

# Panasonic

## NEW AQUAREA T-CAP MONO-BLOC

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



60<sup>th</sup> Anniversary

heating & cooling solutions

AQUAREA

# 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.

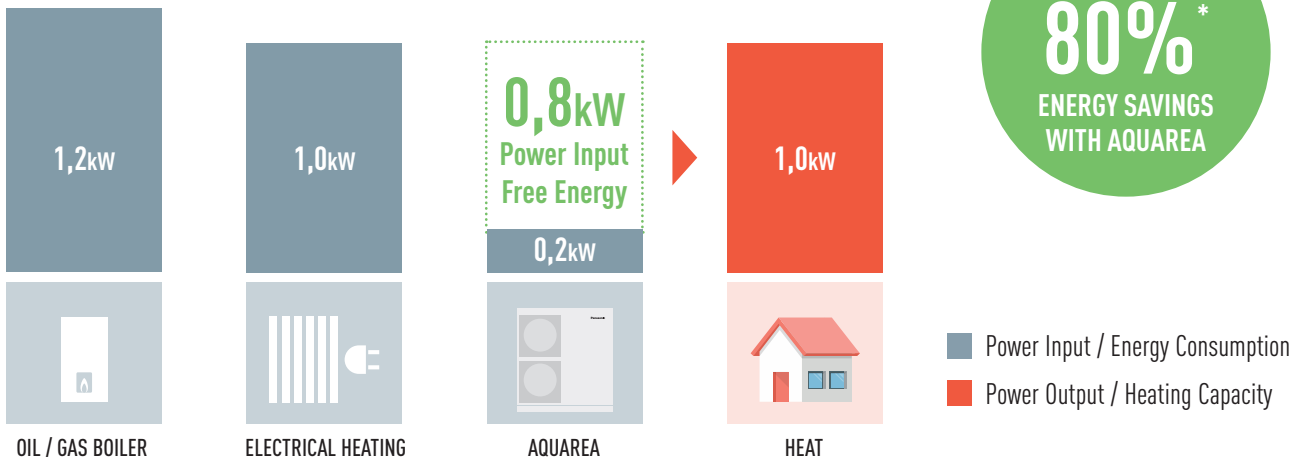
### 2 Heat Pump, 80% of energy for free

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

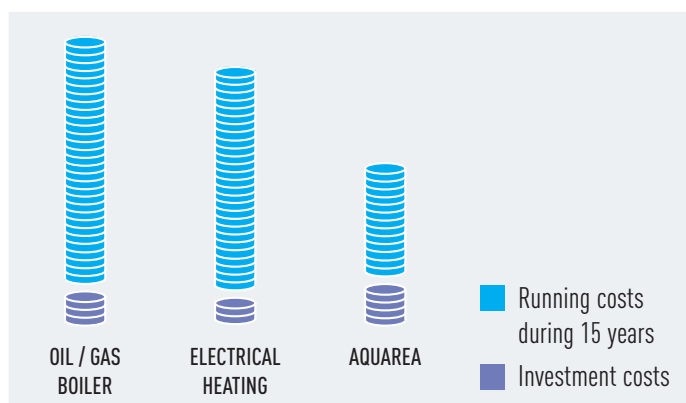


\* 80% of energy savings versus electrical heater is achieved by several Panasonic Aquarea models. Related to T-CAP Monobloc highest savings rate is 79,3% reached with WH-MXC09H3E5 and WH-MXC09H3E8. Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb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

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

### 3 Helps you save

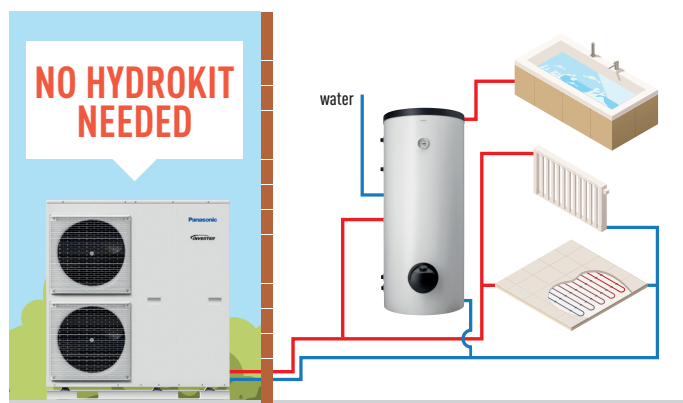
Energy cost savings of up to €1100 a year are possible compared to conventional electric heating. Whilst initial investment may be higher than other technologies, running costs are far cheaper with a short payback period on initial cost. Savings are significant particularly when compared to oil-fired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



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.

### 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.



## Aquarea Mono-bloc T-CAP: extremely high efficiency

The new 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.



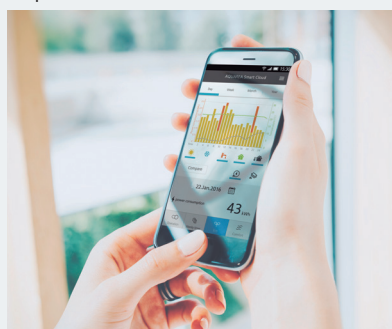
<h1 style="margin: 0;">-28°C</h1> <p style="font-size: 8px; margin: 0;">OPERATES DOWN TO EXTREME OUTDOOR TEMPERATURE</p>	<h1 style="margin: 0;">-20°C</h1> <p style="font-size: 8px; margin: 0;">NOMINAL CAPACITY WATER AT 35°C</p>	<h1 style="margin: 0;">-15°C</h1> <p style="font-size: 8px; margin: 0;">NOMINAL CAPACITY WATER UP TO 55°C</p>	<h1 style="margin: 0;">60°C</h1> <p style="font-size: 8px; margin: 0;">HOT WATER SUPPLY</p>	<h1 style="margin: 0;">A++</h1> <p style="font-size: 8px; margin: 0;">ErP 55°C Scale from A++ to G</p>	<h1 style="margin: 0;">A+++</h1> <p style="font-size: 8px; margin: 0;">35°C SYSTEM LABEL Scale from A+++ to D</p>
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## 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.

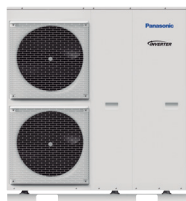


The image displays the Aquarea Smart Cloud app interface on multiple devices: a laptop, a tablet, and three smartphones. The interface shows temperature controls (25°C, 25°C, 54°C) and energy consumption graphs. A QR code is visible in the top right corner. A note below the QR code states: '\* User interface image may change without notification.'

# NEW 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.

**A++**

ErP 55°C  
Scale from A++ to G

**A++**

ErP 35°C  
Scale from A++ to G

**A+++**

35°C SYSTEM LABEL  
Scale from A+++ to D

Tentative data		Single Phase			Three Phase	
		WH-MXC09H3E5	WH-MXC12H6E5	WH-MXC09H3E8	WH-MXC12H9E8	WH-MXC16H9E8
Outdoor unit						
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 <sup>1</sup> / 55°C <sup>1</sup>		A+++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
System label 35°C / 55°C <sup>2</sup>		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] <sup>3</sup>	kg / TCO <sub>2</sub> 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 1/4	R 1 1/4	R 1 1/4	R 1 1/4	R 1 1/4
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
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20

#### Accessories

<b>PAW-TD20C1E5</b>	Tank 200L - Stainless steel
<b>PAW-TD30C1E5</b>	Tank 300L - Stainless steel
<b>PAW-TG20C1E3STD-1</b>	Tank 200L - Enamelled
<b>PAW-TG30C1E3STD-1</b>	Tank 300L - Enamelled
<b>PAW-TG40C1E3STD-1</b>	Tank 400L - Enamelled
<b>PAW-3WYVLV-SI</b>	External 3 way valve

#### Accessories

<b>PAW-BTANK50L</b>	Buffer tank 50L
<b>PAW-TD20B8E3-1</b>	Combo Tank 185L + 80L
<b>CZ-TAW1</b>	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
<b>PAW-A2W-RTWIRED</b>	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.

We guarantee the outdoor unit compressors in the entire range for five years.

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.aircon.panasonic.eu](http://www.aircon.panasonic.eu)

Panasonic Marketing Europe GmbH  
Panasonic Air Conditioning  
Hagenauer Strasse 43, 65203 Wiesbaden, Germany

heating & cooling solutions