Panasonic

AQUAREA T-CAP MONO-BLOC

A single outdoor unit that supplies water for cooling, heating and/or for storing domestic hot water.

60th Anniversary

heating & cooling solutions

AQUAREA

Panasonic

THE PEAK OF COMFORT, EFFICIENCY AND LOW ENERGY COSTS

4 reasons why Aquarea is an ideal solution for your home

1 Wide range to suit all homes

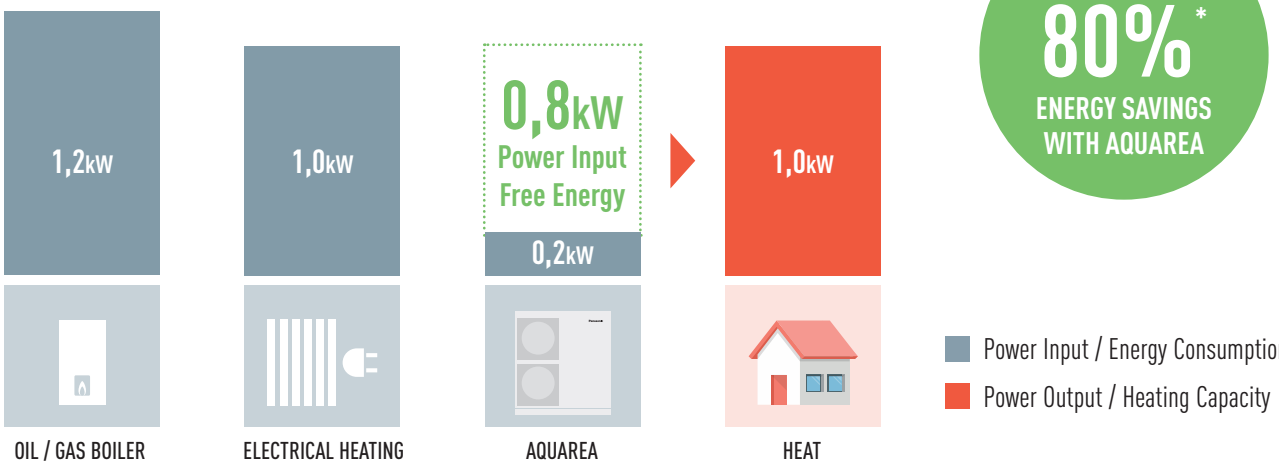
Aquarea is an innovative low-energy system, designed to provide ideal temperatures and hot water in the home, even with extreme outdoor temperatures. It is highly reliable thanks to the quality of all components, including the compressor, developed and manufactured by Panasonic. With many units to choose from, the Aquarea Range offers a very wide choice to ensure the most appropriate solution for your home.

2 Heat Pump, 80% of energy for free

Based on Air to Water heat pump technology, Aquarea is highly efficient and environmentally friendly. It captures heat energy from the ambient air and transfers it to heat the water needed to warm your home, provide domestic hot water and even to cool the house if wished. In this way, up to 80% of the heat energy required is taken from the ambient air - even in extremely low temperatures.

With a Panasonic heat pump, there is no need to oversize in order to reach the required capacity at low temperatures. T-CAP is also able to provide high efficiency, even when outdoor temperatures are extremely cold.

Energy consumption comparison



UP TO **80%** * ENERGY SAVINGS WITH AQUAREA

* 80% of energy savings versus electrical heater is achieved by several Panasonic Aquarea models. Related to T-CAP Monobloc highest savings rate is 79,3% reached with WH-MXC09H3E5 and WH-MXC09H3E8. Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb / 6°C Wet Bulb. Conditions : Water input temperature: 30°C Water output temperature: 35°C

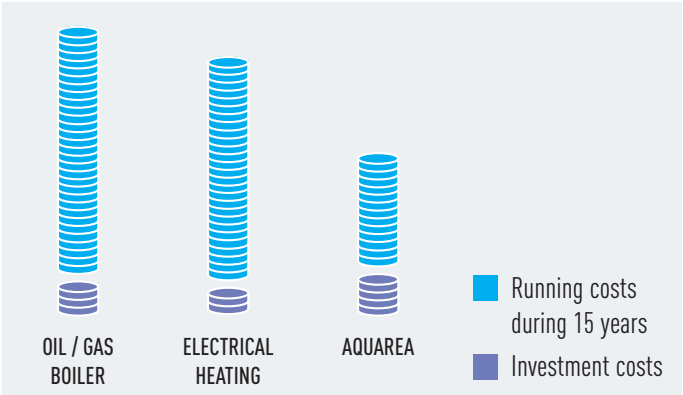
AQUAREA

Panasonic's Aquarea Heat Pumps deliver major energy savings thanks to tremendous efficiency even when outdoor temperatures are as low as -20°C.

Panasonic offers a wide range of high quality tanks to suit any specific need with high quality standards and a new line up of Aquarea Air Super low temperature radiators for Heat Pump applications.

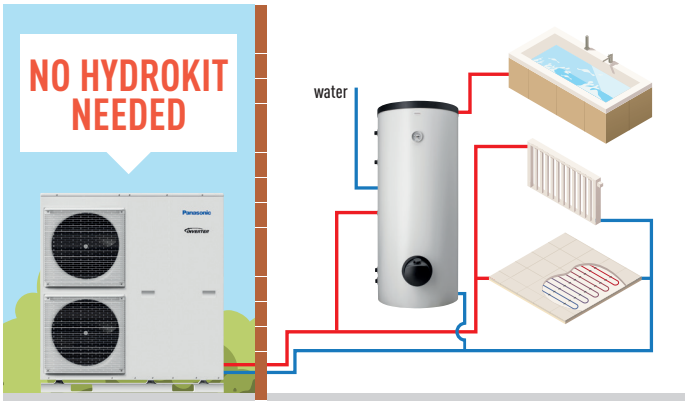
3 Helps you save

Energy cost savings of up to €1100 a year are possible compared to conventional electric heating. Whilst initial investment may be higher than other technologies, running costs are far cheaper with a short payback period on initial cost. Savings are significant particularly when compared to oil-fired boilers and electric heaters.



4 Aquarea T-CAP ideal for very low temperatures, refurbishment and innovation

Aquarea T-CAP is ideal to supply radiators or underfloor heating with temperatures up to 60°C. It operates as a stand-alone system or can be combined with existing gas or oil boilers systems. The wide range from 9kW to 16kW, fully adapts the system to the needs of your home.



COP 4,84

Aquarea Mono-bloc T-CAP: extremely high efficiency

The Aquarea H Generation Mono-bloc T-CAP (Total Capacity) delivers outstanding efficiency in heating and also in domestic hot water supply. Specially designed to work under severe outdoor conditions, operating at full capacity at -20°C and ensuring constant capacity down to -15°C. The unit is ready to work down to -28°C.

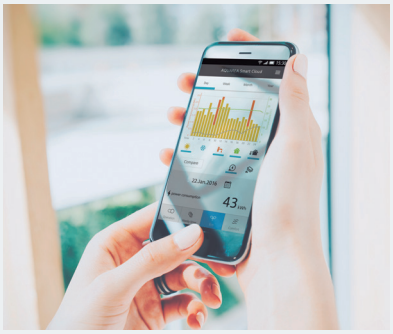
-28°C	-20°C	-15°C	60°C	A++	A+++
OPERATES DOWN TO EXTREME OUTDOOR TEMPERATURE	NOMINAL CAPACITY WATER AT 35°C	NOMINAL CAPACITY WATER UP TO 55°C	HOT WATER SUPPLY	ErP 55°C Scale from A++ to G	35°C SYSTEM LABEL Scale from A+++ to D

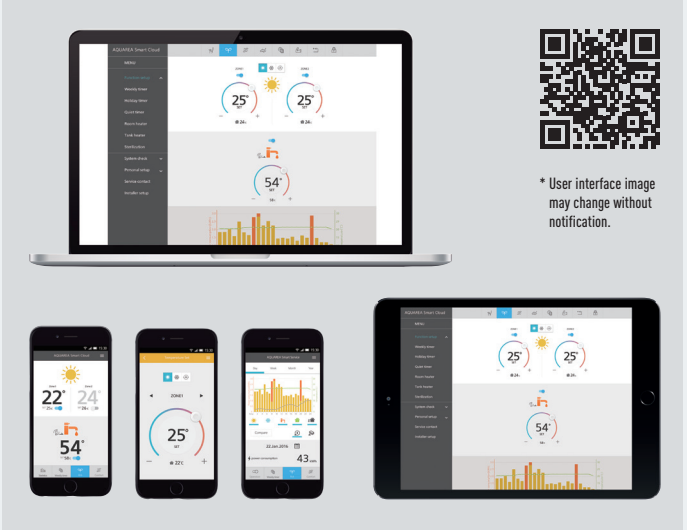
Aquarea Smart Cloud

Easy and powerful energy management

The Aquarea Smart Cloud is much more than a simple thermostat for switching a heating device on or off. It is a powerful and intuitive service for remotely controlling the full range of heating and hot water functions, including monitoring energy consumption.

By subscribing to Aquarea Service Cloud, you can give access to your desired maintenance company to service your Aquarea system through remote maintenance, fixing potential issues much quicker.



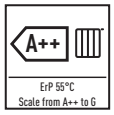


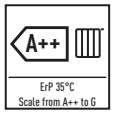
* User interface image may change without notification.

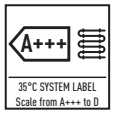
Aquarea H Generation T-CAP

Mono-bloc Single Phase / Three Phase.
Heating and Cooling - MXC

CZ-TAW1
Cloud connection. For user control and installer remote maintenance.







Tentative data			Single Phase		Three Phase		
Outdoor unit			**WH-MXC09H3E5**	**WH-MXC12H6E5**	**WH-MXC09H3E8**	**WH-MXC12H9E8**	**WH-MXC16H9E8**
Heating capacity (A +7°C, W 35°C)		kW	9,00	12,00	9,00	12,00	16,00
COP (A +7°C, W 35°C)		W/W	4,84	4,74	4,84	4,74	4,28
Heating capacity (A +2°C, W 35°C)		kW	9,00	12,00	9,00	12,00	16,00
COP (A +2°C, W 35°C)		W/W	3,59	3,44	3,59	3,44	3,10
Heating capacity (A -7°C, W 35°C)		kW	9,00	12,00	9,00	12,00	16,00
COP (A -7°C, W 35°C)		W/W	2,85	2,72	2,85	2,72	2,49
Cooling capacity (A 35°C, W 7°C)		kW	7,00	10,00	7,00	10,00	12,20
EER (A 35°C, W 7°C)		W/W	3,17	2,81	3,17	2,81	2,56
Energy Efficiency Class at 35°C[1] / 55°C[1]			A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
System label 35°C / 55°C[2]			A+++ / A++	A++ / A++	A+++ / A++	A++ / A++	A++ / A++
Sound pressure	Heat / Cool	dB(A)	51 / 49	52 / 50	51 / 49	52 / 50	55 / 54
Dimension	H x W x D	mm	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	142	142	151	151	164
Refrigerant (R410A)[3]		kg / TCO_2 Eq.	2,30 / 4,802	2,30 / 4,802	2,30 / 4,802	2,30 / 4,802	2,35 / 4,907
Water pipe connector		Inch	R 1 ¼	R 1 ¼	R 1 ¼	R 1 ¼	R 1 ¼
Heating water flow (ΔT=5 K. 35°C)		L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integrated electric heater		kW	3	6	3	9	9
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	20 ~ 60	25 ~ 60	25 ~ 60	25 ~ 60	25 ~ 60
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20

Accessories	
PAW-TD20C1E5-UK	Tank 200L - Stainless steel, with tank sensor
PAW-TD30C1E5-UK	Tank 300L - Stainless steel, with tank sensor
PAW-G3KIT	G3 compliant kit (Must be ordered with above tanks)
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50L

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). 1) Scale from A++ to G. 2) Scale from A+++ to D. System label with controller. 3) WH-MXC models are hermetically sealed.

Better efficiency & value for medium temperature applications. Energy efficiency class up to A++ in a scale from A++ to G.

Better efficiency & value for low temperature applications. Energy efficiency class up to A++ in a scale from A++ to G.

Panasonic Inverter compressors are designed to achieve outstanding level of performance.

Aquarea are built-in with A class energy efficiency water pump. High efficiency water circulation included in the heating installation.

Aquarea T-CAP for extremely low temperatures. From 9 to 16kW. If the most important aspect is to maintain nominal heating capacities even at temperatures as low as -7°C or -15°C, select the Aquarea T-CAP.

For a house with traditional high-temperature radiators, is the most appropriate, can work in output water temperatures of 60°C even at outdoor temperatures as low as -20°C.

DHW. With Aquarea you can also heat your domestic hot water at a very low cost with the optional hot water cylinder.

Down to -20°C in heating mode. The Heat Pumps work in Heat Pump mode with an outdoor temperature as low as -20°C.

Renovation. Our Aquarea Heat Pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures.

Internet Control is a next generation system providing a user-friendly remote controller of air conditioning or Heat Pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

Connectivity. The communication port is integrated into the indoor unit and provides easy connection to, and control of, your Panasonic Heat Pump to your home or building management system via KNX or MODBUS.

SG Ready: Aquarea range (Bi-bloc and Mono-bloc) is holding the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Wärmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control. MCS Certificate number: MCS HP0086.*

Panasonic

To find out how Panasonic cares for you, log on to www.Panasonic.co.uk/aircon
01344 85 3182
uk-aircon@eu.panasonic.co.uk

Heating & Cooling Solutions
Panasonic Appliances Air Conditioning Europe (PAPAEU)
Panasonic UK, a branch of Panasonic Marketing Europe GmbH
Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT, UK

heating & cooling solutions

Due to the ongoing innovation of our products, the specifications of this catalogue are valid barring typographic errors, and may be subject to minor modifications by the manufacturer without prior warning in order to improve the product. The total or partial reproduction of this catalogue is prohibited without the express authorisation of Panasonic Marketing Europe GmbH.

www.eggeassociats.net