

M thermal Arctic Split



Table 2-1.1: MHA-V12(14, 16)W/D2RN8-B specifications¹

Model name MHA-			V12W/D2RN8-B	V14W/D2RN8-B	V16W/D2RN8-B
Compatible hydronic box HB-			A160/CGN8-B		
Power supply		V/Ph/H	380-415/3/50		
Heating(A7W35)	Capacity	kW	12.1	14.5	16.0
	Rated input	kW	2.44	3.09	3.56
	COP			4.95	4.70
Heating(A7W45)	Capacity	kW	12.3	14.2	16.0
	Rated input	kW	3.24	3.89	4.44
	COP			3.80	3.65
Heating(A7W55)	Capacity	kW	12.0	13.8	16.0
	Rated input	kW	3.87	4.60	5.52
	COP			3.10	3.00
Heating(A-7W35)	Capacity	kW	10	12	13.3
	Rated input	kW	3.33	4.29	4.93
	COP			3	2.8
Heating(A-7W55)	Capacity	kW	10	11	12.5
	Rated input	kW	4.88	5.37	6.19
	COP			2.05	2.05
Cooling(A35W18)	Capacity	kW	12.00	13.50	14.2
	Rated input	kW	3.00	3.74	3.94
	EER			4.00	3.61
Cooling(A35W7)	Capacity	kW	11.6	12.7	14.0
	Rated input	kW	4.22	4.98	5.71
	EER			2.75	2.55
Seasonal space heating energy efficiency class	LWT at 35°C		A+++	A+++	A+++
	LWT at 55°C		A++	A++	A++
SCOP	Warmer climate	35°C	6.47	6.57	6.28
		55°C	4.42	4.49	4.47
	Average climate	35°C	A+++	A+++	A+++
			4.81	4.72	4.62
		55°C	A++	A++	A++
	Colder climate		3.45	3.47	3.41
35°C		4.08	4.07	4.02	
	55°C	3.02	3.05	3.12	
SEER	LWT at 7°C		4.86	4.83	4.67
	LWT at 18°C		7.04	6.85	6.71
Rated water flow		m ³ /h	2.08	2.49	2.75
Compressor	Type		Twin rotary DC inverter		
Outdoor fan	Motor type		Brushless DC motor		
	Number of fans		1	1	1
Air side heat exchanger	Type		Finned tube		
Refrigerant(R32)	Factory charge	kg	1.84	1.84	1.84
Throttle type			Electronic expansion valve		
Piping connections	Type		Flare	Flare	Flare
	Liquid/ Gas Dia.(OD)	mm	Φ9.52/15.9	Φ9.52/15.9	Φ9.52/15.9
	Min. /Max. pipe length		m	2/30	2/30

Installation height difference	Outdoor unit above/below	m	20	20	20
Sound power level ²		dB	64	65	68
Sound pressure level(1m) ³		dB	50	51	55
ODU Net dimensions (W×H×D)		mm	1118×865×523	1118×865×523	1118×865×523
ODU Packed dimensions (W×H×D)		mm	1190×970×560	1190×970×560	1190×970×560
ODU Net/Gross weight		kg	112/125.5	112/125.5	112/125.5
Operating temperature range	Cooling	°C	-5 to 43		
	Heating	°C	-25 to 35		
	DHW	°C	-25 to 43		

Note:

1. Relevant EU standards and legislation: EN14511; EN14825; EN50564; EN12102; (EU) No 811:2013; (EU) No 813:2013; OJ 2014/C 207/02:2014.
2. Test standard: EN12102-1
3. Sound pressure level is the maximum value tested under the two conditions of Heating: A7W35 and Cooling: A35W18.

Indoor unit		HBT-A100/240C0590GN8-B		HBT-A160/240C0590GN8-B		
Indoor unit/ hydraulic module	Power supply	V/Ph/Hz	380+415/3/50	380+415/3/50	380+415/3/50	
	Domestic hot water tank	Typ	Stainless steel			
		Material	SUS 316L			
		Volume	L	240	240	240
		Max. water temperature	°C	70	70	70
		Insulation (material) / thickness	mm	Polyurethane (cyclopentane) / 45		Polyurethane (cyclopentane) / 45
	Heat exchanger		plate			
	Auxiliary heater	Electric power	kW	3/6/9	3/6/9	3/6/9
		Capacity steps		3	3	3
	Water pump	Type		DC Inverter		DC Inverter
		Head	m	9	9	9
	Expansion vessel		L	8	8	8
	Water connections	Heating circuit (supply/return)	cal	External thread 1"	External thread 1"	External thread 1"
		DHW circuit (cold water, hot water, circulation)	cal	External thread 3/4"	External thread 3/4"	External thread 3/4"
	Indoor unit sound power level ²		dB	40	40	44
	Temperature range	Room	°C	5+35	5+35	5+35
		Heating	°C	25+65	25+65	25+65
		Cooling	°C	5+25	5+25	5+25
		Domestic hot water (DHW)	°C	30+60	30+60	30+60
	Dimensions	Unit (width x height x depth)	mm	600x1943x600	600x1943x600	600x1943x600
		Packaging (width x height x depth)	mm	653x2160x653	653x2160x653	653x2160x653
	Weight	Net	kg	155,3	155,3	157,3
		Gross	kg	170,2	170,2	172,2