3. Specifications

3.1 WH-SDC09K3E8 WH-UDZ09KE8

	ltem	Unit	Outdoor Unit			
Performance Test	Condition		EN 14511 / EN14825			
		Condition (Ambient/Water)	A35W7			
Cooling Capacity		kW	8.80			
0 1 3		BTU/h	30000			
		kcal/h	7570			
		W/W	3.11			
Cooling EER		kcal/hW	2.67			
		Condition (Ambient/Water)	A7W35		A2W35	
Heating Capacity		kW	9.00		9.00	
		BTU/h	30700		30700	
		kcal/h	7740		7740	
Liesting COD		W/W	4.90		3.63	
Heating COP		kcal/hW	4.21		3.12	
	Low Temperature Appl	ication (W35)	144		a	
F	Application	Climate	Warmer	Average	Colder	
F	Pdesign	kW	9.0	9.0	10.0	
_	Tbivalent / TOL	°C	2/2	-10 / -10	-15 / -22	
_	SCOP / ns	(W/W) / %	6.47 / 256	4.96 / 195	4.31 / 169	
-	Annual Consumption	kWh	1859	3747	5725	
-	Class		A+++	A+++	A++	
Heating ErP	Medium Temperature Ap	plication (W55)		Average		
_	Application	Climate	Warmer		Colder	
	Pdesign	kW	9.0	9.0	8.0	
_	Tbivalent / TOL	°C	2/2	-10 / -10	-15 / -22	
_	SCOP / ns	(W/W) / %	4.34 / 171	3.57 / 140	3.26 / 127	
_	Annual Consumption	kWh	2772	5208	6057	
-	Class		A+++	A++	A++	
CidSS		Condition (Ambient/Water)	A35W7	A7W35	A2W35	
Noise Level		dB (A)	Cooling: 49	Heating: 51	Heating: 51	
		Power Level dB	Cooling: 67	Heating: 68 / 65	Heating: 68 / 65	
Air Flow		m ³ /min (ft ³ /min)	Cooling: 85.3 (3010) Heating: 64.9 (2290)			
Refrigeration Control Device			Expansion Valve			
Refrigeration Oil		cm ³	FW50S (1300)			
Refrigerant (R32)		kg (oz)	1.60 (56.5) Precharge amount 2.20 (77.7) Maximum amount			
F-GAS GW		WP	675			
. 0,10	CO ₂ eq (ton) (Precl	narged / Maximum)	1.080 / 1.485			
	Height	mm (inch)	1340 (52-25/32)			
Dimension	Width	mm (inch)	900 (35-14/32)			
Depth		mm (inch)	320 (11-24/32)			
Net Weight		kg (lbs)	90 (198)			
Liquid		mm (inch)	6.35 (1/4)			
Pipe Diameter	Gas	mm (inch)	12.70 (1/2)			

Ite	em	Unit	Outdoor Unit				
Standard Length		m (ft)	7 (23.0)				
Pipe Length Range		m (ft)	3 (9.8) ~ 30 (98.4)				
I/D & O/D Height Differenc	e	m (ft)	20 (65.6)				
Additional Gas Amount		g/m (oz/ft)	30 (0.3)				
Refrigeration Charge Less		m (ft)	10 (32.8)				
	Туре			Hermetic Motor			
Compressor	Motor Type		Synchronous Electric Motor (6-poles)				
P	Rated Output	kW	3.00				
	Туре		Propeller Fan				
	Material		PP				
	Motor Type		DC (8-poles)				
Fan	Input Power	W	-				
	Output Power	W	60				
	Fan Speed	rpm	Cooling: 630 (Top), 670 (Bottom) Heating: 440 (Top), 480 (Bottom)				
	Fin material		Aluminium (Pre Coat)				
the et Evel en eren	Fin Type		Corrugated Fin				
Heat Exchanger	Row × Stage × FPI		2 × 62 × 19				
	Size (W × H × L)	mm	903.7 × 1302 × 36.38				
		ø	Three				
Power Source (Phase, Vol	tage, Cycle)	V	400				
		Hz	50				
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35		
-			Cooling: 2.83	Heating: 1.84	Heating: 2.48		
Maximum Input Power For	Heatpump System	kW	6.60				
Power Supply 1 : Phase (&	ð) / Max. Current (A) / Max.	Input Power (W)	3Ø / 14.7 / 9.60k				
Power Supply 2 : Phase (&	ð) / Max. Current (A) / Max.	Input Power (W)	1Ø / 13.0 / 3.00k				
Power Supply 3 : Phase (@	ð) / Max. Current (A) / Max.	Input Power (W)	-/-/-				
Starting Current		A	2.9				
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35		
5		A	Cooling: 4.5	Heating: 2.9	Heating: 3.9		
Maximum Current For Heatpump System		A	10.4				
Power Factor Power factor means total figure of compressor and outdoor fan motor.		%	Cooling: 92	Heating: 93	Heating: 93		
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		
	Outdo	or Ambient	°C	Cooling: 10 / 43 ^{*1, *2} Heating: -25 / 35		
Operation Range	Wat	er Outlet	°C	Cooling: 5 / 20 ^{*1, *2} Heating: 20 / 55 (Below Ambient -15°C) ^{*3} 20 / 60 (Below Ambient -10°C) ^{*3}		
Internal Pressure Differential			kPa	Cooling: 27.0 Heating: 28.0		
			Condition (Ambient/Water)	A35W7	A7W35	A2W35
Noise Level	Noise Level		dB (A)	Cooling: 33	Heating: 33	Heating: 33
			Power Level dB	Cooling: 46	Heating: 46	Heating: 46
	ŀ	leight	mm (inch)	892 (35-1/8)		
Dimension	١	Nidth	mm (inch)	500 (19-11/16)		
	[Depth	mm (inch)	348 (13-23/32)		
Net Weight		kg (lbs)	40 (88)			
Refrigerant Pipe	L	₋iquid	mm (inch)	6.35 (1/4)		
Diameter		Gas	mm (inch)	12.70 (1/2)		
Water Dine Diameter	Inlet		mm (inch)	(1-1/4)		
Water Pipe Diameter	Outlet		mm (inch)	(1-1/4)		
Water Drain Hose Inner Diameter		mm (inch)	12 (17/36)			
	Motor Type			Brushless DC Motor		
Pump	No. of Speed			7 (Software Selection)		
	Input Power		W	145		
	Туре			Brazed Plate		
	No. of Plates			36		
Hot Water Coil	Size (W × H × L)		mm	120 x 376 x 66		
	Water Flow Rate		l/min (m³/h)	Cooling: 25.2 (1.5) Heating: 25.8 (1.5)		
Pressure Relief Valve Water Circuit		kPa	Open: 300, Close: 266 and below			
Flow Concer	Туре			Piezoelectric sensor		
Flow Sensor	Range		l/min	5 ~ 60		
Protection Device		A	Residual Current Circuit Breaker (30 ~ 40)			
Expansion Vessel		Volume	I	10		
Expansion vessei MV		MWP	bar	3		
Capacity of Integrated Ele	ectric Heater		kW	3.00		

Note:

- In case it is necessary to indicate the air flow volume in (I/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 occordance with EU directive 2003/32/EC.
- *** 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.
 *1 The system is locked to operate without COOL mode. It can be unlocked only by authorised installer or our authorised service partners.
- ^{*2} Only displayed when COOL mode is unlocked (This means when COOL mode is available).
- ^{*3} Between outdoor ambient -10°C and -15°C, the water outlet temperature gradually decreases from 60°C to 55°C.