

Aquarea High Performance Bi-bloc H Generation Single Phase. Heating and Cooling - SDC • R410A Gas



**GOOD
DESIGN
AWARD
2017**



Technical focus

- Very high energy savings A+++ (*) • Simple installation & maintenance • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -20°C • Automatic Air purge valve • Display of the compressor frequency



ErP 55°C
Scale from A++ to G



ErP 35°C
Scale from A++ to G



CZ-TAW1

Cloud connection. For user control and installer remote maintenance.

			Single Phase Heating and Cooling			
Kit			KIT-WC03H3E5	KIT-WC05H3E5	KIT-WC07H3E5	KIT-WC09H3E5
Heating capacity / COP [A +7°C, W 35°C]		kW / COP	3,20/5,00	5,00/4,63	7,00/4,46	9,00/4,13
Heating capacity / COP [A +7°C, W 55°C]		kW / COP	3,20/2,67	5,00/2,65	6,80/2,63	8,90/2,41
Heating capacity / COP [A +2°C, W 35°C]		kW / COP	3,20/3,56	4,20/3,11	6,55/3,34	6,70/3,13
Heating capacity / COP [A +2°C, W 55°C]		kW / COP	3,20/2,15	4,10/1,98	6,00/1,99	6,00/1,99
Heating capacity / COP [A -7°C, W 35°C]		kW / COP	3,20/2,69	4,20/2,59	5,15/2,68	5,90/2,52
Heating capacity / COP [A -7°C, W 55°C]		kW / COP	3,20/1,72	3,55/1,71	4,80/1,89	5,80/1,88
Cooling capacity / EER [A 35°C, W 7°C]		kW / EER	3,20/3,08	4,50/2,69	6,00/2,63	7,00/2,43
Cooling capacity / EER [A 35°C, W 18°C]		kW / EER	3,30/3,75	5,00/3,76	6,00/3,57	7,00/3,26
Seasonal energy efficiency - Heating Average Climate [W35°C / W55°C]		ETA %	195/130	195/130	190/130	190/130
		SCOP	4,95/3,33	4,95/3,33	4,83/3,33	4,83/3,33
Energy Class Heating Average Climate [W35°C / W55°C] ¹⁾		A++ to G	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Average Climate [W35°C / W55°C] ¹⁾		A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Seasonal energy efficiency - Heating Warm Climate [W35°C / W55°C]		ETA %	244/163	244/163	225/160	225/160
		SCOP	6,18/4,15	6,18/4,15	5,70/4,08	5,70/4,08
Energy Class Heating Warm Climate [W35°C / W55°C]		A++ to G	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Warm Climate [W35°C / W55°C]		A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Cold Climate [W35°C / W55°C]		ETA %	150/103	150/103	160/115	160/115
		SCOP	3,83/2,65	3,83/2,65	4,08/2,95	4,08/2,95
Energy Class Heating Cold Climate [W35°C / W55°C]		A++ to G	A++/A+	A++/A+	A++/A+	A++/A+
Energy Class Heating Cold Climate [W35°C / W55°C]		A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit			WH-SDC03H3E5-1	WH-SDC05H3E5-1	WH-SDC07H3E5-1	WH-SDC09H3E5-1
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	30/30	30/30
Dimension	HxWxD	mm	892x500x340	892x500x340	892x500x340	892x500x340
Net weight		kg	44	44	44	44
Water pipe connector		Inch	R 1	R 1	R 1	R 1
A class pump		Number of speeds	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	30/100	33/106	34/114	40/120
Heating water flow [ΔT=5 K, 35°C]		L/min	9,2	14,3	20,1	25,8
Capacity of integrated electric heater		kW	3	3	3	3
Recommended fuse		A	15/30	15/30	15/30	15/30
Recommended cable size, supply 1 / 2		mm	3x1,5/3x1,5	3x1,5/3x1,5	3x1,5/3x1,5	3x1,5/3x1,5
Outdoor unit			WH-UD03HE5-1	WH-UD05HE5-1	WH-UD07HE5-1	WH-UD09HE5-1
Sound power full load	Heat / Cool	dB	64/65	65/66	68/66	69/68
Dimension	HxWxD	mm	622x824x298	622x824x298	795x900x320	795x900x320
Net weight		kg	39	39	66	66
Refrigerant [R410A] / CO ₂ Eq.		kg / T	1,20/2,506	1,20/2,506	1,45/3,028	1,45/3,028
Pipe 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]/5/8 [15,88]	1/4 [6,35]/5/8 [15,88]
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 40	3 ~ 40
Elevation difference (in/out)		m	5	5	30	30
Pipe length for additional gas		m	10	10	10	10
Additional gas amount		g/m	20	20	30	30
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 ²⁾		dB	52	58	57	59

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve
CZ-NV1	3 way valve Kit for inside of hydrokit

Accessories

CZ-NS4P	Additional functions PCB
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).

1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).



INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units ALL in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.