

3.2 WH-SDC0309K3E5 WH-UDZ05KE5

Item		Unit	Outdoor Unit		
Performance Test Condition			EN 14511 / EN 14825		
Cooling Capacity	Condition (Ambient/Water)		A35W7		
	kW		5.00		
	BTU/h		17100		
	kcal/h		4300		
Cooling EER	W/W		3.05		
	kcal/hW		2.62		
Heating Capacity	Condition (Ambient/Water)		A7W35	A2W35	
	kW		5.00	5.00	
	BTU/h		17100	17100	
	kcal/h		4300	4300	
Heating COP	W/W		5.10	3.57	
	kcal/hW		4.35	3.07	
Heating ErP	Low Temperature Application (W35)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	5.0	5.0	6.0
	Tbivalent / TOL	°C	2 / 2	-10 / -10	-15 / -22
	SCOP / ns	(W/W) / %	6.00 / 237	5.12 / 202	4.08 / 160
	Annual Consumption	kWh	1113	2018	3625
	Class		A+++	A+++	A++
	Medium Temperature Application (W55)		Warmer	Average	Colder
	Application	Climate			
	Pdesign	kW	4.0	5.0	4.0
	Tbivalent / TOL	°C	2 / 2	-10 / -10	-15 / -22
	SCOP / ns	(W/W) / %	4.20 / 165	3.63 / 142	2.95 / 115
	Annual Consumption	kWh	1274	2849	3338
	Class		A+++	A++	A+
Noise Level	Condition (Ambient/Water)		A35W7	A7W35	A2W35
	dB (A) ***		Cooling: 49	Heating: 48	Heating: 48
	Power Level dB ***		Cooling: 62	Heating: 60	Heating: 60
	dB ****		-	Heating: 55	Heating: 55
Air Flow		m³/min (ft³/min)	Cooling: 55.0 (1942) Heating: 35.3 (1246)		
Refrigeration Control Device			Expansion Valve		
Refrigeration Oil		cm³	FW50S (600)		
Refrigerant (R32) Precharge / Maximum		kg (oz)	1.30 (45.9) / 2.30 (81.2)		
F-GAS	GWP		675		
	CO ₂ eq (ton) (Precharged / Maximum)		0.878 / 1.553		
Dimension	Height	mm (inch)	795 (31-10/32)		
	Width	mm (inch)	875 (34-15/32)		
	Depth	mm (inch)	320 (12-20/32)		
Net Weight		kg (lbs)	55 (121)		

Item		Unit	Outdoor Unit		
Pipe Diameter	Liquid	mm (inch)	6.35 (1/4)		
	Gas	mm (inch)	15.88 (5/8)		
Standard Length		m (ft)	7 (23.0)		
Pipe Length Range		m (ft)	50 (164.0)		
I/D & O/D Height Difference		m (ft)	30 (98.4)		
Additional Gas Amount		g/m (oz/ft)	25 (0.3)		
Refrigeration Charge Less		m (ft)	10 (32.8)		
Compressor	Type		Hermetic Motor		
	Motor Type		Brushless (6-poles)		
	Rated Output	kW	1.50		
Fan	Type		Propeller Fan		
	Material		PP		
	Motor Type		DC (8-poles)		
	Input Power	W	22W (Heating) / 27W (Cooling)		
	Output Power	W	60		
	Fan Speed	rpm	Cooling: 640 Heating: 520		
Heat Exchanger	Fin material		Aluminium (Blue Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		2 × 36 × 19		
	Size (W × H × L)	mm	36.38 × 756.0 × 868.8 : 897		
Power Source (Phase, Voltage, Cycle)		∅	Single		
		V	230		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 1.64	Heating: 0.98	Heating: 1.40
Maximum Input Power For Heatpump System		kW	3.36		
Power Supply 1 : Phase (∅) / Max. Current (A) / Max. Input Power (W)			1∅ / 14.9 / 3.36k		
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	4.4		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 7.3	Heating: 4.4	Heating: 6.3
Maximum Current For Heatpump System		A	14.9		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		%	Cooling: 98	Heating: 97	Heating: 97
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		

Item		Unit	Indoor Unit		
Performance Test Condition			EN 14511 / EN 14825		
Operation Range	Outdoor Ambient	°C	Cooling: 10 / 43 Heating: -20 ~ 35		
	Water Outlet	°C	Cooling: 5 / 20 Heating (Circuit): 20 / 55 (Below Ambient -15 °C) ** Heating (Circuit): 20 / 60 (Above Ambient -10 °C) **		
Internal Pressure Differential		kPa	Cooling: 10.0 Heating: 10.0		
Noise Level	Condition (Ambient/Water)		A35W7	A7W35	A2W35
	dB (A) ***		Cooling: 28	Heating: 28	Heating: 28
	Power Level dB ***		Cooling: 41	Heating: 41	Heating: 41
Dimension	Height	mm (inch)	892 (35-1/8)		
	Width	mm (inch)	500 (19-11/16)		
	Depth	mm (inch)	348 (13-23/32)		
Net Weight		kg (lbs)	40 (88)		
Refrigerant Pipe Diameter	Liquid	mm (inch)	6.35 (1/4)		
	Gas	mm (inch)	15.88 (5/8)		
Water Pipe Diameter	Inlet	mm (inch)	31.75 (1-1/4)		
	Outlet	mm (inch)	31.75 (1-1/4)		
Water Drain Hose Inner Diameter		mm (inch)	12 (17/36)		
Pump	Motor Type		Brushless DC Motor		
	Input Power	W	145		
Hot Water Coil	Type		Braze Plate		
	No. of Plates		36		
	Size (W × H × L)	mm	68 × 333 × 121		
	Water Flow Rate	l/min (m³/h)	Cooling: 9.2 (0.6) Heating: 9.2 (0.6)		
Pressure Relief Valve Water Circuit		kPa	Open: 300, Close: 210 and below		
Flow Switch			Electronic Sensor		
Protection Device		A	Residual Current Circuit Breaker (30 ~ 40)		
Expansion Vessel	Volume	l	10		
	MWP	bar	3		
Capacity of Integrated Electric Heater		kW	3.00		

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 ΔT=5°C.
- EER and COP classification is at 230V only in accordance with EU directive 2003/32/EC.
- ** Between outdoor ambient -10°C and -15°C, the water outlet temperature gradually decreases from 60°C to 55°C.
- *** 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)
- **** The sound power level is measured with accordance to EN12102 under conditions of the EN14825.