

## Aquarea T-CAP Mono-bloc J Generation 1 phase / 3 phase. Heating and Cooling - MXC R32

### **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 Mono-Bloc system: It is only an outdoor unit. The installation doesn't require refrigerant connections, as the unit is directly connected to the heating and/or hot water circuits.

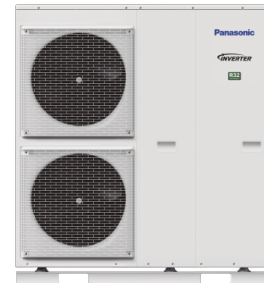
**Energy efficiency:** A+++ in heating at 35°C / "A" water pump with variable speed / Built-in flow meter.

**Flexibility:** Built-in magnetic water filter.

**Comfort:** Constant capacity and operation range down to -20°C / 65°C water outlet temperature.

**Control:** Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

**Connectivity:** Optional Aquarea Smart and Service Cloud and integration into BMS projects.



Aquarea T-CAP Mono-bloc J Generation 1 phase / 3 phase. Heating and Cooling - MXC R32		Single Phase	
		9 kW	12 kW
Outdoor unit		WH-MXC09J3E5	WH-MXC12J6E5
Heating capacity (A +7°C, W 35°C)	kW	9,00	12,00
COP (A +7°C, W 35°C)		5,08	4,80
Heating capacity (A +7°C, W 55°C)	kW	9,00	12,00
COP (A +7°C, W 55°C)		3,08	3,05
Heating capacity (A +2°C, W 35°C)	kW	9,00	12,00
COP (A +2°C, W 35°C)		3,81	3,53
Heating capacity (A +2°C, W 55°C)	kW	9,00	12,00
COP (A +2°C, W 55°C)		2,54	2,42
Heating capacity (A -7°C, W 35°C)	kW	9,00	12,00
COP (A -7°C, W 35°C)		3,08	2,82
Heating capacity (A -7°C, W 55°C)	kW	9,00	12,00
COP (A -7°C, W 55°C)		2,12	2,00
Cooling capacity (A 35°C, W 7°C)	kW	9,00	12,00
EER (A 35°C, W 7°C)		3,18	2,90
Cooling capacity (A 35°C, W 18°C)	kW	9,00	12,00
EER (A 35°C, W 18°C)		4,62	3,95
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	195 / 140	195 / 140
Heating average climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	4,96 / 3,57	4,96 / 3,57
Heating average climate. Energy class (W 35°C / W 55°C)	A+++ to D	A+++ / A++	A+++ / A++
Heating warm climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	256 / 171	256 / 171
Heating warm climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	6,47 / 4,34	6,47 / 4,34
Heating warm climate. Energy class (W 35°C / W 55°C)	A+++ to D	A+++ / A+++	A+++ / A+++
Heating cold climate. Seasonal energy efficiency (W 35°C / W 55°C)	ηs %	169 / 127	169 / 127
Heating cold climate. Seasonal energy efficiency (W 35°C / W 55°C)	SCOP	4,31 / 3,26	4,31 / 3,26
Heating cold climate. Energy class (W 35°C / W 55°C)	A+++ to D	A++ / A++	A++ / A++
Outdoor sound power (Heat) (1)	dB(A)	65	65
Outdoor dimension (Height)	mm	1410	1410
Outdoor dimension (Width)	mm	1283	1283
Outdoor dimension (Depth)	mm	320	320
Outdoor net weight	kg	140	140
Refrigerant (R32) / CO2 Eq. (2)	kg / T	1,60 / 1,080	1,60 / 1,080
Water pipe connector	Inch	R 1¼	R 1¼
Pump (Number of speeds)		Variable Speed	Variable Speed
Pump (Input power Min)	W	32	34
Pump (Input power Max)	W	102	110
Heating water flow (ΔT=5 K, 35°C)	L/min	25,8	34,4
Capacity of integrated electric heater	kW	3	6
Input power (Heat)	kW	1,77	2,50
Input power (Cool)	kW	2,83	4,14
Running and starting current (Heat)	A	8,3	11,6
Running and starting current (Cool)	A	13,1	19,1
Current 1	A	29,0	29,0
Current 2	A	13,0	26,0
Outdoor recommended fuse, supply 1	A	30	30
Outdoor recommended fuse, supply 2	A	30	30
Recommended cable size, supply 1	mm²	3 x 4,0 or 6,0	3 x 4,0 or 6,0
Recommended cable size, supply 2	mm²	3 x 4,0	3 x 4,0
Operation range - outdoor temperature (Heat)	°C	-20 ~ +35	-20 ~ +35
Operation range - outdoor temperature (Cool)	°C	10 ~ +43	10 ~ +43
Water outlet (Heat) (3)	°C	20 ~ 65	20 ~ 65
Water outlet (Cool) (3)	°C	5 ~ 20	5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7°C.

2) WH-MXC models are hermetically sealed.

3) It is possible to set temperature by 65°C on remote controller. Normally, outlet water temperature is 60°C or lower. In case of ΔT setting with remote controller is 15°C and the outdoor ambient temperature is 5 to 20°C, outlet water temperature 65°C is possible.

\*EER and COP calculation is based in accordance to EN14511.