23

* This product contains fluorinated greenhouse gases. (R410A) * All models do have electric heating cable for prevent frost from condensing water at the condensing pan except 3kW capacity. * Above table values does include humidification effect in the outdoor temperature below zero. * All specification is based on EN14511 and EN14825.

* EHPA label for Germany, Austria and Switzerland. * EHPA label is not include 12/14/16kW single phase type.



SPLIT

HN1616.NK3 / HU051.U43, HU071.U43, HU091.U43



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		Capacity	5kW Ø	7kW 1Ø	9kW 1Ø
SPLIT (00	IDOOR ONIT)	Reference	HU051.U43	HU071.U43	HU091.U43
	Heating (A7 / W35)	kW	5.00	7.00	9.00
	Heating (A2 / W35)	kW	4.30	5.97	7.30
Nominal Capacity		kW	6.24	6.68	7.08
	Heating (A-7 / W35)	kW	4.23	5.88	7.53
	Cooling (A35 / W18)	kW	5.00	7.00	9.00
		kW	1.01	1.59	2.05
	Heating (A2 / W35)	kW	3.52	1.70	2.09
Nominal Power Input		kW	3.20	3.34	3.54
	Heating (A-7 / W35)	kW	2.78	2.14	2.74
	Cooling (A35 / W18)	kW	1.09	1.56	2.37
	Heating (A7 / W35)		4.93	4.80	4.40
COD	Heating (A2 / W35)		3.52	3.51	3.50
COP			1.95	2.00	2.00
			2.78	2.75	2.75
EER			4.60	4.50	3.80
Dimension		mm		950 x 834 x 330	
Weight		kg		60	
Sound Pressure Level (Heating)		dB(A)		-	
Sound Power Level (Heating)		dB(A)		65	
Outdoor Air Operation Bange		°C DB		-20 ~ 35	
Outdoor Air Operation Range		°C DB		5~48	
		mm (inch)		9.52 (3/8)	
	Pipe Diameter (Gas)	mm (inch)		15.88 (5/8)	
		kg		1.55	
Refrigerant (R410a)	Fre-charged Amount	TCO₂ eq		3.24	
				2087.5	
	Chargeless Pipe Length	m		7.5	
	Additional Charging Volume	g/m		40	
		m		3	
Ref. Pipe Length		m		7.5	
		m		50	
Power Supply		P / V / Hz		1/220-240/50	
Recommended Fuse		A		20	

* This product contains fluorinated greenhouse gases. (R410A) / All models do have electric heating cable for prevent frost from condensing water at the condensing pan. * All specification is based on EN14511 and EN14825. * Above table values does include humidification effect in the outdoor temperature below zero.

	T)	Capacity		5,7,9kW		
SPEIT (INDOOK ON		Reference				
Dimension		mm		490 x 850 x 315		
Weight		kg		42		
Flectric Heater		P/V/Hz		1/220-240/50		
		kW		6		
Lonving Water Temp, Banga		°C		15~57		
Leaving water remp. Range		°C	6~30			
Water Flowrate Limit		LPM		Min 15.		
Max. Water Head		m		7		
Water Disc Connection		mm(inch)		Male PT 25 (1)		
water Pipe Connection		mm(inch)		Male PT 25 (1)		
Energy Efficiency Class				A++ / A++		
Seasonal Space Heating			4.52 / 3.23	4.45 / 3.23	4.34 / 3.23	
Seasonal Space Heating Energy Efficiency (Average)	35℃ / 55℃	%	178/126	175/126	171/126	
Rated Heat Output (kW)		kW	6/6	6 / 6	7/6	
Annual Energy Consumption (Average)		kWh	2,512 / 3,581	2,783 / 3,581	3,093 / 3,581	
Water Pump EEI			0.23	0.23	0.23	

HN1616.NK3 / HU121.U33, HU141.U33, HU161.U33 HN1639.NK3 / HU123.U33, HU143.U33, HU163.U33



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		Capacity	12kW 1Ø	14kW 1Ø	16kW 1Ø	12kW 3Ø	14kW 3Ø	16kW 3Ø	
SPLIT (UUTL	JOOR UNIT)	Reference	HU121.U33	HU141. U33	HU161. U33	HU123. U33	HU143. U33	HU163. U33	
	Heating (A7 / W35)	kW	12.00	14.00	16.00	12.00	14.00	16.00	
	Heating (A2 / W35)	kW	10.33	10.83	11.95	10.33	10.83	11.95	
Nominal Capacity		kW	11.89	11.89	11.89	11.89	11.89	11.89	
		kW	11.00	12.50	13.50	11.00	12.50	13.50	
	Cooling (A35 / W18)		10.40	12.00	13.00	10.40	12.00	13.00	
	Heating (A7 / W35)		2.64	3.17	3.76	2.64	3.17	3.76	
	Heating (A2 / W35)	kW	2.93	3.09	3.41	2.93	3.09	3.41	
Nominal Power Input			5.25	5.25	5.25	5.25	5.25	5.25	
		kW	3.14	3.73	4.35	3.14	3.73	4.35	
	Cooling (A35 / W18)		2.60	3.08	3.60	2.60	3.08	3.60	
	Heating (A7 / W35)		4.55	4.41	4.26	4.55	4.41	4.26	
COD			3.52	3.51	3.50	3.52	3.51	3.50	
LUP			2.27	2.27	2.27	2.27	2.27	2.27	
		1	3.50	3.35	3.10	3.50	3.35	3.10	
EER	Cooling (A35 / W18)		4.00	3.90	3.61	4.00	3.90	3.61	
Dimension			950 x 1,380 x 330						
Weight		kg			9	4			
Sound Pressure Level (Heating)									
Sound Power Level (Heating)		dB(A)			6	6			
Outdoor Air Operation Panco					-20	~ 35			
outuooi Ali Operation Range	Cooling				5~	48			
		mm (inch)	9.52 (3/8)						
		mm (inch)			15.88	(5/8)			
	Pro charged Amount	kg			2.	30			
Refrigerant (R410a)		TCO₂ eq			4.	80			
		9,14			208	37.5			
	Chargeless Pipe Length	m			7	.5			
	Additional Charging Volume	g/m	60	60	60	50	50	50	
		m				3			
Ref. Pipe Length		m			7	.5			
		m			5	0			
Power Supply		P / V / Hz	1/220-240/50	1/220-240/50	1/220-240/50	3/380-415/50	3/380-415/50	3/380-415/50	
Recommended Fuse		A			4	0			

* This product contains fluorinated greenhouse gases. (R410A) / All models do have electric heating cable for prevent frost from condensing water at the condensing pan. * All specification is based on EN14511 and EN14825. * Above table values does include humidification effect in the outdoor temperature below zero.

	-	Capacity		12~16kW1Ø	and the second se		12 ~ 16kW 3Ø	
SPLIT (INDOOR UNI	0	Reference		HN1616.NK3	HN1616.NK3			
Dimension		mm			490 x 85	50 x 315		
Weight		kg		42			43	
Electric Heater		P / V / Hz		1/220-240/50			3/380-415/50	
		kW		6			9	
Loguing Water Temp Pange		°C			15 -	- 57		
Leaving water remp. Range	Cooling	°C			6~	30		
Water Flowrate Limit		LPM			Min	15.		
Max. Water Head		m		7			7	
Water Pine Connection		mm (inch)			Male PT	25(1)		
water ripe connection		mm (inch)			Male PT	25(1)		
Energy Efficiency Class	35% / 55%				A++ /	A++		
Seasonal Space Heating			4.45/3.32	4.45/3.32	4.30/3.32	4.45 / 3.32	4.45 / 3.32	4.30 / 3.32
Seasonal Space Heating Energy Efficiency (Average)		%	175/130	175/130	169/130	175/130	175/130	169/130
Rated Heat Output (kW)		kW	9/10	10/10	10/10	9/10	10/10	10/10
Annual Energy Consumption (Average)		kWh	4,177/6,154	4,408 / 6,154	4,802 / 6,154	4,177 / 6,154	4,408 / 6,154	4,802/6,154
Water Pump EEI			0.23	0.23	0.23	0.23	0.23	0.23



HIGH TEMPERATURE

HN1610H.NK2 HU161H.U32





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CLG	ZTHEREMAN
THERMAY.	



THERMA V SPECIFICATION

OSHW-200F OSHW-300F OSHW-500F OSHW-300FD

Domestic Hot Water Tank - Double Coil

DOME	STIC HOT WATER TANK		OSHW-200F	OSHW-300F	OSHW-500F	OSHW-300FD
	Water Volume	L	200	300	500	300
			640	640	810	640
General			1,350	1,850	1,900	1,350
Characteristics			61	100	146	106
			F18 S.STEEL	F18 S.STEEL	F18 S.STEEL	F18 S.STEEL
			Grey	Grey	Grey	Grey
Characteristics of			2,400	2,400	2,400	2,400
Characteristics of Flectrical Back-up			230W / 50 / 60Hz	230W / 50 / 60Hz	230W/50/60Hz	230W / 50 / 60Hz
Incoment Buck up			0-90	0-90	0-90	0-90
			Internal Single Coil	Internal Single Coil	Internal Single Coil	Double Coil
Characteristics			F18 S.STEEL	F18 S.STEEL	F18 S.STEEL	F18 S.STEEL
of Exchanger			90	90	90	90
			2.3	3.1	4.8	3.1 / 0.97
Hydraulic Connections			1"	1"	1 1/4"	1" (Sup 3/4")
– Heat Pump	Outlet		1"	1"	1 1/4"	1" (Sup 3/4")
Hydraulic connections			3/4"	3/4"	1"	3/4"
- Domestic Hot Water Tank			3/4"	1"	1"	1″
Energy Efficiency Class			В	В	В	В
Standing Heat loss			61	70	83	70
Number of Coil			Single	Single	Single	Double
		MANDAT	ORY OPTIONAL ACCES	SSORIES		
Domestic Hot Water Tank Insta	allation Kit		PHLTA	PHLTA	PHLTA	PHLTA
		0	PTIONAL ACCESSORIE	S		
Mixing Valve			OSHA-MV	OSHA-MV	OSHA-MV	OSHA-MV
3-Way Valve			OSHA-3V	OSHA-3V	OSHA-3V	OSHA-3V

		Capacity	16kW 1Ø
TIGHTEN		Reference	HU161H.U32
	Heating (A7 / W65)	kW	16.00
	Heating (A2 / W65)	kW	14.60
Nominal		kW	15.70
capacity	Heating (A-7 / W65)	kW	15.10
	Heating (A7 / W35)	kW	16.00
	Heating (A7 / W65)	kW	6.13
	Heating (A2 / W65)	kW	6.81
Nominal Power Input	Heating (A-2 / W65)	kW	6.96
rowei input	Heating (A-7 / W65)	kW	7.20
	Heating (A7 / W35)	kW	4.70
	Heating (A7 / W65)		2.61
	Heating (A2 / W65)		2.14
COP	Heating (A-2 / W65)		2.25
	Heating (A-7 / W65)		2.09
	Heating (A7 / W35)		3.40
Dimension		mm	950 x 1,380 x 330
Weight		Kg	105
Sound Power Level (Heating)		dB (A)	68
Outdoor Air Operation Range		°C DB	-15 - 35
		mm (inch)	9.52 (3/8)
		mm (inch)	15.88 (5/8)
	Pre-Charged Amount	kg	3.5
Refrigerant (R410a)		TCO ₂ eq	7.3
		EMUL LIARPIZE	2,087.5
		m	10
		G/m	60
		m	5
Ref. Pipe Length		m	7.5
		m	50
Power Supply		P / V / Hz	1/220-240/50
Recommended Fuse		A	25
Recommended Fuse	(D(10A))	A	25

This product contains fluorinated greenhouse gases. (R4

* All specification is based on EN14511 and EN14825

HIGH TEMP. SLIT (INDOOR UNIT)		Capacity	16kW 1Ø
		Reference	HN1610H.NK2
Dimension		mm	520 x 1,080 x 330
Weight		kg	94
Sound Power Level (Heating)		dB (A)	57
Nominal Power Input		kW	6.13
Leaving Water Temp. Range		°C	25~80
Water Flowrate Limit		LPM	Min.15
SAMSI		mm (inch)	9.52 (3/8)
and the second se		mm (inch)	15.88 (5/8)
Refrigerant (R134a)		kg	2.3
A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O		TCO ₂ eq	3.3
			1430
		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
Seasonal space heating energy efficiency class			A/A+
Seasonal space heating energy efficiency (average)		%	115/113
Rated heat output (average)		kW	13/11
Annual energy consumption (average) 35°C / 55°C kWh		kWh	9,395 / 7,642

DOMESTIC HOT WATER TANK





Single Coil

THERMA V SPECIFICATION

LG Wi-Fi MODEM

Control LG THERMA V via using the internet devices as Android or iOS bases smartphones



Features

- Access LG THERMA V anytime and from anywhere with Wi-Fi equipped device
- LG's exclusive Home Appliances control app(SmartThinQ) is available

• Simple operation for various functions

- On/Off - Current/Set Temperature - Operation Mode

Model Name	PWFMDD200
Size (W x H x D, mm)	48 x 68 x 14
Interfaceable Products	THERMA V Split Indoor unit
Connection Type	Indoor unit 1:1
Communication Frequency	2.4 GHz
Wireless Standards	IEEE 802.11b/g/n
Mobile Application	LG Smart ThinQ (Android v4.1(Jellybean) or higher, iPhone iOS 9.0 or higher)
Optional Extension Cable	PWYREW000 (10m extension)

* Functionality may be different according to each IDU model

- * User interface of application shall be revised for its design and contents improvement
- \ast Application is optimized for smartphone use, so it may not be well functioning with tablet devices
- 1) Vane Control may not be possible according to the type of Indoor unit
- 2) For the compatibility with Indoor unit, please contact regional office



Overview



* Search "LG Smart ThinQ" on Google market or Appstore then download the app. * Internet service with Wi-Fi connection has to be available



PWFMDD200

THERMA V SPECIFICATION

Wi-Fi CONTROLLER



Features

- External Power is not required
- Single system unit capacity (Monobloc, Split Low/High Temp)
- Control and monitor by mobile device
- Additional internet service has to be available and registration user account in IntesisHome cloud to use Wi-Fi controller is mandatory

• IntesisHome cloud application is available for smart devices such as smart phone(Android, iOS), laptop, tablet.

Specifications

Model Name	
Enclosure	
Dimensions (mm)	
Neight (g)	
Color	
Power Supply	Does
Mounting	
Operating Temperature	
Operating Humidity	
Stock Humidity	
RoHS Conformity	
Certifications	CE conformity El

Overview



1) This product is provided by Intesis

LG-AW-WF-1

Model Name	LG-AW-WF-1
Start / Stop Operation	0
Operation Mode	Heating / Heating & DHW / Cooling & DHW / Cooling / DHW
Set Point	0
Ambient Temperature	0
Fan Speed	0

ABS (UL 94 HB), 2.5 mm thickness

70 x 108 x 28 mm

80g

White

12V, 60mA typical

sn't require external power supply (supplied by the Indoor Unit) Wall

From 0°C to 40°C

<93% HR, no condensation

<93% HR, no condensation

Compliant with RoHS directive (2002/95/CE) y to EMC directive (2004/108/EC), Low-voltage directive (2006/95/EC) EN 60950-1 / EN301489-1 v1.8.1 / EN 301489-17 v2.1.1



Notebook

Accessories Provided by LG

Accessory	Feature				
Domestic Hot Water Tank	OSHW-200F 200 LITRES OSHW-300F 300 LITRES OSHW-500F 300 LITRES OSHW-500F OSHW-500F Single Coil Double Coil				
Domestic Hot Water Tank Kit	 PHLTA (1Ø, Split) PHLTC (3Ø, Split) PHLTB (Monobloc) Factures Easy to install the domestic hot water for monobloc. There is a MCCB to protect the product. Dimension (mm) (H×W×D): 250×170×110 Weight (kg): 2.1 To extend THERMA V functionality in generating domestic hot water. For water. PHLTA (1Ø, Split) PHLTB (Monobloc) * PHLTA, PHLTC is required only when you want to use the electric heater of function at the sanitary tank. If not, it's not necessary. THERMA V indoor unit it self already has electric heater(back up heating) function. * The sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • The sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • The sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • The sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • The sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purchased separately in case of using other brand's Domestic tank. • Description of the sensor (PHRSTA0) can be purcha				
Remote Temperature Sensor	PQRSTAD Features It can help to detect the exact room temperature. Applied to ceiling cassette, ceiling concealed duct, AWHP and Hydro Kit. Parts Included Remote temperature sensor / Extension cable (15m) / Manual @LG				
Solar Thermal Kit	PHLLA Features To interface solar-thermal system with THERMA V and double coil Domestic tank. Installed at the water pipe, between Domestic tank and solar-thermal system. Dimension (mm) (H x W x D): 110 x 55 x 22				
Dry Contact	PDRYCB000 Features For connection with boiler (Bivalent scene)				
Drain Pan	PHDPB Features Collects condensate water (When dropping to the base is not possible) and drains the water to a pipe				

Recommended Optional Accessories

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 ≥ 3 m²
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	P	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	<u> </u>	Protects plate-heat-exchanger from blocking particles	1 inch / 25.4mm, Mesh size ~ 1 x 1mm 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 All models do have electric heating cable for prevent frost from condensing water at the condensing pan except 3kW capacity.
10	Antifreeze		Prevents the heating water from freezing, when heat pump is out of order	Monoethyleneglycole Concentration according to lowest possible outdoor temperature
11	Noise Damper		Prevents that structure-born noise is transported via the water piping	EPDM; Operating temperature according climate region (at least -10 ~ + 90°C)
12	Anti-Noise Sockets		Prevents that structure-born noise is transported to the base or to the brackets	Dimensioning on-site required
13	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
14	Refrigerant Tubes	Ó	Pre-fabricated double-pipe to connect split indoor and outdoor unit	Diameter : Please refer to Specification
15	Water Tubes		Pre-fabricated double-pipe to connect monobloc outdoor unit with heating system	When heat pump is used for cooling : diffusion-resistant tubes
16	Bushing Sleeve	\bigcirc	Protecting the building against pressing water coming through the duct of the heating tubes	Dimensioning on-site required
17	Insulation Material		Mandatory when heat pump is used for cooling; prevents condensate water on cold pipes and assemblies	Diffusion-resistant

THERMA V LG LATS THERMA V

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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LG THERMA V Micro Web Site

THERMA V microsite where you can do

1. Energy simulation for your home by following 6 simple steps. (http://www.lgethermav.com)

2. Able to find LG THERMA V features

3. Locate European Certification information.





