

Aquarea High Performance Bi-bloc H Generation 3 Phase • R410A

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

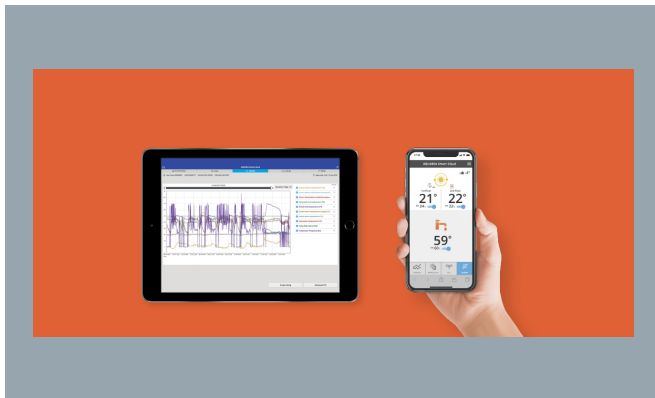
Aquarea warms your home effectively and efficiently, even with extreme outdoor temperatures. Aquarea can also cool space in summer and bring hot water all year round.

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 Bi-bloc system: The system, separate indoor and outdoor units, connects to the heating and/or hot water system.



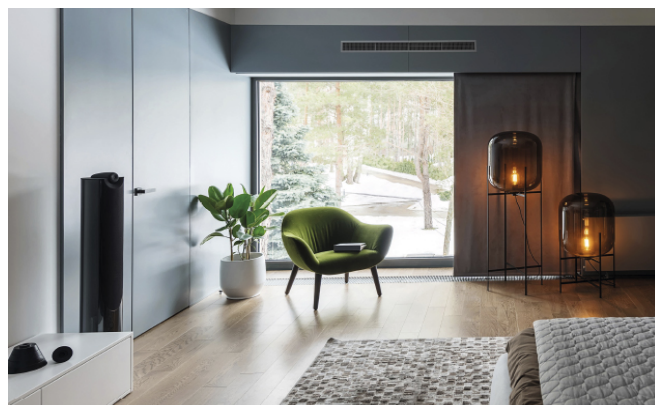
- A+++ energy Class (average climate at 35°C water outlet)
- Special software for low consumption homes with minimum output temperature: 20°C
- Works at temperatures as low as -20°C
- Cloud control and service with CZ-TAW1
- Easy-to-use remote controller
- Domestic hot water with external tank
- Easy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



Aquarea Service Cloud. Control for today and for the future

[FOR END USER](#)

[FOR INSTALLERS / MAINTENANCE](#)



Range of fan coil units provide a higher level and performance

The fan coil range consists of a compact ducted range ideal for residential and commercial use and one model with high static pressure for commercial applications.

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Aqueara High Performance Bi-bloc H Generation 3 Phase • R410A		Three Phase (Power to indoor)
		16 kW
Kit		KIT-WC16H9E8
Heating capacity (A +7°C, W 35°C)	kW	16,00
COP (A +7°C, W 35°C)		4,28
Heating capacity (A +7°C, W 55°C)	kW	14,50
COP (A +7°C, W 55°C)		2,68
Heating capacity (A +2°C, W 35°C)	kW	13,00
COP (A +2°C, W 35°C)		3,28
Heating capacity (A +2°C, W 55°C)	kW	9,80
COP (A +2°C, W 55°C)		2,17
Heating capacity (A -7°C, W 35°C)	kW	11,40
COP (A -7°C, W 35°C)		2,57
Heating capacity (A -7°C, W 55°C)	kW	9,00
COP (A -7°C, W 55°C)		1,82
Cooling capacity (A 35°C, W 7°C)	kW	12,20
EER (A 35°C, W 7°C)		2,56
Cooling capacity (A 35°C, W 18°C)	kW	12,20
EER (A 35°C, W 18°C)		4,12
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	190 / 130
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	4,83 / 3,33
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 / 169
Heating warm climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	6,20 / 4,30
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+
Indoor unit		WH-SDC16H9E8
Indoor sound pressure (Heat)	dB(A)	33
Indoor sound pressure (Cool)	dB(A)	33
Indoor dimension (Height)	mm	892
Indoor dimension (Width)	mm	500
Indoor dimension (Depth)	mm	340
Indoor net weight	kg	45
Water pipe connector	Inch	R 1¼
A class pump (Number of speeds)		Variable Speed
A class pump (Input power Min)	W	30
A class pump (Input power Max)	W	105
Heating water flow (ΔT=5 K, 35°C)	L/min	45,90
Capacity of integrated electric heater	kW	9,00
Indoor recommended fuse	A	15 / 30
Recommended cable size, supply 1	mm²	5 x 1,5
Recommended cable size, supply 2	mm²	5 x 1,5
Outdoor unit		WH-UD16HE8
Outdoor sound power part load (Heat) (3)	dB(A)	65
Outdoor sound power full load (Heat)	dB(A)	72
Outdoor sound power full load (Cool)	dB(A)	72
Outdoor dimension (Height)	mm	1340
Outdoor dimension (Width)	mm	900
Outdoor dimension (Depth)	mm	320
Outdoor net weight	kg	107
Refrigerant (R410A) / CO2 Eq.	kg / T	2,55 / 5,324
Pipe diameter (Liquid)	Inch (mm)	3/8 (9,52)
Pipe diameter (Gas)	Inch (mm)	5/8 (15,88)
Pipe length range	m	3 ~ 30
Elevation difference (in/out)	m	20
Pipe length for additional gas	m	10
Additional gas amount	g/m	50
Operation range (Outdoor ambient)	°C	-20 ~ +35
Water outlet (Heat)	°C	20 ~ 55
Water outlet (Cool)	°C	5 ~ 20

(1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7°C.
EER and COP calculation is based in accordance to EN14511.

Complementary products



PAW-TA30C1E5STD. Enamelled Tank 290L.



PAW-3WYVLV-HW. 3 way valve for DHW Tanks.



PAW-A2W-CMH Cascade Controller. Modbus IP for BMS communication.



PAW-TD30C1E5. Tank 300L Stainless steel.



CZ-TAW1. Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN.