WH-MDC12H6E5

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 Monoâ□□Bloc system: This only has an outdoor unit. The installation doesnâ□□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

Aquarea High Performance Mono-bloc H Generation 1 Phase • R410A		SINGLE PHASE
		12 kW
Outdoor unit		WH-MDC12H6E5
Heating capacity (A +7°C, W 35°C)	kW	12,00
COP (A +7°C, W 35°C)		4,74
Heating capacity (A +7°C, W 55°C)	kW	12,00
COP (A +7°C, W 55°C)		2,93
Heating capacity (A +2°C, W 35°C)	kW	11,40
COP (A +2°C, W 35°C)		3,44
Heating capacity (A +2°C, W 55°C)	kW	9,10
COP (A +2°C, W 55°C)		2,23
Heating capacity (A -7°C, W 35°C)	kW	10,00
COP (A -7°C, W 35°C)		2,73
Heating capacity (A -7°C, W 55°C)	kW	8,20
COP (A -7°C, W 55°C)		1,95
Cooling capacity (A 35°C, W 7°C)	kW	10,00
EER (A 35°C, W 7°C)		2,81
Cooling capacity (A 35°C, W 18°C)	kW	10,00
EER (A 35°C, W 18°C)		4,65
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	190 / 134
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	4,83 / 3,43
Heating average climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A++
Heating warm climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	245 / 159
Heating warm climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	6,20 / 4,05
Heating warm climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A+++
Heating cold climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	168 / 121
Heating cold climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	4,28 / 3,10
Heating cold climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A++ / A+
Outdoor sound power part load (Heat) (1)	dB(A)	65
Outdoor sound power full load (Heat)	dB(A)	69
Outdoor sound power full load (Cool)	dB(A)	68
Outdoor dimension (Height)	mm	1410

Aquarea High Performance Mono-bloc H Generation 1 Phase • R410A		SINGLE PHASE
		12 kW
Outdoor dimension (Width)	mm	1283
Outdoor dimension (Depth)	mm	320
Outdoor net weight	kg	140
Refrigerant (R32) / CO2 Eq. (2)	kg / T	2,10 / 4,385
Refrigerant (R410A) / CO2 Eq. (2)	kg / T	2,10 / 4,385
Water pipe connector	Inch	R 1¼
Pump (Number of speeds)		Variable Speed
Pump (Input power Min)	W	34
Pump (Input power Max)	W	110
Heating water flow (ΔT=5 K. 35°C)	L/min	34,40
Capacity of integrated electric heater	kW	6,00
Input power (Heat)	kW	2,53
Input power (Cool)	kW	3,56
Running and starting current (Heat)	A	11,7
Running and starting current (Cool)	A	16,2
Current 1	A	24
Current 2	A	26
Indoor recommended fuse	A	30 / 30
Recommended cable size, supply 1	mm²	3 x 4,0 or 6,0
Recommended cable size, supply 2	mm²	3 x 4,0
Operation range - outdoor temperature (Heat)	°C	-20 ~ +35
Water outlet (Heat)	°C	25 ~ 55
Water outlet (Cool)	°C	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