

**Aquarea High Performance Bi-bloc
H Generation Single Phase / Three 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



CZ-TAW1
Cloud connection. For
user control and
installer remote
maintenance.

			Single Phase Heating and Cooling		Three Phase [Power to indoor]			
Kit			KIT-WC12H6E5	KIT-WC16H6E5	KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8	
Heating capacity / COP [A +7°C, W 35°C]			kW / COP 12,00 / 4,74	16,00 / 4,28	9,00 / 4,84	12,00 / 4,74	16,00 / 4,28	
Heating capacity / COP [A +7°C, W 55°C]			kW / COP 12,00 / 2,88	14,50 / 2,68	9,00 / 2,94	12,00 / 2,88	14,50 / 2,68	
Heating capacity / COP [A +2°C, W 35°C]			kW / COP 11,40 / 3,44	13,00 / 3,28	9,00 / 3,59	11,40 / 3,44	13,00 / 3,28	
Heating capacity / COP [A +2°C, W 55°C]			kW / COP 9,10 / 2,20	9,80 / 2,17	8,80 / 2,23	9,10 / 2,20	9,80 / 2,17	
Heating capacity / COP [A -7°C, W 35°C]			kW / COP 10,00 / 2,73	11,40 / 2,57	9,00 / 2,85	10,00 / 2,73	11,40 / 2,57	
Heating capacity / COP [A -7°C, W 55°C]			kW / COP 8,20 / 1,92	9,00 / 1,82	7,90 / 2,05	8,20 / 1,92	9,00 / 1,82	
Cooling capacity / EER [A 35°C, W 7°C]			kW / EER 10,00 / 2,81	12,20 / 2,56	7,00 / 3,17	10,00 / 2,81	12,20 / 2,56	
Cooling capacity / EER [A 35°C, W 18°C]			kW / EER 10,00 / 4,17	12,20 / 4,12	7,00 / 4,61	10,00 / 4,17	12,20 / 4,12	
Seasonal energy efficiency - Heating Average Climate [W35°C / W55°C]			ETA % 190 / 134	190 / 130	190 / 133	190 / 134	190 / 130	
			SCOP 4,83 / 3,43	4,83 / 3,33	4,83 / 3,40	4,83 / 3,43	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++	A++ / A++	
Energy Class Heating Average Climate [W35°C / W55°C] ¹⁾			A+++ to D A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	
Seasonal energy efficiency - Heating Warm Climate [W35°C / W55°C]			ETA % 245 / 159	245 / 169	245 / 159	245 / 159	245 / 169	
			SCOP 6,20 / 4,05	6,20 / 4,30	6,20 / 4,05	6,20 / 4,05	6,20 / 4,30	
Energy Class Heating Warm Climate [W35°C / W55°C]			A++ to G A++ / A++	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+++	A+++ / A+++	
Seasonal energy efficiency - Heating Cold Climate [W35°C / W55°C]			ETA % 168 / 121	168 / 121	168 / 121	168 / 121	168 / 121	
			SCOP 4,28 / 3,10	4,28 / 3,10	4,28 / 3,10	4,28 / 3,10	4,28 / 3,10	
Energy Class Heating Cold Climate [W35°C / W55°C]			A++ to G A++ / A+	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+	A+++ / A+	
Indoor unit			WH-SDC12H6E5	WH-SDC16H6E5	WH-SDC09H3E8	WH-SDC12H9E8	WH-SDC16H9E8	
Sound pressure	Heat / Cool	dB(A)	33 / 33	33 / 33	33 / 33	33 / 33	33 / 33	
Dimension	H x W x D	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	
Net weight		kg	44	45	44	45	45	
Water pipe connector		Inch	R 1	R 1	R 1	R 1	R 1	
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed	
	Input power (Min/Max)	W	34 / 110	30 / 105	32 / 102	34 / 110	30 / 105	
Heating water flow [ΔT=5 K, 35°C]		L/min	34,4	45,9	25,8	34,4	45,9	
Capacity of integrated electric heater		kW	6	6	3	9	9	
Recommended fuse		A	30 / 30	30 / 30	15 / 30	15 / 30	15 / 30	
Recommended cable size, supply 1 / 2		mm	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	
Outdoor unit			WH-UD12HE5	WH-UD16HE5	WH-UD09HE8	WH-UD12HE8	WH-UD16HE8	
Sound power full load	Heat / Cool	dB	69 / 68	72 / 72	68 / 67	69 / 68	72 / 72	
Dimension	H x W x D	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	
Net weight		kg	101	101	107	107	107	
Refrigerant [R410A] / CO ₂ Eq.		kg / T	2,55 / 5,324	2,55 / 5,324	2,55 / 5,324	2,55 / 5,324	2,55 / 5,324	
Pipe 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)	3/8(9,52) / 5/8(15,88)	3/8(9,52) / 5/8(15,88)	
Pipe length range		m	3 ~ 50	3 ~ 50	3 ~ 30	3 ~ 30	3 ~ 30	
Elevation difference (in/out)		m	30	30	30	30	30	
Pipe length for additional gas		m	10	10	10	10	10	
Additional gas amount		g/m	50	50	50	50	50	
Operation range	Outdoor ambient	°C	-20 ~ +35	-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	20 ~ 55 / 5 ~ 20	
3rd Party tested Sound power at Quiet Mode 3 ²⁾			dB	65	65	63	65	66

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVVLV-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.