3.3 WH-ADC0309K3E5 WH-UDZ07KE5

Item		Unit	Outdoor Unit			
Performance Test Condition				EN 14511		
			EN 14825			
Cooling Capacity		Condition (Ambient/Water)	A35W7			
		kW	6.70			
g		BTU/h	22800			
		kcal/h	5760			
Cooling EED		W/W	3.03			
Cooling EER		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	
Troduing COT		kcal/hW	4.18		2.95	
	Low Temperature Applicat	ion (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 Appl	lication (W55)	Warmer	Average	Colder	
Heating Erp	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	3.62 / 142	2.98 / 116	
	Annual Consumption	kWh	1971	3999	4967	
	Class		A+++	A++	A+	
	DHW		Warmer	Average	Colder	
	Application	Climate	· · · · · · · · · · · · · · · · · · ·			
	COP/nwh	(W/W)/%	4.00 / 160	3.50 / 140	2.80 / 112	
	AEC	kWh	630	720	900	
Noise Level		Condition (Ambient/Water)	A35W7	A7W35	A2W35	
		dB (A)	Cooling: 50***	Heating: 50***	Heating: 50***	
		Power Level dB	Cooling: 64***	Heating: 62*** Heating: 56****	Heating: 62*** Heating: 56***	
Air Flow		m³/min (ft³/min)	Cooling: 55.0 (1942) Heating: 43.2 (1525)			
Refrigeration Control Device			Expansion Valve			
Refrigeration Oil		cm ³	FW50S (600)			
Refrigerant		kg (oz)	R32, 1.30 (45.9) (Pre-charged) R32, 2.30 (81.2) (Maximum)			
F-GAS	GWP			675		
	CO₂eq (ton) (Precharged/N	CO ₂ eq (ton) (Precharged/Maximum)		0.878 / 1.553		

	Item	Unit		Outdoor Unit	
Dimension	Height	mm (inch)	795 (31-5/16)		
	Width	mm (inch)	875 (34-15/32)		
	Depth	mm (inch)	320 (12-5/8)		
Net Weight		kg (lbs)	55 (121)		
Liquid		mm (inch)	6.35 (1/4)		
Pipe Diameter	Gas	mm (inch)		15.88 (5/8)	
Standard Length		m (ft)	7 (23.0)		
Pipe Length Range		m (ft)	3 (9.8) ~ 50 (164.0)		
I/D & O/D Height Differe	nce	m (ft)	30 (98.4)		
Additional Gas Amount		g/m (oz/ft)	25 (0.3)		
Refrigeration Charge Le	SS	m (ft)	10 (32.8)		
	Туре		Hermetic Motor		
Compressor	Motor Type		Brushless (4-poles)		
	Rated Output	kW	1.50		
	Туре		Propeller Fan		
	Material		PP		
	Motor Type		DC (8-poles)		
Fan	Input Power	W	- (() () ()		
	Output Power	W	60		
	Fan Speed	rpm	Cooling: 670 Heating: 520		
	Fin material		Aluminium (Pre Coat)		
	Fin Type		Corrugated Fin		
Heat Exchanger	Row × Stage × FPI		2 x 36 x 19		
	Size (W × H × L)	mm	36.38 × 756.0 × 868.8:897.0		
1		Ø	Single		
Power Source (Phase, V	/oltage, Cycle)	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 F	or Heatpump System	kW	3.58		
Power Supply 1 : Phase (Ø) / Max. Current (A) / Max. Input Power (W)		Input Power (W)	1Ø / 15.9 / 3.58k		
Power Supply 2 : Phase	(Ø) / Max. Current (A) / Max.	Input Power (W)	1Ø / 13.0 / 3.00k		
Power Supply 3 : Phase	(Ø) / Max. Current (A) / Max.	Input Power (W)	-/-/-		
Starting Current		А	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		Condition (Ambient/Water)	A35W7	A7W35	A2W35
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			
			EN 14825			
Operation Range	Outdoor Ambient	°C (min./max.)	Cooling: 10 / 43 Heating (Tank): -25 / 35 Heating (Circuit): -25 / 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: 18.0 Heating: 19.0			
		Condition (Ambient/Water)	A35W7	A7W35	A2W35	
Noise Level		dB (A)	Cooling: 28***	Heating: 28***	Heating: 28***	
		Power Level dB	Cooling: 41***	Heating: 41***	Heating: 41***	
	Depth	mm (inch)	602 (23-45/64)			
Dimension	Width	mm (inch)	599 (23-37/64)			
	Height	mm (inch)	1642 (64-41/64)			
Net Weight		kg (lbs)		100 (221)		
Defiles and Direct Disease Asset	Liquid	mm (inch)	6.35 (1/4)			
Refrigerant Pipe Diameter	Gas	mm (inch)	15.88 (5/8)			
Matan Dina Diamatan	Room	mm (inch)	31 (1-1/4)			
Water Pipe Diameter	Shower	mm (inch)	19 (3/4)			
Water Drain Hose Inner Diameter		mm (inch)	12.00 (17/36)			
	Motor Type		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 x H x L)	mm	68 × 333 × 121			
	Water Flow Rate	l/min (m³/h)	Cooling: 19.2 (1.2) Heating: 20.1 (1.2)			
Pressure Relief Valve Water Circuit		kPa	Open: 300, Close: 210 and below			
Flow Sensor	Туре		Vortex (Piezoelectric sensor)		ensor)	
1 low ochsor	Measuring range	l/min	5 ~ 60			
Pressure Release Valve		kPa	Open: 800, Close: 640 and below			
Protection Device		A	Earth Leakage Circuit Breaker (30 ~ 40)			
Expansion Vessel	Volume	1	10			
	MWP	bar	3			
Capacity of Integrated Electric Heater / OLP TEMP		kW/°C	3.00 / 80			
Tank Volume (Spec / Nett)		L	200 / 185			
Max. Tank Water Set Temperature		°C	65			
Tank Coil Surface		m ²	1.8			
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-char		Bar	3.5			
Pressure Reducing Valve Set Pressure (DHW Circuit)		Bar	3.5			

Item		Unit	Indoor Unit
	Material		En-1.4521
Pressure Vessel	Volume	L	185
	Design Pressure	Bar	10
	Material		EN-1.4521
	Diameter	mm	22
Heat Exchanger	Thickness	mm	0.8
	Surface Area	m ²	1.8
	Total Length	m	25
	Total Corrosion ion (Chloride + Sulphate + Nitric)	mg/L	< 150
	Conductivity @ Water Tank Water Temperature < 60°C	μS/cm	< 1250
DHW Tank	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:

- 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.
- *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.
- *** The sound pressure and sound power 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.
- 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