

## Aquarea T-CAP All in One 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.

Aquarea All in One: This range intelligently integrates the best Hydrokit technology with a premium quality stainless steel tank, which is maintenance-free.

- High energy Class A++
- Low noise level
- Constant capacity down to -20°C
- Maximum hydraulic module output temperature: 60°C
- Stainless steel 185 L DHW tank
- U-Vacua™ insulation panel for higher tank efficiency
- Anode free water tank, no maintenance
- Works at temperatures as low as -28°C
- Built-in magnet water filter and flow meter, and automatic air purge valve
- Easy installation and maintenance
- Cloud control and service with CZ-TAW1
- Easy-to-use remote controller

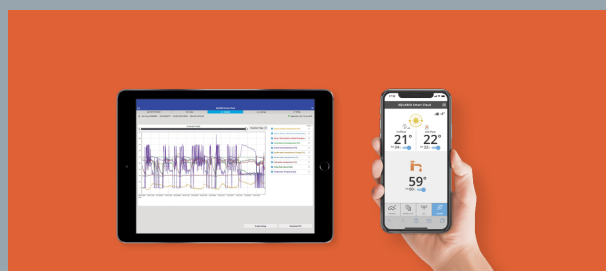


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#### Air to water heat pump

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

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**Aquarea Service Cloud. Control for today and for the future**

[FOR END USER](#)

[FOR INSTALLERS / MAINTENANCE](#)



## Heat Recovery Ventilation unit for a low-energy house

Ventilation systems with heat recovery offer users a high degree of living comfort thanks to temperature controlled and clean air.

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Aquarea T-CAP All in One H Generation 3 Phase. Super Quiet outdoor unit • R410A		THREE PHASE (Power to indoor)		
		9 kW	12 kW	16 kW
Kit		KIT-AQC09HE8	KIT-AQC12HE8	KIT-AQC16HE8
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 $\eta$ (W 35°C / W 55°C)	$\eta_s$ %	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 $\eta$ (W 35°C / W 55°C)	$\eta_s$ %	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+++

Aquarea T-CAP All in One H Generation 3 Phase. Super Quiet outdoor unit • R410A		THREE PHASE (Power to indoor)		
		9 kW	12 kW	16 kW
Heating cold climate. Seasonal energy efficiency $\eta$ (W 35°C / W 55°C)	$\eta_s$ %	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-ADC0916H9E8	WH-ADC0916H9E8	WH-ADC0916H9E8
Indoor sound pressure (Heat)	dB(A)	33	33	33
Indoor sound pressure (Cool)	dB(A)	33	33	33
Indoor dimension (Height)	mm	1800	1800	1800
Indoor dimension (Width)	mm	598	598	598
Indoor dimension (Depth)	mm	717	717	717
Indoor net weight	kg	126	126	126
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	36	36	36
A class pump (Input power Max)	W	152	152	152
Heating water flow ( $\Delta T=5$ K. 35°C)	L/min	25,80	34,40	45,90
Capacity of integrated electric heater	kW	9,00	9,00	9,00
Indoor recommended fuse	A	16 / 16	16 / 16	16 / 16
Recommended minimum cable size, supply 1	mm <sup>2</sup>	5 x 1,5	5 x 1,5	5 x 1,5
Recommended minimum cable size, supply 2	mm <sup>2</sup>	5 x 1,5	5 x 1,5	5 x 1,5
Water volume	L	185	185	185
Maximum DHW temperature	°C	65	65	65
Material inside tank		Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147		L	L	L
DHW tank ERP average climate efficiency rating (2)	A+ to F	A	A	A
DHW tank ERP warm climate efficiency rating (2)	A+ to F	A	A	A

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		9 kW	12 kW	16 kW
DHW tank ERP cold climate efficiency rating (2)	A+ to F	A	A	B
DHW tank ERP average climate $\eta$	$\eta_{wh}$ %	95	95	91
DHW tank ERP average climate SCOP		2,38	2,38	2,28
DHW tank ERP warm climate $\eta$	$\eta_{wh}$ %	110	110	107
DHW tank ERP warm climate SCOP		2,75	2,75	2,68
DHW tank ERP cold climate $\eta$	$\eta_{wh}$ %	75	75	72
DHW tank ERP cold climate SCOP		1,88	1,80	2,35
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
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) Scale from A+++ to D.

(2) Scale from A+ to F.

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

EER and COP calculation is based in accordance to EN14511.

This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

## Complementary products

