

NEW Aquarea High Performance Bi-bloc K Generation Single phase. Heating and Cooling - SDC · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Long piping lengths / Built-in magnetic water filter.

Comfort: Operation without backup heating at -25 °C / 60 °C hot water even at -10 °C outside temperature.

Control: Optimised user interface and improved features [2 zone control, bivalent control].

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.



Tentative data

		Single phase [power to indoor]						
Kit 3 kW electric heater		KIT-WC03K3E5	KIT-WC05K3E5	KIT-WC07K3E5	KIT-WC09K3E5			
Kit 6 kW electric heater		KIT-WC03K6E5	KIT-WC05K6E5	KIT-WC07K6E5	KIT-WC09K6E5			
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	3,20/5,33	5,00/5,10	7,00/4,86	9,00/4,55			
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	3,20/2,81	5,00/3,03	7,00/2,92	8,90/2,93			
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	3,20/3,64	5,00/3,57	6,85/3,43	7,00/3,40			
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	3,20/2,19	5,00/2,29	6,25/2,23	6,30/2,18			
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	3,30/2,80	5,00/2,79	5,75/2,95	6,25/2,84			
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	3,20/1,79	5,00/1,89	5,35/1,98	5,90/1,93			
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	3,20/3,52	5,00/3,05	6,70/3,03	8,20/2,72			
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	3,20/4,71	5,00/4,90	6,70/4,72	9,00/4,18			
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η _s %)	5,07/3,47 (200/136)	5,12/3,63 (202/142)	4,90/3,62 (193/142)	4,44/3,41 (175/133)		
	Energy class ¹⁾		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++		
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η _s %)	6,20/4,20 (245/165)	6,00/4,20 (237/165)	5,75/4,07 (227/160)	5,75/4,07 (227/160)		
	Energy class ¹⁾		A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++		
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η _s %)	4,00/2,83 (157/110)	4,08/2,95 (160/115)	4,18/2,98 (164/116)	4,18/2,98 (164/116)		
	Energy class ¹⁾		A++ / A+	A++ / A+	A++ / A+	A++ / A+		
Indoor unit 3 kW electric heater		WH-SDC0309K3E5	WH-SDC0309K3E5	WH-SDC0309K3E5	WH-SDC0309K3E5			
Indoor unit 6 kW electric heater		WH-SDC0309K6E5	WH-SDC0309K6E5	WH-SDC0309K6E5	WH-SDC0309K6E5			
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	30/30	30/31		
Dimension	H x W x D	mm	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348	892 x 500 x 348		
Net weight		kg	—	—	—	—		
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼		
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed		
	Input power (Min/Max)	W	30/120	30/120	30/120	30/120		
Heating water flow (ΔT=5 K, 35 °C)		L/min	9,2	14,3	20,1	25,8		
Outdoor unit		WH-UDZ03KE5	WH-UDZ05KE5	WH-UDZ07KE5	WH-UDZ09KE5			
Sound power ²⁾	Heat	dB(A)	55	55	56	56		
Dimension	H x W x D	mm	622 x 824 x 298	795 x 875 x 320	795 x 875 x 320	795 x 875 x 320		
Net weight		kg	37	55	55	55		
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	1,3/0,878	1,3/0,878	1,3/0,878		
Piping diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)		
Pipe length range		m	3 ~ 25	3 ~ 40 [3 ~ 50] ³⁾	3 ~ 40 [3 ~ 50] ³⁾	3 ~ 40 [3 ~ 50] ³⁾		
Elevation difference (in / out)		m	20	30	30	30		
Pre-charged pipe length		m	10	10	10	10		
Additional gas amount		g/m	20	25	25	25		
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35		
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43		
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20		
Electrical information			3 kW heater	6 kW heater	3 kW heater	6 kW heater	3 kW heater	6 kW heater
Electric backup heater		kW	3,00	6,00	3,00	6,00	3,00	6,00
Recommended fuse		A	16/16	16/30	16/16	16/30	25/16	25/30
Recommended minimum cable size, supply 1 / 2 ⁴⁾		mm ²	3x1,5/3x1,5	3x1,5/3x4,0	3x1,5/3x1,5	3x1,5/3x4,0	3x2,5/3x1,5	3x2,5/3x4,0

1) Scale from A+++ to D. 2) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 3) Operation range down to -25 °C in heating with 3 ~ 40 m pipe length range, operation range down to -15 °C in heating with 3 ~ 50 m pipe length range. 4) Check local regulations. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility. *** Available Autumn 23.

Accessories	
CZ-RTW1	Additional remote controller for K and L Generations
PAW-TD20C1E5-1	Tank 200 L - Stainless steel
PAW-TD30C1E5-1	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WVYLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit for inside of hydrokit for K and L Generations

Accessories	
PAW-BTANK50L-2	Buffer tank 50 L
CZ-TAW1B	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B
CZ-NS5P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIREDLESS	Wireless LCD room thermostat



INTERNET CONTROL: Optional.