Aquarea High Performance Bi-bloc K Series. Single phase - SDC - R32

Energy efficiency: A+++ heating at 35 °C / COP up to 5,33 / "A"-rated variable-speed pump.
Flexibility: Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

Check all our certified heat pumps on:
www.heatpumpkeymark.com



A++ ERP 55 °C A+++ TO D
A+++ ERP 35 °C A+++ TO D
Optional

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**	**KIT-WC16K6E5**
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	16,00 / 4,31
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	14,70 / 2,72
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	13,00 / 3,18
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	10,00 / 2,24
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	11,70 / 2,61
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	9,10 / 1,85
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	12,20 / 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	13,00 / 3,80
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)	4,46/3,40 (176/133)
	Energy class [1]	A+++ to D	A+++ / A++	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)	6,20/4,30 (245/169)
	Energy class [1]	A+++ to D	A+++ / A+++	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)	4,28/3,10 (168/121)
	Energy class [1]	A+++ to D	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A++	A++ / A+
Indoor unit 3 kW electric heater		**WH-**	**SDC0309K3E5**	**SDC0309K3E5**	**SDC0309K3E5**	**SDC0309K3E5**	—	—
Indoor unit 6 kW electric heater		**WH-**	**SDC0309K6E5**	**SDC0309K6E5**	**SDC0309K6E5**	**SDC0309K6E5**	**SDC12K6E5**	**SDC16K6E5**
Sound pressure	Heat / Cool	dB(A)	28 / 28	28 / 28	30 / 30	30 / 31	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	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	40 / 41	41	41
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed	Variable speed	Variable speed	Variable speed
	Input power	W	145	145	145	145	145	145
Heating water flow (ΔT=5 K. 35 °C)		L/min	9,2	14,3	20,1	25,8	34,4	45,8
Outdoor unit			**WH-UDZ03KE5**	**WH-UDZ05KE5**	**WH-UDZ07KE5**	**WH-UDZ09KE5**	**WH-UDZ12KE5**	**WH-UDZ16KE5**
Sound power [2]	Heat	dB(A)	55	55	56	56	65	65
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	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg	37	55	55	55	88	88
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9 / 0,608	1,3 / 0,878	1,3 / 0,878	1,3 / 0,878	1,6 / 1,080	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)	1/4(6,35)/1/2(12,70)	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]	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	20	30	30	30	20	20
Pre-charged pipe length		m	10	10	10	10	10	10
Additional gas amount		g/m	20	25	25	25	30	30
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+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	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Electrical information	**Heater**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**3 kW**	**6 kW**	**6 kW**	**6 kW**
Electric backup heater	kW	3,00	6,00	3,00	6,00	3,00	6,00	3,00	6,00	6,00	6,00
Recommended fuse [5]	A	16 / 16	16 / 30	16 / 16	16 / 30	25 / 16	25 / 30	25 / 16	25 / 30	30 / 30	30 / 30
Recommended minimum cable size, supply 1 / 2 [5]	mm²	3x1,5 / 3x1,5	3x1,5 / 3x4,0	3x1,5 / 3x1,5	3x1,5 / 3x4,0	3x2,5 / 3x1,5	3x2,5 / 3x4,0	3x2,5 / 3x1,5	3x2,5 / 3x4,0	3x4,0 / 3x4,0	3x4,0 / 3x4,0

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 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. *EER and COP calculation is based in accordance to EN 14511. **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	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
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

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,33 COP HIGH PERFORMANCE | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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A++ ERP 55 °C A+++ TO D

A+++ ERP 35 °C A+++ TO D

Optional

Aquarea High Performance Bi-bloc K Series. Three phase - SDC · R32

Energy efficiency: A+++ heating at 35 °C / "A"-rated variable-speed pump.
Flexibility: Built-in magnetic water filter.
Comfort: Operation without backup heater down to -25 °C / 60 °C flow temperature at -10 °C.
Control: Optimised user interface and improved features (2 zone control, bivalent control).
Connectivity: Optional Wi-Fi and BMS integration.

			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**
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
	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**
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	9,00
Recommended fuse [4]	A	20 / 15 / 16	20 / 20	20 / 20	20 / 20
Recommended minimum cable size, supply 1 / 2 [4]	mm²	5x1,5 / 3x1,5	5x1,5 / 5x1,5	5x1,5 / 5x1,5	5x2,5 / 5x1,5

1) Scale from A+++ to D. 2) Sound power level in accordance to EN 12102 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) Check local regulations. *EER and COP calculation is based in accordance to EN 14511. **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.

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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	Optional Wi-Fi or WLAN adapter for smart control via Comfort Cloud App and/or remote maintenance via Aquarea Service Cloud
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

R32 REFRIGERANT | A++ ErP 55 °C | A+++ ErP 35 °C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -25 °C HEATING MODE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY