

Aquarea High Performance All in One Compact H Series Single phase. Heating and Cooling - R410A

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 / Built-in flow meter.

Flexibility: 598 x 600 footprint / Built-in magnetic water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

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

011-1W0515



Single phase (power to indoor)					
Kit		KIT-ADC12HE5C		KIT-ADC16HE5C	
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP		12,00/4,74	
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP		12,00/2,93	
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP		11,40/3,44	
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP		9,10/2,20	
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP		10,00/2,73	
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP		8,20/1,92	
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER		10,00/2,81	
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER		10,00/4,17	
Heating average climate (W 35 °C / W 55 °C)		Seasonal energy efficiency SCOP (η _s %)		4,82/3,42(190/134)	
		Energy class ¹⁾		A+++ to D	
Heating warm climate (W 35 °C / W 55 °C)		Seasonal energy efficiency SCOP (η _s %)		6,21/4,05(245/159)	
		Energy class ¹⁾		A+++ to D	
Heating cold climate (W 35 °C / W 55 °C)		Seasonal energy efficiency SCOP (η _s %)		4,29/3,10(168/121)	
		Energy class ¹⁾		A+++ to D	
Indoor unit		WH-ADC1216H6E5C		WH-ADC1216H6E5C	
Sound pressure		Heat / Cool		dB(A)	
				33/33	
Dimension		HxWxD		mm	
				1642x599x602	
Net weight				kg	
				101	
Water pipe connector				Inch	
				R 1¼	
A class pump		Number of speeds		Variable speed	
		Input power (Min/Max)		W	
				—/—	
Heating water flow (ΔT=5 K, 35 °C)				L/min	
				34,40	
Electric backup heater				kW	
				6,00	
Recommended fuse				A	
				—/—	
Recommended minimum cable size, supply 1 / 2 ²⁾				mm ²	
				—/—	
Water volume				L	
				185	
Maximum DHW temperature				°C	
				65	
Material inside tank					
				Stainless steel	
Tapping profile according EN16147					
				—	
DHW tank ERP efficiency average / warm / cold ³⁾				A+ to F	
				—/—/—	
DHW tank ERP average climate η / COPdHW				η _{wh} % / COPdHW	
				92/2,30	
DHW tank ERP warm climate η / COPdHW				η _{wh} % / COPdHW	
				107/2,67	
DHW tank ERP cold climate η / COPdHW				η _{wh} % / COPdHW	
				72/1,81	
Outdoor unit		WH-UD12HE5		WH-UD16HE5	
Sound power ⁴⁾				dB(A)	
				65	
Dimension / Net weight		HxWxD		mm / kg	
				1340x900x320/101	
Refrigerant (R410A) / CO ₂ Eq.				kg / T	
				2,55/5,324	
Piping diameter		Liquid / Gas		Inch (mm)	
				3/8 (9,52)/5/8 (15,88)	
Pipe length range / Elevation difference (in / out)				m / m	
				3 - 50/30	
Pre-charged pipe length / Additional gas amount				m / g/m	
				10/50	
Operating range - outdoor ambient		Heat		°C	
		Cool		°C	
				-20 ~ +35	
				+16 ~ +43	
Water outlet		Heat / Cool		°C	
				20 ~ 55/5 ~ 20	

1) Scale from A+++ to D. 2) Check local regulations. 3) Scale from A+ to F. 4) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * 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-TAW1B	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1B

Accessories	
CZ-NS4P	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 H Series Three phase. Heating and Cooling · R410A

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 / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

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



Kit		Three phase (power to indoor)			
		KIT-ADC09HE8	KIT-ADC12HE8	KIT-ADC16HE8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	16,00/4,28	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,93	14,50/2,72	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,59	11,40/3,44	13,00/3,28	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	8,80/2,23	9,10/2,23	9,80/2,21	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,85	10,00/2,73	11,40/2,57	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	7,90/2,05	8,20/1,95	9,00/1,85	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,85	12,20/2,56	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	7,00/4,67	10,00/4,26	12,20/4,12	
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	SCOP (η _s %)	4,81/3,41(190/133)	4,82/3,42(190/134)	4,82/3,33(190/130)
	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 %)	6,21/4,05(245/159)	6,21/4,05(245/159)	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 %)	4,28/3,10(168/121)	4,29/3,10(168/121)	4,28/3,10(168/121)
	Energy class ¹⁾	A+++ to D	A++/A+	A++/A+	A++/A+
Indoor unit		WH-ADC0916H9E8	WH-ADC0916H9E8	WH-ADC0916H9E8	
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	HxWxD	mm	1800x598x717	1800x598x717	1800x598x717
Net weight		kg	126	126	126
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	36/152	36/152	36/152
Heating water flow (ΔT=5 K, 35 °C)		L/min	25,8	34,4	45,9
Electric backup heater		kW	9,00	9,00	9,00
Recommended fuse		A	16/16	16/16	16/16
Recommended minimum cable size, supply 1 / 2 ²⁾		mm ²	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
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 ³⁾	A+ to F	A/A/A	A/A/A	A/A/B	A/A/B
DHW tank ERP average climate η / COPdHW	η _{wh} % / COPdHW	95/2,37	95/2,37	91/2,27	91/2,27
DHW tank ERP warm climate η / COPdHW	η _{wh} % / COPdHW	110/2,75	110/2,75	107/2,67	107/2,67
DHW tank ERP cold climate η / COPdHW	η _{wh} % / COPdHW	75/1,87	75/1,87	72/1,80	72/1,80
Outdoor unit		WH-UD09HE8	WH-UD12HE8	WH-UD16HE8	
Sound power ⁴⁾	Heat	dB(A)	65	65	65
Dimension / Net weight	HxWxD	mm / kg	1340x900x320/107	1340x900x320/107	1340x900x320/107
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,55/5,324	2,55/5,324	2,55/5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
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	10/50	10/50	10/50
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20

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