

THERMA V SPECIFICATION

SPLIT

HU051.U43, HU071.U43, HU091.U43



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SPLIT (OUTDOOR UNIT)		Capacity Reference	5kW Ø HU051.U43	7kW 1Ø HU071.U43	9kW 1Ø 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		
Ref. Pipe Length	Additional Charging Volume	g/m	40		
	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 Reference	5,7,9kW 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	35°C / 55°C		A++ / A++		
Seasonal Space Heating			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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HEATING

SPLIT (OUTDOOR UNIT)		Capacity Reference	12kW 1Ø HU121. U33	14kW 1Ø HU141. U33	16kW 1Ø HU161. U33	12kW 3Ø HU123. U33	14kW 3Ø HU143. U33	16kW 3Ø 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					
Ref. Pipe Length	Additional Charging Volume	g/m	60	60	60	50	50	50
	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 Reference	12 ~ 16kW 1Ø HN1616.NK3			12 ~ 16kW 3Ø 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			A++ / A++					
Seasonal Space Heating	35°C / 55°C		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