

100 % Panasonic, the DNA of Japanese craftsmanship

JAPAN
QUALITY



Applying advanced technologies that truly make life better, we live by an unparalleled commitment to product quality. Panasonic is building on the Japanese tradition of uncompromising quality control worldwide, developing and manufacturing fine products and delivering them to customers everywhere.

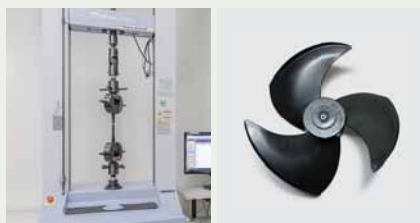
At Panasonic, we believe that the best air conditioner is one that works quietly and effectively in the background whilst minimising its impact on the environment

People who use our products can look forward to long years of high-quality performance without the need for constant service. As part of our rigorous design and development process, Panasonic air conditioners undergo a variety of stringent tests to ensure their effectiveness and long-term reliability. Tests for durability, waterproofing, shock resistance, and noise are conducted on component parts or on the finished products themselves.

As a result of all of these time consuming efforts, Panasonic air conditioners meet industrial standards and regulations in every country where they are sold.

International Standard Quality

To uphold the company's reputation around the world, Panasonic strives continuously to offer quality with minimized environmental impact.



Reliable parts that meet or exceed industrial standards.

In every country where they are sold, Panasonic air conditioners comply with all required industrial standards and regulations. In addition, Panasonic conducts stringent testing to ensure the reliability of parts and materials. The strength of the resin material used in a propeller fan is confirmed by a tension test.



Compliance with RoHS / REACH substance restrictions.

Panasonic products and used materials strictly comply with chemical substance restrictions as defined by RoHS or REACH. During the development and production of parts, stringent inspections are conducted on over 100 materials to ensure that no hazardous substances are included.



Sophisticated production process.

Panasonic's air conditioner production lines employ state-of-the-art factory automation technologies to ensure products are manufactured with high attention to quality to meet expectations of reliability and trustworthiness.

Durability

At Panasonic we know the importance of a long service life with minimal maintenance. That's why we subject our air conditioners to a wide range of stringent durability tests.



Long-term durability test.

To ensure durability and stable operation for many years, we conduct a long-term continuous operation test under conditions that are much more severe than actual operating conditions.



Compressor reliability test.

After the continuous operation test, we remove the compressor from a selected outdoor unit, disassemble it, and examine the internal mechanisms and parts for potential failure. This helps ensure reliable long-term performance under harsh conditions.



Waterproofing test.

The unit - which is subject to rain and wind - complies with IPX4 waterproof specifications. Contact sections on printed circuit boards are resin-potted to prevent adverse effects caused by exposure to water (an unlikely occurrence).

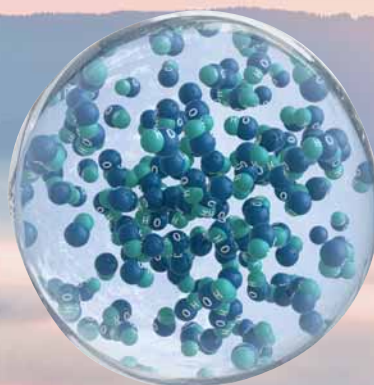
Bringing nature's balance indoors

nanoe™ X, technology with the benefits of hydroxyl radicals.

The well-being benefits of nature are well known – but do you know the power of hydroxyl radicals?

Abundant in nature, hydroxyl radicals (also known as OH radicals) have the capacity to inhibit pollutants, viruses, and bacteria to clean and deodorise. nanoe™ X, technology can bring these incredible benefits indoors so that hard surfaces, soft furnishings, and the indoor environment can be a cleaner and pleasant place to be, whether at home, at work, or visiting hotels, shops, restaurants etc.

The nanoe™ X performance varies depending on the room size, environment and usage and it may take several hours to reach the full effect (see page 73 for more detail). nanoe™ X is not medical device, local regulations on building design and sanitary recommendations must be followed.



Hydroxyl radicals contained in water

In today's health-conscious world, we care about taking exercise, we care about what we eat and what we touch, we also care about what we breathe – and technology exists to bring good outdoor air, indoors.



Panasonic's nanoe™ X technology takes this a step further and brings nature's detergent – hydroxyl radicals – indoors to help create an ideal environment

Thanks to the nanoe™ X properties, several types of pollutants can be inhibited such as certain types of bacteria, viruses, mould, allergens, pollen and certain hazardous substances.



nanoe™ X reliably reaches pollutants.



Hydroxyl radicals denature pollutants' proteins.



Pollutants activity is inhibited.

7 effects of nanoe™ X – Panasonic unique technology

* Refer to <https://aircon.panasonic.eu> for more details and validation data.

Deodorises



Odours

Capacity to inhibit 5 types of pollutants



Bacteria and viruses



Mould



Allergens



Pollen



Hazardous substances



Skin and hair

International validation in testing facilities

Effectiveness of nanoe™ technology has been tested by 3rd parties laboratories in Denmark, Malaysia and Japan.



Danmark



Malaysia

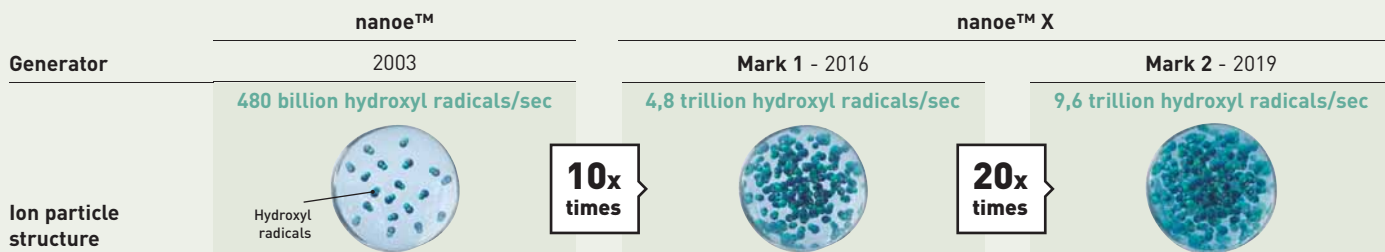


Japan



First nanoe™ device was developed by Panasonic in 2003

After years R&D investments, the technology has been improved with launch of nanoe™ X.



nanoe™ and nanoe™ X world in Japan

PUBLIC TRANSPORT



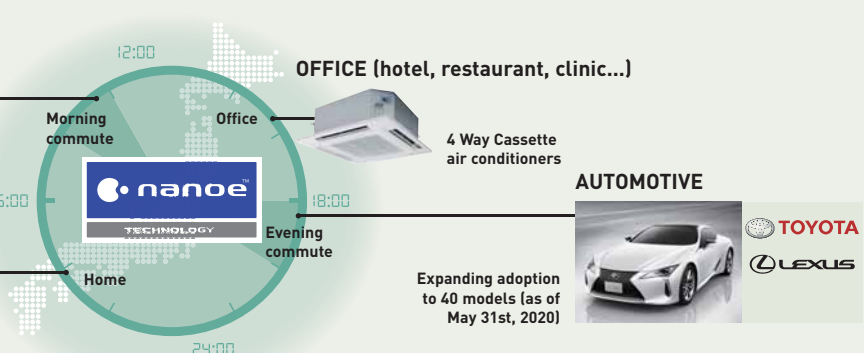
JR East. Yamanote line: Adopted for new railcar models

HOME

Humidifying air purifiers



Air conditioners



Projects & Case Studies of Panasonic Heating and Cooling Solutions



Panasonic Heat Pumps with Top Technology



AQUAREA



Welcome to Aquarea air to water heat pump

Aquarea's Air to Water Heat Pump for residential and commercial applications.

Offering capacities from 3 kW all the way through to 16 kW, the Aquarea Heat Pump Range is the widest on the market, ensuring a system is available, whatever your heating and cooling needs. Suitable for new build and refurbishment projects, the solutions are cost-effective with minimised environmental impact.

Aquarea J generation R32.

Aquarea is now available in R32, making Aquarea excellent choice for those who really care the environment. Aquarea J Series, the new generation designed for R32 refrigerant includes many other improvements: high piping range, chiller function cooling down to 10 °C, DHW COP up to 3,3, improved backup heater function for real bivalent function, SG Ready and PV function for cooling, heating curve down to -20 °C, fixed or auto water pump speed, magnet filter, efficient or comfort mode for DHW, and other improvements to bring more value and to make installation easier.



New Aquarea All in One Compact.

The Aquarea All in One Compact unit is the ultimate space-saving solution. Its 598 x 600 mm footprint, standard size of other big appliances, reduces the space required for the installation. Supplying efficient heating, the unit generates domestic hot water and stores it inside a 185L stainless steel tank with U-Vacua™ insulation to reduce energy losses. Being a real All-in-one unit, the number of additional components is reduced and the installation time is shortened.

Aquarea Service Cloud for professionals.

Aquarea Service Cloud will activate remote maintenance service while the end user is controlling and monitoring its heating and DHW remotely. This remote maintenance will save time and installation visits by connecting Aquarea to a powerful cloud infrastructure. Remote checker, remote error codes, remote set-up functions... all this will be possible by installers with CZ-TAW1 and end user acceptance.



New residential heat recovery solution.

Ventilation systems with heat recovery offer users a high degree of living comfort thanks to temperature controlled and clean air. Heat recovery units in combination with Aquarea heat pump are the ideal solution for house owners which are looking for high performance and maximum comfort.

Advanced cascade control.

The Cascade Manager enables the control of up to 10 Aquarea heat pumps. Among others, it offers features like DHW logic, control of 3-way valves, Modbus IP for BMS communication, connection of up to 3 M-Bus electricity meters, PV demand functions, quick set-up and easy control by the integrated touch display.



Aquarea, top-level efficiency across the board



Aquarea J Generation: much more than Aquarea in R32. Available in 3/5/7/9 kW All in One, Bi-bloc and 5/7/9 kW Mono-bloc.

1 Keeping Aquarea essence

- Free space on the top of All in One
- A+++ in heating mode at 35 °C (scale from A+++ to D)
- Service Cloud by accessory

2 Higher efficiency

- SCOP up to + 5 % vs H Generation
- DHW COP up to 3,30 (for 3 and 5 kW models)

3 More flexibility in design

- 60 °C water temperature
- Piping length improved: 7/9 kW: 50/30 m (up to 40 m without minimum floor area*) - 3/5 kW: 25/20 m
- Chiller function cooling down to 10 °C outdoor temperature

* With a 5 % decrease of the capacity.

4 New smart functions

- SG ready for heating, cooling and DHW modes
- Utility remote bivalent control: By dry contacts*
- Stop external device when defrost by Dry contact (for fan coil fan stop)*

* Can not be used at same time.

5 More comfort

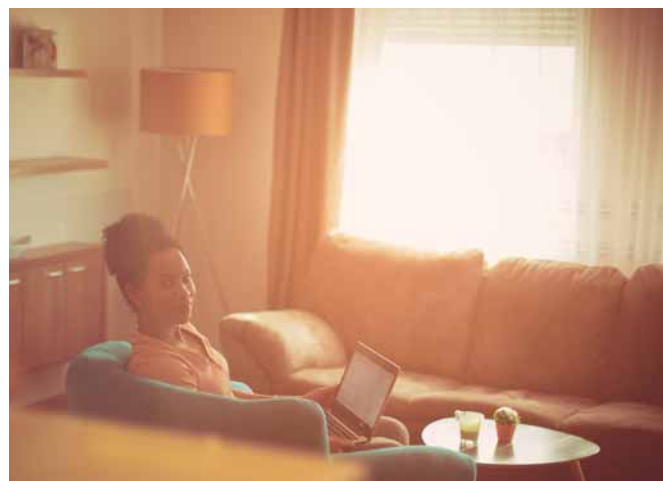
- Better comfort in extreme low temperature: Heating curve can be set up down to -20 °C
- Efficient or comfort mode for DHW: Part load for better efficiency or full load to reduce the heat up time
- DHW two sensor position selectable for All in One: Efficient position (best DHW COP) or bigger volume of hot water

Other improvements: More silent outdoor units / Magnet filter for water cycle.

R32 refrigerant gas: A 'small' change that changes everything

Panasonic recommends R32 because it is comparably environmentally friendly. Compared to R22 and R410A, R32 has a very low potential impact on the depletion of ozone layer and global warming.

In line with the European countries who are concerned in protecting and maintaining the environment by participating in the Montreal Protocol to protect the Ozone Layer and prevent Global Warming, Panasonic is leading the switch to R32.



Aquarea H Generation.

The beauty of comfort. The H Generation is available from 3 to 16 kW. The small capacities are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3 kW).

Better Efficiency & Value A++/A+++.

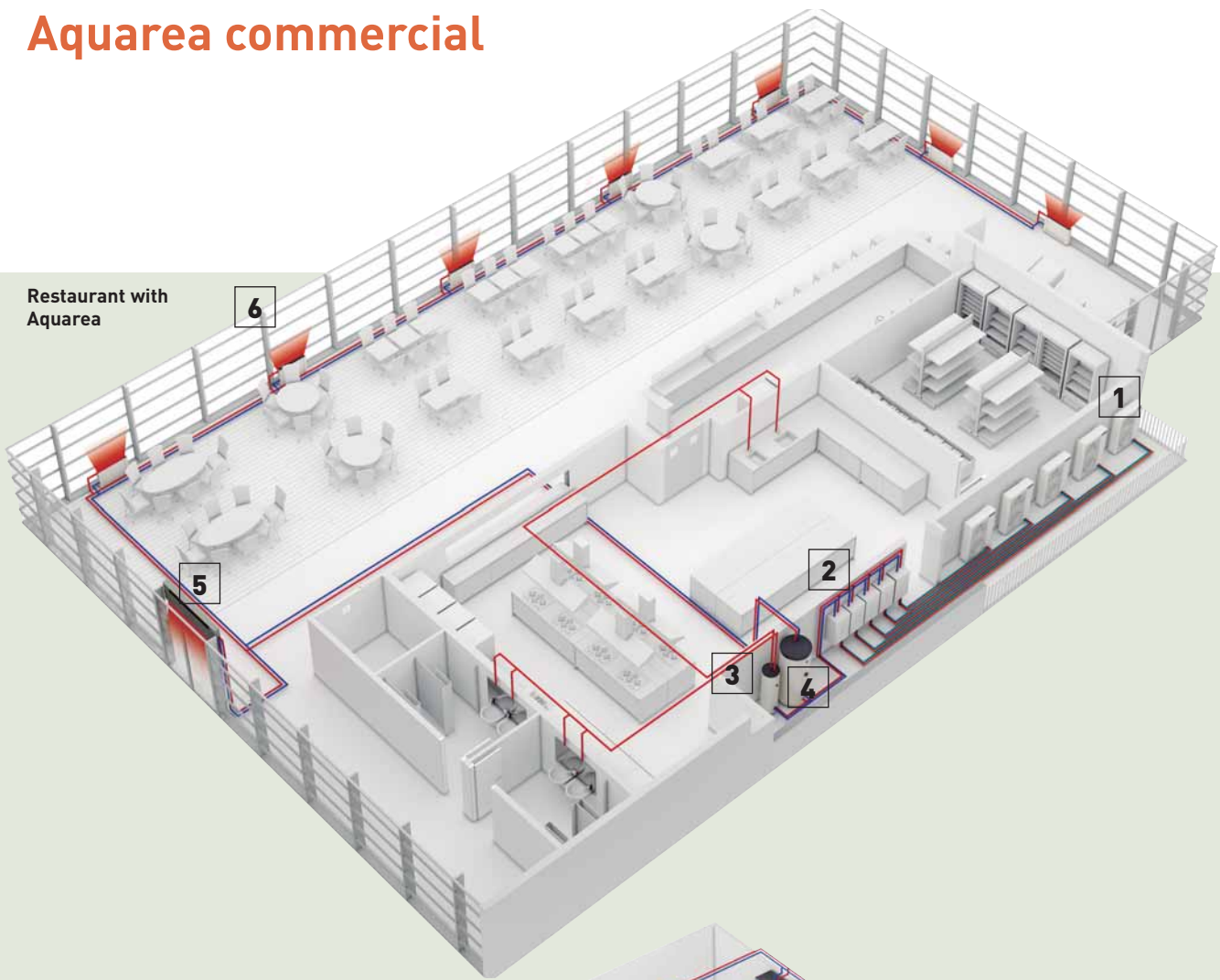
- A++ for medium temperature applications (radiators. ErP 55 °C in the scale from A+++ to D)
- A+++ for low temperature applications (floor heating. ErP 35 °C in the scale from A+++ to D)

Aquarea, a generation of energy efficient heating and hot water.

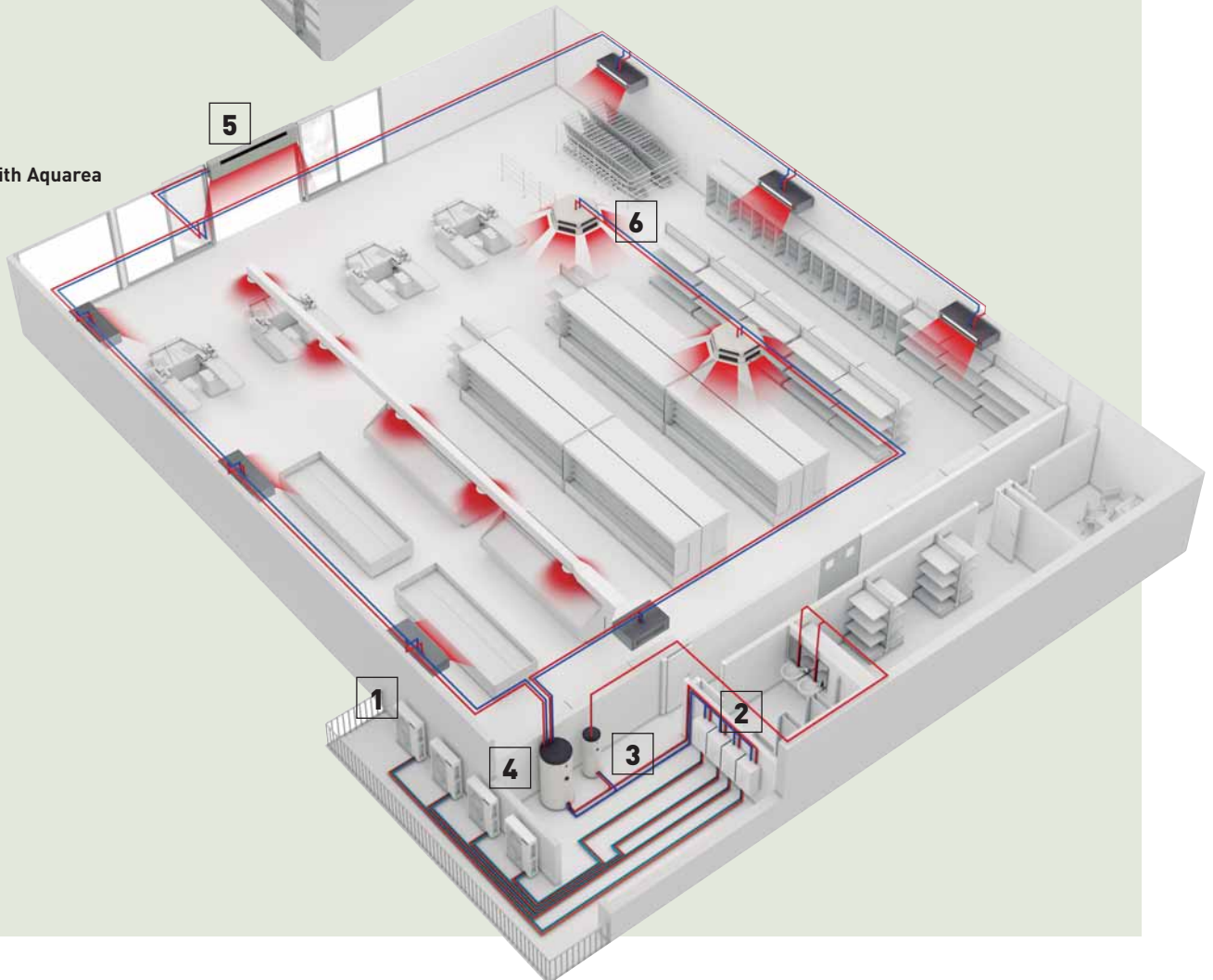
Thanks to the system's high degree of technology and advanced control, it is able to maintain a high output capacity and efficiency even at -7 °C and -15 °C. The Aquarea's software can be set for the requirements of low consumption homes in order to maximise energy efficiency. Whatever the weather, Aquarea can work even at -28 °C (for T-CAP All in One and Bi-bloc) lower limit. The compact design of the outdoor unit makes installation very easy.

Aquarea commercial

Restaurant with Aquarea



Supermarket with Aquarea



Solutions for best savings. Efficient Panasonic heat pumps can help to significantly reduce the energy consumption of your business.

Panasonic Aquarea Heat Pumps offer space saving, energy-efficient heating and can be easily adapted for installation in flats, houses and commercial premises. Businesses producing heating, cooling and big quantities of hot water at 65 °C, such as restaurants or supermarkets, installing an Aquarea Heat Pump system can also use this wasted heat to improve energy efficiency further.

Heat pump technology is scalable, meaning that it can be installed in buildings of varying sizes, offering both small and large-scale heating solutions. The technology is also environmentally friendly when compared to traditional

heating systems alternatives based on fossil fuel energy and in addition it is more energy efficient.

Key points:

- Efficient hot water production
- Fast return of investment
- Easy control
- Easy integration in the existing water system: fan coils, floor heating, domestic hot water tanks, etc
- Very good part load management
- High efficiency



1 Aquarea T-CAP.
16 kW heat pumps on cascade mode. T-CAP line-up is an ideal replacement for old gas/oil boilers.



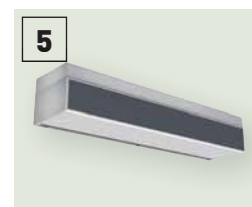
2 High efficiency Aquarea T-CAP hydromodule.
Indoor unit of Aquarea Bi-bloc systems. When a Mono-bloc system is used, the hydromodule is integrated in the outdoor unit.



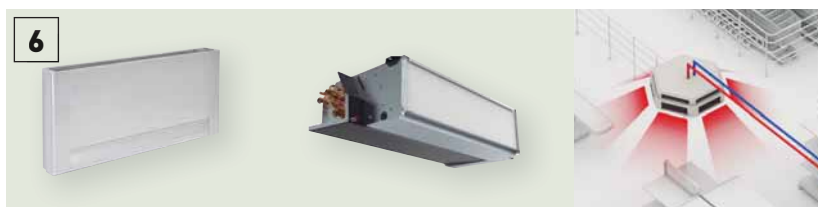
3 Super high efficiency Tanks.
Combining Panasonic Aquarea with a high efficiency tank ensures the desired volume of hot water, at the correct temperature while reduced energy costs.



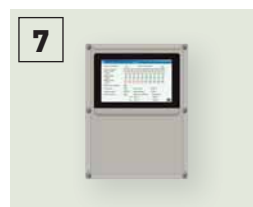
4 Buffer Tank.
Panasonic Aquarea can be combined with the hydraulic elements of the new or existing water system.



5 Air Curtain with water Coil.
Water coil air curtains can be used in the hydraulic system to have efficient performance of the water system.



6 Fan coils for heating and cooling.
Aquarea heat pumps can be easily connected to the existing water system: 2 way and 4 way fan coils, floor heating, DHW tanks...



7 Cascade manager.
The Cascade manager enables the control of up to 10 Aquarea heat pumps (balancing the working hours and making the operation more efficient) and up to 2 buffer tanks.



8 BMS integration.
The cascade system can be easily integrated in a Modbus project thanks to the Cascade manager.

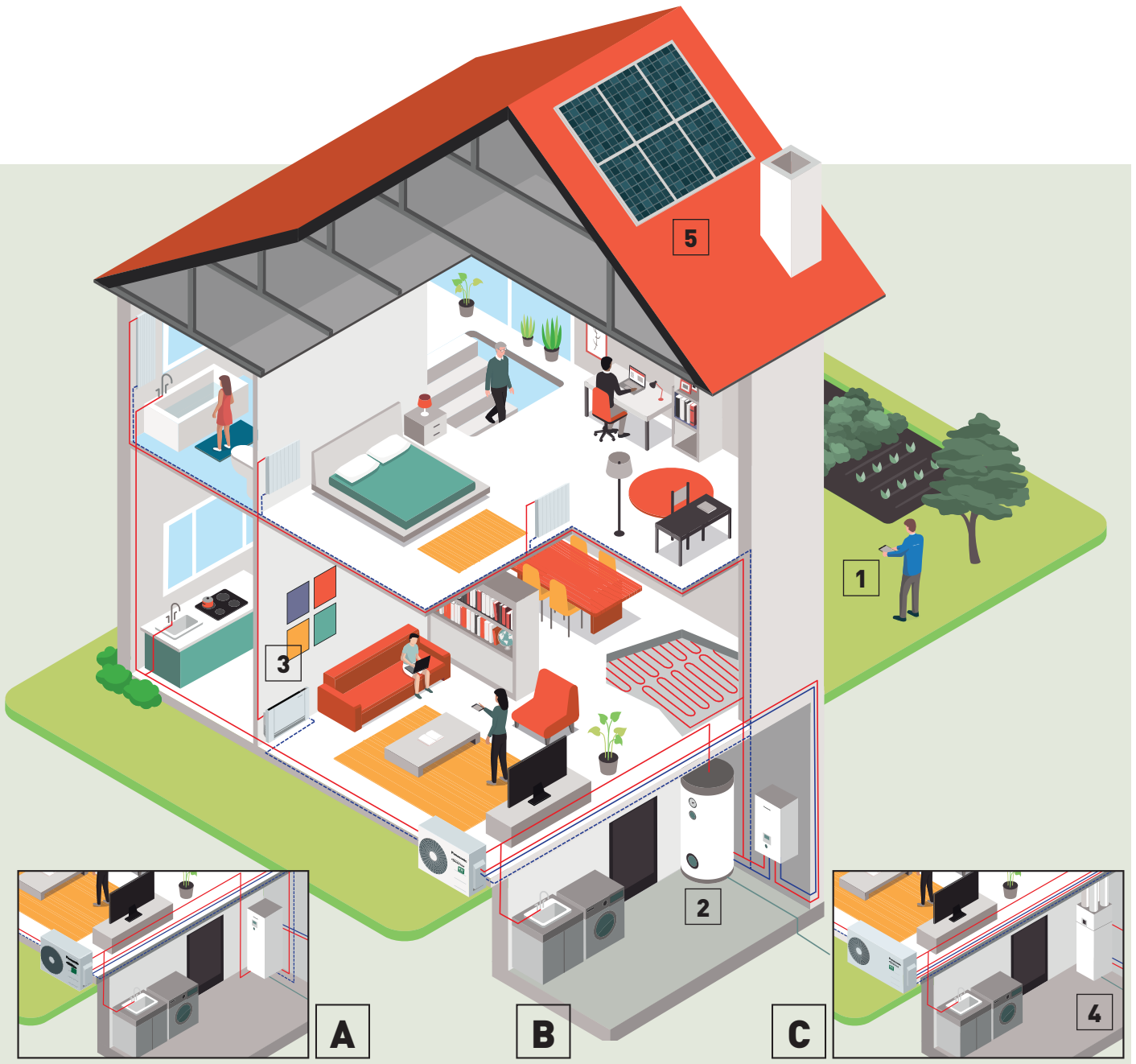


Burger & Lobster restaurant. Bath, UK.
Panasonic's air-to-water Aquarea system has been installed in the latest glamorous Burger & Lobster restaurant in Bath. The Octagon Chapel, a large listed building in the city centre, was converted to accommodate the restaurant, and Panasonic's Aquarea system provided an extensive, energy efficient and unobtrusive heating and cooling solution.



Carluccio's restaurant. UK.
One of UK's leading Italian restaurant, Carluccio's, wanted to install a system which would provide the desired volume of hot water, at the correct temperature while at the same time reduced energy costs. FWP installed a 12 kW Aquarea T-CAP mono bloc unit which would allow for the free air from the kitchen roof space to be transferred through condensing unit providing hot water at the optimum temperature.

Aquarea Heat Pump Line-Up



A
All in One system.



B
Bi-bloc system.



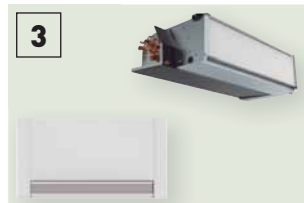
C
Mono-bloc system.



1
Control through smartphone, tablet or computer (optional).



2
Super High Efficiency cylinder (optional).



3
Fan coils for heating and cooling (optional).



4
Heat Recovery Ventilation + DHW Tank (optional).



5
Heat Pump + HIT Photovoltaic solar panel (optional).

Panasonic Aquarea offers you solutions, helping to make the home more efficient and the installation cheaper and easier.

Aquarea High Performance

For new installations and low consumption homes.

Outstanding efficiency and energy savings with minimised CO₂ emissions and minimum space. Improved performance with COPs up to 5,33 for J Generation 3 kW.

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.

Aquarea HT

For a house with old high-temperature radiators.





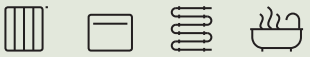
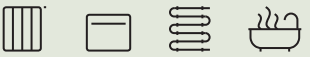






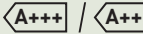



Ideal for retrofit: green energy source works with existing radiators. Aquarea HT Solution is the most appropriate, providing output water temperatures of 65 °C even at outdoor temperatures as low as -15 °C.

DHW Stand Alone

Highly efficient heat pump water heater.

Ideal to cover the hot water needs of a family house, stand alone DHW heat pumps are designed to provide maximum comfort and savings in the production of DHW.

Consumption of the A+ DHW heat pump is reduced by 75 % compared with traditional electric water heaters.

Aquarea High Performance	Aquarea T-CAP	Aquarea HT	DHW Stand Alone
			
Heating - Cooling - DHW Single Phase from 3 to 16 kW Three Phase from 9 to 16 kW	Heating - Cooling - DHW Single Phase from 9 to 12 kW Three Phase from 9 to 16 kW	Heating - DHW Single Phase from 9 to 12 kW Three Phase from 9 to 12 kW	Only DHW From 100 to 270L
Connectable to			
			
Radiators - Fan coil - Underfloor heating - DHW	Radiators - Fan coil - Underfloor heating - DHW	Traditional high-temperature radiators - DHW	Domestic hot water
Application			
			
Normal installation	For extreme cold ambient	Retrofit for old radiators	Only DHW
Energy efficiency			
			
Heating 35 °C / 55 °C ¹⁾	Heating 35 °C / 55 °C ¹⁾	Heating 35 °C / 55 °C ¹⁾	DHW 50 ~ 62 °C ²⁾
Minimum outdoor temperature			
-20 °C ³⁾	-28 °C [All in One and Bi-bloc] -20 °C (Mono-bloc) ⁴⁾	-20 °C ³⁾	-5 °C
Minimum outdoor temperature to provide constant capacity at 35 °C supply water temperature			
-7 °C (not for all units)	-20 °C ⁴⁾	-15 °C	—
Supply temperature for heating. Maximum / Heat pump only			
75 °C ⁵⁾ / 55 °C ⁶⁾ (or 60 °C for Aquarea J Generation)	75 °C ⁵⁾ / 60 °C ⁶⁾	75 °C ⁵⁾ / 65 °C	—
Control and connectivity			
Smart Grid Ready ⁷⁾ Wireless LAN Ready	Smart Grid Ready ⁷⁾ Wireless LAN Ready	—	—
Range			
Bi-bloc from 3 to 16 kW Mono-bloc from 5 to 16 kW All in One from 3 to 16 kW (185L)	Bi-bloc from 9 to 16 kW Mono-bloc from 9 to 16 kW All in One from 9 to 16 kW (185L)	Bi-bloc from 9 to 12 kW Mono-bloc from 9 to 12 kW	Wall-mounted 100 and 150L Floor-standing 200 and 270L

All data in this chart is applicable in most of models in each line up, check product specs to confirm. 1) Scale from A+++ to D. 2) Scale from A+ to F. 3) After cut-off at -23 °C compressor restarts at -20 °C. 4) 9 and 12 kW. 5) DHW maximum temperature with heater. 6) In case of outdoor temperature over -10 °C. 7) H Generation with CZ-NS4P, F and G Generation with Heat Pump Manager. * DHW Stand Alone is produced by S.A.T.E.

Aquarea Smart Cloud for end users

The most advanced heating control for today and for the future. Aquarea can be connected to the Cloud with CZ-TAW1, enabling both end user control and remote maintenance by service partners.

WATCH DEMO ▶



* User interface image may change without notification.

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 or H 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.

Requirements

1. Aquarea J or H Generation
2. In-house internet connection with router wireless LAN or wired LAN
3. Get a Panasonic ID in <https://aquarea-smart.panasonic.com/>

Functions:

- Visualization and Control
- Scheduling
- Energy Statistics
- Malfunction notification



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.

Advantages

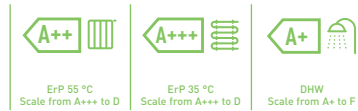
Energy savings, comfort and control from anywhere. Increased efficiency and resources management, operating costs savings and owner satisfaction. The Aquarea Smart Cloud services are focused on enabling full remote maintenance of the Aquarea system. This allows maintenance specialists to engage in predictive maintenance and system fine-tuning, as well as fixing malfunctions when they occur.

Aquarea compatibility	J and H Generation
Connection point	CN-CNT Aquarea port
Home router connection	Wireless or wired LAN
Temperature sensor	Can use remote controller sensor
Tablet or PC browser compatibility*	Yes
Operation from remote — ON/OFF — Temperature setting Mode selection — DHW setting — Error codes — Scheduling	Yes
Heating areas	Up to 2 zones
Power consumption estimation — Operation log history	Yes — Yes

* Check browsers and version compatibility.



011-1W0207
011-1W0208
011-1W0209



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

Aquarea High Performance All in One J Generation Single Phase. Heating and Cooling 1 or 2 zones • R32 refrigerant

		Single Phase [Power to indoor]			
Kit 1 zone (for 2 zone add B at the end)		KIT-ADC03JE5	KIT-ADC05JE5	KIT-ADC07JE5	KIT-ADC09JE5-1
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	3,20/4,85	4,80/4,29	6,70/4,72	9,00/4,18
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	200/136	200/136	193/130	193/130
SCOP		5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
Energy class heating average climate (W35 °C / W55 °C) ¹⁾	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor unit 1 zone hydrokit		WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5	WH-ADC0309J3E5
Indoor unit 2 zones built-in hydrokit		WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B	WH-ADC0309J3E5B
Sound pressure	Heat / Cool	28/28	28/28	28/28	28/28
Dimension	HxWxD	1800x598x717	1800x598x717	1800x598x717	1800x598x717
Net weight	1 zone / 2 zones	122/130	122/130	122/130	122/130
Water pipe connector		R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	30/120	30/120	30/120
Heating water flow (ΔT=5 K, 35 °C)		L/min	9,20	14,30	20,10
Capacity of integrated electric heater		kW	3,00	3,00	3,00
Power supply 1		A	12,0	12,0	15,9
Power supply 2		A	13,0	13,0	13,0
Water volume		L	185	185	185
Maximum water temperature		°C	65	65	65
Material inside tank		Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147		L	L	L	L
DHW tank ErP average climate efficiency rating ²⁾		A+	A+	A+	A+
DHW tank ErP average climate η / SCOP		ηwh % / SCOP	132/3,30	132/3,30	120/3,00
Outdoor unit		WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power part load ³⁾	Heat	dB(A)	55	55	59
Sound power full load	Heat / Cool	dB(A)	60/61	64/64	68/67
Dimension / Net weight	HxWxD	mm / kg	622x824x298/37	622x824x298/37	795x875x320/61
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857
Pipe diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)
Pipe length range / Elevation difference (in/out)		m / m	3~25/20	3~25/20	3~50/30
Pipe length for additional gas / Additional gas amount		m / g/m	10/20	10/20	10/25
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35
Water outlet	Heat / Cool	°C	20~60/5~20	20~60/5~20	20~60/5~20

Accessories

PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
PAW-ADC-CV150	Decorative magnetic side cover
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN

Accessories

CZ-NS4P	Additional functions PCB
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 8112013,81312013 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.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.

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

NEW
2020

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

New Aquaarea High Performance All in One Compact J Generation Single Phase. Heating and Cooling • R32 refrigerant

			Single Phase (Power to indoor)			
Kit			KIT-ADC03JE5C	KIT-ADC05JE5C	KIT-ADC07JE5C	KIT-ADC09JE5C-1
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP		3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP		3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP		3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP		3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP		3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP		3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER		3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER		3,20/4,85	4,80/4,29	6,70/4,72	9,00/4,18
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %		200/136	200/136	193/130	193/130
	SCOP		5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
Energy class heating average climate (W35 °C / W55 °C) ¹⁾	A+++ to D		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor unit			WH-ADC0309J3E5C	WH-ADC0309J3E5C	WH-ADC0309J3E5C	WH-ADC0309J3E5C
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	28/28	28/28
Dimension	HxWxD	mm	1640x598x600	1640x598x600	1640x598x600	1640x598x600
Net weight		kg	101	101	101	101
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	30/120	30/120	30/120	30/120
Heating water flow (ΔT=5 K, 35 °C)		L/min	9,20	14,30	20,10	25,80
Capacity of integrated electric heater		kW	3,00	3,00	3,00	3,00
Power supply 1		A	12,0	12,0	15,9	15,9
Power supply 2		A	13,0	13,0	13,0	13,0
Water volume		L	185	185	185	185
Maximum water temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW tank ErP average climate efficiency rating ²⁾	A+ to F		A+	A+	A+	A+
DHW tank ErP average climate η / SCOP	ηwh % / SCOP		128/3,20	128/3,20	116/2,90	116/2,90
Outdoor unit			WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power part load ³⁾	Heat	dB(A)	55	55	59	59
Sound power full load	Heat / Cool	dB(A)	60/61	64/64	68/67	69/69
Dimension / Net weight	HxWxD	mm / kg	622x824x298/37	622x824x298/37	795x875x320/61	795x875x320/61
Refrigerant (R32) / CO ₂ Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Pipe diameter	Liquid / Gas	Inch (mm)	1/4(6,35)/1/2(12,70)	1/4(6,35)/1/2(12,70)	1/4(6,35)/5/8(15,88)	1/4(6,35)/5/8(15,88)
Pipe length range / Elevation difference (in/out)		m / m	3 ~ 25/20	3 ~ 25/20	3 ~ 50/30	3 ~ 50/30
Pipe length for additional gas / Additional gas amount		m / g/m	10/20	10/20	10/25	10/25
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Accessories

CZ-TAW1	Aquaarea 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 8112013,81312013 and EN12102-1:2017 at +7 °C.

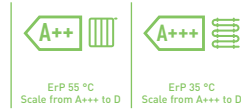
EER and COP calculation is based in accordance to EN14511. * Available in Autumn 2020.

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.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.


**GOOD
DESIGN**

011-1W0207
011-1W0208
011-1W0209

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

Aquarea High Performance Bi-bloc J Generation Single Phase. Heating and Cooling - SDC • R32 refrigerant

			Single Phase [Power to indoor]			
Kit			KIT-WC03J3E5	KIT-WC05J3E5	KIT-WC07J3E5	KIT-WC09J3E5
Heating capacity / COP [A +7 °C, W 35 °C]	kW / COP		3,20/5,33	5,00/5,00	7,00/4,76	9,00/4,48
Heating capacity / COP [A +7 °C, W 55 °C]	kW / COP		3,20/2,81	5,00/2,72	7,00/2,82	8,95/2,78
Heating capacity / COP [A +2 °C, W 35 °C]	kW / COP		3,20/3,64	4,20/3,18	6,85/3,41	7,00/3,40
Heating capacity / COP [A +2 °C, W 55 °C]	kW / COP		3,20/2,19	4,10/1,99	6,20/2,21	6,30/2,16
Heating capacity / COP [A -7 °C, W 35 °C]	kW / COP		3,30/2,80	4,20/2,59	5,60/2,87	6,12/2,78
Heating capacity / COP [A -7 °C, W 55 °C]	kW / COP		3,20/1,79	3,55/1,71	5,25/1,94	5,90/1,93
Cooling capacity / EER [A 35 °C, W 7 °C]	kW / EER		3,20/3,52	4,50/3,00	6,70/3,03	8,20/2,72
Cooling capacity / EER [A 35 °C, W 18 °C]	kW / EER		3,20/4,85	4,80/4,29	6,70/4,72	9,00/4,18
Seasonal energy efficiency - Heating average climate [W35 °C / W55 °C]	ηs %		200/136	200/136	193/130	193/130
	SCOP		5,07/3,47	5,07/3,47	4,90/3,32	4,90/3,32
Energy class heating average climate [W35 °C / W55 °C]	A+++ to D		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor unit			WH-SDC0305J3E5	WH-SDC0305J3E5	WH-SDC0709J3E5	WH-SDC0709J3E5
Sound pressure	Heat / Cool	dB(A)	28/28	28/28	30/30	30/31
Dimension	H x W x D	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	42	42	42	42
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	30/100	33/106	34/114	40/120
Heating water flow [ΔT=5 K, 35 °C]		L/min	9,2	14,3	20,1	25,8
Capacity of integrated electric heater		kW	3	3	3	3
Power supply 1		A	12,0	12,0	15,9	15,9
Power supply 2		A	13,0	13,0	13,0	13,0
Outdoor unit			WH-UD03JE5	WH-UD05JE5	WH-UD07JE5	WH-UD09JE5-1
Sound power part load ¹⁾	Heat	dB(A)	55	55	59	59
Sound power full load	Heat / Cool	dB(A)	60/61	64/64	68/67	69/69
Dimension	H x W x D	mm	622 x 824 x 298	622 x 824 x 298	795 x 875 x 320	795 x 875 x 320
Net weight		kg	37	37	61	61
Refrigerant [R32] / CO ₂ Eq.		kg / T	0,9/0,608	0,9/0,608	1,27/0,857	1,27/0,857
Pipe diameter	Liquid / Gas	Inch (mm)	1/4 {6,35} / 1/2 {12,70}	1/4 {6,35} / 1/2 {12,70}	1/4 {6,35} / 5/8 {15,88}	1/4 {6,35} / 5/8 {15,88}
Pipe length range		m	3-25	3-25	3-50	3-50
Elevation difference (in/out)		m	20	20	30	30
Pipe length for additional gas		m	10	10	10	10
Additional gas amount		g/m	20	20	25	25
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside the hydrokit

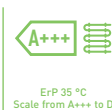
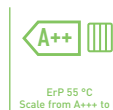
Accessories

PAW-BTANK50L-2	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. EER and COP calculation is based in accordance to EN14511.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.
 GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.

NEW
2020

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

New Aquarea High Performance Mono-bloc J Generation Single Phase. Heating and Cooling - MDC • R32 refrigerant

Outdoor unit		Single Phase			
		WH-MDC05J3E5	WH-MDC07J3E5	WH-MDC09J3E5	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	5,00/5,08	7,00/4,76	9,00/4,48	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	5,00/3,01	7,00/2,82	8,95/2,78	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	5,00/3,57	7,00/3,40	7,45/3,13	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	5,00/2,27	6,30/2,16	7,00/2,12	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	5,00/2,78	6,80/2,81	7,50/2,63	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	5,00/1,85	6,30/1,86	7,00/1,80	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	5,00/3,31	7,00/3,06	9,00/2,71	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	5,00/5,05	7,00/4,73	9,00/4,25	
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	202/142	193/130	193/130	
SCOP		5,12/3,63	4,90/3,32	4,90/3,32	
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D	A+++/A++	A+++/A++	A+++/A++	
Sound power part load ¹⁾ Heat	dB(A)	59	59	59	
Sound power full load Heat / Cool	dB(A)	64/65	68/67	69/68	
Dimension	HxWxD	mm	865 x 1283 x 320	865 x 1283 x 320	
Net weight	kg	99	104	104	
Refrigerant (R32) / CO ₂ Eq. ²⁾	kg / T	1,3/0,878	1,3/0,878	1,3/0,878	
Water pipe connector	Inch	R 1½	R 1½	R 1½	
Pump	Number of speeds	Variable Speed	Variable Speed	Variable Speed	
	Input power (Min/Max)	W	34/96	36/100	39/108
Heating water flow (ΔT=5 K. 35 °C)	L/min	14,3	20,1	25,8	
Capacity of integrated electric heater	kW	3	3	3	
Input Power	Heat	kW	0,985	1,47	2,01
	Cool	kW	1,51	2,29	3,32
Running and Starting current	Heat	A	4,7	7,0	9,3
	Cool	A	7,0	10,5	14,7
Power supply 1	A	12	17	17	
Power supply 2	A	13	13	13	
Operation range (outdoor temperature)	Heat	°C	-20 ~ 35	-20 ~ 35	-20 ~ 35
	Cool	°C	10 ~ 43	10 ~ 43	10 ~ 43
Water outlet	Heat	°C	20 ~ 60	20 ~ 60	20 ~ 60
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-TD20B8E3-1	Combo Tank 185L + 80L - Enamelled
PAW-TD23B6E5	Combo Tank 230L + 60L - Stainless Steel

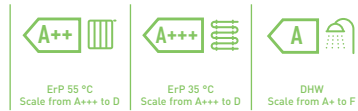
Accessories

PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50L
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

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed. EER and COP calculation is based in accordance to EN14511. * Available in May 2020.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.



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

Aquarea High Performance All in One H Generation Single Phase / Three Phase. Heating and Cooling • R410A refrigerant

Kit	Single Phase (Power to indoor)			Three Phase (Power to indoor)		
	KIT-ADC12HE5	KIT-ADC16HE5	KIT-ADC09HE8	KIT-ADC12HE8	KIT-ADC16HE8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	12,00/4,74	16,00/4,28	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	12,00/2,88	14,50/2,68	9,00/2,94	12,00/2,88	14,50/2,68
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,10/2,20	9,80/2,17	8,80/2,23	9,10/2,20	9,80/2,17
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	8,20/1,92	9,00/1,82	7,90/2,05	8,20/1,92	9,00/1,82
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,85	12,20/2,56
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	10,00/4,17	12,20/4,12	7,00/4,61	10,00/4,17	12,20/4,12
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	190/134	190/130	190/133	190/134	190/130
Energy class heating average climate (W35 °C / W55 °C) ¹⁾	SCOP	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor unit		WH-ADC1216H6E5 WH-ADC1216H6E5 WH-ADC0916H9E8 WH-ADC0916H9E8 WH-ADC0916H9E8				
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33
Dimension / Net weight	HxWxD	mm / kg	1800x598x717/124	1800x598x717/124	1800x598x717/126	1800x598x717/126
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	36/152	36/152	36/152	36/152
Heating water flow (ΔT=5 K, 35 °C)		L/min	34,4	45,9	25,8	34,4
Capacity of integrated electric heater		kW	6	6	9	9
Power supply 1		A	24,0	26,0	8,8	8,8
Power supply 2		A	26,0	26,0	13,0	13,0
Water volume		L	185	185	185	185
Maximum water temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW tank ErP average climate efficiency rating ²⁾		A+ to F	A	A	A	A
DHW tank ErP average climate η / SCOP		ηwh % / SCOP	95/2,38	91/2,28	95/2,38	91/2,28
Outdoor unit		WH-UD12HE5 WH-UD16HE5 WH-UD09HE8 WH-UD12HE8 WH-UD16HE8				
Sound power part load ³⁾	Heat	dB(A)	65	65	65	65
Sound power full load	Heat / Cool	dB(A)	69/68	72/72	68/67	69/68
Dimension / Net weight	HxWxD	mm / kg	1340x900x320/101	1340x900x320/101	1340x900x320/107	1340x900x320/107
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324
Pipe diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	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	3-30/20	3-30/20
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50	10/50	10/50
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35	-20~+35
Water outlet	Heat / Cool	°C	20-55/5-20	20-55/5-20	20-55/5-20	20-55/5-20

Accessories

PAW-ADC-PREKIT-H	Piping pre installation kit for H Generation
PAW-ADC-CV150	Decorative magnetic side cover
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN

Accessories

CZ-NS4P	Additional functions PCB
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 8112013,81312013 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.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.

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



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

Aquaarea T-CAP All in One H Generation Single Phase / Three Phase. Heating and Cooling • R410A refrigerant

Kit	Single Phase (Power to indoor)			Three Phase (Power to indoor)		
	KIT-AXC09HE5	KIT-AXC12HE5	KIT-AXC09HE8	KIT-AXC12HE8	KIT-AXC16HE8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	7,00/5,19	10,00/5,13	12,20/3,49
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	181/130	170/130	181/130	170/130	160/125
Energy class heating average climate (W35 °C / W55 °C) ¹⁾	A+++ to D	A+++ / A++	A++ / A++	A+++ / A++	A++ / A++	A++ / A++
Indoor unit		WH-ADC1216H6E5	WH-ADC1216H6E5	WH-ADC0916H9E8	WH-ADC0916H9E8	WH-ADC0916H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	33/33
Dimension / Net weight	HxWxD	mm / kg	1800x598x717/124	1800x598x717/124	1800x598x717/126	1800x598x717/126
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	36/152	36/152	36/152	36/152
Heating water flow (ΔT=5 K, 35 °C)		L/min	25,8	34,4	25,8	34,4
Capacity of integrated electric heater		kW	6	6	9	9
Power supply 1		A	29,0	29,0	10,4	11,9
Power supply 2		A	26,0	26,0	13,0	13,0
Water volume		L	185	185	185	185
Maximum water temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW tank ErP average climate efficiency rating ²⁾		A+ to F	A	A	A	A
DHW tank ErP average climate η / SCOP		ηwh % / SCOP	95/2,38	95/2,38	95/2,38	91/2,28
Outdoor unit		WH-UX09HE5	WH-UX12HE5	WH-UX09HE8	WH-UX12HE8	WH-UX16HE8
Sound power part load ³⁾	Heat	dB(A)	66	66	65	65
Sound power full load	Heat / Cool	dB(A)	68/67	69/68	68/67	69/68
Dimension / Net weight	HxWxD	mm / kg	1340x900x320/101	1340x900x320/101	1340x900x320/108	1340x900x320/108
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,85/5,951	2,85/5,951	2,85/5,951	2,85/5,951
Pipe diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	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	3-30/20	3-30/20
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50	10/50	10/50
Operation range	Outdoor ambient	°C	-28-+35	-28-+35	-28-+35	-28-+35
Water outlet	Heat / Cool	°C	20-60/5-20	20-60/5-20	20-60/5-20	20-60/5-20

Accessories

PAW-ADC-PREKIT-H	Piping pre installation kit for H Generation
PAW-ADC-CV150	Decorative magnetic side cover
CZ-TAW1	Aquaarea Smart Cloud for remote control and maintenance through wireless or wired LAN

Accessories

CZ-NS4P	Additional functions PCB
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 8112013,81312013 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.



INTERNET CONTROL: Optional.

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



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

Aquarea T-CAP All in One H Generation Three Phase. Super Quiet outdoor unit. Heating and Cooling • R410A refrigerant

		Three Phase (Power to indoor)			
Kit		KIT-AQC09HE8	KIT-AQC12HE8	KIT-AQC16HE8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	16,00/4,28	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	16,00/2,71	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	16,00/3,10	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	16,00/2,13	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	16,00/2,49	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	16,00/1,86	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	12,20/2,57	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	12,20/3,49	
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	181/130	170/130	160/125	
SCOP	SCOP	4,60/3,33	4,33/3,33	4,08/3,20	
Energy class heating average climate (W35 °C / W55 °C) ¹⁾	A+++ to D	A+++/A++	A++/A++	A++/A++	
Indoor unit		WH-ADC0916H9E8	WH-ADC0916H9E8	WH-ADC0916H9E8	
Sound pressure	Heat / Cool	33/33		33/33	
Dimension / Net weight	HxWxD	1800x598x717/126		1800x598x717/126	
Water pipe connector		R 1½		R 1½	
A class pump	Number of speeds	Variable Speed		Variable Speed	
	Input power (Min/Max)	W		36/152	
Heating water flow (ΔT=5 K, 35 °C)	L/min	25,8		34,4	
Capacity of integrated electric heater	kW	9		9	
Power supply 1	A	14,7		11,9	
Power supply 2	A	13,0		13,0	
Water volume	L	185		185	
Maximum water temperature	°C	65		65	
Material inside tank		Stainless steel		Stainless steel	
Tapping profile according EN16147		L		L	
DHW tank ErP average climate efficiency rating ²⁾	A+ to F	A		A	
DHW tank ErP average climate η / SCOP	ηwh % / SCOP	95/2,38		91/2,28	
Outdoor unit		WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8	
Sound power part load ³⁾	Heat	58		62	
Sound power full load	Heat / Cool	61/63		62/64	
Dimension / Net weight	HxWxD	1410x1283x320/151		1410x1283x320/151	
Refrigerant (R410A) / CO ₂ Eq.	kg / T	2,85/5,951		2,99/6,243	
Pipe diameter	Liquid / Gas	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	
Operation range	Outdoor ambient	-28~+35		-28~+35	
Water outlet	Heat / Cool	20 - 60/5 - 20		20 - 60/5 - 20	

Accessories

PAW-ADC-PREKIT-H	Piping pre installation kit for H Generation
PAW-ADC-CV150	Decorative magnetic side cover
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN

Accessories

CZ-NS4P	Additional functions PCB
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 8112013,81312013 and EN12102-1:2017 at +7 °C.

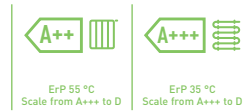
EER and COP calculation is based in accordance to EN14511.

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.



INTERNET CONTROL: Optional.

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



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

Aquarea High Performance Bi-bloc H Generation Single Phase / Three Phase. Heating and Cooling - SDC • R410A refrigerant

Kit	Single Phase			Three Phase (Power to indoor)				
	KIT-WC12H6E5	KIT-WC16H6E5	KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8			
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	12,00/4,74	16,00/4,28	9,00/4,84	12,00/4,74	16,00/4,28		
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	12,00/2,88	14,50/2,68	9,00/2,94	12,00/2,88	14,50/2,68		
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28		
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,10/2,20	9,80/2,17	8,80/2,23	9,10/2,20	9,80/2,17		
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57		
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	8,20/1,92	9,00/1,82	7,90/2,05	8,20/1,92	9,00/1,82		
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,81	12,20/2,56		
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	10,00/4,17	12,20/4,12	7,00/4,61	10,00/4,17	12,20/4,12		
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	190/134	190/130	190/133	190/134	190/130		
Energy class heating average climate (W35 °C / W55 °C)	SCOP	4,83/3,43	4,83/3,33	4,83/3,40	4,83/3,43	4,83/3,33		
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++		
Indoor unit		WH-SDC12H6E5	WH-SDC16H6E5	WH-SDC09H3E8	WH-SDC12H9E8	WH-SDC16H9E8		
Sound pressure	Heat / Cool	dB(A)		33/33	33/33	33/33		
Dimension	HxWxD	mm		892 x 500 x 340	892 x 500 x 340	892 x 500 x 340		
Net weight		kg		44	45	45		
Water pipe connector		Inch		R 1½	R 1½	R 1½		
A class pump	Number of speeds	Variable Speed		Variable Speed	Variable Speed	Variable Speed		
	Input power (Min/Max)	W		34 / 110	30 / 105	32 / 102	34 / 110	30 / 105
Heating water flow (ΔT=5 K. 35 °C)		L/min		34,4	45,9	25,8	34,4	45,9
Capacity of integrated electric heater		kW		6	6	3	9	9
Power supply 1		A		24,0	26,0	13,1	8,8	9,9
Power supply 2		A		26,0	26,0	13,0	13,0	13,0
Outdoor unit		WH-UD12HE5	WH-UD16HE5	WH-UD09HE8	WH-UD12HE8	WH-UD16HE8		
Sound power part load ¹⁾	Heat	dB(A)		65	65	65	65	65
Sound power full load	Heat / Cool	dB(A)		69/68	72/72	68/67	69/68	72/72
Dimension	HxWxD	mm		1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg		101	101	107	107	107
Refrigerant (R410A) / CO ₂ Eq.		kg / T		2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324
Pipe diameter	Liquid / Gas	Inch (mm)		3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range		m		3~50	3~50	3~30	3~30	3~30
Elevation difference (in/out)		m		30	30	20	20	20
Pipe length for additional gas		m		10	10	10	10	10
Additional gas amount		g/m		50	50	50	50	50
Operation range	Outdoor ambient	°C		-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
Water outlet	Heat / Cool	°C		20~55/5~20	20~55/5~20	20~55/5~20	20~55/5~20	20~55/5~20

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside the hydrokit

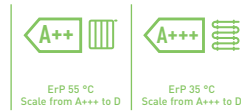
Accessories

PAW-BTANK50L-2	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. EER and COP calculation is based in accordance to EN14511.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.
GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc J and H Generation awarded with the prestigious Good Design Award 2017.



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

Aquarea T-CAP Bi-bloc H Generation Single Phase / Three Phase. Heating and Cooling - SXC • R410A refrigerant

Kit	Single Phase (Power to indoor)			Three Phase (Power to indoor)		
		KIT-WXC09H3E5	KIT-WXC12H6E5	KIT-WXC09H3E8	KIT-WXC12H9E8	KIT-WXC16H9E8
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	7,00/5,19	10,00/5,13	12,20/3,49
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	181/130	170/130	181/130	170/130	160/125
Energy class heating average climate (W35 °C / W55 °C)	SCOP	4,60/3,33	4,33/3,33	4,60/3,33	4,33/3,33	4,08/3,20
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D	A+++ / A++	A++ / A++	A+++ / A++	A++ / A++	A++ / A++
Indoor unit		WH-SXC09H3E5	WH-SXC12H6E5	WH-SXC09H3E8	WH-SXC12H9E8	WH-SXC16H9E8
Sound pressure	Heat / Cool	dB(A)		33/33	33/33	33/33
Dimension	H x W x D	mm		892 x 500 x 340	892 x 500 x 340	892 x 500 x 340
Net weight		kg		43	44	45
Water pipe connector		Inch		R 1½	R 1½	R 1½
A class pump	Number of speeds	Variable Speed		Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W		32/102	34/110	30/105
Heating water flow [ΔT=5 K, 35 °C]		L/min		25,8	34,4	45,9
Capacity of integrated electric heater		kW		3	6	9
Power supply 1		A		29,0	29,0	14,7
Power supply 2		A		13,0	26,0	13,0
Outdoor unit		WH-UX09HE5	WH-UX12HE5	WH-UX09HE8	WH-UX12HE8	WH-UX16HE8
Sound power part load ¹⁾	Heat	dB(A)		66	66	65
Sound power full load	Heat / Cool	dB(A)		68/67	69/68	68/67
Dimension	H x W x D	mm		1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
Net weight		kg		101	101	108
Refrigerant (R410A) / CO ₂ Eq.		kg / T		2,85/5,951	2,85/5,951	2,85/5,951
Pipe diameter	Liquid / Gas	Inch (mm)		3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range		m		3~30	3~30	3~30
Elevation difference (in/out)		m		30	30	30
Pipe length for additional gas		m		10	10	10
Additional gas amount		g/m		50	50	50
Operation range	Outdoor ambient	°C		-28~+35	-28~+35	-28~+35
Water outlet	Heat / Cool	°C		20-60/5-20	20-60/5-20	20-60/5-20

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside the hydrokit

Accessories

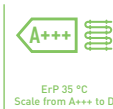
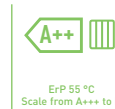
PAW-BTANK50L-2	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. EER and COP calculation is based in accordance to EN14511.



INTERNET CONTROL: Optional.

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



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

Aquarea T-CAP Bi-bloc H Generation Three Phase. Super Quiet outdoor unit. Heating and Cooling - SQC • R410A refrigerant

			Three Phase (Power to indoor)		
Kit			KIT-WQC09H3E8	KIT-WQC12H9E8	KIT-WQC16H9E8
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP		9,00/4,84	12,00/4,74	16,00/4,28
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP		9,00/2,94	12,00/2,88	16,00/2,71
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP		9,00/3,59	12,00/3,44	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP		9,00/2,21	12,00/2,19	16,00/2,13
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP		9,00/2,85	12,00/2,72	16,00/2,49
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP		9,00/2,02	12,00/1,92	16,00/1,86
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER		7,00/3,17	10,00/2,81	12,20/2,57
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER		7,00/5,19	10,00/5,13	12,20/3,49
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %		181/130	170/130	160/125
Energy class heating average climate (W35 °C / W55 °C)	SCOP		4,60/3,33	4,33/3,33	4,08/3,20
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D		A+++/A++	A++/A++	A++/A++
Indoor unit			WH-SQC09H3E8	WH-SQC12H9E8	WH-SQC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	HxWxD	mm	892x500x340	892x500x340	892x500x340
Net weight		kg	43	44	45
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	32/102	34/110	30/105
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Capacity of integrated electric heater		kW	3	9	9
Power supply 1		A	14,7	11,9	15,5
Power supply 2		A	13,0	13,0	13,0
Outdoor unit			WH-UQ09H8E8	WH-UQ12H8E8	WH-UQ16H8E8
Sound power part load ¹⁾	Heat	dB(A)	58	58	62
Sound power full load	Heat / Cool	dB(A)	61/63	62/64	65/68
Dimension	HxWxD	mm	1410x1283x320	1410x1283x320	1410x1283x320
Net weight		kg	151	151	161
Refrigerant (R410A) / CO ₂ Eq.		kg / T	2,85/5,951	2,85/5,951	2,99/6,243
Pipe diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range		m	3 - 30	3 - 30	3 - 30
Elevation difference (in/out)		m	20	20	20
Pipe length for additional gas		m	10	10	10
Additional gas amount		g/m	50	50	50
Operation range	Outdoor ambient	°C	-28 - +35	-28 - +35	-28 - +35
Water outlet	Heat / Cool	°C	20 - 60/5 - 20	20 - 60/5 - 20	20 - 60/5 - 20

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside the hydrokit

Accessories

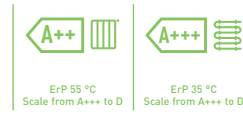
PAW-BTANK50L-2	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. EER and COP calculation is based in accordance to EN14511.



INTERNET CONTROL: Optional.

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



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

Aquarea High Performance Mono-bloc H Generation Single Phase. Heating and Cooling - MDC • R410A refrigerant

			Single Phase	
Outdoor unit			WH-MDC12H6E5	WH-MDC16H6E5
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP		12,00/4,74	16,00/4,28
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP		12,00/2,93	14,50/2,72
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP		11,40/3,44	13,00/3,28
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP		9,10/2,23	9,80/2,21
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP		10,00/2,73	11,40/2,57
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP		8,20/1,95	9,00/1,84
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER		10,00/2,81	12,20/2,56
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER		10,00/4,65	12,20/4,12
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	η _s %		190/134	190/130
	SCOP		4,83/3,43	4,83/3,33
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D		A+++ / A++	A+++ / A++
Sound power part load ¹⁾ Heat	dB(A)		65	65
Sound power full load Heat / Cool	dB(A)		69/68	72/72
Dimension	HxWxD	mm	1410x1283x320	1410x1283x320
Net weight		kg	140	140
Refrigerant (R410A) / CO ₂ Eq. ²⁾	kg / T		2,10/4,385	2,10/4,385
Water pipe connector		Inch	R 1½	R 1½
Pump	Number of speeds		Variable Speed	Variable Speed
	Input power (Min/Max)	W	34/110	38/120
Heating water flow (ΔT=5 K, 35 °C)		L/min	34,4	45,9
Capacity of integrated electric heater		kW	6	6
Input Power	Heat	kW	2,53	3,74
	Cool	kW	3,56	4,76
Running and Starting current	Heat	A	11,7	16,9
	Cool	A	16,2	21,5
Power supply 1		A	24,0	26,0
Power supply 2		A	26,0	26,0
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	25 - 55	25 - 55
	Cool	°C	5 - 20	5 - 20

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185L + 80L - Enamelled
PAW-TD23B6E5	Combo Tank 230L + 60L - Stainless Steel

Accessories

PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50L
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

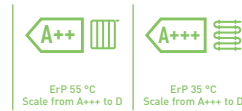
1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed. EER and COP calculation is based in accordance to EN14511.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.



011-1W0206
For WH-MXC09H3E5
and WH-MXC12H6E5



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

Aquarea T-CAP Mono-bloc H Generation Single Phase / Three Phase. Heating and Cooling - MXC • R410A refrigerant

Outdoor unit		Single Phase			Three Phase		
		WH-MXC09H3E5	WH-MXC12H6E5	WH-MXC09H3E8	WH-MXC12H9E8	WH-MXC16H9E8	
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,84	12,00/4,74	9,00/4,84	12,00/4,74	16,00/4,28	
Heating capacity / COP (A +7 °C, W 55 °C)	kW / COP	9,00/2,94	12,00/2,88	9,00/2,94	12,00/2,88	16,00/2,71	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,59	12,00/3,44	9,00/3,59	12,00/3,44	16,00/3,10	
Heating capacity / COP (A +2 °C, W 55 °C)	kW / COP	9,00/2,21	12,00/2,19	9,00/2,21	12,00/2,19	16,00/2,13	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,85	12,00/2,72	9,00/2,85	12,00/2,72	16,00/2,49	
Heating capacity / COP (A -7 °C, W 55 °C)	kW / COP	9,00/2,02	12,00/1,92	9,00/2,02	12,00/1,92	16,00/1,86	
Cooling capacity / EER (A 35 °C, W 7 °C)	kW / EER	7,00/3,17	10,00/2,81	7,00/3,17	10,00/2,81	12,20/2,56	
Cooling capacity / EER (A 35 °C, W 18 °C)	kW / EER	7,00/5,19	10,00/5,13	7,00/5,19	10,00/5,13	12,20/3,49	
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	181/130	170/130	181/130	170/130	160/125	
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D	A+++ / A++	A++ / A++	A+++ / A++	A++ / A++	A++ / A++	
Sound power part load ¹⁾	Heat	dB(A)	65	65	65	66	
Sound power full load	Heat / Cool	dB(A)	68/67	69/68	68/67	72/71	
Dimension	HxWxD	mm	1410x1283x320	1410x1283x320	1410x1283x320	1410x1283x320	
Net weight		kg	142	142	151	164	
Refrigerant (R410A) / CO ₂ Eq. ²⁾	kg / T		2,30/4,802	2,30/4,802	2,30/4,802	2,35/4,907	
Water pipe connector		Inch	R 1½	R 1½	R 1½	R 1½	
Pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	
	Input power (Min/Max)	W	32/102	34/110	32/102	34/110	38/120
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
Input Power	Heat	kW	1,86	2,53	1,86	2,53	3,74
	Cool	kW	2,21	3,56	2,21	3,56	4,76
Running and Starting current	Heat	A	8,8	11,7	3,0	4,0	5,7
	Cool	A	10,4	16,5	3,5	5,3	7,1
Power supply 1		A	29,0	29,0	14,7	11,9	15,5
Power supply 2		A	13,0	26,0	13,0	13,0	13,0
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185L + 80L - Enamelled
PAW-TD23B6E5	Combo Tank 230L + 60L - Stainless Steel

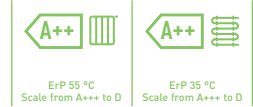
Accessories

PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50L
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

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. 2) WH-MXC models are hermetically sealed. EER and COP calculation is based in accordance to EN14511.



-23 °C OUTDOOR TEMPERATURE: After cut-off at -23 °C compressor restarts at -20 °C. INTERNET CONTROL: Optional.



Aquarea HT Bi-bloc F Generation Single Phase / Three Phase. Heating Only - SHF • R407C refrigerant

Kit	Single Phase (Power to indoor)		Three Phase (Power to indoor)			
	KIT-WHF09F3E5	KIT-WHF12F6E5	KIT-WHF09F3E8	KIT-WHF12F9E8		
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,64	12,00/4,46	9,00/4,64	12,00/4,46	
Heating capacity / COP (A +7 °C, W 65 °C)	kW / COP	9,00/2,48	12,00/2,41	9,00/2,48	12,00/2,41	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,45	12,00/3,26	9,00/3,45	12,00/3,26	
Heating capacity / COP (A +2 °C, W 65 °C)	kW / COP	9,00/2,06	10,30/2,01	9,00/2,06	10,30/2,01	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,74	12,00/2,52	9,00/2,74	12,00/2,52	
Heating capacity / COP (A -7 °C, W 65 °C)	kW / COP	9,00/1,79	9,60/1,77	9,00/1,79	9,60/1,77	
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	153/125	150/125	153/125	150/125	
	SCOP	3,90/3,20	3,83/3,20	3,90/3,20	3,83/3,20	
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	
Indoor unit		WH-SHF09F3E5	WH-SHF12F6E5	WH-SHF09F3E8	WH-SHF12F9E8	
Sound pressure	dB(A)	33	33	33	33	
Dimension	HxWxD	mm	892x502x353	892x502x353	892x502x353	
Net weight	kg	46	47	47	48	
Water pipe connector	Inch	R 1½	R 1½	R 1½	R 1½	
A class pump	Number of speeds	7	7	7	7	
	Input power (Min/Max)	W	38/100	40/106	38/100	40/106
Heating water flow (ΔT=5 K, 35 °C)	L/min	25,8	34,4	25,8	34,4	
Capacity of integrated electric heater	kW	3	6	3	9	
Power supply 1	A	28,5	29,0	14,5	10,8	
Power supply 2	A	13,0	26,0	13,0	13,0	
Outdoor unit		WH-UH09FE5	WH-UH12FE5	WH-UH09FE8	WH-UH12FE8	
Sound power part load ¹⁾	dB(A)	—	—	—	—	
Sound power full load	dB(A)	66	67	66	67	
Dimension	HxWxD	mm	1340x900x320	1340x900x320	1340x900x320	
Net weight	kg	104	104	110	110	
Refrigerant (R407C) / CO ₂ Eq.	kg / T	2,90/5,145	2,90/5,145	2,90/5,145	2,90/5,145	
Pipe diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	
Pipe length range	m	3~30	3~30	3~30	3~30	
Elevation difference (in/out)	m	20	20	20	20	
Pipe length for additional gas	m	10	10	10	10	
Additional gas amount	g/m	70	70	70	70	
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35	
Water outlet	Heat	°C	25~65	25~65	25~65	

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled

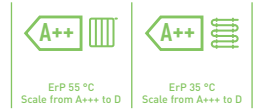
Accessories

PAW-3WYVLY-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50L
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. EER and COP calculation is based in accordance to EN14511.



INTERNET CONTROL: Optional.



Aquarea HT Mono-bloc G Generation Single Phase. Heating Only - MHF • R407C refrigerant

Outdoor unit			Single Phase	
			WH-MHF09G3E5	WH-MHF12G6E5
Heating capacity / COP (A +7 °C, W 35 °C)	kW / COP	9,00/4,64	12,00/4,46	
Heating capacity / COP (A +7 °C, W 65 °C)	kW / COP	9,00/2,48	12,00/2,41	
Heating capacity / COP (A +2 °C, W 35 °C)	kW / COP	9,00/3,45	12,00/3,26	
Heating capacity / COP (A +2 °C, W 65 °C)	kW / COP	9,00/2,06	10,30/2,01	
Heating capacity / COP (A -7 °C, W 35 °C)	kW / COP	9,00/2,74	12,00/2,52	
Heating capacity / COP (A -7 °C, W 65 °C)	kW / COP	9,00/1,79	9,60/1,77	
Seasonal energy efficiency - Heating average climate (W35 °C / W55 °C)	ηs %	153/125	150/125	
	SCOP	3,90/3,20	3,83/3,20	
Energy class heating average climate (W35 °C / W55 °C)	A+++ to D	A++/A++	A++/A++	
Sound power part load ¹⁾	dB(A)	—	—	
Sound power full load	dB(A)	68	69	
Dimension	HxWxD	mm	1410 x 1283 x 320	
Net weight	kg	151	151	
Refrigerant (R407C) / CO ₂ Eq. ²⁾	kg / T	1,92/3,406	1,92/3,406	
Water pipe connector	Inch	R 1½	R 1½	
Pump	Number of speeds	7	7	
	Input power (Min/Max)	W	—	
Heating water flow (ΔT=5 K, 35 °C)	L/min	25,8	34,4	
Capacity of integrated electric heater	kW	3	6	
Input Power	kW	1,94	2,69	
Running and Starting current	A	9,3	12,8	
Power supply 1	A	28,5	29,0	
Power supply 2	A	13,0	26,0	
Operation range	Outdoor ambient	°C	-20 ~ +35	
Water outlet	Heat	°C	25 ~ 65	

Accessories

PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185L + 80L - Enamelled

Accessories

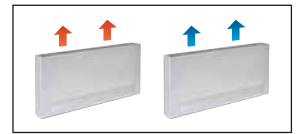
PAW-TD23B6E5	Combo Tank 230L + 60L - Stainless Steel
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50L
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

1) Sound power in accordance to 8112013,81312013 and EN12102-1:2017 at +7 °C. 2) WH-MHF models are hermetically sealed. EER and COP calculation is based in accordance to EN14511.



INTERNET CONTROL: Optional.

Smart fan coils



Air flow	Speed	PAW-AAIR-200-2			PAW-AAIR-700-2			PAW-AAIR-900-2		
		Min	Med	Max	Min	Med	Max	Min	Med	Max
Heating mode										
Total heating capacity	W	217,00	470,00	570,00	708,00	1032,00	1188,00	886,00	1420,00	1703,00
Water flow	kg/h	37,30	80,80	98,00	121,80	177,50	204,30	152,40	244,20	292,90
Water pressure drop	kPa	0,40	2,00	2,90	0,30	0,80	1,00	0,50	1,60	2,20
Inlet water temperature	°C	35	35	35	35	35	35	35	35	35
Outlet water temperature	°C	30	30	30	30	30	30	30	30	30
Inlet air temperature	°C	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00
Outlet air temperature	°C	38,90	32,00	30,00	33,30	31,80	30,60	30,20	31,10	30,60
Cooling mode										
Total cooling capacity	W	237,00	345,00	555,00	756,00	1039,00	1204,00	1153,00	1518,00	1746,00
Sensible cooling capacity	W	230,00	314,00	504,00	646,00	903,00	1058,00	1061,00	1384,00	1598,00
Water flow	kg/h	40,00	59,00	95,00	129,00	178,00	207,00	198,00	261,00	300,00
Water pressure drop	kPa	0,40	2,00	2,90	1,00	2,00	2,00	6,00	9,00	12,00
Inlet water temperature	°C	10	10	10	10	10	10	10	10	10
Outlet water temperature	°C	15	15	15	15	15	15	15	15	15
Inlet air temperature	°C	27,00	27,00	27,00	27,00	27,00	27,00	27,00	27,00	27,00
Outlet air temperature	°C	15,00	17,00	18,00	14,00	16,00	17,00	16,00	17,00	18,00
Relative humidity of inlet air	%	47	47	47	47	47	47	47	47	47
Air flow	m ³ /min	0,90	1,90	2,70	2,60	4,20	5,30	4,10	6,10	7,70
Maximum input power	W	7,00	9,00	13,00	14,00	18,00	22,00	16,00	20,00	24,00
Sound pressure	dB(A)	23	33	40	24	36	42	25	36	44
Dimension (HxWxD)	mm	735 x 579 x 129			935 x 579 x 129			1135 x 579 x 129		
Net weight	kg	17			20			23		
3 Ways valve included		Yes			Yes			Yes		
Touch screen thermostat		Yes			Yes			Yes		

Accessories
PAW-AAIR-LEGS-1 Kits of 2 legs to protect the water pipings

Accessories
PAW-AAIR-RHCABLE Motor connection cable for units with hydraulic connections on the right

* Smart fan coils is produced by Innova.

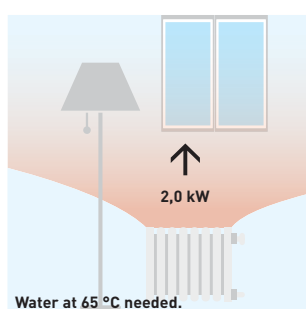
Stylish Floor-standing fan coils with advanced controller

The slimline of Smart fan coils delivers high efficiency climate control.

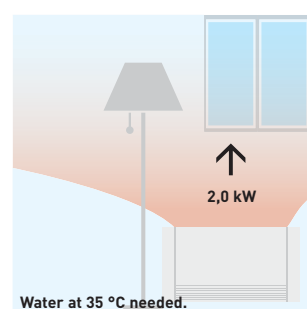
With a depth of just under 13cm they are at the cutting edge of the market. Blending easily into the home, Smart fan coil's elegant design and product refinements are clear to see in every detail.

Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.

With standard cast radiators.



With Smart fan coil.



Technical focus:

- High heating capacity
- 4 operation modes (auto, silent, night-time and maximum ventilation speed)
- Exclusive design
- Extremely compact (only 12,9 cm deep)
- Cooling and dehumidification functions possible (drain is needed)
- 3-way valve included (no overflow valve needed on the installation if more than 3 units installed)
- Touch screen thermostat

All temperature curves and capacity are available on www.panasonicproclub.com

Fan coils



PAW-FC-903TC
Optional Controller.
Wired remote
controller.



PAW-FC-RC1
Optional Controller.
Advanced wired
remote controller.

Compact units											High Static Pressure
Left side connection			PAW-FC-D11-1	PAW-FC-D15-1	PAW-FC-D24-1	PAW-FC-D28-1	PAW-FC-D40-1	PAW-FC-D55-1	PAW-FC-D65-1	PAW-FC-D90-1	PAW-FC-H150
Right side connection			PAW-FC-D11-1-R	PAW-FC-D15-1-R	PAW-FC-D24-1-R	PAW-FC-D28-1-R	PAW-FC-D40-1-R	PAW-FC-D55-1-R	PAW-FC-D65-1-R	PAW-FC-D90-1-R	PAW-FC-H150-R
Total cooling capacity ¹⁾	Med/S-Hi	kW	1,0/1,5	1,2/1,7	2,0/2,5	2,4/3,2	3,2/4,6	4,6/5,8	6,1/7,3	6,1/8,1	11,9/14,8
Sensible cooling capacity ¹⁾	Med/S-Hi	kW	0,8/1,1	0,9/1,3	1,5/1,9	1,8/2,3	2,2/3,3	3,3/4,5	4,3/5,1	4,6/6,3	9,6/12,9
Heating capacity ¹⁾	Med/S-Hi	kW	1,4/2,0	1,5/2,2	2,4/3,1	2,9/4,0	4,1/5,7	5,3/7,1	7,9/9,3	8,1/11,6	14,9/19,9
Power consumption	S-Lo/Med/S-Hi	W	13/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188	180/421/675
Fuse rating	A		2	2	2	2	2	2	2	2	6
Dimensions ²⁾	H x W x D	mm	220x570x430	220x570x430	220x753x430	220x938x430	220x1122x430	220x1307x430	220x1121x530	220x1316x530	376x1600x798
Weight ³⁾	kg		13	13	15	20	22	26	27	38	63
Sound power global	S-Lo/Med/S-Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64	52/64/71
Sound pressure global	S-Lo/Med/S-Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55	31/45/51
Static pressure	Max	Pa	30	30	50	50	70	70	70	70	110
Air flow ¹⁾	Med/S-Hi	m ³ /h	190/283	179/265	274/390	357/499	486/716	640/933	893/1064	936/1397	2112/3176
Water pressure drop	Med/S-Hi	kPa	19,5/39,2	3,9/6,3	19,3/28,8	17,1/28	22,8/46,9	37,4/60,2	15,4/21,5	19,3/32,5	19,8/26,1
Fan speeds			3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds
Fan motor and number of speeds			AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds
Drain pan and air filter			Included	Included	Included	Included	Included	Included	Included	Included	Included
Water connections	Inch		1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1

Accessories

PAW-FC-RC1	Advanced wired remote controller for fan coil
PAW-FC-903TC	NEW Wired remote controller for fan coil
PAW-FC-2WY-11/55-1	2 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1)
PAW-FC-2WY-65/90-1	2 way valve + drain pan (for PAW-FC-D65/90-1)

Accessories

PAW-FC-2WY-150	2 way valve + drain pan (for PAW-FC-H150)
PAW-FC-3WY-11/55-1	3 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1)
PAW-FC-3WY-65/90-1	3 way valve + drain pan (for PAW-FC-D65/90-1)
PAW-FC-3WY-150	3 way valve + drain pan (for PAW-FC-H150)

¹⁾ Air flow and capacity at 0 Pa of static pressure. ²⁾ Including pan and electrical box. ³⁾ Without water content. * Performances based on: Cooling: Air: 27 °C DB / 19 °C WB, Chilled water: 7 °C / 12 °C - Heating: Air: 20 °C DB, Hot water: 50 °C / 45 °C. ** Fan coil units are produced by Systemair.

Range of fan coil units

Easy to install, improved sound level and performance. The fan coil range consists of a compact ducted range ideal for residential and commercial use and one model with high static pressure for commercial applications. All units are certified by Eurovent, include drain pan and filter and are equipped with a low consumption fan motor. The D type is even more flexible thanks to an L-shaped drain pan. The unit can be installed either in a horizontal or in a vertical position.

1 Innovation for an optimum comfort

3 Efficient high-quality coil

2 Low energy consumption fan

4 Flexible installation: vertical or horizontal

Fan coil controller PAW-FC-RC1

This advanced controller provides a higher level of comfort in heating. The sensor can be used as a water flow sensor, stopping the fan when the water temperature is low, avoiding cold drafts in winter.

Also is ready to use J Generation feature of defrost mode and stop the fan coil.

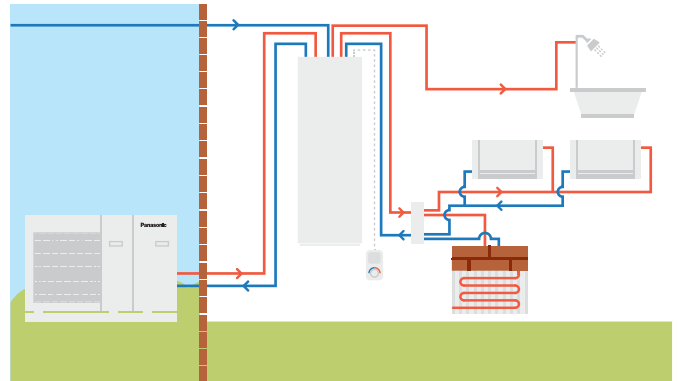
Features:

- Room thermostat
- 3 outputs, 230 V relays for fan control
- 2 outputs, 230 V relays for heating / cooling control
- Modbus RTU slave
- 1 DI for presence detection (key card switch)
- 1 AI for sensor

Sanitary Tanks

Combo Tank.

The best option to combine with Mono-bloc units. DHW tank with buffer tank. Designed for retrofit applications, the DHW tank with a buffer tank is particularly suitable for fast integration on an existing installation. This tank includes a 3-way valve and an "A" Class pump. Easy to install, nice looking, high efficiency for DHW production and for heating.



		Enamelled		NEW Stainless steel	
Model		PAW-TD20B8E3-2		PAW-TD23B6E5	
Dimension H x W x D	mm	1770 x 640 x 690		1750 x 600 x 646	
Weight (empty)	kg	150		111	
Volume	L	185 + 80		230 + 60	
Power supply	V, Phase, Hz	230, 1, 50		230, 1, 50	
		Hot water tank		Hot water tank	
Volume	L	185	80	230	60
Max working pressure	MPa (bar)	0,8 (8)	0,6 (6)	1,0 (10)	0,3 (3,0)
Pressure test	MPa (bar)	1,2 (12)	0,9 (9)	1,5 (15)	0,39 (3,9)
Max working temp	°C	90	90	80	80
Connections	M	Ø3/4	Ø3/4	Ø22	Ø22, copper
Material		S 275 JR vitrified		EN 14521	
Insulation	Material, t=mm	PUR, 50		PUR, 50	
Heating coil surface	m ²	2,1	—	1,8	—
Electrical heater	W	3000	—	2800	—
Energy loss at 65 °C	kWh/24h	1,3	—	1,25	—
Energy efficiency class (from A+ to F)		B		B	
Standing loss	W	53	46	52	29

1) EU Regulation 812/2013. 2) Tested pursuant to EN 12897:2006. * Enamelled Combo Tank is produced by Lapesa. Stainless Steel Combo Tank is produced by OSO.





Enamelled Tanks.

Model	Enamelled Tank				Enamelled 2 coils Tank (for bivalent Solar + HP)	NEW Square Tank	
	PAW-TA15C1E5STD	PAW-TA20C1E5STD	PAW-TA30C1E5STD	PAW-TA40C1E5STD	PAW-TA30C2E5STD	PAW-TA20C1E5C	
Water volume	L	150	200	290	380	350	200
Maximum water temperature	°C	95	95	95	95	95	95
Dimensions (Hight / Diameter)	mm	1210/520	1340/610	1800/610	1835/670	1835/670	1550x600x600
Weight / filled with water	kg	109/254	90/280	120/389	191/572	169/519	134 / 327
Electric heater	kW	—	3,00	3,00	3,00	3,00	—
Power supply	V	—	230	230	230	230	—
Material inside tank		Enamelled	Enamelled	Enamelled	Enamelled	Enamelled	Enamelled
Exchange surface	m ²	1,2	1,8	2,6	3,8	3,5 / 1,2	1,83
Energy loss at 65 °C ¹⁾	kWh/24h	1,45	1,37	1,61	1,76	1,76	1,37
3 way valve accessory PAW-3WYVLV-HW or CZ-NV1		Optional	Optional	Optional	Optional	Optional	Built-in 3 way valve
20 m temperature sensor cable included		Yes	Yes	Yes	Yes	Yes	Yes
Energy losses	W	60	57	67	73	73	57
Energy Efficiency Class (from A+ to F)		C	B	B	B	B	B
Warranty		2 Years	2 Years	2 Years	2 Years	2 Years	2 Years
Maintenance required		Every 2 years	Every 2 years	Every 2 years	Every 2 years	Every 2 years	Every 2 years

1) Insulated tested under EN12897. ** Enamelled Tanks and Square Tank are produced by AEmail.



Stainless Steel Tank.

Model		PAW-TD20C1E5	PAW-TD30C1E5
Water volume	L	192	280
Maximum water temperature	°C	75	75
Dimensions (Hight / Diameter)	mm	1270/595	1750/595
Weight / filled with water	kg	53/—	65/—
Electric heater	kW	1,50	1,50
Power supply	V	230	230
Material inside tank		Stainless steel	Stainless steel
Exchange surface	m ²	1,8	1,8
Energy loss at 65 °C ¹⁾	kWh/24h	0,99	1,13
3 way valve accessory PAW-3WYVLV-HW or CZ-NV1		Optional	Optional
20 m temperature sensor cable included		Yes	Yes
Energy losses	W	42	46
Energy Efficiency Class (from A+ to F)		A	A
Warranty		2 Years	2 Years
Maintenance required		No	No

1) Insulated tested under EN12897. ** Stainless Steel Tanks and Buffer Tank are produced by OSO.

NEW Buffer tank.

Model		PAW-BTANK50L-2
Capacity	L	48
Energy losses	W	42
Energy Efficiency Class (from A+ to F)		B
Material		Stainless Steel
Dimensions (Hight / Diameter)	mm	636 / 430
Net weight	kg	—

* Automatic air vent and drain cock are included. Built-in pocket sensor (sensor not included).

Accessories for Sanitary tanks

PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside the hydrokit

Heat Recovery Ventilation unit

Ventilation systems with heat recovery offer users a high degree of living comfort thanks to temperature controlled and clean air. Heat recovery units are ideal for use in houses, for these owners who are looking for high performance and maximum comfort.

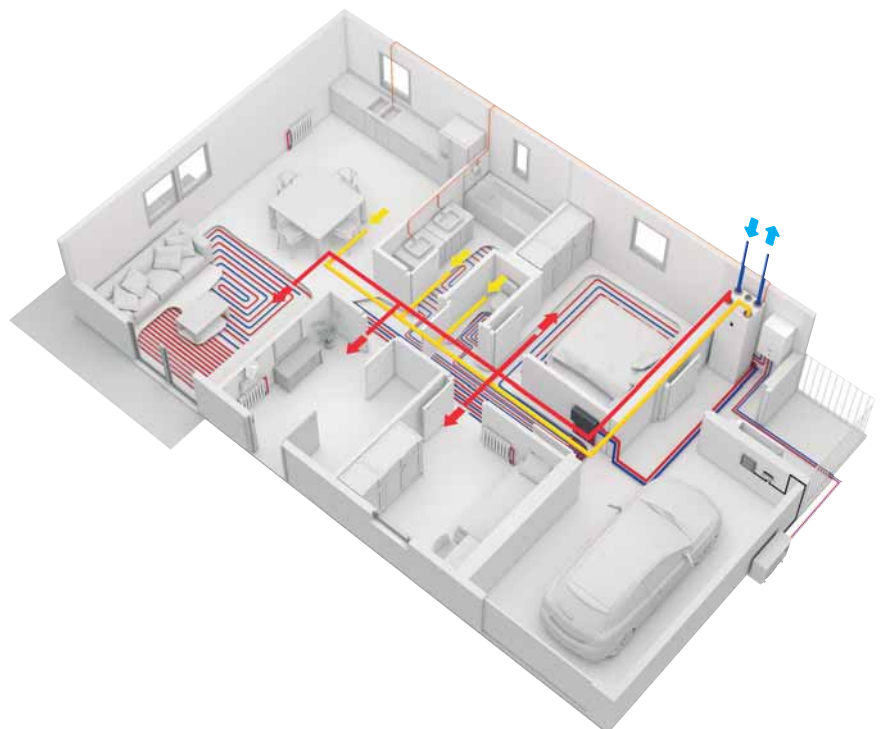


1 Comfort
High thermal comfort.

2 Energy saving
Lower heating requirements thanks to lower heat losses.

3 Space saving
It can be installed over the DHW square tank or the All-in-one Compact indoor unit.

4 Better user interface
Possibility to control the ventilation unit and the heating system with one single remote controller.





PAW-A2W-VENTA-R

PAW-A2W-VENTA-L

Heat Recovery Ventilation unit		PAW-A2W-VENTA-R	PAW-A2W-VENTA-L
Nominal airflow rate	m ³ /h	204 @ 50 Pa	204 @ 50 Pa
Maximum airflow rate	m ³ /h	292 @ 100 Pa	292 @ 100 Pa
SPF		1,24 @ 204 m ³ /h	1,24 @ 204 m ³ /h
Heat exchanger rotor drive type		Variable speed	Variable speed
Exchanger type		Rotating	Rotating
Heat recovery efficiency		84 %	84 %
Power supply	V / Hz	230 / 50 / 1 phase	230 / 50 / 1 phase
Power consumption	W	176	176
Energy Class, basic unit		A	
Energy Class, unit with local control on demand		A	
Noise level	dB	38	38
Dimensions (W x H x D)	mm	598 x 450 x 500	598 x 450 x 500
Weight	kg	46	46
Mounting position		Vertical	Vertical
Supply side		Right	Left
Duct connections	mm	DN125	DN125
Filter class, supply air		F7/ePM1 60 %	F7/ePM1 60 %
Filter class, extract air		M5/ePM10 50 %	M5/ePM10 50 %
Minimum outdoor temperature	°C	-20	-20

Accessories

PAW-VEN-FLTKit	Supply and extract filters kit
PAW-VEN-ACCPCB	Optional PCB for additional functions
PAW-VEN-DPL	HRV touch control panel. White frame (cable must be ordered separately)
PAW-VEN-CBLEXT12	Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m)
PAW-VEN-DIVPLG	Twin plugs for installation of several control panels type CD or CE for one unit

Accessories

PAW-VEN-DPLBOX	HRV touch control panel wall-mounted kit
PAW-VEN-S-CO2RH-W	CO ₂ RH wall-mounted sensor
PAW-VEN-S-CO2-W	CO ₂ wall-mounted sensor
PAW-VEN-S-CO2-D	CO ₂ duct sensor
PAW-VEN-PTC12	1,2 kW PTC heater DN125
PAW-VEN-PTC08	0,8 kW PTC heater DN125
PAW-VEN-WBRK	Wall bracket kit for stand-alone installation on the wall

* Heat recovery efficiency according to EN 13141-7. ** Heat Recovery Ventilation unit is produced by Systemair.

With an optimum exchange program, the ventilation unit guides air extracted from the kitchen and bathroom to the outside. Fresh outdoor air is drawn into the unit via the pipe system. Here 84 % of the heat from the extract air is transferred to the supply air via a heat exchanger, which is then supplied back to the living and sleeping quarters.

Main features:

- Heat recovery unit designed for ventilated areas up to approximately 165 m².
- High energy-efficiency rotary heat exchanger with EC - technology fans
- Moisture transfer function to minimize condensation in supply air during wintertime
- Control via touch display and Startup Wizard for easy commissioning

- Modbus communication via RS-485
- Option to control Aquarea H and J series heat pumps from PAW-A2W-VENTA control panel if both units are connected via Modbus interface (PAW-AW-MBS-H and PAW-VEN-ACCPCB required)

The built in humidity sensor in extract air can be used for demand control.

Control

- All settings and features accessible via a control panel, integrated into the front cover.
- Color touch screen with a user-friendly interface
 - The option for connecting one or more external control panels is available
 - Separate user level for authorized installers and service personnel

- MANUAL and AUTO mode or choose preferred settings from the pre-configured user modes
- If Aquarea H and J series heat pumps are connected with PAW-A2W-VENTA, the heat pump control options will appear on the home screen in a separate tab

The unit can be mounted on a PAW-TA20C1E5C, on a WH-ADC0309J3E5C or installed on the wall (PAW-VEN-WBRK is needed).

DHW Stand Alone



DHW Stand Alone: highly efficient heat pump water heater.

The wide range of DHW Stand Alone heat pump is a great solution to adapt to any type of family house. The wall type is available in 100 and 150L capacities, and the Floor-standing in 200 and 270L. For reaching even more efficient use the 270L is available in additional coil, it is able to connect solar water production.

- A+ Highly efficient domestic hot water heat pump
- Provides reduced power consumption by 75 % compared with traditional electric water heater
- Easy to install
- Being CFC-free, this water heater is environmentally friendly

1 Energy saving

- Digital control panel with energy consumption monitoring
- Photovoltaic function
- Compatible with ducted fresh air intake installations
- Boiler/Solar Coil (only PAW-DHW270C1F)

2 Comfort

- Different modes of operation based on user needs
- Mode AUTO: Intelligent Temperature Set Point, thanks to monitoring hot water usage
- Mode BOOST, Mode ECO and Mode ABSENCE

3 Durability

- Diamond-quality enamel lining the inner tank
- Pressure relief valve which provides safety if any malfunctions or pressure rise
- Dielectric union preventing corrosion
- Specific lip gasket preventing rust around the flange

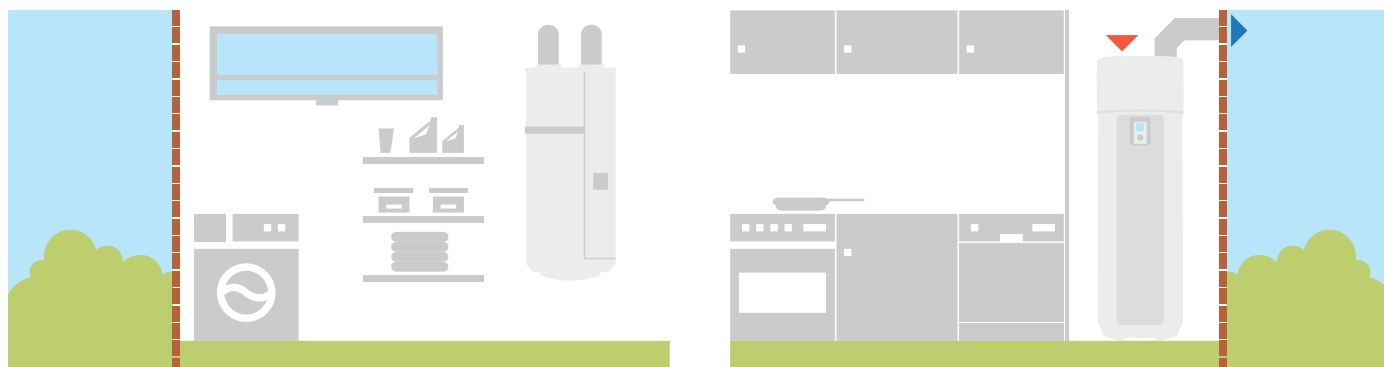


Model Reference		Wall-mounted			Floor-standing	
		PAW-DHW100W-1	PAW-DHW150W-1	PAW-DHW200F	PAW-DHW270F	PAW-DHW270C1F
Nominal capacity	L	100	150	200	270	263
Dimensions (H x W x D)	mm	1209 x 522 x 538	1527 x 522 x 538	1617 x 620 x 665	1957 x 620 x 665	1957 x 620 x 665
Empty weight	kg	57	66	80	92	111
Hot and cold connection		¾" M	¾" M	¾" M	¾" M	¾" M
Anticorrosion system	Anode	Magnesium	Magnesium	Magnesium	Magnesium	Magnesium
Rated water pressure	Mpa (bar)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)	0,8 (8)
Electrical connection	V / Hz	230/50	230/50	230/50	230/50	230/50
Total maximum power	W	1550	1950	2300	2300	2300
Maximal power heat pump	W	350	350	700	700	700
Power electric heating element	W	1200	1600	1600	1600	1600
Heat pump water temperature range	°C	50 - 62	50 - 62	50 - 62	50 - 62	50 - 62
Heat pump air temperature range	°C	-5 - +43	-5 - +43	-5 - +43	-5 - +43	-5 - +43
Duct diameter	mm	125	125	160	160	160
Air flow (without duct)	m³/h	160	160	310/390	310/390	310/390
Load losses acceptable on ventilation circuit, without affecting performance	Pa	70	70	25	25	25
Sound power level ¹⁾	dB(A)	45	45	53	53	53
R134a refrigerant capacity	kg	0,52	0,58	0,80	0,86	0,86
Refrigerant volume in tons of CO ₂ equivalent	TCO ₂ Eq.	0,74	0,83	0,50	0,54	0,54
Refrigerant weight per liter	kg/L	0,0052	0,0039	0,0040	0,0032	0,0032
Hot water quantity at 40 °C: V40td	L	151,0	182,0	265,5	361,2	357,9
Acoustic power ErP ²⁾	dB(A)	45	45	53	53	53
Energy Efficiency Class (from A+ to F)		A+	A+	A+	A+	A+
Connectable to PV		Yes	Yes	Yes	Yes	Yes
Additional coil exchanger connection		—	—	—	—	1" M
Additional coil surface	m ²	—	—	—	—	1,2
Performance at 7 °C air temperature		[EN 16147] ducted at 25 Pa		[CDC LCIE 103-15/C] ducted at 30 Pa ³⁾		
Coefficient of performance (COP) according load profile		2,66 - M	3,05 - L	2,81 - L	3,16 - XL	3,05 - XL
Standby Input power (P _{es})	W	18	24	32	29	33
Heating up time (t _h)	h. Min	6h47	10h25	07h11	10h39	11h04
Reference hot water temperature (T _{ref})	°C	52,7	53,2	52,7	53,1	52,9
Flow rate (air)	m³/h	140	110	320	320	320
Performance at 15 °C air temperature [EN 16147]						
Coefficient of performance (COP) according load profile		2,88 - M	3,28 - L	3,05 - L	3,61 - XL	3,44 - XL
Standby Input power (P _{es})	W	19	25	30	30	33
Heating up time (t _h)	h. Min	6h07	9h29	6h24	8h34	8h40
Reference hot water temperature (T _{ref})	°C	52,6	53,4	52,8	53,0	53,1
Flow rate (air)	m³/h	140	110	320	320	320

1) According to ISO3744. 2) Compliant with EN 16147 conditions. 3) Performance measured for a water heater from 10 °C to T_{ref} according to the protocol of the NF Electricity Performance Mark specifications No.LCIE 103-15C, selfheating thermodynamic water heaters (based on standard EN 16147). * DHW Stand Alone is produced by S.A.T.E.

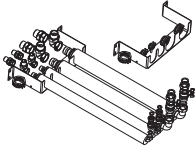
Ideal for small surfaces

Suitable for all installations (adapted to small surfaces, low ceiling, corner).



Accessories and control

All in One accessories



PAW-ADC-PREKIT-H
Flexible pipings and wall mounting plate for All in One H Generation.

PAW-ADC-PREKIT-1
Flexible pipings and wall mounting plate for All in One J Generation (not compatible with WH-ADC0309J3E5C).



PAW-ADC-CV150
Decorative magnetic side cover.

Special outdoor supports



PAW-WTRAY
Tray for condenser water compatible with base ground support.

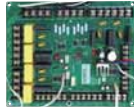


PAW-GRDSTD40
Outdoor elevation platform.



PAW-GRDBSE20
Outdoor base ground support for noise and vibration absorption (600 x 95 x 130 mm, 500kg).

PCB's for additional functions



CZ-NS4P
PCB for advanced functions in J and H Generation.

Device accessories

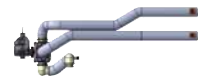


CZ-NE1P
Base pan heater (for all old Bi-bloc and Mono-bloc, not for the 3 and 5 kW).

CZ-NE2P
Base pan heater (for Bi-bloc 3 kW and 5 kW).

CZ-NE3P
Base pan heater for J and H Generation.

Hydraulic accessories



CZ-NV1
3 way valve kit for inside the hydrokit.



PAW-3WYVLV-HW
3 way valve for DHW Tanks.

PAW-A2W-AFVLV
Anti-freeze valve.

Smart fan coil accessories

PAW-AAIR-LEGS-1
Kits of 2 legs to protect the water pipings.

PAW-AAIR-RHCABLE
Motor connection cable for units with hydraulic connections on the right.

Fan coil accessories



PAW-FC-903TC
NEW Wired remote controller for fan coil.



PAW-FC-RC1
Advanced wired remote controller for fan coil.

PAW-FC-2WY-11/55-1
2 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1).

PAW-FC-2WY-65/90-1
2 way valve + drain pan (for PAW-FC-D65/90-1).

PAW-FC-2WY-150
2 way valve + drain pan (for PAW-FC-H150).

PAW-FC-3WY-11/55-1
3 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1).

PAW-FC-3WY-65/90-1
3 way valve + drain pan (for PAW-FC-D65/90-1).

PAW-FC-3WY-150
3 way valve + drain pan (for PAW-FC-H150).

Heat Recovery Ventilation accessories



PAW-VEN-FLTKIT
Supply and extract filters kit.



PAW-VEN-ACPCB
Optional PCB for additional functions.



PAW-VEN-DPL
HRV touch control panel. White frame (cable must be ordered separately).



PAW-VEN-CBLEXT12
Cable with plug for electrical connection between unit and control panel, type CE and CD (12 m).



PAW-VEN-DIVPLG
Twin plugs for installation of several control panels type CD or CE for one unit.



PAW-VEN-DPLBOX
HRV touch control panel wall-mounted kit.



PAW-VEN-S-CO2RH-W
CO₂ RH wall-mounted sensor.



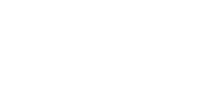
PAW-VEN-S-CO2-D
CO₂ duct sensor.



PAW-VEN-WBRK
Wall bracket kit for stand-alone installation on the wall.



PAW-VEN-PTC12
1,2 kW PTC heater DN125.



PAW-VEN-PTC08
0,8 kW PTC heater DN125.

PAW-VEN-S-CO2-W
CO₂ wall-mounted sensor.

Sanitary tank accessories



PAW-TS1
Tank sensor with 6 m cable length.

PAW-TS2
Tank sensor with 20 m cable length.

PAW-TS4
Tank sensor with 6 m cable length and only 6 mm diameter.



CZ-TK1
Temperature sensor kit for third party tank [with copper pocket and 6 m length sensor cable].



PAW-DHW-STAND
Rack for suspended device for 100 and 150 liters models.

Connectivity solutions



CZ-TAW1
Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN.

CZ-TAW1-CBL
10 m extension cable for CZ-TAW1.



PAW-AW-KNX-1i
KNX Interface compatible with G and F Generation.

PAW-AW-KNX-H
KNX Interface for J and H Generation.



PAW-AW-MBS-1
Modbus interface compatible with G and F Generation.

PAW-AW-MBS-H
Modbus Interface for J and H Generation.

Cascade Controller



PAW-A2W-CMH
Modbus IP for BMS communication.

Room thermostats



PAW-A2W-RTWIRED
Wired LCD room thermostat with weekly timer.



PAW-A2W-RTWIRELESS
Wireless LCD room thermostat with weekly timer.

H Generation sensors



PAW-A2W-TS0D
Outdoor ambient sensor.



PAW-A2W-TSRT
Zone room sensor.



PAW-A2W-TSHC
Zone water sensor.



PAW-A2W-TSS0
Solar sensor.



PAW-A2W-TSBU
Buffer tank sensor.

Aquarea Manager accessories (not compatible with J and H Generation)



PAW-HPM1
Aquarea Manager with LCD.



PAW-HPM2
Aquarea Manager without LCD.



PAW-HPMED
Touch screen.



PAW-HPMB1
Buffer tank sensor.

PAW-HPMDHW
Buffer tank sensor with well.



PAW-HPMAH1
Water flow pipe sensor for heating circuit.



PAW-HPMUH
Outdoor temperature sensor.

PAW-HPMINT-U
Interface to connect Aquarea Manager to Heat pump Aquarea Bi-bloc [HPM can control all parameters from HP].

PAW-HPMINT-M
Interface to connect Aquarea Manager to Heat pump Aquarea Mono-bloc [HPM can control all parameters from HP].

PAW-HPMINT-F
Interface to connect Aquarea Manager to Heat pump Aquarea Mono-bloc and Bi-bloc F type [HPM can control all parameters from HP].

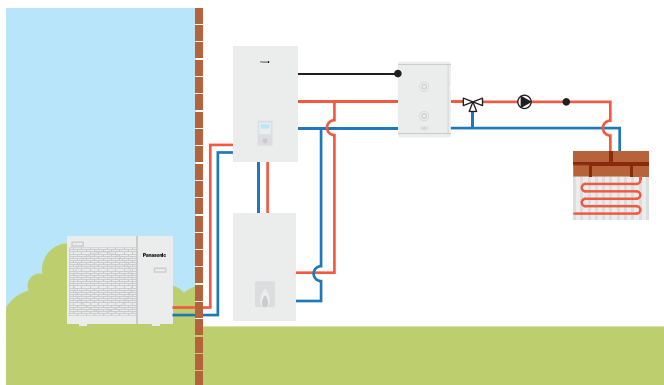
PAW-HPMSOL1
Buffer tank sensor solar [with higher temperature range].

PAW-HPMR4
Room sensor + set point adaptation.

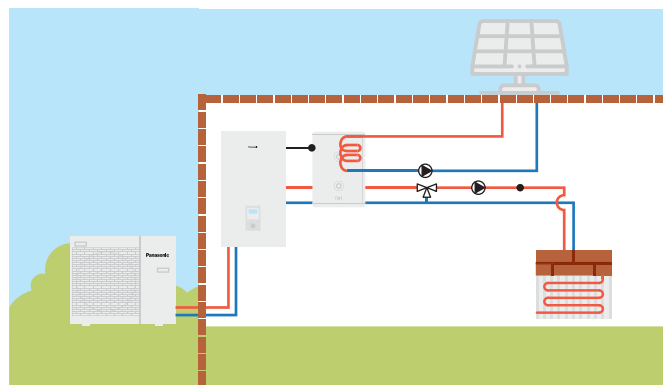
PAW-DEWPOINTSENSOR
Dew point sensor.

Examples of installations

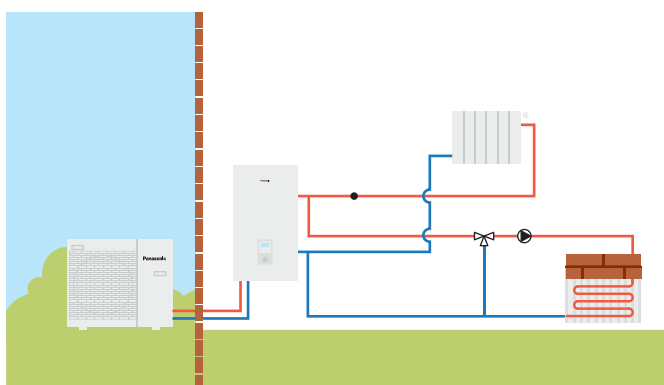
Aquarea J and H Generation:
Bivalent with buffer tank and mixing valve



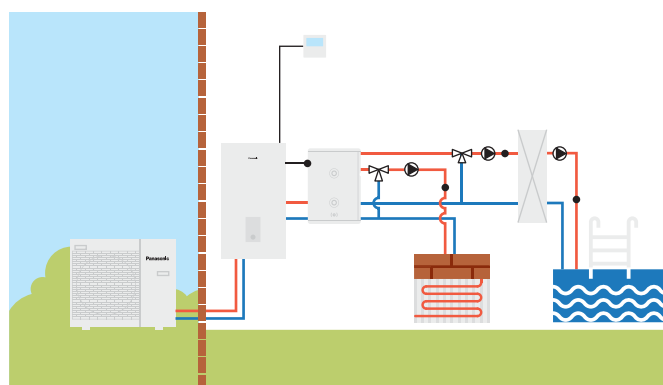
Aquarea J and H Generation:
Buffer tank with solar and mixing valve



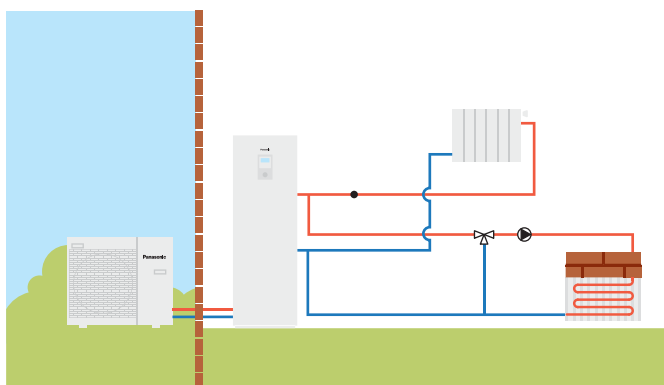
Aquarea J and H Generation:
2 zones with external kit without buffer tank



Aquarea J and H Generation:
2 zones with external kit, buffer tank and swimming pool



Aquarea All in One J and H Generation:
2 zones with external kit, without buffer tank



Aquarea All in One 2 zones J and H Generation:
2 zones built-in, without buffer tank

