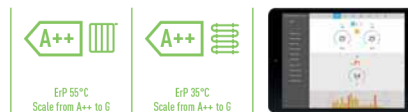


Aquarea High Performance Mono-bloc H Generation Single Phase. Heating and Cooling - MDC • R410A Gas

Technical focus

- Optional Smartphone control
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C
- Cooling temperature range 5 ~ 20°C



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

Single Phase Heating and Cooling						
Outdoor unit		WH-MDC05H3E5	WH-MDC07H3E5	WH-MDC09H3E5	WH-MDC12H6E5	WH-MDC16H6E5
Heating capacity / COP [A +7°C, W 35°C]	kW / COP	5,00 / 5,08	7,00 / 4,52	9,00 / 4,29	12,00 / 4,74	16,00 / 4,28
Heating capacity / COP [A +7°C, W 55°C]	kW / COP	5,00 / 2,84	7,00 / 2,83	9,00 / 2,72	12,00 / 2,93	14,50 / 2,72
Heating capacity / COP [A +2°C, W 35°C]	kW / COP	4,80 / 3,36	6,60 / 3,30	6,80 / 3,18	11,40 / 3,44	13,00 / 3,28
Heating capacity / COP [A +2°C, W 55°C]	kW / COP	4,00 / 2,33	6,30 / 2,22	6,30 / 2,13	9,10 / 2,23	9,80 / 2,21
Heating capacity / COP [A -7°C, W 35°C]	kW / COP	4,70 / 2,85	5,50 / 2,70	6,40 / 2,60	10,00 / 2,73	11,40 / 2,57
Heating capacity / COP [A -7°C, W 55°C]	kW / COP	4,30 / 1,89	5,00 / 1,82	5,80 / 1,78	8,20 / 1,95	9,00 / 1,84
Cooling capacity / EER [A 35°C, W 7°C]	kW / EER	4,50 / 3,28	6,00 / 2,78	7,00 / 2,60	10,00 / 2,81	12,20 / 2,56
Cooling capacity / EER [A 35°C, W 18°C]	kW / EER	5,10 / 5,10	6,00 / 3,87	7,00 / 3,59	10,00 / 4,65	12,20 / 4,12
Seasonal energy efficiency - Heating Average Climate [W35°C / W55°C]	ETA %	199 / 139	190 / 130	190 / 130	190 / 134	190 / 130
	SCOP	5,05 / 3,55	4,83 / 3,33	4,83 / 3,33	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 %	237 / 161	225 / 160	225 / 160	245 / 159	245 / 169
	SCOP	6,00 / 4,10	5,70 / 4,08	5,70 / 4,08	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 %	160 / 115	160 / 115	160 / 115	168 / 121	168 / 121
	SCOP	4,08 / 2,95	4,08 / 2,95	4,08 / 2,95	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+
Sound power full load	Heat / Cool	dB	65 / 65	68 / 66	69 / 67	69 / 68
Dimension	H x W x D	mm	865 x 1283 x 320	865 x 1283 x 320	865 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	94	104	104	140
Refrigerant [R410A] / CO ₂ Eq. ²⁾		kg / T	1,30 / 2714	1,35 / 2819	1,35 / 2819	2,10 / 4,385
Water pipe connector		Inch	R1	R1	R1	R1
Pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	34 / 96	36 / 100	39 / 108	34 / 110
Heating water flow [ΔT=5 K, 35°C]		L/min	14,3	20,1	25,8	34,4
Capacity of integrated electric heater		kW	3	3	3	6
Input Power	Heat	kW	0,985	1,55	2,10	2,53
	Cool	kW	1,37	2,16	2,69	3,56
Running and Starting current	Heat	A	4,7	7,2	9,6	11,7
	Cool	A	6,3	9,9	12,2	16,2
Current 1		A	13,0	21,0	22,9	24,0
Current 2		A	13,0	13,0	13,0	26,0
Recommended fuse		A	30 / 15	30 / 15	30 / 16	30 / 30
Recommended cable size, supply 1 / 2		mm ²	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Heat	°C	20 ~ 55	20 ~ 55	20 ~ 55	25 ~ 55
Water outlet	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20

3rd Party tested Sound power at Quiet Mode 3 ³⁾	dB	57	57	61	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-3WYVLV-SI	3 way valve

Accessories

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) WH-MDC models are hermetically sealed. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).



INTERNET CONTROL: Optional.