

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.

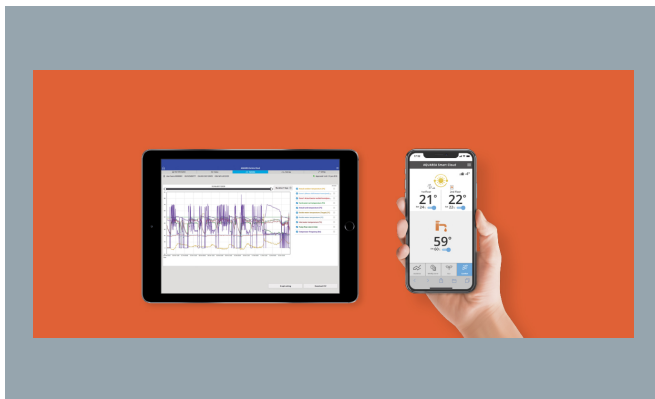
Aquarea High Performance is the range for new installations and low consumption homes. Outstanding efficiency and energy savings with minimised CO2 emissions and minimum space.

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



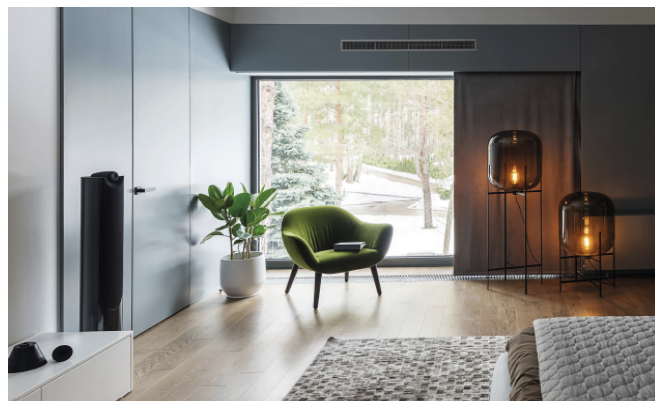
A heat pump turns heat energy outside into warmth inside



Aquarea Service Cloud. Control for today and for the future

[FOR END USER](#)

[FOR INSTALLERS / MAINTENANCE](#)



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.

[FIND OUT MORE ABOUT AQUAREA FAN COIL](#)

[MORE FAN COIL OPTIONS IN CHILLERS SECTION](#)

Aquarea High Performance Bi-bloc H Generation 3 Phase • R410A		THREE PHASE (Power to indoor)		
		9 kW	12 kW	16 kW
Kit		KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8
Heating capacity (A +7°C, W 35°C)	kW	9,00	12,00	16,00
COP (A +7°C, W 35°C)		4,84	4,74	4,28
Heating capacity (A +7°C, W 55°C)	kW	9,00	12,00	14,50
COP (A +7°C, W 55°C)		2,94	2,88	2,68
Heating capacity (A +2°C, W 35°C)	kW	9,00	11,40	13,00
COP (A +2°C, W 35°C)		3,59	3,44	3,28
Heating capacity (A +2°C, W 55°C)	kW	8,80	9,10	9,80
COP (A +2°C, W 55°C)		2,23	2,20	2,17
Heating capacity (A -7°C, W 35°C)	kW	9,00	10,00	11,40
COP (A -7°C, W 35°C)		2,85	2,73	2,57
Heating capacity (A -7°C, W 55°C)	kW	7,90	8,20	9,00
COP (A -7°C, W 55°C)		2,05	1,92	1,82
Cooling capacity (A 35°C, W 7°C)	kW	7,00	10,00	12,20
EER (A 35°C, W 7°C)		3,17	2,81	2,56
Cooling capacity (A 35°C, W 18°C)	kW	7,00	10,00	12,20
EER (A 35°C, W 18°C)		4,61	4,17	4,12
Heating average climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	190 / 133	190 / 134	190 / 130
Heating average climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	4,83 / 3,40	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++	A+++ / A++
Heating warm climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	245 / 159	245 / 159	245 / 169
Heating warm climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	6,20 / 4,05	6,20 / 4,05	6,20 / 4,30
Heating warm climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++
Heating cold climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	168 / 121	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	4,28 / 3,10
Heating cold climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A++ / A+	A++ / A+	A++ / A+
Indoor unit		WH-SDC09H3E8	WH-SDC12H9E8	WH-SDC16H9E8
Indoor sound pressure (Heat)	dB(A)	33	33	33
Indoor sound pressure (Cool)	dB(A)	33	33	33
Indoor dimension (Height)	mm	892	892	892
Indoor dimension (Width)	mm	500	500	500
Indoor dimension (Depth)	mm	340	340	340

Aquarea High Performance Bi-bloc H Generation 3 Phase • R410A		THREE PHASE (Power to indoor)		
		9 kW	12 kW	16 kW
Indoor net weight	kg	44	45	45
Water pipe connector	Inch	R 1¼	R 1¼	R 1¼
A class pump (Number of speeds)		Variable Speed	Variable Speed	Variable Speed
A class pump (Input power Min)	W	32	34	30
A class pump (Input power Max)	W	102	110	105
Heating water flow (ΔT=5 K, 35°C)	L/min	25,80	34,40	45,90
Capacity of integrated electric heater	kW	3,00	9,00	9,00
Indoor recommended fuse	A	15 / 30	15 / 30	15 / 30
Recommended minimum cable size, supply 1	mm²	5 x 1,5	5 x 1,5	5 x 1,5
Recommended minimum cable size, supply 2	mm²	5 x 1,5	5 x 1,5	5 x 1,5
Outdoor unit		WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
Outdoor sound power part load (Heat) (3)	dB(A)	65	65	65
Outdoor sound power full load (Heat)	dB(A)	68	69	72
Outdoor sound power full load (Cool)	dB(A)	67	68	72
Outdoor dimension (Height)	mm	1340	1340	1340
Outdoor dimension (Width)	mm	900	900	900
Outdoor dimension (Depth)	mm	320	320	320
Outdoor net weight	kg	107	107	107
Refrigerant (R410A) / CO2 Eq.	kg / T	2,55 / 5,324	2,55 / 5,324	2,55 / 5,324
Piping diameter (Liquid)	Inch (mm)	3/8 (9,52)	3/8 (9,52)	3/8 (9,52)
Piping diameter (Gas)	Inch (mm)	5/8 (15,88)	5/8 (15,88)	5/8 (15,88)
Pipe length range	m	3 ~ 30	3 ~ 30	3 ~ 30
Elevation difference (in/out)	m	20	20	20
Pre-charged pipe length	m	10	10	10
Additional gas amount	g/m	50	50	50
Operation range (Outdoor ambient)	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet (Heat)	°C	20 ~ 55	20 ~ 55	20 ~ 55
Water outlet (Cool)	°C	5 ~ 20	5 ~ 20	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

