

Aquarea T-CAP Bi-bloc H Generation 3 Phase. Super Quiet outdoor unit • 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.

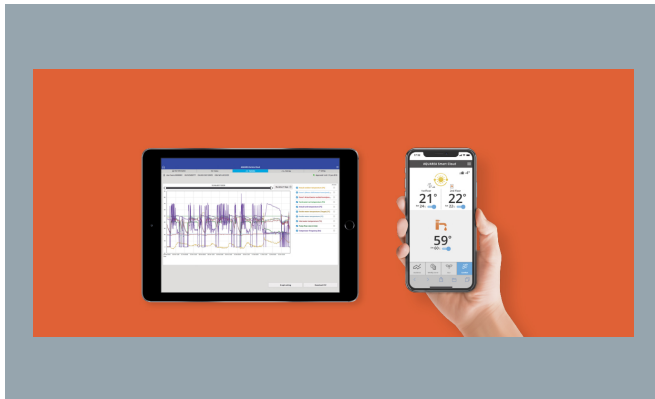
Aquarea T-CAP is the range for retrofit and new builds, keeping Total Capacity even at extremely cold ambient.

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

- High energy Class A++
- Low noise level
- Constant capacity down to -20°C
- Maximum hydraulic module output temperature: 60°C
- Works at temperatures as low as -28°C
- Special software for low consumption homes with minimum output temperature: 20°C
- Built-in magnet water filter and flow meter, and automatic air purge valve
- Domestic hot water with external tank
- Cloud control and service with CZ-TAW1
- Easy-to-use remote controller



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 T-CAP Bi-bloc H Generation 3 Phase. Super Quiet outdoor unit • R410A		THREE PHASE (Power to indoor)		
		9 kW	12 kW	16 kW
Kit		KIT-WQC09H3E8	KIT-WQC12H9E8	KIT-WQC16H9E8
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	16,00
COP (A +7°C, W 55°C)		2,94	2,88	2,71
Heating capacity (A +2°C, W 35°C)	kW	9,00	12,00	16,00
COP (A +2°C, W 35°C)		3,59	3,44	3,10
Heating capacity (A +2°C, W 55°C)	kW	9,00	12,00	16,00
COP (A +2°C, W 55°C)		2,21	2,19	2,13
Heating capacity (A -7°C, W 35°C)	kW	9,00	12,00	16,00
COP (A -7°C, W 35°C)		2,85	2,72	2,49
Heating capacity (A -7°C, W 55°C)	kW	9,00	12,00	16,00
COP (A -7°C, W 55°C)		2,02	1,92	1,86
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	2,57
Cooling capacity (A 35°C, W 18°C)	kW	7,00	10,00	12,20
EER (A 35°C, W 18°C)		5,19	5,13	3,49
Heating average climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	181 / 130	170 / 130	160 / 125
Heating average climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	4,60 / 3,33	4,33 / 3,33	4,08 / 3,20
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 %	235 / 158	231 / 158	231 / 159
Heating warm climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	5,95 / 4,03	5,85 / 4,03	5,85 / 4,05
Heating warm climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++

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		9 kW	12 kW	16 kW
Heating cold climate. Seasonal energy efficiency η (W 35°C / W 55°C)	η_s %	160 / 125	160 / 125	150 / 125
Heating cold climate. Seasonal energy efficiency SCOP (W 35°C / W 55°C)	SCOP	4,08 / 3,20	4,08 / 3,20	3,83 / 3,20
Heating cold climate. Energy class (W 35°C / W 55°C) (1)	A+++ to D	A++ / A++	A++ / A++	A++ / A++
Indoor unit		WH-SQC09H3E8	WH-SQC12H9E8	WH-SQC16H9E8
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
Indoor net weight	kg	43	44	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 ($\Delta T=5$ 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	mm ²	5 x 1,5	5 x 1,5	5 x 1,5
Recommended minimum cable size, supply 2	mm ²	3 x 1,5	5 x 1,5	5 x 1,5
Outdoor unit		WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8
Outdoor sound power part load (Heat) (3)	dB(A)	58	58	62
Outdoor sound power full load (Heat)	dB(A)	61	62	65
Outdoor sound power full load (Cool)	dB(A)	63	64	68
Outdoor dimension (Height)	mm	1410	1410	1410
Outdoor dimension (Width)	mm	1283	1283	1283

Aquarea T-CAP Bi-bloc H Generation 3 Phase. Super Quiet outdoor unit • R410A		THREE PHASE (Power to indoor)		
		9 kW	12 kW	16 kW
Outdoor dimension (Depth)	mm	320	320	320
Outdoor net weight	kg	151	151	161
Refrigerant (R410A) / CO2 Eq.	kg / T	2,85 / 5,951	2,85 / 5,951	2,99 / 6,243
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	-28 ~ +35	-28 ~ +35	-28 ~ +35
Water outlet (Heat)	°C	20 ~ 60	20 ~ 60	20 ~ 60
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

