

3.3 WH-MDC09J3E5

Item		Unit	Refrigerant System		
Performance Test Condition			EN 14511 / EN14825		
Cooling Capacity	Condition (Ambient/Water)		A35W7		
	kW		9.00		
	BTU/h		30700		
	kcal/h		7740		
Cooling EER	W/W		2.71		
	kcal/hW		2.33		
Heating Capacity	Condition (Ambient/Water)		A7W35	A2W35	
	kW		9.00	7.45	
	BTU/h		30700	25400	
	kcal/h		7740	6410	
Heating COP	W/W		4.48	3.13	
	kcal/hW		3.85	2.69	
Heating ErP	Low Temperature Application (W35)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	7.0	7.0	7.0
	Tbivalent / TOL	°C	2 / 2	-10 / -10	-15 / -22
	SCOP / ns	(W/W) / %	5.75 / 227	4.90 / 193	4.18 / 164
	Annual Consumption	kWh	1627	2949	4132
	Class		A+++	A+++	A++
	Medium Temperature Application (W55)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	6.0	8.0	6.0
	Tbivalent / TOL	°C	2 / 2	-7 / -10	-15 / -22
	SCOP / ns	(W/W) / %	4.07 / 160	3.32 / 130	2.98 / 116
	Annual Consumption	kWh	1971	4971	4967
	Class		A+++	A++	A+
	Noise Level	Condition (Ambient/Water)		A35W7	A7W35
dB (A)			Cooling: 51	Heating: 51	
Power Level dB			Cooling: 68	Heating: 69 Heating: 59***	
Air Flow	m ³ /min (ft ³ /min)		Cooling: 55.4 (1960) Heating: 53.2 (1880)		
Refrigeration Control Device			Expansion Valve		
Refrigeration Oil	cm ³		FW50S (900)		
Refrigerant (R32)	kg (oz)		1.30 (45.9)		
F-GAS	GWP		675		
	CO ₂ eq (ton) (Precharged / Maximum)		0.878 / -		
Compressor	Type		Hermetic Motor		
	Motor Type		Brushless (4-poles)		
	Rated Output	kW	1.70		

Item		Unit	Refrigerant System		
Fan	Type		Propeller Fan		
	Material		PP		
	Motor Type		DC Motor (8-poles)		
	Input Power	W	-		
	Output Power	W	60		
	Fan Speed	rpm	Cooling: 700 Heating: 670		
Heat Exchanger	Fin material		Aluminium (Pre Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		2 × 30 × 17		
	Size (W × H × L)	mm	38.1 × 762 × 903.8:873.8		

Item		Unit	Mono Bloc Unit		
Power Source (Phase, Voltage, Cycle)		∅	Single		
		V	230		
		Hz	50		
Input Power	Condition (Ambient/Water)		A35W7	A7W35	A2W35
	kW		Cooling: 3.32	Heating: 2.01	Heating: 2.38
Maximum Input Power For Heatpump System	kW		3.83		
Power Supply 1 : Phase (∅) / Max. Current (A) / Max. Input Power (W)			1∅ / 17.0 / 3.83k		
Power Supply 2 : Phase (∅) / Max. Current (A) / Max. Input Power (W)			1∅ / 13.0 / 3.00k		
Power Supply 3 : Phase (∅) / Max. Current (A) / Max. Input Power (W)			- / - / -		
Starting Current	A		9.3		
Running Current	Condition (Ambient/Water)		A35W7	A7W35	A2W35
	A		Cooling: 14.7	Heating: 9.3	Heating: 11.0
Maximum Current For Heatpump System	A		17.0		
Power Factor Power factor means total figure of compressor and outdoor fan motor.	%		Cooling: 98	Heating: 94	Heating: 94
Dimension	Height	mm (inch)	865 (34-1/16)		
	Width	mm (inch)	1283 (50-17/32)		
	Depth	mm (inch)	320 (12-5/8)		
Net Weight	kg (lbs)		104 (229)		
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		

Item		Unit	Water System
Performance Test Condition			EN 14511 / EN14825
Operation Range	Outdoor Ambient	°C	Cooling: 10 ~ 43 Heating: -20 ~ 35
	Water Outlet	°C	Cooling: 5 ~ 20 Heating: 20 ~ 55 (Below Ambient -15°C) 20 ~ 60 (Above Ambient -10°C)
Internal Pressure Differential		kPa	Cooling: 32.0 Heating: 32.0
Water Pipe Connector (in.)			(1-1/4)
Water Drain Hose Inner Diameter		mm (inch)	15.0 (19/32)
Pump	Motor Type		DC Motor
	Input Power	W	173
Hot Water Coil	Type		Brazed Plate
	No. of Plates		36
	Size (W × H × L)	mm	68.3 × 121 × 333
	Water Flow Rate	l/min (m ³ /h)	Cooling: 25.8 (1.5) Heating: 25.8 (1.5)
Pressure Relief Valve Water Circuit		kPa	Open: 300, Close: 210 and below
Flow Switch			Electronic Sensor
Protection Device		A	Residual Current Circuit Breaker (40)
Expansion Vessel	Volume	l	6
	MWP	bar	3
Capacity of Integrated Electric Heater		kW	3.00

Note:

- Cooling capacities are based on outdoor air temperature of 35°C Dry Bulb with controlled indoor water inlet temperature of 12°C and water outlet temperature of 7°C.
- Heating capacities are based on outdoor air temperature of 7°C Dry Bulb (44.6°F Dry Bulb), 6°C Wet Bulb (42.8°F Wet Bulb) with controlled indoor water inlet temperature of 30°C and water outlet temperature of 35°C.
- Specification are subjected to change without prior notice for further improvement.
- Flow rate indicated are based on nominal capacity adjustment of leaving water temperature (LWT) 35°C and =5°C

*** The sound power level is measured with accordance to EN12102 under conditions of the EN14825.