

NEW AQUAREA HIGH PERFORMANCE ALL IN ONE COMPACT H GENERATION

The efficient space-saving solution for
heating, cooling and DHW





AQUAREA ALL IN ONE PROVIDES DOMESTIC HOT WATER, HEATING AND COOLING FROM ONE INTEGRATED COMPACT UNIT.





Adapts to your home

The Aquarea All in One Compact range is extremely flexible. From 3kW to 16kW, you can find lower initial investment and lower operational cost options. If you have a well insulated home, why install oversized equipment that will cost more and will have higher running costs?

The Aquarea All in One Compact range fully adapts the system to the needs of your home, whether it is a new build or a refurbishment. It allows a degree of flexibility in installation thanks to the large piping length of up to 50m between indoor and outdoor (see table each model limitations).



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 -20°C and allows high flexibility in installation thanks to the large piping length of up to 50 m between indoor and outdoor (see table each model limitations).



Energy saving means money savings

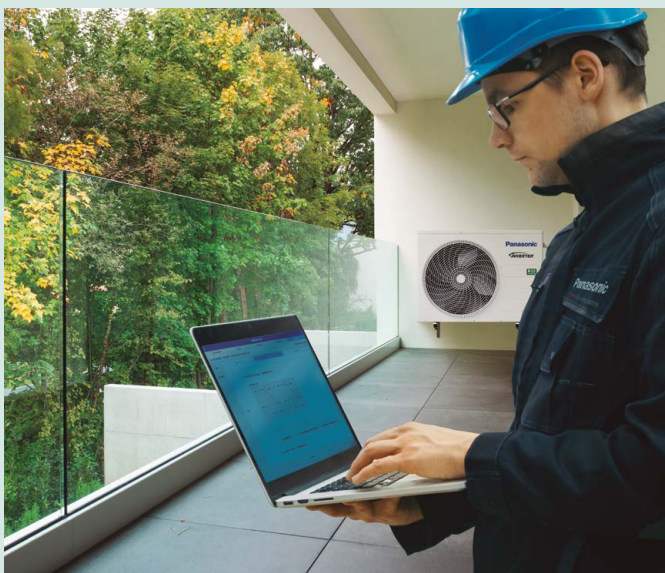
Panasonic Aquarea heat pumps are a smart choice for saving in heating, as they provide savings of up to 80 % on heating expenses compared to electrical heaters.

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.



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.



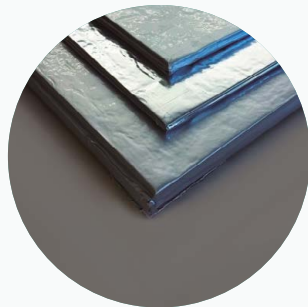


AQUAREA ALL IN ONE: THE BEST PANASONIC TECHNOLOGY FOR YOUR HOME

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

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

How Panasonic contributes to a decarbonised society

Panasonic is committed to develop products with greater energy efficiency.

Our expertise gained over the years has helped to launch a range of products that contribute to a more carbon-free society.

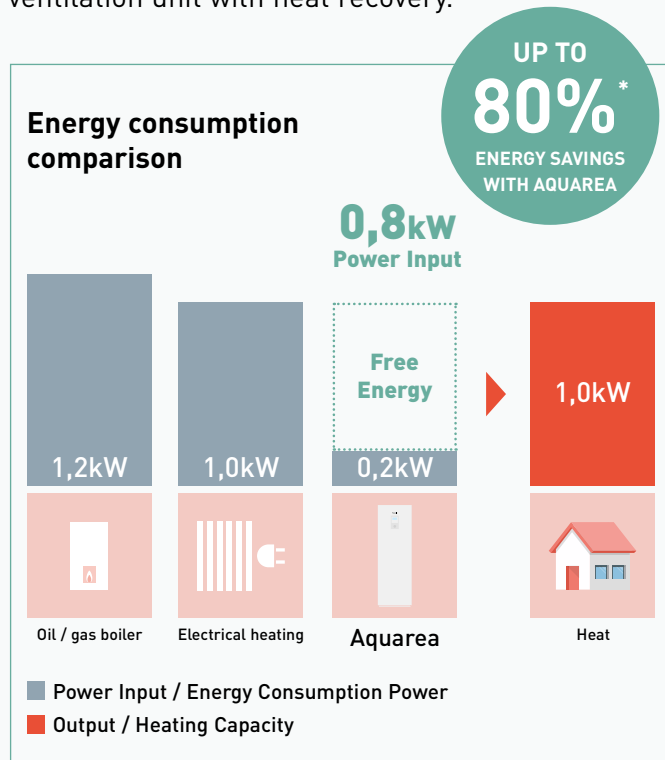
Highly efficient Panasonic solutions can help to significantly reduce the energy consumption of the house:

- Aquarea High performance heat pump for heating, cooling and domestic hot water production
- Aquarea Smart Cloud, for energy monitoring
- Heat recovery ventilation system
- PV panels to produce renewable energy on-site



Technology to save energy

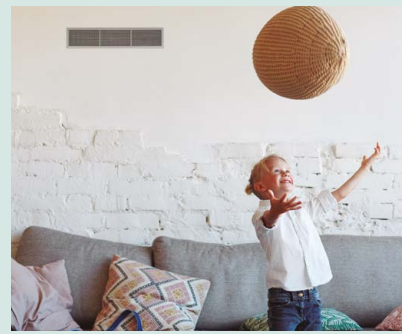
Aquarea captures heat energy from the ambient air and transfers it to heat the water needed to warm your home for domestic hot water and even to cool the house if wished. This technology works even when outdoor temperatures are extremely low. With Aquarea up to 80% of the heat energy required is taken from the ambient air. For further energy savings, Aquarea All in One Compact can be combined with the residential ventilation unit with heat recovery.



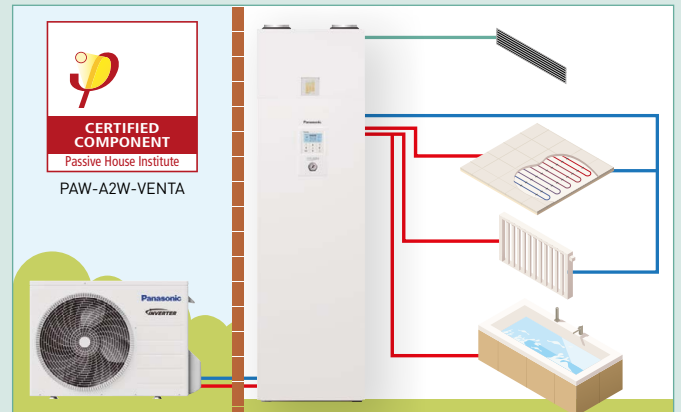
* Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb / 6°C Wet Bulb. Conditions : Water input temperature: 30°C Water output temperature: 35°C



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.



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



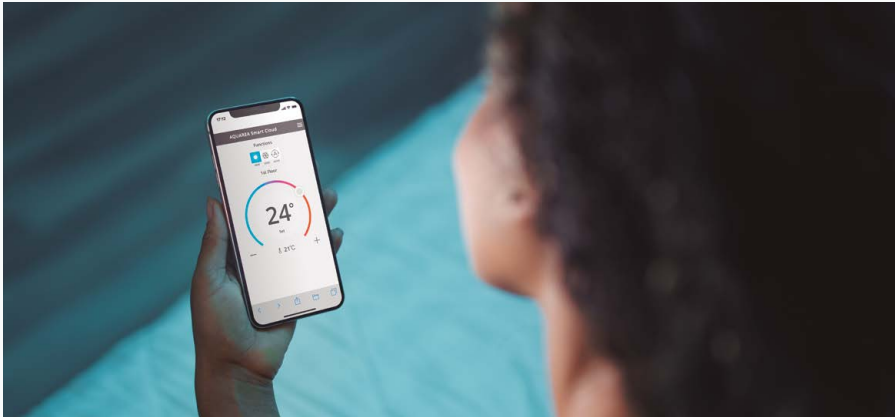
Technology to save space

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



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




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.


 **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.



How does it work?

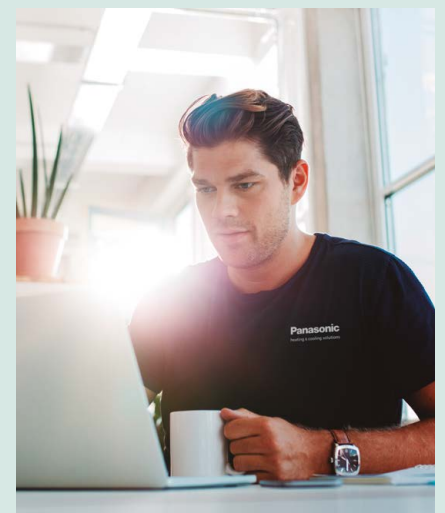
After connecting an Aquarea J Generation to the cloud by wireless LAN or by wired LAN, the user accesses the Cloud portal to remotely operate all functions of his units. He can also permit service partners to access customised functions for remote maintenance and monitoring.

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



NEW Aquarea High Performance All in One Compact H Generation Single phase. Heating and Cooling • R410A

Energy efficiency: A+++ in heating at 35 °C and A in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: 598 x 600 footprint / Built-in magnetic water filter.

Comfort: Operating range down to -20 °C.

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.



			Single phase (Power to indoor)	
Kit			KIT-ADC12HE5C	KIT-ADC16HE5C
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	12,00/4,74	16,00/4,28
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	11,40/3,44	13,00/3,28
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	10,00/2,81	12,20/2,56
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	190/134	190/130
	SCOP		4,82/3,42	4,82/3,33
Heating warm climate (W 35 °C / W 55 °C)	Energy class ¹⁾	A+++ to D	A+++ / A++	A+++ / A++
	Seasonal energy efficiency	ηs %	245/159	245/169
Heating cold climate (W 35 °C / W 55 °C)	SCOP		6,21/4,05	6,20/4,30
	Energy class ¹⁾	A+++ to D	A+++ / A+++	A+++ / A+++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	168/121	168/121
	SCOP		4,29/3,10	4,28/3,10
Indoor unit	Energy class ¹⁾	A+++ to D	A++ / A+	A++ / A+
			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 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed
Heating water flow (ΔT=5 K, 35 °C)		L/min	34,40	45,90
Capacity of integrated electric heater		kW	6,00	6,00
Water volume		L	185	185
Maximum water temperature		°C	65	65
Material inside tank			Stainless steel	Stainless steel
DHW tank ERP average climate η / COPdHW		ηwh % / COPdHW	92/2,30	88/2,20
DHW tank ERP warm climate η / COPdHW		ηwh % / COPdHW	107/2,67	104/2,59
DHW tank ERP cold climate η / COPdHW		ηwh % / COPdHW	72/1,81	70/1,74
			WH-UD12HE5	WH-UD16HE5
Sound power ³⁾	Heat	dB(A)	65	65
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	2,55/5,324	2,55/5,324
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 - 50/30	3 - 50/30
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 - 55/5 - 20	20 - 55/5 - 20

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-NS4P	Additional functions PCB

Accessories	
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 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. *** Available in May 2021.

AQUAREA

Aquarea High Performance: Energy saving

Aquarea High Performance delivers outstanding efficiency in heating and domestic hot water. It is easy to maintain thanks to the built-in devices such as the water filter, water flow sensor and connectivity to the Smart Cloud remote service. It is also able to operate as low as -20°C.

4,74
COP

-20°C

OPERATES DOWN TO EXTREME
OUTDOOR TEMPERATURE

A CLASS
WATER PUMP

AUTO SPEED

A++

ErP 55°C
Scale from A+++ to D

A+++

ErP 35°C
Scale from A+++ to D

A

DHW
Scale from A+ to F

EASY
MAINTENANCE

EASY MAINTENANCE



INVERTER+



DHW



WATER FILTER
WITH MAGNET



FLOW SENSOR



BOILER
CONNECTION



ADVANCED
CONTROL



OPTIONAL WI-FI



BMS
CONNECTIVITY



5 YEARS
COMPRESSOR
WARRANTY

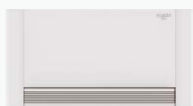


GOOD
DESIGN

Inverter compressor provides more precise temperature control and keeps the ambient temperature constant with lower energy consumption and quieter operation. — DHW. With Aquarea you can also heat your domestic hot water at a very low cost with the optional hot water cylinder. — Water filter with magnet. Easy access & fast clip technology for J Generation. — Water flow sensor Renovation. — Our Aquarea Heat Pumps can be connected to an existing or new boiler for optimum comfort even at very low outdoor temperatures. — Advanced control. Remote controller with full dotted 3,5" wide back light screen. Menu with 17 available languages easy to use for installer and user. Included on J Generation. — Internet control (Optional). 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 can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic Heat Pump to your home or building management system. — 5 years compressor warranty. We guarantee the outdoor unit compressors in the entire range for five years. — GOOD DESIGN AWARD 2017: Indoor units ALL in One H Generation awarded with the prestigious Good Design Award 2017.

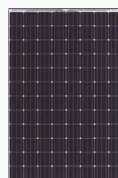
Other accessories for Aquarea All in One:



High efficient radiators for heating and cooling



Versatile and efficient fan coil for heating and cooling



Heat Pump + HIT Photovoltaic solar panel



Residential ventilation unit

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 Wärmepumpe (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>.



Panasonic

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

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heating & cooling solutions

