

Aquarea High Performance Mono-bloc H Generation 1 Phase • R410A

Aquarea, an innovative new low-energy system based on Air to Water heat pump technology

Aquarea warms your home effectively and efficiently, even with extreme outdoor temperatures. Aquarea can also cool space in summer and bring hot water all year round.

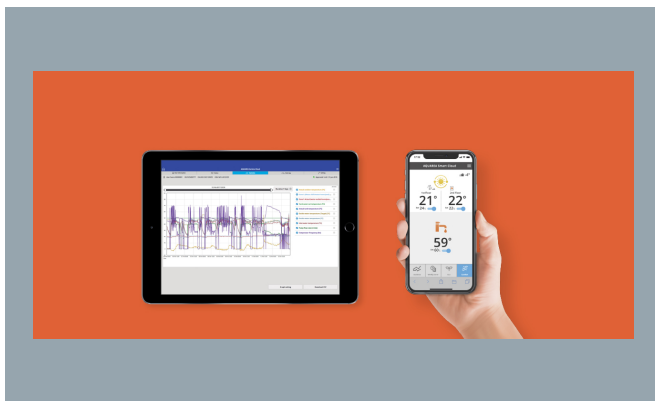
Aquarea High Performance is the range for new installations and low consumption homes. Outstanding efficiency and energy savings with minimised CO2 emissions and minimum space.

The Mono-Bloc system: This only has an outdoor unit. The installation doesn't require a refrigerated connection and is only connected to the heating and/or hot water.

- A+++ energy Class (average climate at 35°C water outlet)
- High heating and cooling capacities, even at low outdoor temperatures
- Special software for low consumption homes with minimum output temperature: 20°C
- Works at temperatures as low as -20°C
- Cloud control and service with CZ-TAW1
- Easy-to-use remote controller
- Domestic hot water with external tank
- Easy installation and maintenance
- Built-in flow meter, and automatic air purge valve



A heat pump turns heat energy outside into warmth inside



Aquarea Service Cloud. Control for today and for the future

[FOR END USER](#)

[FOR INSTALLERS / MAINTENANCE](#)



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Air to water heat pump

Heating, cooling and domestic hot water systems for a green future.

[COMPARE SOLUTIONS](#)

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SINGLE PHASE

		12 kW	16 kW
		WH-MDC12H6E5	WH-MDC16H6E5
Outdoor unit			
Heating capacity (A +7°C, W 35°C)	kW	12,00	16,00
COP (A +7°C, W 35°C)		4,74	4,28
Heating capacity (A +7°C, W 55°C)	kW	12,00	14,50
COP (A +7°C, W 55°C)		2,93	2,72
Heating capacity (A +2°C, W 35°C)	kW	11,40	13,00
COP (A +2°C, W 35°C)		3,44	3,28
Heating capacity (A +2°C, W 55°C)	kW	9,10	9,80
COP (A +2°C, W 55°C)		2,23	2,21
Heating capacity (A -7°C, W 35°C)	kW	10,00	11,40
COP (A -7°C, W 35°C)		2,73	2,57
Heating capacity (A -7°C, W 55°C)	kW	8,20	9,00
COP (A -7°C, W 55°C)		1,95	1,84
Cooling capacity (A 35°C, W 7°C)	kW	10,00	12,20
EER (A 35°C, W 7°C)		2,81	2,56
Cooling capacity (A 35°C, W 18°C)	kW	10,00	12,20
EER (A 35°C, W 18°C)		4,65	4,12
Heating average climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	190 / 134	190 / 130
Heating average climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	4,83 / 3,43	4,83 / 3,33
Heating average climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A++	A+++ / A++
Heating warm climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	245 / 159	245 / 169
Heating warm climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	6,20 / 4,05	6,20 / 4,30
Heating warm climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A+++	A+++ / A+++
Heating cold climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	168 / 121	168 / 121
Heating cold climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	4,28 / 3,10	4,28 / 3,10
Heating cold climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A++ / A+	A++ / A+
Outdoor sound power part load (Heat) (1)	dB(A)	65	65
Outdoor sound power full load (Heat)	dB(A)	69	72
Outdoor sound power full load (Cool)	dB(A)	68	72
Outdoor dimension (Height)	mm	1410	1410

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SINGLE PHASE

		12 kW	16 kW
Outdoor dimension (Width)	mm	1283	1283
Outdoor dimension (Depth)	mm	320	320
Outdoor net weight	kg	140	140
Refrigerant (R32) / CO2 Eq. (2)	kg / T	2,10 / 4,385	2,10 / 4,385
Refrigerant (R410A) / CO2 Eq. (2)	kg / T	2,10 / 4,385	2,10 / 4,385
Water pipe connector	Inch	R 1¼	R 1¼
Pump (Number of speeds)		Variable Speed	Variable Speed
Pump (Input power Min)	W	34	38
Pump (Input power Max)	W	110	120
Heating water flow (ΔT=5 K, 35°C)	L/min	34,40	45,90
Capacity of integrated electric heater	kW	6,00	6,00
Input power (Heat)	kW	2,53	3,74
Input power (Cool)	kW	3,56	4,76
Running and starting current (Heat)	A	11,7	16,9
Running and starting current (Cool)	A	16,2	21,5
Current 1	A	24	26
Current 2	A	26	26
Indoor recommended fuse	A	30 / 30	30 / 30
Recommended minimum cable size, supply 1	mm ²	3 x 4,0 or 6,0	3 x 4,0 or 6,0
Recommended minimum cable size, supply 2	mm ²	3 x 4,0	3 x 4,0
Operation range - outdoor temperature (Heat)	°C	-20 ~ +35	-20 ~ +35
Water outlet (Heat)	°C	25 ~ 55	25 ~ 55
Water outlet (Cool)	°C	5 ~ 20	5 ~ 20

(1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7°C.

(2) WH-MDC models are hermetically sealed.

EER and COP calculation is based in accordance to EN14511.

Complementary products

