

Aquarea High Performance Bi-bloc K Series 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.



		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	KIT-WC12K6E5*			
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	12,10/4,78			
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	12,00/2,96			
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	11,50/3,44			
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	9,20/2,25			
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	10,10/2,74			
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	8,40/1,97			
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	10,70/2,68			
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	10,70/3,92			
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)	4,58/3,33(180/130)		
	Energy class ¹⁾		A+++ / A++	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)	6,47/4,34(256/171)		
	Energy class ¹⁾		A+++ / A+++	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)	4,31/3,26(169/127)		
	Energy class ¹⁾		A++ / A+	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	WH-SDC12K6E5			
Sound pressure	Heat / Cool	dB(A)		28/28	30/30	30/31	33/33		
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 3 kW / 6 kW		kg		40/41	40/41	40/41	41		
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	Variable speed		
	Input power	W		145	145	145	145		
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	WH-UDZ12KE5			
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 380	795 x 875 x 380	795 x 875 x 380		
Net weight		kg		37	55	55	88		
Refrigerant (R32) / CO ₂ Eq.		kg / T		0,9/0,608	1,3/0,878	1,3/0,878	1,6/1,080		
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	20		
Pre-charged pipe length		m		10	10	10	10		
Additional gas amount		g/m		20	25	25	30		
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 ⁴⁾	Heat / Cool	°C		20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20		
Electrical information		Heater	3 kW	6 kW	3 kW	6 kW	3 kW	6 kW	6 kW
Electric backup heater		kW	3,00	6,00	3,00	6,00	3,00	6,00	6,00
Recommended fuse		A	16/16	16/30	16/16	16/30	25/16	25/30	30/30
Recommended minimum cable size, supply 1 / 2 ⁵⁾		mm ²	3x1,5/ 3x1,5	3x1,5/ 3x4,0	3x1,5/ 3x1,5	3x1,5/ 3x4,0	3x2,5/ 3x4,0	3x2,5/ 3x4,0	3x4,0/3x4,0

1) Scale from A+++ to D. 2) Sound power level in accordance to EN12102 under conditions of the EN14825. 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) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 5) Check local regulations. * Available in Summer 2024. Tentative data. ** EER and COP classification is at 230 V only in accordance with EU directive 2003/32/EC. *** This product is designed to comply with the European drinking water standard (EU) 2020/2184. 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.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
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-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series

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	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



INTERNET CONTROL: Optional.

NEW Aquarea High Performance Bi-bloc K Series Three phase. Heating and Cooling - SDC - R32

Energy efficiency: 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.



				Three phase (power to indoor)							
Kit 3 kW electric heater		KIT-WC09K3E8*		—		—					
Kit 9 kW electric heater		KIT-WC09K9E8*		KIT-WC12K9E8*		KIT-WC16K9E8*					
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP		9,00 / 4,90		12,10 / 4,78		16,00 / 4,31			
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP		9,00 / 2,97		12,00 / 2,96		14,70 / 2,72			
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP		9,00 / 3,63		11,50 / 3,44		13,20 / 3,28			
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP		9,00 / 2,26		9,20 / 2,25		10,00 / 2,21			
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP		9,00 / 2,88		10,10 / 2,74		11,60 / 2,57			
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP		8,10 / 2,07		8,40 / 1,97		9,10 / 1,85			
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER		8,80 / 3,11		10,70 / 2,68		13,40 / 2,64			
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER		8,80 / 4,63		10,70 / 3,92		15,50 / 3,60			
Heating average climate (W 35 °C / W 55 °C)		Seasonal energy efficiency		SCOP (η _s %)		4,96 / 3,57 (195 / 140)		4,58 / 3,33 (180 / 130)		4,46 / 3,40 (176 / 133)	
		Energy class ¹⁾		A+++ to D		A+++ / A++		A+++ / A++		A+++ / A++	
Heating warm climate (W 35 °C / W 55 °C)		Seasonal energy efficiency		SCOP (η _s %)		6,47 / 4,34 (256 / 171)		6,47 / 4,34 (256 / 171)		6,20 / 4,30 (245 / 169)	
		Energy class ¹⁾		A+++ to D		A+++ / A+++		A+++ / A+++		A+++ / A+++	
Heating cold climate (W 35 °C / W 55 °C)		Seasonal energy efficiency		SCOP (η _s %)		4,31 / 3,26 (169 / 127)		4,31 / 3,26 (169 / 127)		4,28 / 3,10 (168 / 121)	
		Energy class ¹⁾		A+++ to D		A++ / A++		A++ / A++		A++ / A+	
Indoor unit 3 kW electric heater		WH-SDC09K3E8		—		—		—		—	
Indoor unit 9 kW electric heater		WH-SDC09K9E8		WH-SDC12K9E8		WH-SDC16K9E8		WH-SDC16K9E8		WH-SDC16K9E8	
Sound pressure		Heat / Cool		dB(A)		33 / 33		33 / 33		33 / 33	
Dimension		H x W x D		mm		892 x 500 x 348		892 x 500 x 348		892 x 500 x 348	
Net weight 3 kW / 9 kW				kg		40 / 41		— / 41		— / 41	
Water pipe connector				Inch		R 1¼		R 1¼		R 1¼	
A class pump		Number of speeds		Variable speed		Variable speed		Variable speed		Variable speed	
		Input power		W		145		145		145	
Heating water flow (ΔT=5 K, 35 °C)				L/min		25,8		34,4		45,9	
Outdoor unit		WH-UDZ09KE8		WH-UDZ12KE8		WH-UDZ16KE8		WH-UDZ16KE8		WH-UDZ16KE8	
Sound power ²⁾		Heat		dB(A)		65		65		65	
Dimension		H x W x D		mm		1340 x 900 x 320		1340 x 900 x 320		1340 x 900 x 320	
Net weight				kg		90		90		103	
Refrigerant (R32) / CO ₂ Eq.				kg / T		1,60 / 1,080		1,60 / 1,080		1,83 / 1,235	
Piping diameter		Liquid / Gas		Inch (mm)		1/4 (6,35) / 1/2 (12,70)		1/4 (6,35) / 1/2 (12,70)		1/4 (6,35) / 1/2 (12,70)	
Pipe length range				m		3 - 30		3 - 30		3 - 30	
Elevation difference (in / out)				m		20		20		20	
Pre-charged pipe length				m		10		10		10	
Additional gas amount				g/m		30		30		30	
Operating range - outdoor ambient		Heat		°C		-25 ~ +35		-25 ~ +35		-25 ~ +35	
		Cool		°C		+10 ~ +43		+10 ~ +43		+10 ~ +43	
Water outlet ³⁾		Heat / Cool		°C		20 ~ 60 / 5 ~ 20		20 ~ 60 / 5 ~ 20		20 ~ 60 / 5 ~ 20	
Electrical information				3 kW heater		9 kW heater		9 kW heater		9 kW heater	
Electric backup heater				kW		3,00		9,00		9,00	
Recommended fuse				A		20 / 15 / 16		20 / 20		20 / 20	
Recommended minimum cable size, supply 1 / 2 ⁴⁾				mm ²		5x1,5 / 3x1,5		5x1,5 / 5x1,5		5x1,5 / 5x1,5	

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PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW tanks
CZ-NV2	3 way valve kit to fit inside the hydrokit. K and L Series

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	PCB for advanced functions
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIREDLESS	Wireless LCD room thermostat



INTERNET CONTROL: Optional.