Panasonic

AQUAREA

NEW AQUAREA T-CAP ALL IN ONE COMPACT H GENERATION

The efficient space-saving solution for those installations where the output capacity is demanding.

heating & cooling solutions

Panasonic

AQUAREA T-CAP ALL IN ONE COMPACT FOR EXTREMELY LOW TEMPERATURES, PROVIDES DOMESTIC HOT WATER, HEATING AND COOLING FROM ONE INTEGRATED COMPACT UNIT.

Adapts to your home

The Aquarea T-CAP All in One Compact range is extremely flexible. With 9kW and 12kW, you can find the ideal heat pump for your home.
The range fully adapts the system to the needs of your home, whether it is a new build or a refurbishment, as it is able to reach up to 60°C water outlet.

Energy saving means money savings

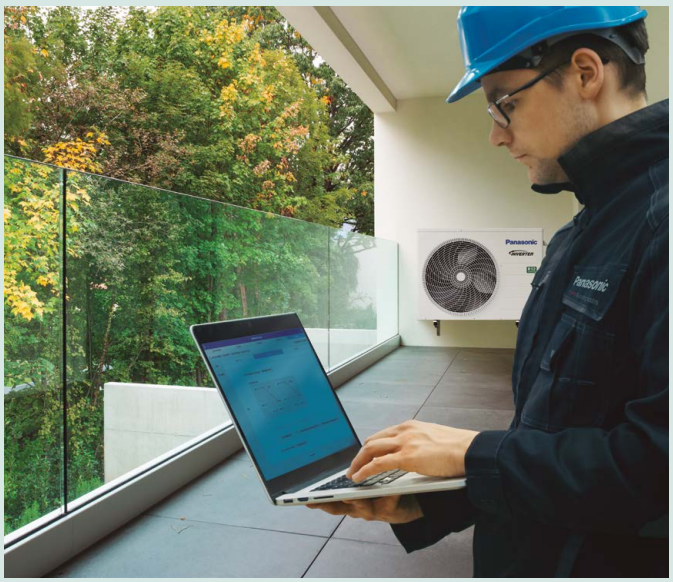
Panasonic Aquarea heat pumps are a smart choice for saving in heating, as they provide savings of up to 80 % on heating expenses compared to electrical heaters.
Aquarea units reach A+++ within the range of A+++ to D in heating and A+ in the range of A+ to F in domestic hot water, all leading to large savings in electricity bills. Consumption can be further reduced by connecting photovoltaic solar panels to the system.

Adapts to your needs.

Panasonic Aquarea heat pumps produce heating, cooling and domestic hot water with a single system that can be connected to floor heating, radiators or fan coil units. In refurbishment projects Aquarea can be integrated in existing heating systems. Aquarea can work at outdoor temperatures as low as -28ºC and allows high flexibility in installation thanks to the large piping length of up to 30 m between indoor and outdoor.

More inside, more space for you

The Aquarea All in One Compact is the ultimate space-saving solution. Supplying efficient heating, the unit generates domestic hot water and stores it inside a 185 litre stainless steel tank with high insulation to reduce energy losses. The fully integrated elements reduce the number of additional parts, shortens installation time, and allows for more space in the surrounding areas. Its 598 x 600 mm footprint, standard size of other big appliances, facilitates the integration and an easy and neat installation in the kitchen.



Why Panasonic?

Panasonic has more than 60 years of Heat Pump experience, having produced an exceptional amount of compressors. Quality is what Panasonic stands for and this is a key factor for succeeding in the European market.
As a member of the European Heat Pump Association, the production of Aquarea in Europe and maintaining high security protocols in European servers for the Aquarea Smart Cloud, makes Panasonic a trusted heating partner.

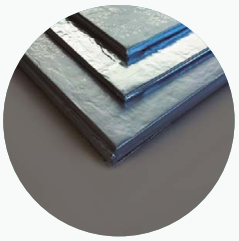
AQUAREA ALL IN ONE COMPACT: THE BEST PANASONIC TECHNOLOGY FOR YOUR HOME.

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

Technology to save space
With its small 598 x 600 mm footprint, the All in One Compact can be neatly lined up with other big appliances like a refrigerator and/or washing machine to reduce the space required for installation.

- Hydrokit and tank in a single compact unit
- No buffer tank required
- Piping length up to 50 m
- Modern remote controller can be installed up to 50 m from the indoor unit
- The residential ventilation unit with heat recovery can be installed over the unit

All in One with Vacuum Insulation Panel (VIP)
Panasonic U-Vacua™ is a high performance vacuum insulation panel (VIP) with very low thermal conductivity, that performs about 19 times better than standard urethane foam.



High quality components inside:

- Maintenance free Inox stainless 185l tank
- Variable speed water pump (class A)
- Magnetic Filter with service valve
- Expansion vessel
- Vortex flow sensor
- Back up heater
- Safety valve
- Air purge valves
- 3 way valve inside

All in One Compact awarded with the prestigious Good Design Award

GOOD DESIGN

The Good Design Award is among the most prestigious awards for product design excellence. An "excellent design" indicated by Good Design Award is a design which focusses on humanity, honesty, innovation, aesthetics and ethics. Panasonic's award-winning All-in-One Compact unit proves to be a worthy addition to any home.

GOOD DESIGN AWARD 2017: Indoor units All in One H Generation awarded with the prestigious Good Design Award 2017.

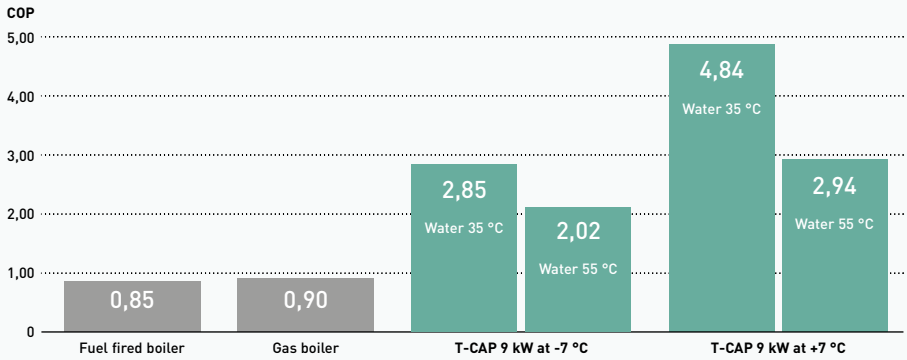
AQUAREA T-CAP FOR EXTREMELY LOW TEMPERATURES, REFURBISHMENT AND INNOVATION.

Ideal to ensure that the heating capacity is maintained even at very low temperatures. This line-up is able to maintain the heat pump output capacity until -20 °C outdoor temperature without the help of an electrical booster heater[1].

1) 35ºC flow temperature.

Higher efficiency compared to other heating systems

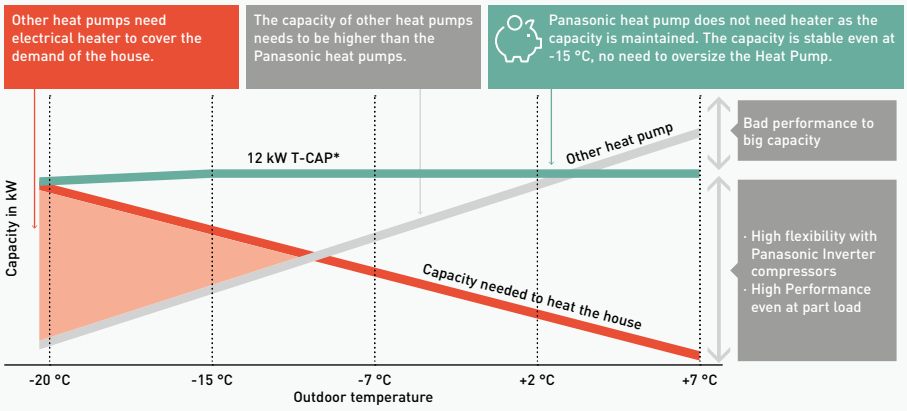
Panasonic heat pumps have a maximum COP of 5,08 at +7 °C which makes them much more efficient than others heating systems.
T-CAP is also able to provide extremely high efficiencies, whatever the outside or the water temperature.



No need to oversize to reach required capacity at low temperatures

Panasonic heat pumps can work in outdoor temperatures as low as -28 °C and maintain capacity without backup heating at -20 °C[1]. With other heat pumps, a larger capacity is required to achieve the same level of comfort at low temperatures.

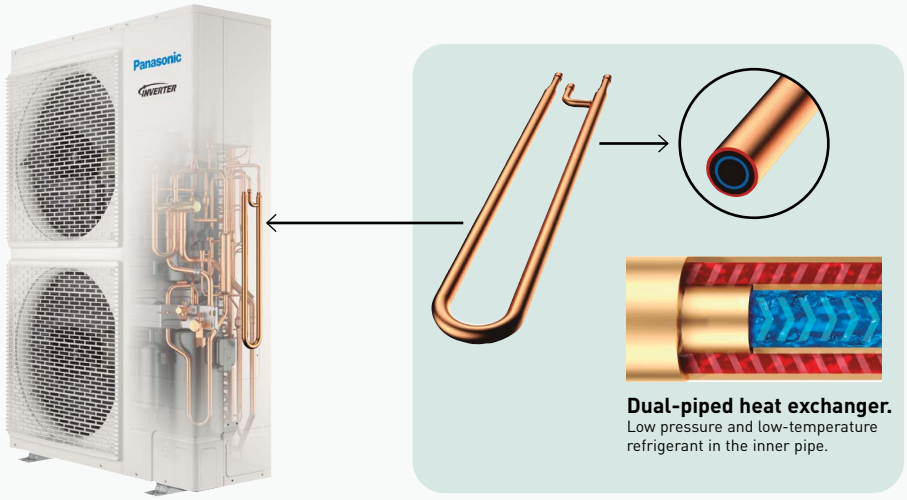
1) 35 °C flow temperature.



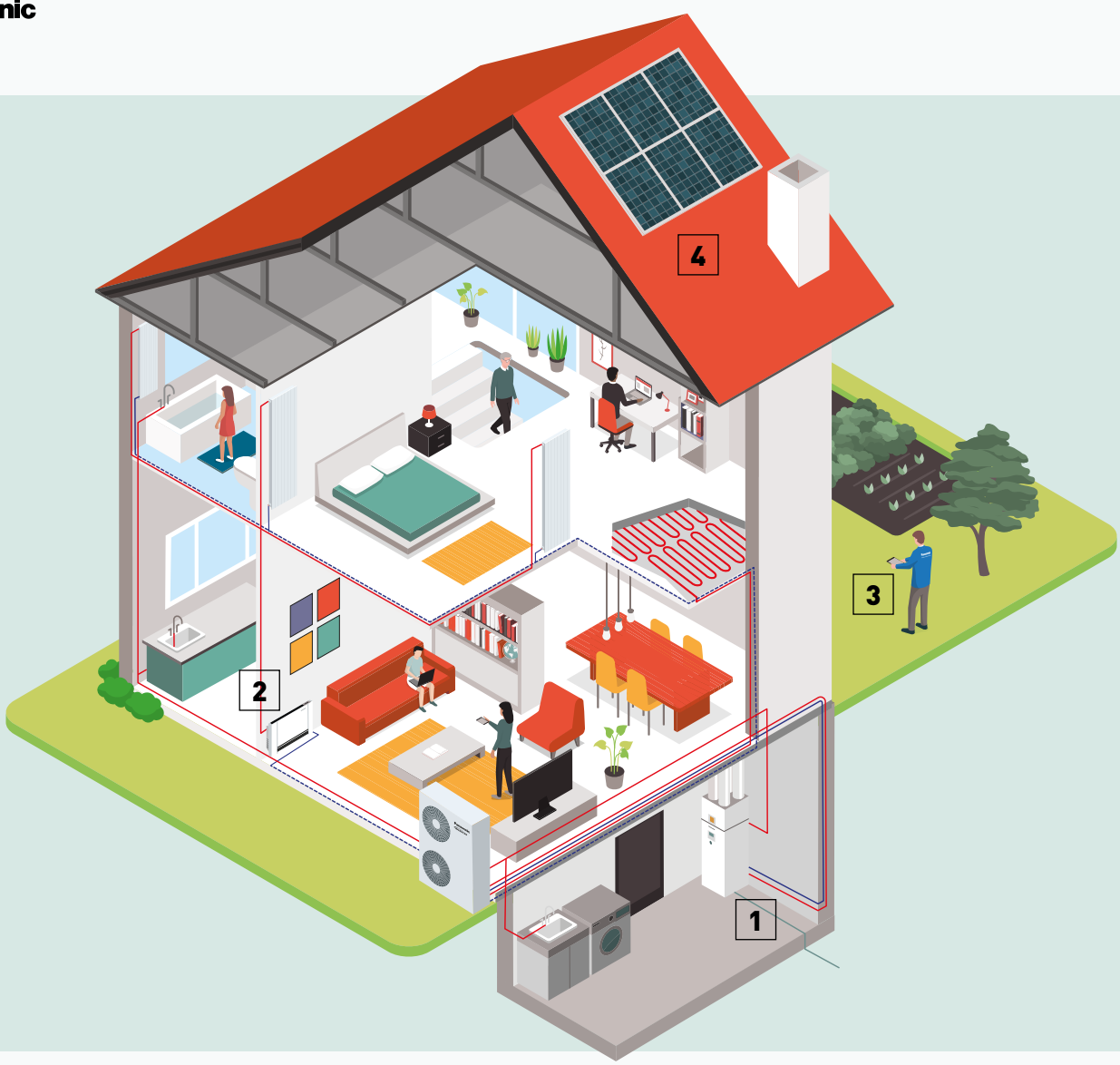
* 55 °C flow temperature. In case of 35 °C the capacity is mantained down to -20 °C.

How Aquarea T-CAP maintains performance even at -20 °C outdoors

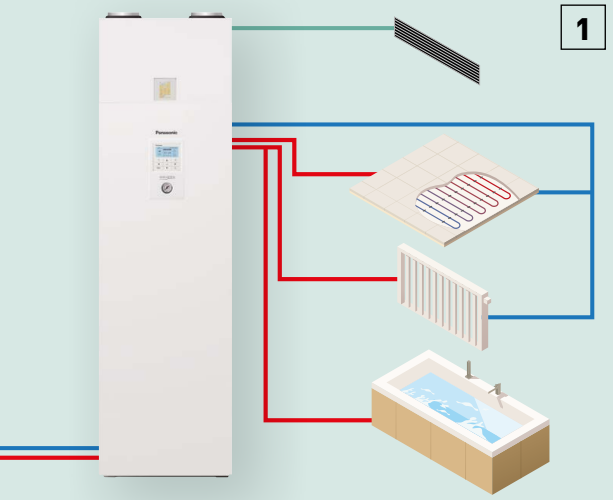
A patent has been obtained for technology that can maintain heating capacity even in low outdoor temperatures through optimal control that comes from incorporating dual-piped heat exchanger into the refrigeration cycle.



Dual-piped heat exchanger.
Low pressure and low-temperature refrigerant in the inner pipe.



COMBINE AQUAREA T-CAP ALL IN ONE COMPACT WITH A HIGH EFFICIENCY OPTIONAL ACCESSORIES FOR HIGHER ENERGY SAVINGS.



Combine Aquarea All in One Compact with Residential ventilation unit for an space saving and highly efficient solution for heating, cooling, ventilation and DHW.

CERTIFIED COMPONENT
Passive House Institute

PAW-A2W-VENTA

Fan coils for heating and cooling (optional).

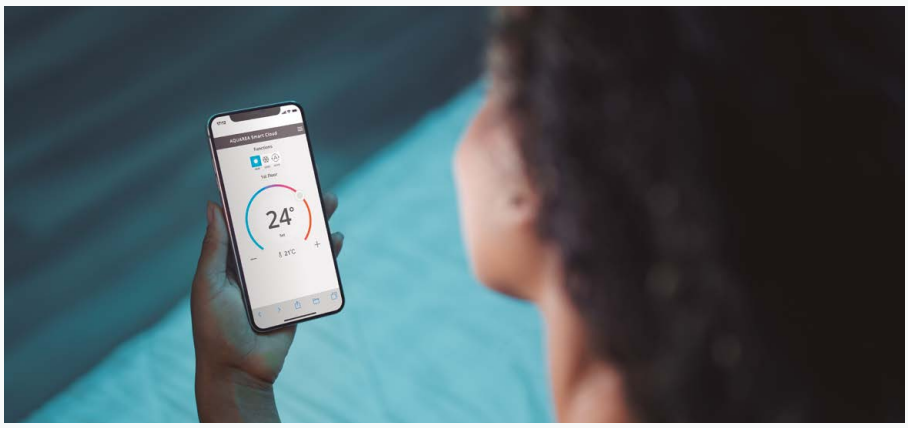
Control through smartphone, tablet or computer (optional, requires CZ-TAW1).

Heat Pump + HIT Photovoltaic solar panel (optional).

Wired LCD room thermostat with weekly timer (optional, PAW-A2W-RTWIRED).

Wireless LCD room thermostat with weekly timer (optional, PAW-A2W-RTWIRELESS).

AQUAREA SMART CLOUD: THE MOST ADVANCED HEATING CONTROL FOR TODAY AND FOR THE FUTURE.



Watch demo

* User interface image may change without notification.

Works with IFTTT

More possibilities with IFTTT.
IF This Then That: IFTTT service enables user to automatically trigger actions for Aquarea system based on other apps, web services or devices.

Connect your Aquarea to your voice assistant, get an e-mail if your Aquarea gets an error or automatically turn on your Aquarea on Heat Mode when outdoor temperature drops below specified level.

Aquarea Smart Cloud for the user

Aquarea can be connected to the Cloud with the accessory CZ-TAW1, enabling both user control and remote maintenance by service partners.

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.

How does it work?
After connecting an Aquarea J Generation to the cloud by wireless LAN or by wired LAN, the user accesses the Cloud portal to remotely operate all functions of his units. He can also permit service partners to access customised functions for remote maintenance and monitoring.

Aquarea Service Cloud for installers and maintenance

The real remote maintenance made simple:
The Aquarea Service Cloud allows installers to remotely take care of their customer's heating system, saving time and money. It also shortens the response time, increasing customer satisfaction.

Advanced functions for remote maintenance with professional screens:
· Global view at a glance
· Error log history
· Full unit information
· Statistics always available
· Most settings available

Aquarea T-CAP All in One Compact H Generation			Single phase (Power to indoor)	
Kit			**KIT-AXC09HE5C**	**KIT-AXC12HE5C**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00 / 4,84	12,00 / 4,74
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00 / 3,59	12,00 / 3,44
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	7,00 / 3,17	10,00 / 2,81
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181 / 130	170 / 130
		SCOP	4,59 / 3,32	4,32 / 3,32
	Energy class [1]	A+++ to D	A+++ / A++	A++ / A++
Heating warm climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	235 / 158	231 / 158
		SCOP	5,95 / 4,02	5,86 / 4,02
	Energy class [1]	A+++ to D	A+++ / A+++	A+++ / A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160 / 125	160 / 125
		SCOP	4,08 / 3,20	4,08 / 3,20
	Energy class [1]	A+++ to D	A++ / A++	A++ / A++
Indoor unit			**WH-ADC1216H6E5C**	**WH-ADC1216H6E5C**
Sound pressure	Heat / Cool	dB(A)	33 / 33	33 / 33
Dimension	H x W x D	mm	1640 x 598 x 600	1640 x 598 x 600
Net weight		kg	101	101
Water pipe connector		Inch	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,80	34,40
Capacity of integrated electric heater		kW	6,00	6,00
Water volume		L	185	185
Maximum water temperature		°C	60	60
Material inside tank			Stainless steel	Stainless steel
DHW tank ERP average climate η / COPdHW		ηwh % / COPdHW	92 / 2,30	92 / 2,30
DHW tank ERP warm climate η / COPdHW		ηwh % / COPdHW	107 / 2,67	107 / 2,67
DHW tank ERP cold climate η / COPdHW		ηwh % / COPdHW	72 / 1,81	72 / 1,81
Outdoor unit			**WH-UX09HE5**	**WH-UX12HE5**
Sound power [3]	Heat	dB(A)	66	66
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 101	1340 x 900 x 320 / 101
Refrigerant (R410A) / CO_2 Eq.		kg / T	2,85 / 5,951	2,85 / 5,951
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / Elevation difference (in/out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 50	10 / 50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

INTERNET CONTROL: Optional.

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

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

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

Better efficiency & value for domestic hot water.
Energy efficiency class up to A+ in a scale from A+ to F.

Aquarea T-CAP for extremely low temperatures.
From 9 to 16 kW. If the most important aspect is to maintain nominal heating capacities even at temperatures as low as -7 °C or -20 °C, select the Aquarea T-CAP.

60 °C output water.
Reaches water outlet temperature up to 60 °C.

Aquarea J and H Generation heat pumps in combination with the optional PCB CZ-NSP4 hold the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Warmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.
Keymark: Check all our certified heat pumps on: www.heatpumpkeymark.com.
Passive House Institute: Certified models can be checked in https://database.passivehouse.com.

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To find out how Panasonic cares for you, log on to: www.aircon.panasonic.eu

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