

3.2 WH-ADC0912K9E83 WH-UXZ12KE8

Item		Unit	Outdoor Unit			
Performance Test Condition			EN14511 / EN14825			
Cooling Capacity	Condition (Ambient/Water)		A35W7			
	kW		10.70			
	BTU/h		36500			
Cooling EER	W/W		2.68			
Heating Capacity	Condition (Ambient/Water)		A7W35	A2W35		
	kW		12.10	12.00		
	BTU/h		41300	41000		
Heating COP	W/W		4.84	3.44		
Heating ErP	Low Temperature Application (W35)		Warmer	Average	Colder	
	Application	Climate				
	Pdesign	kW	9.0	12.0	11.0	
	Tbivalent / TOL	°C	2 / 2	-10 / -10	-15 / -22	
	SCOP / ns	(W/W) / %	6.47 / 256	4.58 / 180	4.31 / 169	
	Annual Consumption	kWh	1859	5416	6289	
	Class		A+++	A+++	A++	
	Medium Temperature Application (W55)		Warmer	Average	Colder	
	Application	Climate				
	Pdesign	kW	9.0	12.0	11.0	
	Tbivalent / TOL	°C	2 / 2	-10 / -10	-15 / -22	
	SCOP / ns	(W/W) / %	4.34 / 171	3.46 / 135	3.26 / 127	
	Annual Consumption	kWh	2772	7167	8327	
	Class		A+++	A++	A++	
	DHW		Warmer	Average	Colder	
	Application	Climate				
	COP / nwh	(W/W) / %	3.35 / 134	3.08 / 123	2.35 / 94	
	AEC	kWh	1231	1338	1750	
	Noise Level	Condition (Ambient/Water)		A35W7	A7W35	A2W35
		dB (A)		Cooling: 50	Heating: 52	Heating: 52
Power Level dB (A)			Cooling: 68	Heating: 69 Heating: 65	Heating: 69 Heating: 65	
Air Flow	m ³ /min (ft ³ /min)		Cooling: 94.6 (3340) Heating: 76.0 (2680)			
Refrigeration Control Device			Expansion Valve			
Refrigeration Oil	cm ³		FW50S (1300)			
Refrigerant (R32) Precharged / Maximum	kg (oz)		1.60 (56.5) / 2.20 (77.7)			
F-GAS	GWP		675			
	CO ₂ eq (ton) (Precharged / Maximum)		1.080 / 1.485			
Dimension	Height	mm (inch)	1340 (52-3/4)			
	Width	mm (inch)	900 (35-7/16)			
	Depth	mm (inch)	320 (12-19/32)			
Net Weight	kg (lbs)		90 (198)			
Pipe Diameter	Liquid	mm (inch)	6.35 (1/4)			
	Gas	mm (inch)	12.7 (1/2)			

Item		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 Difference		m (ft)	20 (65.6)		
Additional Gas Amount		g/m (oz/ft)	30 (0.3)		
Refrigeration Charge Less		m (ft)	10 (32.8)		
Compressor	Type		Hermetic Motor		
	Motor Type		Synchronous Electric Motor (6-poles)		
	Rated Output	kW	3.00		
Fan	Type		Propeller Fan		
	Material		PP		
	Motor Type		DC (8-poles)		
	Input Power	W	-		
	Output Power	W	60		
	Fan Speed	rpm	Cooling: 680 (Top), 720 (Bottom) Heating: 490 (Top), 530 (Bottom)		
Heat Exchanger	Fin material		Aluminium (Pre Coat)		
	Fin Type		Corrugated Fin		
	Row × Stage × FPI		2 × 62 × 19		
	Size (W × H × L)	mm	903.7 × 1302.0 × 36.38		
Power Source (Phase, Voltage, Cycle)		Ø	Three		
		V	400		
		Hz	50		
Input Power		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		kW	Cooling: 4.00	Heating: 2.50	Heating: 3.49
Maximum Input Power For Heatpump System		kW	7.60		
Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 11.8 / 7.60k		
Power Supply 2 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			3Ø / 13.0 / 9.00k		
Power Supply 3 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)			- / - / -		
Starting Current		A	4.0		
Running Current		Condition (Ambient/Water)	A35W7	A7W35	A2W35
		A	Cooling: 6.3	Heating: 4.0	Heating: 5.5
Maximum Current For Heatpump System		A	11.8		
Power Factor Power factor means total figure of compressor and outdoor fan motor.		%	Cooling: 93	Heating: 92	Heating: 93
Power Cord	Number of core		-		
	Length	m (ft)	-		
Thermostat			Electronic Control		
Protection Device			Electronic Control		

Item		Unit	Indoor Unit		
Performance Test Condition			EN14511 / EN14825		
Operation Range	Outdoor Ambient	°C (min. / max.)	Cooling (Circuit): 10 / 43 Heating (Tank/Circuit): -28 / 35		
	Water Outlet	°C (min. / max.)	Cooling: 5 / 20 Heating (Tank): - / 65* ³ , Heating Circuit: 20 / 55 (Below Ambient -15°C)** ⁴ Heating Circuit: 20 / 60 (Above Ambient -10°C)** ⁴		
Internal Pressure Differential		kPa	Cooling: 44.0 Heating: 55.0		
Noise Level	Condition (Ambient/Water)		A35W7	A7W35	A2W35
	dB (A)		Cooling: 33	Heating: 33	Heating: 33
	Power Level dB (A)		Cooling: 46	Heating: 46	Heating: 46
Dimension	Depth	mm (inch)	602 (23-45/64)		
	Width	mm (inch)	599 (23-37/64)		
	Height	mm (inch)	2036 (80-5/32)		
Net Weight		kg (lbs)	119 (262)		
Refrigerant Pipe Diameter	Liquid	mm (inch)	6.35 (1/4)		
	Gas	mm (inch)	12.7 (1/2)		
Water Pipe Diameter	Room	mm (inch)	31.75 (1-1/4)		
	Shower	mm (inch)	19.05 (3/4)		
Water Drain Hose Inner Diameter		mm (inch)	12.00 (17/36)		
Pump	Motor Type		Brushless DC Motor		
	No. of Speed		7 (Software Selection)		
	Input Power	W	145		
Hot Water Coil	Type		Braze Plate		
	No. of Plates		36		
	Size (W × H × L)	mm	68 × 333 × 121 or 68 × 376 × 119		
	Water Flow Rate	l/min (m ³ /h)	Cooling: 30.7 (1.8) Heating: 34.4 (2.1)		
Pressure Relief Valve Water Circuit		kPa	Open: 300, Close: 210 and below		
Flow Sensor	Type		Piezoelectric sensor		
	Range	l/min	5 ~ 60		
Pressure Release Valve		kPa	Open: 800, Close: 640 and below		
Protection Device		A	Earth Leakage Circuit Breaker (25 ~ 40)		
Expansion Vessel	Volume	l	10		
	MWP	bar	3.0		
Capacity of Integrated Electric Heater / OLP TEMP		kW / °C	9.00 / 80		
Tank Volume (Spec / Nett)		L	270 / 260		
Max. Tank Water Set Temperature		°C	65		
Tank Coil Surface		m ²	2.4		
Maximum Working Pressure	Heat / Cool	Bar	3.0		
	Tank Circuit	Bar	10.0		
Operating Pressure	Tank Unit	Bar	3.5		
	Expansion Relief Valve	Bar	8.0		
Expansion Vessel Pre-charge Pressure (DHW Circuit)		Bar	3.5		
Pressure Reducing Valve Set Pressure (DHW Circuit)		Bar	3.5		

Item		Unit	Indoor Unit
Pressure Vessel	Material		En-1.4521
	Volume	L	260
	Design Pressure	Bar	10
Heat Exchanger	Material		EN-1.4521
	Diameter	mm	22
	Thickness	mm	0.8
	Surface Area	m ²	2.4
	Total Length	m	34.5
DHW Tank	Total Corrosion ion (Chloride + Sulphate + Nitric)	mg/L	< 150
	Conductivity @ Water Tank Water Temperature < 60°C	µS/cm	< 1250
	Conductivity @ Water Tank Water Temperature < 65°C	µS/cm	< 1200
	Saturation Index (LSI) @ 20°C		> -4.0 / < 0.4
	PH		6.5 - 8.5

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.
- Specifications are subjected to change without prior notice for further improvement.
- *³ Above 55°C, only possible with backup heater operation.
- *⁴ Between outdoor ambient -10°C and -15°C, the water outlet temperature gradually decreases from 60°C to 55°C.
- It is recommended to follow DHW tank water quality limit for Panasonic Air to Water All in One according to Drinking Water Directive 98/83 EC
- 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.
- Flowrate indicated are based on nominal capacity adjustment of leaving water temperature (LWT) 35°C and ΔT=5°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 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)
- The sound power level is measured with accordance to EN12102 under conditions of the EN14825.
- EER and COP classification is at 230V only in accordance with EU directive 2003/32/EC.