THERMA V SPECIFICATION

SPLIT

HU051.U43, HU071.U43, HU091.U43

LG participates in the ECP programme for EUROVENT EURO-HP program.
Check ongoing validity of certification :
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SPLIT (OUTDOOR UNIT)		Capacity	5kW Ø	7kW 1Ø	9kW 1Ø
		Reference	HU051.U43	HU071.U43	HU091.U43
Nominal Capacity	Heating (A7 / W35)	kW	5.00	7.00	9.00
	Heating (A2 / W35)	kW	4.30	5.97	7.30
	Heating (A-2 / W50)	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
Nominal Power Input	Heating (A7 / W35)	kW	1.01	1.59	2.05
	Heating (A2 / W35)	kW	3.52	1.70	2.09
	Heating (A-2 / W50)	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
COP	Heating (A7 / W35)		4.93	4.80	4.40
	Heating (A2 / W35)		3.52	3.51	3.50
	Heating (A-2 /W50)		1.95	2.00	2.00
	Heating (A-7 / W35)		2.78	2.75	2.75
EER	Cooling (A35 / W18)		4.60	4.50	3.80
Dimension	W x H x D	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 Range	Heating	°C DB	-20 ~ 35		
	Cooling	°C DB	5 ~ 48		
Refrigerant (R410a)	Pipe Diameter (Liquid)	mm (inch)	9.52 (3/8)		
	Pipe Diameter (Gas)	mm (inch)	15.88 (5/8)		
	Pre-charged Amount	kg	1.55		
		TCO_2 eq	3.24		
	GWP		2087.5		
	Chargeless Pipe Length	m	7.5		
	Additional Charging Volume	g/m	40		
Ref. Pipe Length	Minimum	m	3		
	Standard	m	7.5		
	Maximum	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.

SPLIT (INDOOR UNIT)		Capacity	5,7,9kW		
		Reference	HN1616.NK3		
Dimension	W*H*D	mm	490 x 850 x 315		
Weight		kg	42		
Electric Heater	Power Supply	P/V/Hz	1 / 220-240 / 50		
	Capacity	kW	6		
Leaving Water Temp. Range	Heating	°C	15 ~ 57		
	Cooling	°C	6 ~30		
Water Flowrate Limit		LPM	Min 15.		
Max. Water Head		m	7		
Water Pipe Connection	Inlet	mm(inch)	Male PT 25 (1)		
	Outlet	mm(inch)	Male PT 25 (1)		
Energy Efficiency Class Seasonal Space Heating	35°C / 55°C		A++ / A++		
			4.52 / 3.23	4.45 / 3.23	4.34 / 3.23
Seasonal Space Heating Energy Efficiency (Average)	35°C / 55°C	%	178 / 126	175 / 126	171 / 126
Rated Heat Output (kW)	35°C / 55°C	kW	6 /6	6 / 6	7 / 6
Annual Energy Consumption (Average)	35°C / 55°C	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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SPLIT (OUTDOOR UNIT)		Capacity	12kW 1Ø	14kW 1Ø	16kW 1Ø	12kW 3Ø	14kW 3Ø	16kW 3Ø
		Reference	HU121. U33	HU141. U33	HU161. U33	HU123. U33	HU143. U33	HU163. U33
Nominal Capacity	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
	Heating (A-2 / W50)	kW	11.89	11.89	11.89	11.89	11.89	11.89
	Heating (A-7 / W35)	kW	11.00	12.50	13.50	11.00	12.50	13.50
	Cooling (A35 / W18)	kW	10.40	12.00	13.00	10.40	12.00	13.00
Nominal Power Input	Heating (A7 / W35)	kW	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
	Heating (A-2 / W50)	kW	5.25	5.25	5.25	5.25	5.25	5.25
	Heating (A-7 / W35)	kW	3.14	3.73	4.35	3.14	3.73	4.35
	Cooling (A35 / W18)	kW	2.60	3.08	3.60	2.60	3.08	3.60
COP	Heating (A7 / W35)		4.55	4.41	4.26	4.55	4.41	4.26
	Heating (A2 / W35)		3.52	3.51	3.50	3.52	3.51	3.50
	Heating (A-2 / W50)		2.27	2.27	2.27	2.27	2.27	2.27
	Heating (A-7 / W35)		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	W x H x D	mm	950 x 1,380 x 330					
Weight		kg	94					
Sound Pressure Level (Heating)		dB(A)	-					
Sound Power Level (Heating)		dB(A)	66					
Outdoor Air Operation Range	Heating	°C DB	-20 ~ 35					
	Cooling	°C DB	5 ~ 48					
Refrigerant (R410a)	Pipe Diameter (Liquid)	mm (inch)	9.52 (3/8)					
	Pipe Diameter (Gas)	mm (inch)	15.88 (5/8)					
	Pre-charged Amount	kg	2.30					
		TCO_2 eq	4.80					
	GWP		2087.5					
	Chargeless Pipe Length	m	7.5					
	Additional Charging Volume	g/m	60	60	60	50	50	50
Ref. Pipe Length	Minimum	m	3					
	Standard	m	7.5					
	Maximum	m	50					
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	40					

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SPLIT (INDOOR UNIT)		Capacity	12 ~ 16kW 1Ø			12 ~ 16kW 3Ø		
		Reference	HN1616.NK3			HN1639.NK3		
Dimension	W x H x D	mm	490 x 850 x 315					
Weight		kg	42			43		
Electric Heater	Power Supply	P / V / Hz	1 / 220-240 / 50			3 / 380-415 / 50		
	Capacity	kW	6			9		
Leaving Water Temp. Range	Heating	°C	15 ~ 57					
	Cooling	°C	6 ~ 30					
Water Flowrate Limit		LPM	Min 15.					
Max. Water Head		m	7			7		
Water Pipe Connection	Inlet	mm (inch)	Male PT 25 (1)					
	Outlet	mm (inch)	Male PT 25 (1)					
Energy Efficiency Class Seasonal Space Heating	35°C / 55°C		A++ / A++					
			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)	35°C / 55°C	%	175 / 130	175 / 130	169 / 130	175 / 130	175 / 130	169 / 130
Rated Heat Output (kW)	35°C / 55°C	kW	9 /10	10 /10	10 / 10	9 /10	10 /10	10 / 10
Annual Energy Consumption (Average)	35°C / 55°C	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