

3. Specifications

3.1 WH-CME8L WH-WXG20ME8

Item		Unit	Outdoor Unit		
Performance Test Condition			EN14511 / EN14825		
Cooling Capacity	Condition (Ambient/Water)		A35W7		
	kW		15.00		
	BTU/h		51200		
Cooling EER	W/W		3.61		
Heating Capacity	Condition (Ambient/Water)		A7W35	A2W35	
	kW		20.00	20.00	
	BTU/h		68200	68200	
Heating COP	W/W		4.80	3.39	
Heating ErP	Low Temperature Application (W35)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	20.0	20.0	20.0
	Tbivalent / TOL	°C	2/2	-10/-10	-15/-22
	SCOP / ns	(W/W) / %	5.37/212	4.36/171	3.07/120
	Annual Consumption	kWh	4973	9483	16056
	Class		A+++	A++	A
	Medium Temperature Application (W55)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	20.0	20.0	20.0
	Tbivalent / TOL	°C	2/2	-10/-10	-15/-22
	SCOP / ns	(W/W) / %	4.07/160	3.59/141	2.57/100
	Annual Consumption	kWh	6557	11496	19167
	Class		A+++	A++	A+
Noise Level		dB(A) *1	Cooling: -		Heating: -
		Power Level dB *2	Cooling: 69		Heating: 64
		dB *3	-		Heating: 55
Air Flow	m³/min (ft³/min)		Cooling: 148 (5227) Heating: 98 (3461)		
Refrigeration Control Device			Expansion Valve		
Refrigeration Oil	cm³		PZ68S (1600)		
Refrigerant (R290) Precharge / Maximum	kg (oz)		3.00 (106) / (-)		
F-GAS	GWP		3		
	CO ₂ eq (ton) (Precharged / Maximum)		0.009 / (-)		
Dimension	Height	mm	1645		
	Width	mm	1500		
	Depth	mm	460		
Net Weight	kg		240		
Water Piping O/D	Outdoor Water Pipe Connector	(inch)	(1-1/2)		
Compressor	Type		Hermetic Motor Compressor (Involute Scroll)		
	Motor Type		Synchronous Electric Motor (6-poles)		
	Rated Output	kW	5.00		

Item		Unit	Outdoor Unit		
Fan	Type		Propeller Fan		
	Material		ASG20		
	Motor Type		DC (8-poles)		
	Input Power	W	-		
	Output Power	W	270×2		
	Fan Speed	rpm	Cooling: 520 Heating: 460		
Heat Exchanger	Fin material		Aluminium (Pre Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		3X62X17		
	Size (W × H × L)	mm	66 × 1574.8 × 1171/1136/1101		
Hot Water Coil	Type		Braze Plate		
	No. of Plates		72		
	Size (W × H × L)	mm	142.48X524X117		
	Water Flow Rate	l/min (m ³ /h)	Cooling: 43.0 (2.6) Heating: 57.3 (3.4)		
Pump	Motor Type		Brushless DC Motor (Sensorless vector control system)		
	No. of Speed		Variable speed		
	Input Power	W	230		
Flow Sensor	Type		Vortex (Piezoelectric sensor)		
	Measuring range	l/min	7 ~ 150		
Power Source (Phase, Voltage, Cycle)		Ø	Three		
		V	400		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 4.16	Heating: 4.17	Heating: 5.90
Maximum Input Power For Heatpump System		kW	15.1		
Outdoor Power Supply : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 24.0 / 15.1k		
Indoor Power Supply : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 28.0 / 18.5k		
Power Supply 3 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			- / - / -		
Starting Current		A	6.4		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 6.7	Heating: 7.0	Heating: 9.4
Maximum Current For Heatpump System		A	24.0		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		%	Cooling: 90	Heating: 86	Heating: 91
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		
Pressure Relief Valve Water Circuit		kPa	Open: 400 Close: 280 or higher		
Operation Range	Outdoor Ambient	°C (min. / max.)	Cooling: 10 / 43 Heating (Tank): -25 / 43 Heating (Circuit): -25 / 35		
	Water Outlet	°C (min. / max.)	Cooling: 7/20 Heating (Tank): - / 70 *5 Heating (Circuit): 25 / 55 (Below Ambient -20°C) *4 Heating (Circuit): 25 / 65 (Below Ambient -15°C) *4 Heating (Circuit): 25 / 70 (Below Ambient -7°C) Heating (Circuit): 25 / 75 (Below Ambient 15°C)		
Internal Pressure Differential		kPa	Cooling: 18.1 Heating: 27.8		

Item		Unit	Indoor Unit	
Performance Test Condition			EN14511 / EN14825	
Noise Level		dB(A) *1	Cooling: 22	Heating: 22
		Power Level dB *2	Cooling: 35	Heating: 35
Dimension	Height	mm	454	
	Width	mm	520	
	Depth	mm	116	
Net Weight		kg (lbs)	7(15)	

Note:

- * In case it is necessary to indicate the air flow volume in (l/s),the value in (m3/min.) shall be multiplied by 16.7 and rounded down the decimal point.
- * If the EUROVENT Certified models can be operated under the "extra-low" temperature condition, -7°C DB and -8°C WB temperature with rated voltage 230V shall be used.
- * Capacity is measured at outdoor temperature 7°C DB and 6°C WB with controlled water inlet 30°C and water outlet 35°C (EN 14511-2)
- * Flowrate indicated are based on nominal capacity adjustment of leaving water temperature (LWT) 35°C and $\Delta T=5^{\circ}\text{C}$.
- * EER and COP classification is at 230V only in accordance with EU directive 2003/32/EC.
- *1. The sound pressure level is measured with distance 1.0m from the unit and height at 1.5m. (Test carry out for cooling at ambient 35°C DB and Water Out 7°C, heating at ambient 7°C DB / 6°C WB and water out 55°C)
- *2. The sound power level is measured with accordance to EN12102 under full load conditions. (Test carry out for cooling at ambient 35°C DB and Water Out 7°C, heating at ambient 7°C DB / 6°C WB and water out 55°C)
- *3. The sound power level is measured with accordance to EN12102 under conditions of the EN14825.
- *4. Between outdoor ambient -15°C and -20°C, the water outlet temperature gradually decreases from 65°C to 55°C