

Aquarea High Performance All in One K Series Single phase. Heating and Cooling · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / DHW COP up to 3,50.

Flexibility: 598 x 600 footprint / Easy access to hydraulic parts / 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-ADC03K3E5	KIT-ADC05K3E5	KIT-ADC07K3E5	KIT-ADC09K3E5	—			
Kit 6 kW electric heater		KIT-ADC03K6E5	KIT-ADC05K6E5	KIT-ADC07K6E5	KIT-ADC09K6E5	KIT-ADC12K6E5*			
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+++ to D	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+++ to D	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+++ to D	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A++		
Indoor unit 3 kW electric heater		WH-ADC0309K3E5	WH-ADC0309K3E5	WH-ADC0309K3E5	WH-ADC0309K3E5	—			
Indoor unit 6 kW electric heater		WH-ADC0309K6E5	WH-ADC0309K6E5	WH-ADC0309K6E5	WH-ADC0309K6E5	WH-ADC0912K6E5			
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28	33/33		
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602		
Net weight 3 kW / 6 kW		kg	100/101	100/101	100/101	100/101	—/101		
Water pipe connector		Inch	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		
	Input power	W	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		
Water volume		L	185	185	185	185	185		
Maximum DHW temperature		°C	65	65	65	65	65		
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel		
Tapping profile according EN16147			L	L	L	L	L		
DHW tank ERP efficiency average / warm / cold ²⁾	A+ to F	A+ / A++ / A	A+ / A++ / A	A+ / A++ / A	A+ / A++ / A	A+ / A++ / A	A+ / A / A		
DHW tank ERP average climate η / COPdHW	η _{wh} % / COPdHW	128/3,20	140/3,50	140/3,50	140/3,50	100/2,50	100/2,50		
DHW tank ERP warm climate η / COPdHW	η _{wh} % / COPdHW	154/3,86	160/4,00	160/4,00	160/4,00	116/2,90	116/2,90		
DHW tank ERP cold climate η / COPdHW	η _{wh} % / COPdHW	99/2,48	112/2,80	112/2,80	112/2,80	80/2,00	80/2,00		
Outdoor unit		WH-UDZ03KE5	WH-UDZ05KE5	WH-UDZ07KE5	WH-UDZ09KE5	WH-UDZ12KE5			
Sound power ³⁾	Heat	dB(A)	55	55	56	56	65		
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298 / 37	795 x 875 x 380 / 55	795 x 875 x 380 / 55	795 x 875 x 380 / 55	1340 x 900 x 320 / 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		
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(12,7)		
Pipe length range / Elevation difference (in / out)	m / m		3-25/20	3-40(3-50) ⁴⁾ / 30	3-40(3-50) ⁴⁾ / 30	3-40(3-50) ⁴⁾ / 30	3-30(3-50) ⁴⁾ / 20(30) ⁵⁾		
Pre-charged pipe length / Additional gas amount	m / g/m		10/20	10/25	10/25	10/25	10/30		
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35	-25 ~ +35		
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43		
Water outlet ⁶⁾	Heat / Cool	°C	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	6 kW
Electric backup heater	kW	3,00	6,00	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	25/16	25/30
Recommended minimum cable size, supply 1 / 2 ⁷⁾	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	3x2,5/ 3x4,0	3x4,0/3x4,0

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN12102 under conditions of the EN14825. 4) 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. 5) Ambient temperature down to -10 °C. Below -10 °C, permitted piping length and elevation difference is 3-30 m, 20 m. 6) Between outdoor ambient -10 °C and -15 °C, the water outlet temperature gradually decreases from 60 °C to 55 °C. 7) 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
CZ-TAW1B	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN

Accessories	
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.

NEW Aquarea High Performance All in One K Series Three phase. Heating and Cooling - R32

Energy efficiency: A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel.

Flexibility: 598 x 600 footprint / Easy access to hydraulic parts / 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.



New
2024



Three phase (power to indoor)					
Kit			KIT-ADC09K9E8	KIT-ADC12K9E8	KIT-ADC16K9E8
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+++/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+++/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++/A++	A++/A++	A++/A+
Indoor unit			WH-ADC0912K9E8	WH-ADC0912K9E8	WH-ADC16K9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	HxWxD	mm	1642x599x602	1642x599x602	1642x599x602
Net weight 3 kW / 6 kW		kg	102	102	103
Water pipe connector		Inch	R 1½	R 1½	R 1½
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
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average / warm / cold ²⁾		A+ to F	A/A+/A	A/A+/A	A/A+/A
DHW tank ERP average climate η / COPdHW		η _{wh} %/COPdHW	100/2,50	100/2,50	96/2,40
DHW tank ERP warm climate η / COPdHW		η _{wh} %/COPdHW	116/2,90	116/2,90	115/2,88
DHW tank ERP cold climate η / COPdHW		η _{wh} %/COPdHW	80/2,00	80/2,00	76/1,90
Outdoor unit			WH-UDZ09KE8	WH-UDZ12KE8	WH-UDZ16KE8
Sound power ³⁾	Heat	dB(A)	65	65	65
Dimension / Net weight	HxWxD	mm / kg	1340x900x320/90	1340x900x320/90	1340x900x320/103
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 / Elevation difference (in / out)		m / m	3~30/20	3~30/20	3~30/20
Pre-charged pipe length / Additional gas amount		m / g/m	10/30	10/30	10/30
Operating range - outdoor ambient	Heat	°C	-25~+35	-25~+35	-25~+35
	Cool	°C	+10~+43	+10~+43	+10~+43
Water outlet ⁴⁾	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20
Electrical information			WH-ADC0912K9E8	WH-ADC0912K9E8	WH-ADC16K9E8
Electric backup heater		kW	9,00	9,00	9,00
Recommended fuse		A	20/20	20/20	20/20
Recommended minimum cable size, supply 1 / 2 ⁵⁾		mm ²	5x1,5/5x1,5	5x1,5/5x1,5	5x2,5/5x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power level in accordance to EN12102 under conditions of the EN14825. 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 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. *** Available in Summer 2024. Tentative data.

Accessories	
CZ-RTW1	Optional remote controller for 2 zone control. K and L Series
CZ-TAW1B	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN

Accessories	
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.

Aquarea High Performance All in One K Series Single phase. Heating and Cooling 2 zones - R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / DHW COP up to 3,50.

Flexibility: 598 x 600 footprint / Easy access to hydraulic parts / Built-in magnetic water filter / 2 zone control.

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		KIT-ADC03K3E5B	KIT-ADC05K3E5B	KIT-ADC07K3E5B	KIT-ADC09K3E5B
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+++ to D	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+++ to D	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+++ to D	A++/A+	A++/A+	A++/A+
Indoor unit		WH-ADC0309K3E5B	WH-ADC0309K3E5B	WH-ADC0309K3E5B	WH-ADC0309K3E5B
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28
Dimension	H x W x D	mm	1642 x 599 x 602	1642 x 599 x 602	1642 x 599 x 602
Net weight		kg	109	109	109
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable speed	Variable speed	Variable speed
	Input power (Min/Max)	W	30/120	30/120	30/120
Heating water flow (ΔT=5 K, 35 °C)		L/min	9,2	14,3	20,1
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147		L	L	L	L
DHW tank ERP efficiency average / warm / cold ²⁾		A+ to F	A+/A++/A	A+/A++/A	A+/A++/A
DHW tank ERP average climate η / COP _{DHW}	η _{wh} % / COP _{DHW}		128/3,20	140/3,50	140/3,50
DHW tank ERP warm climate η / COP _{DHW}	η _{wh} % / COP _{DHW}		154/3,86	160/4,00	160/4,00
DHW tank ERP cold climate η / COP _{DHW}	η _{wh} % / COP _{DHW}		99/2,48	112/2,80	112/2,80
Outdoor unit		WH-UDZ03KE5	WH-UDZ05KE5	WH-UDZ07KE5	WH-UDZ09KE5
Sound power ³⁾	Heat	dB(A)	55	55	56
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298 / 37	795 x 875 x 380 / 55	795 x 875 x 380 / 55
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	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)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 25 / 20	3 ~ 40 [3 ~ 50] ⁴⁾ / 30	3 ~ 40 [3 ~ 50] ⁴⁾ / 30
Pre-charged pipe length / Additional gas amount		m / g/m	10 / 20	10 / 25	10 / 25
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-25 ~ +35	-25 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20
Electrical information		WH-ADC0309K3E5B	WH-ADC0309K3E5B	WH-ADC0309K3E5B	WH-ADC0309K3E5B
Electric backup heater		kW	3,00	3,00	3,00
Recommended fuse		A	16/16	16/16	25/16
Recommended minimum cable size, supply 1 / 2 ⁵⁾		mm ²	3x1,5/3x1,5	3x1,5/3x1,5	3x2,5/3x1,5

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 4) 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. 5) Check local regulations. * EER and COP calculation is based in accordance to EN14511. ** 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
CZ-TAW1B	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN

Accessories	
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.