

3.2 WH-MDC16J6R5

Item		Unit	Refrigerant System		
Performance Test Condition			EN 14511 / EN14825		
Cooling Capacity		Condition (Ambient/Water)	A35W7		
		kW	12.00		
		BTU/h	41000		
		kcal/h	10320		
Cooling EER		W/W	2.90		
		kcal/hW	2.49		
Heating Capacity		Condition (Ambient/Water)	A7W35	A2W35	
		kW	16.00	12.00	
		BTU/h	54600	41000	
		kcal/h	13760	10320	
Heating COP		W/W	4.57	3.53	
		kcal/hW	3.93	3.04	
Heating ErP	Low Temperature Application (W35)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	13.0	13.0	12.0
	Tbivalent / TOL	°C	2 / 2	-7 / -10	-15 / -22
	SCOP / ns	(W/W) / %	6.20 / 245	4.46 / 176	4.28 / 168
	Annual Consumption	kWh	2803	6018	6917
	Class		A+++	A+++	A++
	Medium Temperature Application (W55)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	10.0	13.0	12.0
	Tbivalent / TOL	°C	2 / 2	-3 / -10	-15 / -22
	SCOP / ns	(W/W) / %	4.30 / 169	3.40 / 133	3.10 / 121
	Annual Consumption	kWh	3104	7911	9556
	Class		A+++	A++	A++
Noise Level		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		dB (A)	Cooling: 52	Heating: 52	
		Power Level dB	Cooling: 69	Heating: 72**** Heating: 66***	
Air Flow		m³/min (ft³/min)	Cooling: 102.4 (3620) Heating: 85.3 (3011)		
Refrigeration Control Device			Expansion Valve		
Refrigeration Oil		cm³	FW50S (1200)		
Refrigerant (R32)		kg (oz)	1.60 (56.4)		
F-GAS	GWP		675		
	CO₂eq (ton) (Precharged / Maximum)		1.080 / -		
Compressor	Type		Hermetic Motor		
	Motor Type		Brushless (4-poles)		
	Rated Output	kW	3.00		

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: 680 (Top), 720 (Bottom) Heating: 550 (Top), 590 (Bottom)
Heat Exchanger	Fin material		Aluminium (Pre Coat)
	Fin Type		Corrugated Fin
	Row × Stage × FPI		2 × 51 × 19
	Size (W × H × L)	mm	38.1 × 1259.4 × 903.7:873.8

Item		Unit	Mono Bloc Unit		
Power Source (Phase, Voltage, Cycle)		ø	Single		
		V	230		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 4.14	Heating: 3.50	Heating: 3.40
Maximum Input Power For Heatpump System		kW	6.27		
Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			1Ø / 29.0 / 6.27k		
Power Supply 2 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			1Ø / 26.0 / 6.00k		
Power Supply 3 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			- / - / -		
Starting Current		A	19.1		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 19.1	Heating: 16.3	Heating: 15.7
Maximum Current For Heatpump System		A	29.0		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		%	Cooling: 94	Heating: 93	Heating: 94
Dimension	Height	mm (inch)	1410 (55-17/32)		
	Width	mm (inch)	1283 (50-17/32)		
	Depth	mm (inch)	320 (12-5/8)		
Net Weight		kg (lbs)	140 (309)		
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 -20°C) * ³ 20 ~ 60 (Ambient -15 ~ 0°C or Above Ambient 25°C) * ³ 20 ~ 65 (Ambient 5 ~ 20°C) * ³ * ⁴
Internal Pressure Differential		kPa	Cooling: 32.0 Heating: 46.0
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	145
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: 34.4 (2.1) Heating: 45.9 (2.8)
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	10
	MWP	bar	3
Capacity of Integrated Electric Heater		kW	6.00

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.
- **** The sound power level is measured with accordance to EN12102 : 2013 (full load).
- *³ Between outdoor ambient -10°C and -15°C, the water outlet temperature gradually decreases from 60°C to 55°C.
- *⁴ Only when ΔT is set to 15°C, the set temperature above 60°C will take effect.