

### 3.5 WH-SDC0309K3E5 WH-UDZ07KE5

Item		Unit	Outdoor Unit		
Performance Test Condition			EN 14511 / EN 14825		
Cooling Capacity	Condition (Ambient/Water)		A35W7		
	kW		6.70		
	BTU/h		22800		
	kcal/h		5760		
Cooling EER	W/W		3.03		
	kcal/hW		2.61		
Heating Capacity	Condition (Ambient/Water)		A7W35	A2W35	
	kW		7.00	6.85	
	BTU/h		23900	23400	
	kcal/h		6020	5890	
Heating COP	W/W		4.86	3.43	
	kcal/hW		4.18	2.95	
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	7.0	6.0
	Tbivalent / TOL	°C	2 / 2	-7 / -10	-15 / -22
	SCOP / ns	(W/W) / %	4.07 / 160	36.2 / 142	2.98 / 116
	Annual Consumption	kWh	1971	3999	4967
	Class		A+++	A++	A+
	Noise Level	Condition (Ambient/Water)		A35W7	A7W35
dB (A) ***			Cooling: 50	Heating: 50	Heating: 50
Power Level dB ***			Cooling: 64	Heating: 62	Heating: 62
dB ****			-	Heating: 56	Heating: 56
Air Flow	m <sup>3</sup> /min (ft <sup>3</sup> /min)		Cooling: 55.0 (1942) Heating: 43.2 (1525)		
Refrigeration Control Device			Expansion Valve		
Refrigeration Oil	cm <sup>3</sup>		FW50S (600)		
Refrigerant (R32) Precharge / Maximum	kg (oz)		1.30 (45.9) / 2.30 (81.2)		
F-GAS	GWP		675		
	CO <sub>2</sub> 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)	3 (9.8) ~ 50 (164)		
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 (4-poles)		
	Rated Output	kW	1.50		
Fan	Type		Propeller Fan		
	Material		PP		
	Motor Type		DC (8-poles)		
	Input Power	W	-		
	Output Power	W	60		
	Fan Speed	rpm	Cooling: 670 Heating: 520		
Heat Exchanger	Fin material		Aluminium (Pre Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		2 × 36 × 19		
	Size (W × H × L)	mm	36.38 × 756.0 × 868.8 : 897.0		
Power Source (Phase, Voltage, Cycle)		∅	Single		
		V	230		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 2.21	Heating: 1.44	Heating: 2.00
Maximum Input Power For Heatpump System		kW	3.58		
Power Supply 1 : Phase (∅) / Max. Current (A) / Max. Input Power (W)			1∅ / 15.9 / 3.58k		
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	6.5		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 9.8	Heating: 6.5	Heating: 8.9
Maximum Current For Heatpump System		A	15.9		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		%	Cooling: 98	Heating: 96	Heating: 98
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		

Item		Unit	Indoor Unit		
Performance Test Condition			EN 14511 / EN14825		
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: 16.0 Heating: 18.0		
Noise Level	Condition (Ambient/Water)		A35W7	A7W35	A2W35
	dB (A) ***		Cooling: 30	Heating: 30	Heating: 30
	Power Level dB ***		Cooling: 43	Heating: 43	Heating: 43
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		Brazen Plate		
	No. of Plates		36		
	Size (W × H × L)	mm	68 × 333 × 121		
	Water Flow Rate	l/min (m <sup>3</sup> /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 (m<sup>3</sup>/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.