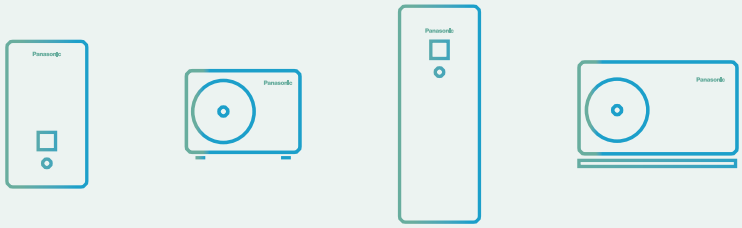
Panasonic

Aquarea
2022 / 2023



heating & cooling solutions

Panasonic environmental vision 2050

To achieve “a better life” and “a sustainable global environment,” Panasonic will work towards creation and more efficient utilisation of energy which exceeds the amount of energy used, aiming for a society with clean energy and a more comfortable lifestyle.

2050

Energy used < Energy created

One initiative in the Panasonic environmental vision 2050 is offering products with greater energy efficiency. In 2018, we celebrated the 60th anniversary of our Heating & Cooling Solutions business. Our expertise gained over the years has helped us launch a range of products that contribute to a more carbon-free society.

Current status of energy used and energy created

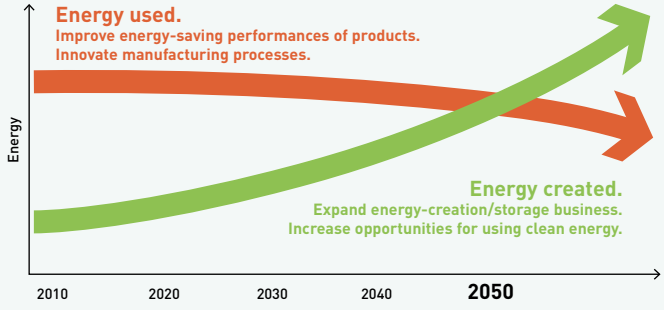
Energy used by Panasonic business activities and products.

10 Energy used

Clean energy created and / or made available by Panasonic products, etc.

1 Energy created

Working to realise environmental vision 2050



Projects and case studies of Panasonic Heating & Cooling Solutions

Panasonic, a partner with the knowledge and experience to achieve your objectives and green needs.

Integrated technology that permits better work, easy installation, high efficiency performance, and energy savings

Our main targets are the distributed services and B2B-integrated solutions.
Panasonic provides a single point of contact for the design and maintenance of your system, making things easy for you. Given our experience in processes, technologies and complex business models, we can offer you effective solutions that reduce costs, whilst also being efficient, user-friendly, reliable and innovative. Another advantage we offer to our clients is a support service for systems integration projects, which we provide through our wide range of services and solutions. As a global company, we have at our disposal the financial, logistical and technical resources to develop complex and wide-ranging solutions, both at country and international level by implementing them both on-time and on-budget.

Aquarea Heat Pumps provide heating and hot water for new rural housing development, UK. **Aquarea**

The Hotel Vincci Gala with efficiency class A, up to 70 % save energy. Barcelona, Spain. **ECOi - ECO G**

STEMCELL Technologies, a global biotechnology company, installed CO_2 condensing units - CR Series for cold rooms in the warehouse. France. **Refrigeration**

The EDEKA store in Germany, the first supermarket providing the maintenance-free nanoe™ X technology for better indoor air quality. Germany. **ECOi and nanoe™ X**

Aquarea T-CAP provides a complete solution of heating, cooling and DHW for the refurbishment of a luxury house in Voorthuizen, Netherlands. **Aquarea**

CÉDRUS LIGET, a complex facility including apartments, penthouses and showrooms etc. Hungary. **ECOi-W - ECOi - PACi**

Dolomiti Lodge Alverà hotel with nice wooden furnishings, located in Cortina d'Ampezzo, Italy. **ECOi**

LIAIGRE showroom, well-known as a luxury design architect in Paris, France. **ECOi**

Marina Village Greystones. 205 apartments and 153 houses. Ireland. **Aquarea**

ITK Engineering GmbH. An innovative office building located in Germany. **ECOi - PACi**

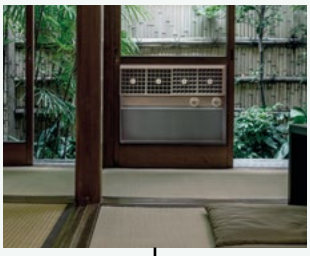
A historic building on Amsterdam's Marineterrein. Netherlands. **ECOi-W**

Nolan's supermarket in Ireland installs the first Panasonic CO_2 condensing units - CR Series for showcases. Ireland. **Refrigeration**

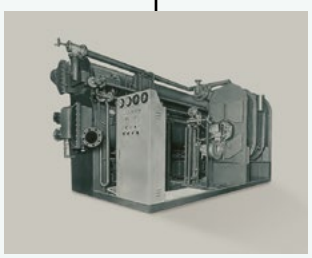
A desire to create things of value

"Recognising our responsibilities as industrialists, we will devote ourselves to the progress and development of society and the well-being of people through our business activities, thereby enhancing the quality of life throughout the world."
Panasonic Corporation's Basic Management Objective, formulated in 1929 by the company's founder, Konosuke Matsushita.

1958
First room air conditioner launched for domestic installation.



1971
Starts production of absorption chillers.



1975
Panasonic becomes one of the first Japanese air conditioner manufacturers in Europe.

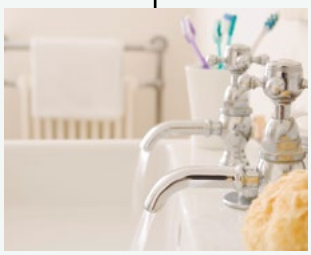
1982
Panasonic launches the first highly efficient air to water heat pump in Japan.

1985
Introduces first GHP (gas heat pump) VRF air conditioner.

1989
Introduces world's first simultaneous 3-Pipe heating / cooling VRF System.

2008
World's first air conditioner equipped with nanoe™

2010
New Aquarea. Panasonic introduces Aquarea, an innovative new, low-energy system in Europe.



Vitalize the future with air

These are times of exceptional challenge.
If the world is to move forward confidently, it must overcome the serious threats of the new global pandemics and the degrading of the environment. It must find ways large and small to reduce the stresses that affect people's health and the stability of their communities.
At Panasonic, we're utilizing the power of air to create positive change.
Air that benefits body and mind.
Air that energizes the places where people gather to work and play.
Air that reduces our burden on the Earth.
With more than a century of research and expertise to guide us, we're using air to open a more hopeful and vital future for all.

2012

New Panasonic GHP units. The gas-driven VRF Systems are ideal for projects where power restrictions apply.

2015

CO_2 condensing units in Europe. The ideal solution for supermarkets, shops and gas stations.

2016

New VRF Systems ECOi EX with extraordinary energy saving performance.

2018

The first Hybrid System with VRF and GHP in Europe.

2019

Panasonic introduces a new Chiller series which is named as ECOi-W.

2020

nanoe™ X, technology with the benefits of hydroxyl radicals. Improving protection 24/7.

2021

Mini VRF R32 up to 10 HP. Outstanding efficiency in a compact body.

Looking ahead

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).

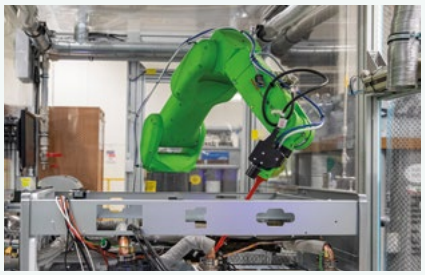
A globally trusted air conditioning brand

Panasonic – leading the way in Heating and Cooling.
With more than 50 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector.
With a diverse network of production and R&D facilities, Panasonic delivers innovative products incorporating cutting-edge technologies that set the standard for air conditioners worldwide.

From, for and by Europe

In 2018 Panasonic initiated the production of air to water heat pumps in its factory in Pilsen, Czech Republic. Keeping an excellent combination of highly skilled human resources and production automation the big demand growth foreseen in Europe can be met with outstanding quality standards.

Factory in Pilsen, Czech Republic.



More than 40 years of experienced organization in Europe.

At Panasonic, we know that the best is always yet to come. This is why our air conditioning and heat pump solutions are constantly upgraded. Panasonic is committed to offering our customers innovative products in the heating and cooling market across Europe, and has the ambition to not only meet but also exceed their requirements. Our Technology and Design teams anticipate the needs of tomorrow. We look to produce smaller, quieter, efficient solutions - with better technological features – that can reduce energy consumption while providing suitable temperature conditions for the user.

Panasonic R&D Center Germany GmbH.

The European Research and Development Center of Panasonic focusing on technology development for intelligent and environmentally friendly future products, such as audio video, communication and energy solutions.

Panasonic R&D Center Germany GmbH.

38 Training Center in 19 countries in Europe

The Panasonic PRO Academy.

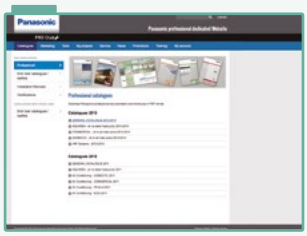
Heating and Cooling business is changing rapidly, new technologies, new regulations, new solutions that require continuous update for professionals. Panasonic takes its responsibility to its distributors, specifiers and installers seriously and has developed a comprehensive training programme with 38 Training Center in 19 countries in Europe.

PRO Club. The professional website of Panasonic

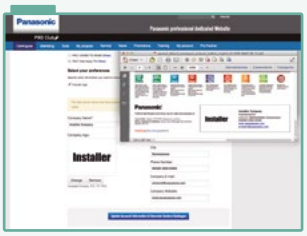
Panasonic has an impressive range of support services for designers, specifiers, engineers and distributors working in the heating and cooling markets.

Panasonic PRO Club (www.panasonicproclub.com) is the online tool which makes your life easier! You just have to register and a lot of functionalities are freely available to you, where ever you are, from your computer or smartphone!

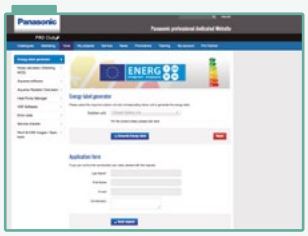
- Print catalogues with your logo and contact details
- Access to the extensive library of professional design, selection and calculation tools (Aquarea Designer, VRF software, chiller selector, etc.)
- Get documents of conformity and all other documents you may need
- Download all the service manuals, end user manuals and installation manuals
- Download energy labels in PDF format using the energy label generators
- Download Revit and CAD files and specification texts
- Know what to do with error codes (error code search by error code or unit ref.)
- PRO Academy: register for training
- Download product images in high resolutions, advertisements, deco guidelines
- Get to know special offers and promotions
- Find out about the latest news first



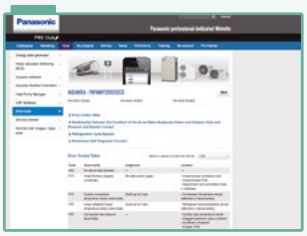
Easy download Panasonic service documentation and brochures.



Customise leaflets with your logo and contact details. Save and print the PDF.



Energy label generator. Download Energy labels of any device in PDF format.



Error Code on your smartphone and your PC: Search by error code or model reference. Online version + downloadable version for offline use.

Panasonic PRO Club is fully compatible with tablet computer and smartphone.

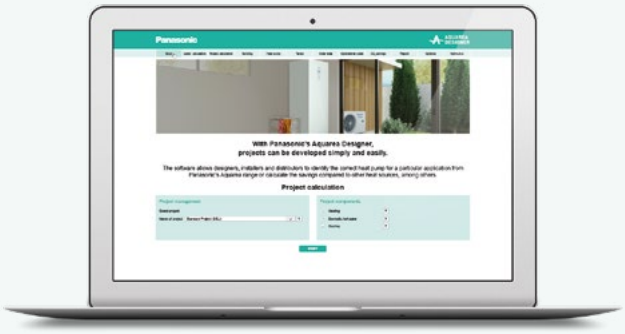
Visit www.panasonicproclub.com or connect simply with your smartphone to the PRO Club using this QR.

PRO Club

Panasonic provides bespoke software and tools helping system designers, installers and dealers to very quickly select, design and size systems or create wiring or hydraulic diagrams at the push of a button.

Aquarea Designer - online tool

With Panasonic's online tool, projects can be developed simply and easily. The newly developed tool is optimised to help HVAC professionals easily identify the most appropriate Aquarea air to water heat pump for a particular application.



Domestic AirCon Quick Selector

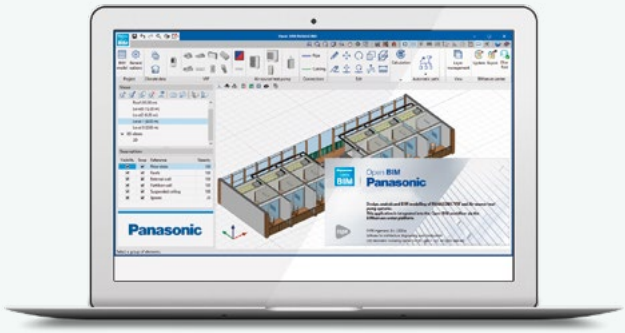
This user-friendly online tool for our domestic range allows to choose the best split or multi-split system for each project needs and get the specifications of that particular application.

VRF Designer

Building on the success of the ECOi VRF Designer software, this package provides air conditioning system designers, installers and dealers with a program to design and size projects for Panasonic's VRF ranges.

Open BIM

Design, analysis and BIM modeling of Panasonic VRF and Air to Water heat pump systems. Generates documents, 3D model, schematics and drawings. This application is integrated into the Open BIM workflow via the BIMserver.center platform.

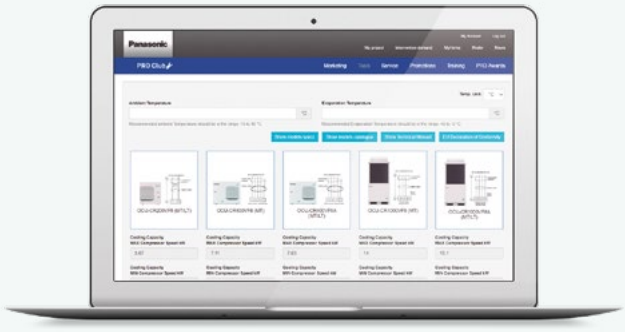


Chiller configurator

This online software solution offers a complete tool to allow the user to accurately calculate the performance at specified conditions, select and configure our range of commercial chillers, heat pumps and fan coils. It also provides a comprehensive report to share with customers and clients alike.

Refrigeration tool

Panasonic has launched a new online calculator to support engineers, installers, and technicians to quickly make calculations when specifying solutions for commercial refrigeration systems.



Panasonic heat pumps with top technology

To all that we then add sophisticated and elegant designs. Our heat pumps are like that: innovative inside and beautiful outside.

Panasonic's heat pumps are the heat source of choice for the future

Leadership isn't something you can just get. You have to show it. Which is why at Panasonic we strive each and every day to make our heat pumps highly reliable and surprisingly efficient, with minimum noise impact and the lowest environmental footprint possible.

Aquarea. The new generation of energy efficient heating and hot water.

Aquarea All in One belongs to the new generation of Panasonic heat pumps for heating, cooling and providing hot water in the home. Aquarea T-CAP is one of the newest heat pumps on the market, and maintains nominal heating capacities even at temperatures as low as -20 °C. This ensures the best possible seasonal energy efficiency ratio. The heat pumps are tested at an outdoor temperature of -28 °C, to ensure the most efficient and stable operation in the Nordic climate.

Aquarea All in One J Generation.
Compact and easy to install. All in One is a space-saving solution, ideal to install in the laundry room. In addition, Panasonic has developed a range of controls that allow control of two heating zones and cascade systems.

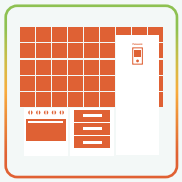
AQUAREA

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, 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 5/7/9/12/16 kW Mono-bloc.

R32
NEW REFRIGERANT GAS

1 Keeping Aquarea essence

· A+++ in heating mode at 35 °C (scale from A+++ to D)
· Optional Aquarea Smart and Service Cloud

2 Higher efficiency

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

3 More flexibility in design

· 60 °C water temperature (up to 65 °C in T-CAP Mono-bloc)
· Piping length between indoor and outdoor units 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 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 T-CAP Mono-bloc J Generation R32

R32 Refrigerant: A 'small' change that changes everything.
With Mono-bloc, the refrigerant circuit is sealed inside the outdoor unit, so there is no need to worry about the amount of refrigerant per room.

65 °C[1] water temperature possible.
By optimising the system and the refrigerant cycle, the unit can work under higher pressure and realise a water temperature of 65°C.

1) In case of ΔT setting with remote controller is 15 °C and outdoor ambient temperature is 5 to 20 °C, 65 °C hot water temperature is possible. Even with the T-CAP series, capacity will drop when water temperature reaches 65 °C.

Aquarea J Generation.

The beauty of comfort. The J 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).

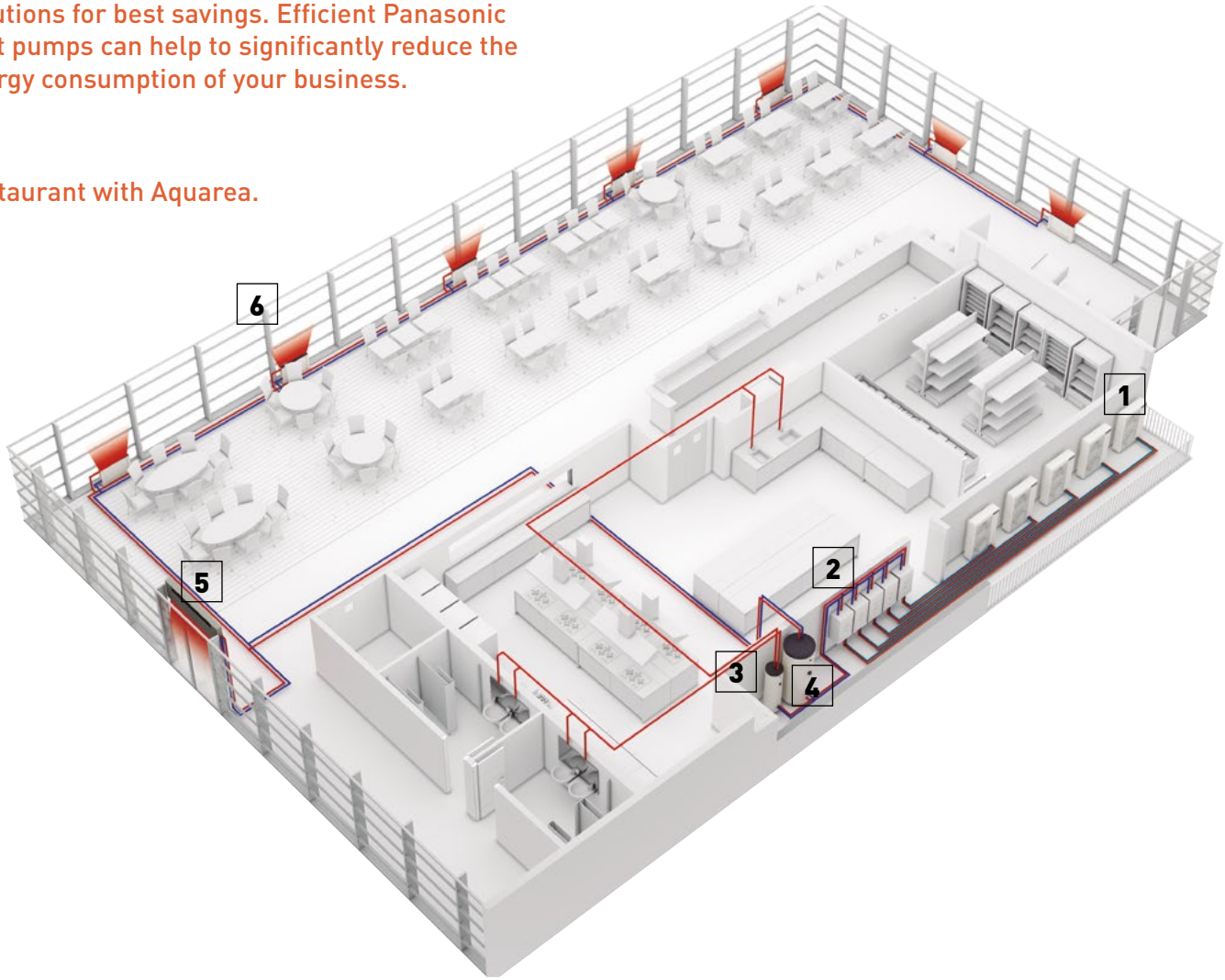
Better Efficiency & Value A++/A+++.
· A++ for medium temperature applications (radiators. ErP 55 °C in the scale from A+++ to D)
· A+++ for low temperature applications (floor heating. ErP 35 °C in the scale from A+++ to D)

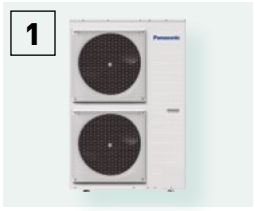
Aquarea, a generation of energy efficient heating and hot water.
Thanks to the system's high degree of technology and advanced control, it is able to maintain a high output capacity and efficiency even at -7 °C and -15 °C. The Aquarea's software can be set for the requirements of low consumption homes 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

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

Restaurant with Aquarea.

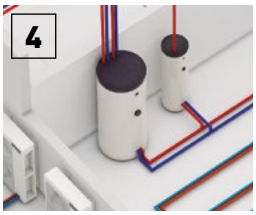




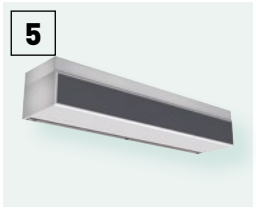
Aquarea T-CAP.
16 kW heat pumps on cascade mode.
T-CAP line-up is an ideal replacement for old gas/ oil boilers.

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.

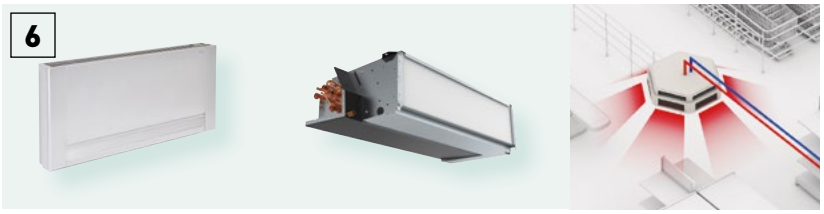
Super high efficiency Tanks.
Combining Panasonic Aquarea with a high efficiency tank ensures the desired volume of hot water, at the correct temperature while reduced energy costs.



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

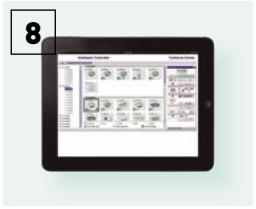


Air Curtain with water Coil.
Water coil air curtains can be used in the hydraulic system to have efficient performance of the water system.



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...

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.

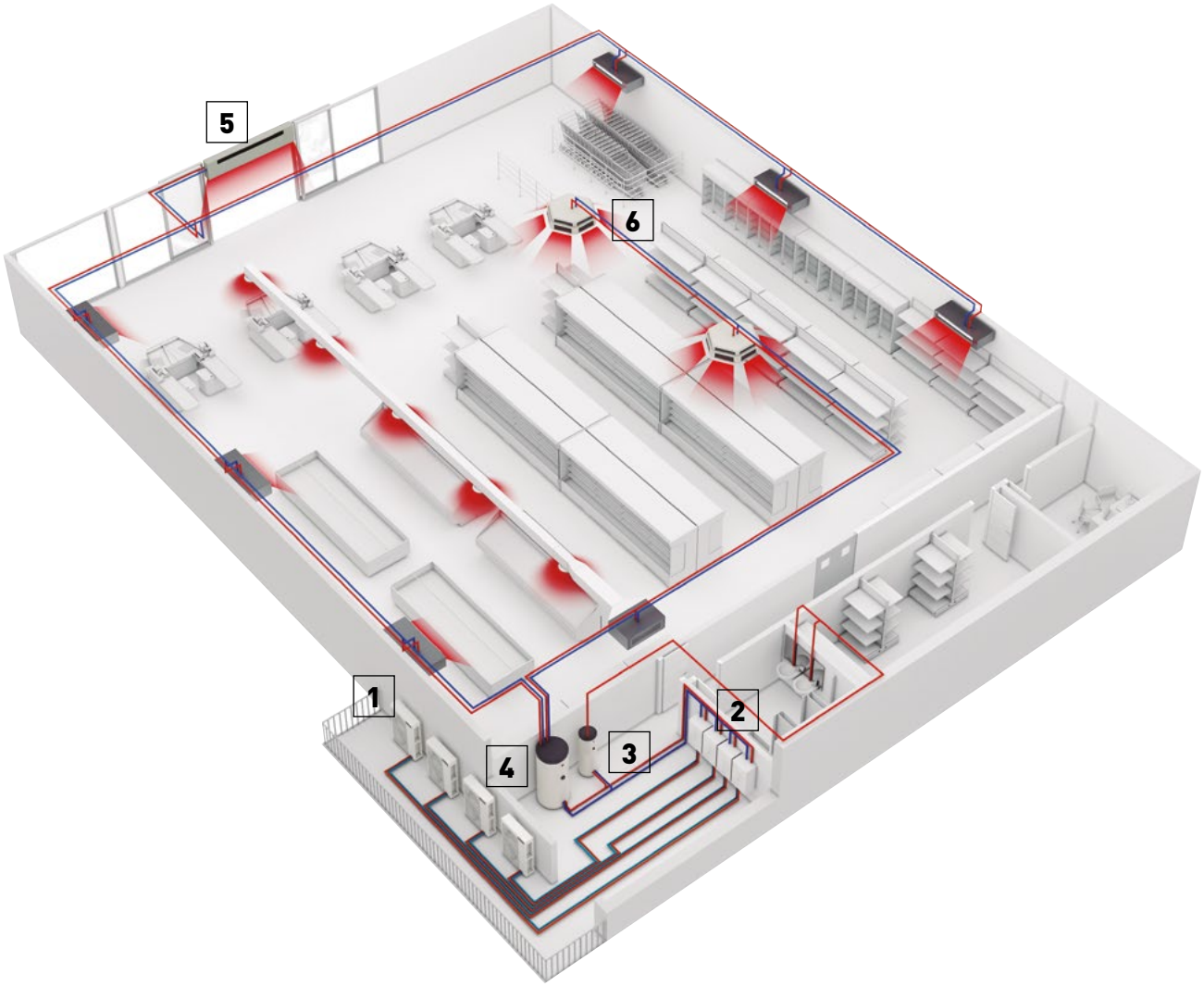


BMS integration.
The cascade system can be easily in integrated in a Modbus project thanks to the cascade manager.

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

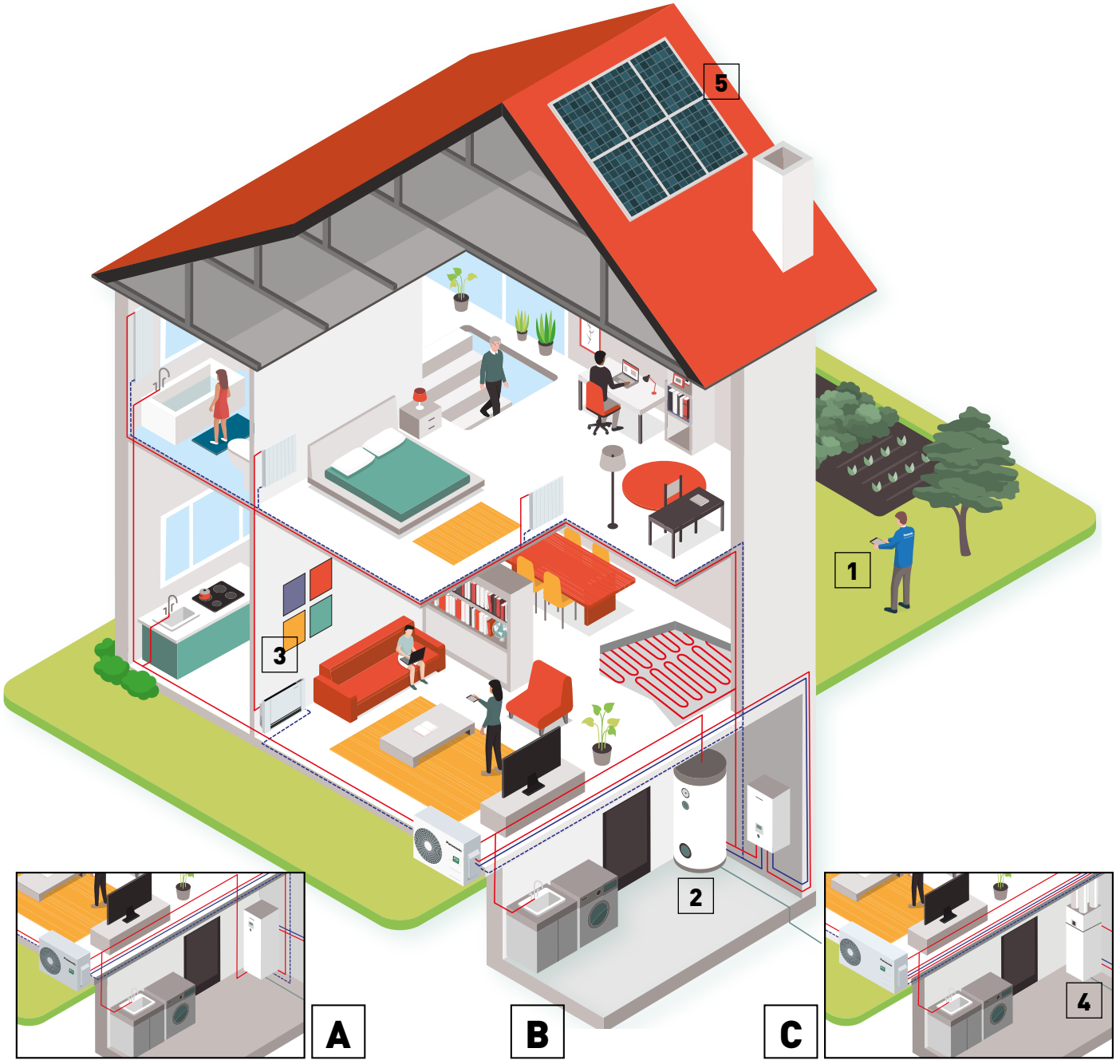
Supermarket with Aquarea.



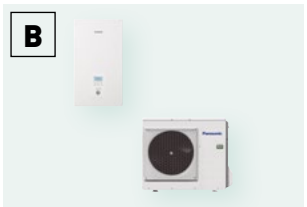
Burger & Lobster restaurant. Bath, UK.
Panasonic's air to water Aquarea system has been installed in the latest glamorous Burger & Lobster restaurant in Bath. The Octagon Chapel, a large listed building in the city centre, was converted to accommodate the restaurant, and Panasonic's Aquarea system provided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

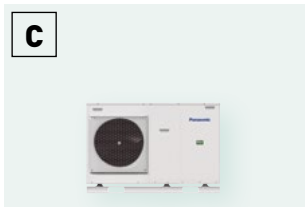
Aquarea Heat Pump line-up



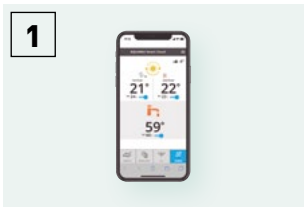
All in One system.



Bi-bloc system.



Mono-bloc system.



Control through smartphone, tablet or computer (optional).

Super high efficiency cylinder (optional).

Fan coils for heating and cooling (optional).

Heat recovery Ventilation + DHW Tank (optional).

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 CO_2 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[1] outdoor temperature without the help of an electrical booster heater.

1) At 35 °C flow temperature.

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 up to 72 % compared with traditional electric water heaters.

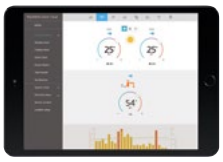
Aquarea High Performance	Aquarea T-CAP	Aquarea HT	DHW Stand Alone
Heating - Cooling - DHW	Heating - Cooling - DHW	Heating - DHW	Only DHW
Single phase from 3 to 16 kW Three phase from 9 to 16 kW	Single phase from 9 to 12 kW Three phase from 9 to 16 kW	Single phase from 9 to 12 kW Three phase from 9 to 12 kW	From 100 to 270 L
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			
A+++ / A++ Heating 35 °C / 55 °C [1]	A++ / A++ Heating 35 °C / 55 °C [1]	A++ / A++ Heating 35 °C / 55 °C [1]	A+ DHW 50 ~ 62 °C
Minimum outdoor temperature			
-20 °C	-28 °C (All in One and Bi-bloc) -20 °C (Mono-bloc) [2]	-20 °C	-5 °C
Minimum outdoor temperature to provide constant capacity at 35 °C supply water temperature			
-7 °C (not for all units)	-20 °C [2]	-15 °C	—
Supply temperature for heating. Maximum / Heat pump only			
75 °C [3] / 55 °C [4] (or 60 °C for Aquarea J Generation)	75 °C [3] / 60 °C [4] (65 °C [5] for Aquarea J Generation)	75 °C [3] / 65 °C	—
Control and connectivity			
Smart Grid Contact [6] Wireless LAN Ready	Smart Grid Contact [6] Wireless LAN Ready	—	—
Range			
All in One from 3 to 16 kW (185 L) Bi-bloc from 3 to 16 kW Mono-bloc from 5 to 16 kW	All in One from 9 to 16 kW (185 L) Bi-bloc from 9 to 16 kW Mono-bloc from 9 to 16 kW	Bi-bloc from 9 to 12 kW Mono-bloc from 9 to 12 kW	Wall-mounted 100 and 150 L Floor-standing 200 and 270 L

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) 9 and 12 kW. 3) DHW maximum temperature with heater. 4) In case of outdoor temperature over -10 °C. 5) It is possible to set temperature by 65 °C on remote controller. Normally, outlet water temperature is 60 °C or lower. In case of ΔT setting with remote controller is 15 °C and the outdoor ambient temperature is 5 to 20 °C, outlet water temperature 65 °C is possible. 6) J and H Generation with CZ-NS4P. * DHW Stand Alone is produced by S.A.T.E.

Aquarea Smart Cloud for the users

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

WATCH DEMO



* User interface image may change without notification.

Works with IFTTT

More possibilities with IFTTT.

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

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

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

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.

Get the most out of your Aquarea Heat Pump.

Aquarea+ offers end user useful information to operate a Panasonic Aquarea Heat Pump to provide heating, cooling and hot water in the most efficient and cost effective way.

AQUAREA+

Aquarea Service Cloud for installers or maintenance companies

WATCH DEMO

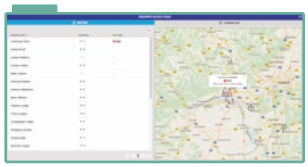
The Aquarea Service Cloud allows installers to take care of their customers' heating systems remotely. It saves time and money and shortens the response time, thus increasing the customers' satisfaction.

The real remote maintenance made simple

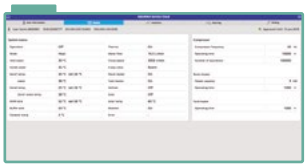
Advanced functions for remote maintenance with professional screens:

- Global view at a glance
- Error log history
- Full unit information
- Statistics always available
- Most settings available

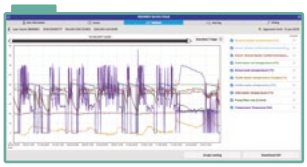
Home page.
Status of connected users at a glance. 2 view options: map view or list view.



Status tab.
Current status of unit with a maximum 28 parameters.



Statistics tab.
Customisable statistics of a maximum of 71 parameters. Available anytime with the information of the last 7 days.



Settings tab.
Most of the user and installer settings can be done remotely.

Activation of the Aquarea Service Cloud

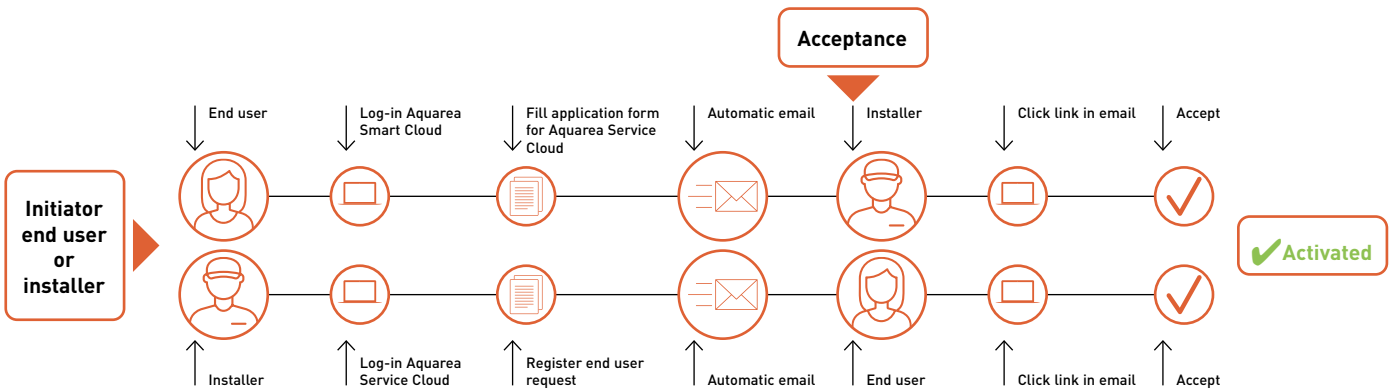
Requirements.

Hardware and connection	End user registration	Installer / maintenance registration
J or H Generation Aquarea connected to CZ-TAW1	Get Panasonic ID	Get Service ID
In-house internet connection with Wireless LAN or Wired LAN	Aquarea Smart Cloud	Aquarea Service Cloud

Connecting the unit to the Aquarea Service Cloud.
The process can be initiated by the end user or by the installer.
The end user can select and change the installer's level of control anytime (4 levels).

Installer registration: https://aquarea-service.panasonic.com/

End user registration: https://aquarea-smart.panasonic.com/

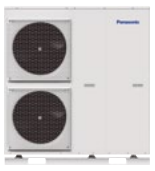


Aquarea Heat Pump range

		3 kW	5 kW	7 kW
Aquarea High Performance **P. 27, 28, 29, 30**	**All in One** 1 Phase 3 Phase	  WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD03JE5	  WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD05JE5	  WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD07JE5
P. 31, 32	**Bi-bloc** 1 Phase 3 Phase	 WH-SDC0305J3E5 WH-UD03JE5	 WH-SDC0305J3E5 WH-UD05JE5	 WH-SDC0709J3E5 WH-UD07JE5
P. 33	**Mono-bloc** 1 Phase		 WH-MDC05J3E5	 WH-MDC07J3E5
Aquarea T-CAP **P. 34, 35, 36**	**All in One** 1 Phase 3 Phase			
P. 37, 38	**Bi-bloc** 1 Phase 3 Phase			
P. 39	**Mono-bloc** 1 Phase 3 Phase			
Aquarea HT **P. 40**	**Bi-bloc** 1 Phase 3 Phase			
P. 41	**Mono-bloc** 1 Phase			

Heating. Cooling. DHW. WH-__E5 1 Phase // WH-__E8 3 Phase. Green color: J Generation models with R32 refrigerant.

Check all our certified heat pumps on:
www.heatpumpkeymark.com

9 kW	12 kW	16 kW
 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-ADC0309J3E5C WH-UD09JE5-1 WH-ADC0916H9E8 WH-UD09HE8	 WH-ADC1216H6E5 WH-ADC1216H6E5C WH-UD12HE5 WH-ADC0916H9E8 WH-UD12HE8	 WH-ADC1216H6E5 WH-ADC1216H6E5C WH-UD16HE5 WH-ADC0916H9E8 WH-UD16HE8
 WH-SDC0709J3E5 WH-UD09JE5-1 WH-SDC09H3E8 WH-UD09HE8	 WH-SDC12H6E5 WH-UD12HE5 WH-SDC12H9E8 WH-UD12HE8	 WH-SDC16H6E5 WH-UD16HE5 WH-SDC16H9E8 WH-UD16HE8
 WH-MDC09J3E5		
 WH-ADC1216H6E5 WH-ADC1216H6E5C WH-UX09HE5 WH-ADC0916H9E8 WH-UX09HE8 WH-ADC0916H9E8 WH-UQ09HE8	 WH-ADC1216H6E5 WH-ADC1216H6E5C WH-UX12HE5 WH-ADC0916H9E8 WH-UX12HE8 WH-ADC0916H9E8 WH-UQ12HE8	 WH-ADC0916H9E8 WH-UX16HE8 WH-ADC0916H9E8 WH-UQ16HE8
 WH-SXC09H3E5 WH-UX09HE5 WH-SXC09H3E8 WH-UX09HE8 WH-SQC09H3E8 WH-UQ09HE8	 WH-SXC12H6E5 WH-UX12HE5 WH-SXC12H9E8 WH-UX12HE8 WH-SQC12H9E8 WH-UQ12HE8	 WH-SXC16H9E8 WH-UX16HE8 WH-SQC16H9E8 WH-UQ16HE8
 WH-MXC09J3E5 WH-MXC09J3E8	 WH-MXC12J6E5 WH-MXC12J9E8	 WH-MXC16J9E8
 WH-SHF09F3E5 WH-UH09FE5 WH-SHF09F3E8 WH-UH09FE8	 WH-SHF12F6E5 WH-UH12FE5 WH-SHF12F9E8 WH-UH12FE8	
 WH-MHF09G3E5	 WH-MHF12G6E5	

Aquarea All in One

The best Panasonic technology for your home.

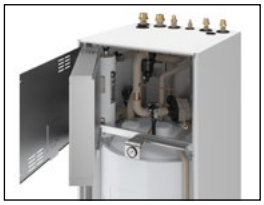
Aquarea All in One: the best Panasonic technology for your home

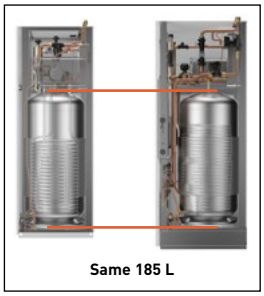
High quality components inside:
- Maintenance free Inox stainless 185 l tank
- Variable speed water pump (class A)
- Less frequent maintenance with pre-installed improved magnet filter
- Expansion vessel
- Vortex flow sensor
- Back up heater
- Safety valve
- Air purge valves
- 3 way valve inside

The ultimate space-saving solution.
- 598 x 600 mm footprint reduces required installation space
- Low height leaves space for a ventilation unit
- No buffer tank required, reducing space, cost and installation time

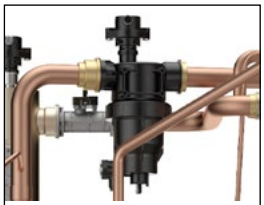
Further flexibility.
- Easy access to hydraulic parts
- Less frequent maintenance with pre-installed improved magnet filter
- Operation without back-up heating at -20 °C
- Can supply 60 °C hot water even at -10 °C outside temperature
- Piping length up to 50 m (for J Generation 7 and 9 kW)
- Modern remote controller can be installed up to 50 m from the indoor unit
- Can connect additional room temperature sensor, solar kit, 2 zones control, swimming pool and circulating pump (need optional PCB: CZ-NS4P)

Aquarea All in One Compact: Made compact but maintenance is still easy





Same 185 L



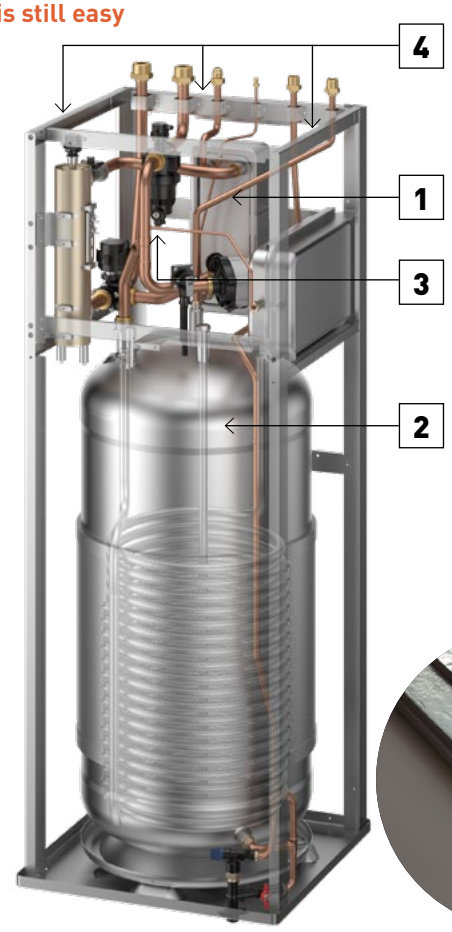
Width: 116 mm / Height: 250 mm

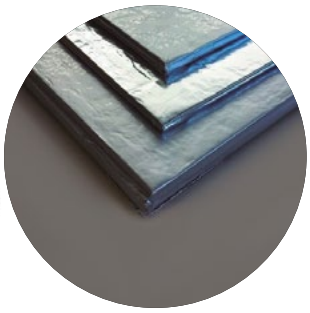
1 | Maintained serviceability.
- Easy maintenance concept
- Access to hydraulic parts thanks to door opening mechanism

2 | Slimmer, yet same tank capacity.
Piping layout at the top in order to maintain large 185 L tank capacity.

3 | Advanced magnetic water filter for less maintenance.
Superior dust removal capacity of the water filter. Less frequent filter cleaning means more convenience.

4 | Robust body for top ventilation unit.
Strengthening the body and top surface with a frame enables installation of a top ventilation unit. For safety, it's secured with bolts to prevent it falling.



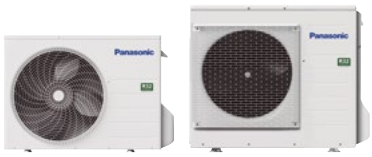


U-Vacua™ VIPs consist of a unique fiberglass core encased in a laminate film made up of several layers that include nylon, aluminium, and a protective layer. Interior pressure is reduced to a vacuum of 1-20 Pa, thereby minimising thermal conductivity.

Aquarea All in One with 2 zone control: The optimal solution for an installation with 2 heating zones.
- 2 heating circuits, with 2 different water temperatures
- 2 water pumps and 2 water filters
- Floor heating water control with mixing valve

GOOD DESIGN AWARD 2017

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



ErP 55 °C Scale from A+++ to D

ErP 35 °C Scale from A+++ to D

DHW Scale from A+ to F

Aquarea High Performance All in One J Generation Single phase. Heating and Cooling 1 or 2 zones · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

Flexibility: Long piping lengths / Built-in magnetic water filter.

Comfort: Heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)			
Kit 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 / 4,71	4,80 / 4,29	6,70 / 4,72	9,00 / 4,18
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	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 [1]	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	157 / 110	157 / 110	164 / 116	164 / 116
		SCOP	4,00 / 2,83	4,00 / 2,83	4,18 / 2,98	4,18 / 2,98
	Energy class [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	dB(A)	28 / 28	28 / 28	28 / 28	28 / 28
Dimension	H x W x D	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight 1 zone / 2 zones		kg	122 / 130	122 / 130	122 / 130	122 / 130
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	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 = Compressor		A	12,0	12,0	15,9	15,9
Power supply 2 = Backup heater		A	13,0	13,0	13,0	13,0
Recommended fuse		A	16 / 16	16 / 16	25 / 16	25 / 16
Recommended cable size, supply 1 / 2		mm²	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5
Water volume		L	185	185	185	185
Maximum DHW 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 efficiency average /cold [2]		A+ to F	A+ / A	A+ / A	A+ / A	A+ / A
DHW tank ERP average climate η / COPdHW		ηwh% / COPdHW	132 / 3,30	132 / 3,30	120 / 3,00	120 / 3,00
DHW tank ERP cold climate η / COPdHW		ηwh% / COPdHW	99 / 2,48	99 / 2,48	99 / 2,47	99 / 2,47
Outdoor unit			**WH-UD03JE5**	**WH-UD05JE5**	**WH-UD07JE5**	**WH-UD09JE5-1**
Sound power [3]	Heat	dB(A)	55	55	59	59
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298 / 37	622 x 824 x 298 / 37	795 x 875 x 320 / 61	795 x 875 x 320 / 61
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9 / 0,608	0,9 / 0,608	1,27 / 0,857	1,27 / 0,857
Piping 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
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
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

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

-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.

GOOD DESIGN AWARD 2017

011-1W0515

A++ ErP 55 °C Scale from A+++ to D

A+++ ErP 35 °C Scale from A+++ to D

A+ DHW Scale from A+ to F

Aquarea High Performance All in One H Generation Single phase / Three phase. Heating and Cooling · R410A

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

Flexibility: Optional magnet for the water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)		Three phase (Power to indoor)		
Kit			**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	12,00/2,93	14,50/2,72	9,00/2,94	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	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,10/2,23	9,80/2,21	8,80/2,23	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	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,20/1,95	9,00/1,85	7,90/2,05	8,20/1,95	9,00/1,85
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	7,00/4,67	10,00/4,26	12,20/4,12
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	190/134	190/130	190/133	190/134	190/130
		SCOP	4,82/3,42	4,82/3,33	4,81/3,41	4,82/3,42	4,82/3,33
	Energy class [1]	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	168/121	168/121	168/121	168/121	168/121
		SCOP	4,29/3,10	4,28/3,10	4,28/3,10	4,29/3,10	4,28/3,10
	Energy class [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	33/33
Dimension	H x W x D	mm	1800x598x717	1800x598x717	1800x598x717	1800x598x717	1800x598x717
Net weight		kg	124	124	126	126	126
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	36/152	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	45,9
Capacity of integrated electric heater		kW	6,00	6,00	9,00	9,00	9,00
Power supply 1 = Compressor		A	24,0	26,0	8,8	8,8	9,9
Power supply 2 = Backup heater		A	26,0	26,0	13,0	13,0	13,0
Recommended fuse		A	30/30	30/30	16/16	16/16	16/16
Recommended cable size, supply 1 / 2		mm²	3x4,0/3x4,0	3x4,0/3x4,0	5x1,5/5x1,5	5x1,5/5x1,5	5x1,5/5x1,5
Water volume		L	185	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L	L
DHW tank ERP efficiency average /cold [2]		A+ to F	A/A	A/B	A/A	A/A	A/B
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	95/2,37	91/2,28	95/2,37	95/2,37	91/2,27
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	75/1,87	72/1,80	75/1,87	75/1,87	72/1,80
Outdoor unit			**WH-UD12HE5**	**WH-UD16HE5**	**WH-UD09HE8**	**WH-UD12HE8**	**WH-UD16HE8**
Sound power [3]	Heat	dB(A)	65	65	65	65	65
Dimension / Net weight	H x W x D	mm / kg	1340x900x320/101	1340x900x320/101	1340x900x320/107	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	2,55/5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	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	3~30/20
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50	10/50	10/50	10/50
Operating range - outdoor ambient	Heat	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
	Cool	°C	+16~+43	+16~+43	+16~+43	+16~+43	+16~+43
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

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
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

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

ErP 55°C · ErP 35°C · DHW · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · 4,84 COP HIGH PERFORMANCE · DHW · -23 °C OUTDOOR TEMPERATURE · WATER FILTER · FLOW SENSOR · BOILER CONNECTION · ADVANCED CONTROL · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

-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.

GOOD DESIGN AWARD 2017

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

3, 5 and 7 kW models.

ErP 55 °C Scale from A+++ to D

ErP 35 °C Scale from A+++ to D

DHW Scale from A+ to F

Aquarea High Performance All in One Compact J Generation Single phase. Heating and Cooling · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C and A+ in DHW / "A" water pump with variable speed / Stainless steel DHW tank with U-Vacua™ insulation panel / Built-in flow meter.

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

Comfort: Heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)			
Kit			**KIT-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 / 4,71	4,80 / 4,29	6,70 / 4,72	9,00 / 4,18
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	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 [1]	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	157 / 110	157 / 110	164 / 116	164 / 116
		SCOP	4,00 / 2,83	4,00 / 2,83	4,18 / 2,98	4,18 / 2,98
	Energy class [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	H x W x D	mm	1640 x 598 x 600	1640 x 598 x 600	1640 x 598 x 600	1640 x 598 x 600
Net weight		kg	101	101	101	101
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	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 = Compressor		A	12,0	12,0	15,9	15,9
Power supply 2 = Backup heater		A	13,0	13,0	13,0	13,0
Recommended fuse		A	16 / 16	16 / 16	25 / 16	25 / 16
Recommended cable size, supply 1 / 2		mm²	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5
Water volume		L	185	185	185	185
Maximum DHW 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 efficiency average /cold [2]		A+ to F	A+ / A	A+ / A	A+ / A	A+ / A
DHW tank ERP average climate η / COPdHW		ηwh % / COPdHW	128 / 3,20	128 / 3,20	116 / 2,90	116 / 2,90
DHW tank ERP cold climate η / COPdHW		ηwh % / COPdHW	99 / 2,48	99 / 2,48	98 / 2,45	98 / 2,45
Outdoor unit			**WH-UD03JE5**	**WH-UD05JE5**	**WH-UD07JE5**	**WH-UD09JE5-1**
Sound power [3]	Heat	dB(A)	55	55	59	59
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298 / 37	622 x 824 x 298 / 37	795 x 875 x 320 / 61	795 x 875 x 320 / 61
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9 / 0,608	0,9 / 0,608	1,27 / 0,857	1,27 / 0,857
Piping 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
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
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

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 | A++ ErP 55°C | A+++ ErP 35°C | A+ DHW | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,33 COP HIGH PERFORMANCE | DHW | -23 °C OUTDOOR TEMPERATURE | WATER FILTER WITH MAGNET | 60°C OUTPUT WATER FLOW TEMPERATURE | FLOW SENSOR | BOILER CONNECTION | ADVANCED CONTROL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

-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.

GOOD DESIGN AWARD 2017

011-1W0515

ErP 55 °C Scale from A+++ to D

ErP 35 °C Scale from A+++ to D

DHW Scale from A+ to F

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

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

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

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)	
Kit			**KIT-ADC12HE5C**	**KIT-ADC16HE5C**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	12,00 / 4,74	16,00 / 4,28
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	— / —	— / —
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	— / —	— / —
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	— / —	— / —
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	— / —	— / —
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	— / —	— / —
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	190 / 134	190 / 130
		SCOP	4,82 / 3,42	4,82 / 3,33
	Energy class [1]	A+++ to D	A+++ / A++	A+++ / A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	168 / 121	168 / 121
		SCOP	4,29 / 3,10	4,28 / 3,10
	Energy class [1]	A+++ to D	A++ / A+	A++ / A+
Indoor unit			**WH-ADC1216H6E5C**	**WH-ADC1216H6E5C**
Sound pressure	Heat / Cool	dB(A)	33 / 33	33 / 33
Dimension	H x W x D	mm	1640 x 598 x 600	1640 x 598 x 600
Net weight		kg	101	101
Water pipe connector		Inch	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed
	Input power (Min / Max)	W	— / —	— / —
Heating water flow (ΔT=5 K. 35 °C)		L/min	34,40	45,90
Capacity of integrated electric heater		kW	6,00	6,00
Power supply 1 = Compressor		A	24	24
Power supply 2 = Backup heater		A	26	26
Recommended fuse		A	— / —	— / —
Recommended cable size, supply 1 / 2		mm²	— / —	— / —
Water volume		L	185	185
Maximum DHW temperature		°C	65	65
Material inside tank			Stainless steel	Stainless steel
Tapping profile according EN16147			—	—
DHW tank ERP efficiency average /cold [2]		A+ to F	— / —	— / —
DHW tank ERP average climate η / COPdHW		ηwh % / COPdHW	92 / 2,30	88 / 2,20
DHW tank ERP cold climate η / COPdHW		ηwh % / COPdHW	72 / 1,81	70 / 1,74
Outdoor unit			**WH-UD12HE5**	**WH-UD16HE5**
Sound power [3]	Heat	dB(A)	65	65
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 101	1340 x 900 x 320 / 101
Refrigerant (R410A) / CO_2 Eq.		kg / T	2,55 / 5,324	2,55 / 5,324
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 50 / 30	3 ~ 50 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 50	10 / 50
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
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

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

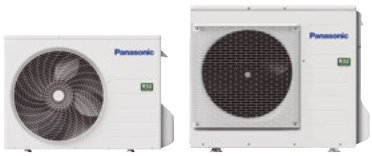
ErP 55°C · ErP 35°C · DHW · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · 4,74 COP HIGH PERFORMANCE · DHW · -23 °C OUTDOOR TEMPERATURE · WATER FILTER WITH MAGNET · FLOW SENSOR · BOILER CONNECTION · ADVANCED CONTROL · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

-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.

GOOD DESIGN AWARD 2017

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

3, 5 and 7 kW models.



Aquarea High Performance Bi-bloc J Generation Single phase. Heating and Cooling - SDC · R32

Energy efficiency: COP up to 5,33 / A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Long piping lengths / Built-in magnetic water filter.

Comfort: Operating range and heating curve down to -20 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)			
Kit			**KIT-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 / 4,71	4,80 / 4,29	6,70 / 4,72	9,00 / 4,18
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	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	A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	157 / 110	157 / 110	164 / 116	164 / 116
		SCOP	4,00 / 2,83	4,00 / 2,83	4,18 / 2,98	4,18 / 2,98
	Energy class	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 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	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	3,00	3,00	3,00	3,00
Power supply 1 = Compressor		A	12,0	12,0	15,9	15,9
Power supply 2 = Backup heater		A	13,0	13,0	13,0	13,0
Recommended fuse		A	15 / 30	15 / 30	15 / 30	15 / 30
Recommended cable size, supply 1 / 2		mm²	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5	3 x 2,5 / 3 x 1,5
Outdoor unit			**WH-UD03JE5**	**WH-UD05JE5**	**WH-UD07JE5**	**WH-UD09JE5-1**
Sound power [1]	Heat	dB(A)	55	55	59	59
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
Piping 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
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+10 ~ +43	+10 ~ +43	+10 ~ +43	+10 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

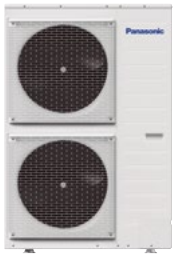
Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 | ErP 55°C | ErP 35°C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -23 °C OUTDOOR TEMPERATURE | WATER FILTER WITH MAGNET | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

-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.

GOOD DESIGN AWARD 2017

011-1W0515



ErP 55 °C Scale from A+++ to D

ErP 35 °C Scale from A+++ to D

Aquarea High Performance Bi-bloc H Generation Single phase / Three phase. Heating and Cooling - SDC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Operating range down to -20 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase		Three phase (Power to indoor)		
Kit			**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	12,00/2,93	14,50/2,72	9,00/2,94	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	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,10/2,23	9,80/2,21	8,80/2,23	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	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	8,20/1,95	9,00/1,85	7,90/2,05	8,20/1,95	9,00/1,85
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	7,00/4,67	10,00/4,26	12,20/4,12
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	190/134	190/130	190/133	190/134	190/130
		SCOP	4,82/3,42	4,82/3,33	4,81/3,41	4,82/3,42	4,82/3,33
	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	168/121	168/121	168/121	168/121	168/121
		SCOP	4,29/3,10	4,28/3,10	4,28/3,10	4,29/3,10	4,28/3,10
	Energy class	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	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	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	44	43	44	45
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	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	6,00	6,00	3,00	9,00	9,00
Power supply 1 = Compressor		A	24,0	26,0	13,1	8,8	9,9
Power supply 2 = Backup heater		A	26,0	26,0	13,0	13,0	13,0
Recommended fuse		A	30/30	30/30	15/30	15/30	15/30
Recommended cable size, supply 1 / 2		mm²	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	5 x 1,5 / 5 x 1,5	5 x 1,5 / 5 x 1,5	5 x 1,5 / 5 x 1,5
Outdoor unit			**WH-UD12HE5**	**WH-UD16HE5**	**WH-UD09HE8**	**WH-UD12HE8**	**WH-UD16HE8**
Sound power [1]	Heat	dB(A)	65	65	65	65	65
Dimension	H x W x D	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
Piping 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
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43
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

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

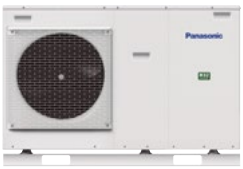
Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
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
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

ErP 55°C · ErP 35°C · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · 4,84 COP HIGH PERFORMANCE · DHW · -23 °C OUTDOOR TEMPERATURE · WATER FILTER · FLOW SENSOR · BOILER CONNECTION · SOLAR KIT · ADVANCED CONTROL · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

-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.

011-1W0398
011-1W0399
011-1W0400



A++ ErP 55 °C Scale from A+++ to D

A+++ ErP 35 °C Scale from A+++ to D

Aquarea High Performance Mono-bloc J Generation Single phase. Heating and Cooling - MDC · R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Built-in magnetic water filter / Built-in 6L expansion vessel.

Comfort: Operating range and heating curve down to -20 °C / 60 °C water outlet temperature / Cooling mode down to +10 °C.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase		
Outdoor unit			**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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	202/142	193/130	193/130
		SCOP	5,12/3,63	4,90/3,32	4,90/3,32
	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/115	164/116	164/116
		SCOP	4,08/2,95	4,18/2,98	4,18/2,98
	Energy class	A+++ to D	A++/A+	A++/A+	A++/A+
Sound power [1]	Heat	dB(A)	59	59	59
Dimension	H x W x D	mm	865 x 1283 x 320	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 1¼	R 1¼	R 1¼
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	3,00	3,00	3,00
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 = Compressor		A	12	17	17
Power supply 2 = Backup heater		A	13	13	13
Recommended fuse		A	30/15	30/15	30/16
Recommended cable size, supply 1 / 2		mm²	3 x 1,5/3 x 1,5	3 x 2,5/3 x 1,5	3 x 2,5/3 x 1,5
Operating range - outdoor ambient	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

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MDC models are hermetically sealed. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless Steel
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L

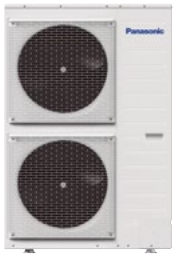
Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
CZ-TAW1-CBL	10 m extension cable for CZ-TAW1
PAW-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 | A++ ErP 55°C | A+++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,08 COP HIGH PERFORMANCE | DHW | -23 °C OUTDOOR TEMPERATURE | WATER FILTER WITH MAGNET | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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

GOOD DESIGN AWARD 2017

011-1W0510
011-1W0511



A++ ErP 55 °C Scale from A+++ to D

A+++ ErP 35 °C Scale from A+++ to D

A DHW Scale from A+ to F

Aquarea T-CAP All in One H Generation Single phase / Three phase. Heating and Cooling · R410A

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

Flexibility: Optional magnet for the water filter.

Comfort: Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

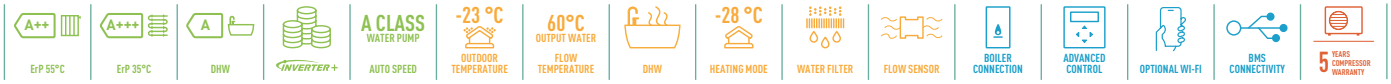
Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)		Three phase (Power to indoor)		
Kit			**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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181/130	170/130	181/130	170/130	160/125
		SCOP	4,59/3,32	4,32/3,32	4,59/3,32	4,32/3,32	4,08/3,20
	Energy class [1]	A+++ to D	A+++/A++	A++/A++	A+++/A++	A++/A++	A++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/125	160/125	160/125	160/125	150/125
		SCOP	4,08/3,20	4,08/3,20	4,08/3,20	4,08/3,20	3,83/3,20
	Energy class [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	33/33
Dimension	H x W x D	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight		kg	124	124	126	126	126
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	36/152	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	45,9
Capacity of integrated electric heater		kW	6,00	6,00	9,00	9,00	9,00
Power supply 1 = Compressor		A	29,0	29,0	10,4	11,9	15,5
Power supply 2 = Backup heater		A	26,0	26,0	13,0	13,0	13,0
Recommended fuse		A	30/30	30/30	16/16	16/16	16/16
Recommended cable size, supply 1 / 2		mm²	3 x 4,0/3 x 4,0	3 x 4,0/3 x 4,0	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5
Water volume		L	185	185	185	185	185
Maximum DHW temperature		°C	65	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L	L
DHW tank ERP efficiency average /cold [2]		A+ to F	A/A	A/A	A/A	A/A	A/B
DHW tank ERP average climate η / COPdHW		ηwh %/COPdHW	95/2,37	95/2,37	95/2,37	95/2,37	91/2,27
DHW tank ERP cold climate η / COPdHW		ηwh %/COPdHW	75/1,87	75/1,87	75/1,87	75/1,87	72/1,80
Outdoor unit			**WH-UX09HE5**	**WH-UX12HE5**	**WH-UX09HE8**	**WH-UX12HE8**	**WH-UX16HE8**
Sound power [3]	Heat	dB(A)	66	66	65	65	67
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320/101	1340 x 900 x 320/101	1340 x 900 x 320/108	1340 x 900 x 320/108	1340 x 900 x 320/118
Refrigerant (R410A) / CO_2 Eq.		kg / T	2,85/5,951	2,85/5,951	2,85/5,951	2,85/5,951	2,90/6,055
Piping 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 / Elevation difference (in / out)		m / m	3 ~ 30/20	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	10/50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
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

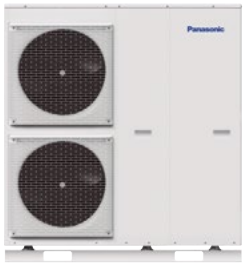
Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



-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.

GOOD DESIGN AWARD 2017

011-1W0510
011-1W0511



ErP 55 °C Scale from A+++ to D

ErP 35 °C Scale from A+++ to D

DHW Scale from A+ to F

Aquarea T-CAP All in One H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling · R410A

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

Flexibility: Optional magnet for the water filter.

Comfort: Low noise level / Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

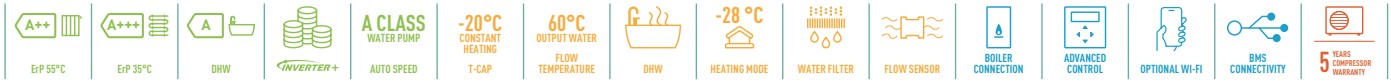
Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181/130	170/130	160/125
		SCOP	4,59/3,32	4,32/3,32	4,08/3,20
	Energy class [1]	A+++ to D	A+++/A++	A++/A++	A++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/125	160/125	150/125
		SCOP	4,08/3,20	4,08/3,20	3,83/3,20
	Energy class [1]	A+++ to D	A++/A++	A++/A++	A++/A++
Indoor unit			**WH-ADC0916H9E8**	**WH-ADC0916H9E8**	**WH-ADC0916H9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	H x W x D	mm	1800 x 598 x 717	1800 x 598 x 717	1800 x 598 x 717
Net weight		kg	126	126	126
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	36/152	36/152	36/152
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,8	34,4	45,9
Capacity of integrated electric heater		kW	9,00	9,00	9,00
Power supply 1 = Compressor		A	14,7	11,9	15,5
Power supply 2 = Backup heater		A	13,0	13,0	13,0
Recommended fuse		A	16/16	16/16	16/16
Recommended cable size, supply 1 / 2		mm²	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5
Water volume		L	185	185	185
Maximum DHW temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW tank ERP efficiency average /cold [2]		A+ to F	A/A	A/A	A/B
DHW tank ERP average climate η / COPdHW		ηwh%/COPdHW	95/2,37	95/2,37	91/2,27
DHW tank ERP cold climate η / COPdHW		ηwh%/COPdHW	75/1,87	75/1,87	72/1,80
Outdoor unit			**WH-UQ09HE8**	**WH-UQ12HE8**	**WH-UQ16HE8**
Sound power [3]	Heat	dB(A)	58	58	62
Dimension / Net weight	H x W x D	mm / kg	1410 x 1283 x 320/151	1410 x 1283 x 320/151	1410 x 1283 x 320/161
Refrigerant (R410A) / CO_2 Eq.		kg / T	2,85/5,951	2,85/5,951	2,99/6,243
Piping 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 / Elevation difference (in / out)		m / m	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
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
PAW-ADC-PREKIT-1	Piping pre installation kit for J Generation
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

Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat



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.

GOOD DESIGN AWARD 2017

011-1W0511

A++ ErP 55 °C Scale from A+++ to D

A+++ ErP 35 °C Scale from A+++ to D

A DHW Scale from A+ to F

Aquarea T-CAP All in One Compact H Generation Single phase. Heating and Cooling · R410A

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

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

Comfort: Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)	
Kit			**KIT-AXC09HE5C**	**KIT-AXC12HE5C**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00 / 4,84	12,00 / 4,74
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	— / —	— / —
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00 / 3,59	12,00 / 3,44
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	— / —	— / —
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	— / —	— / —
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	— / —	— / —
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	7,00 / 3,17	10,00 / 2,81
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	— / —	— / —
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181 / 130	170 / 130
		SCOP	4,59 / 3,32	4,32 / 3,32
	Energy class [1]	A+++ to D	A+++ / A++	A++ / A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160 / 125	160 / 125
		SCOP	4,08 / 3,20	4,08 / 3,20
	Energy class [1]	A+++ to D	A++ / A++	A++ / A++
Indoor unit			**WH-ADC1216H6E5C**	**WH-ADC1216H6E5C**
Sound pressure	Heat / Cool	dB(A)	33 / 33	33 / 33
Dimension	H x W x D	mm	1640 x 598 x 600	1640 x 598 x 600
Net weight		kg	101	101
Water pipe connector		Inch	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed
	Input power (Min / Max)	W	— / —	— / —
Heating water flow (ΔT=5 K. 35 °C)		L/min	25,80	34,40
Capacity of integrated electric heater		kW	6,00	6,00
Power supply 1 = Compressor		A	—	—
Power supply 2 = Backup heater		A	—	—
Recommended fuse		A	— / —	— / —
Recommended cable size, supply 1 / 2		mm²	— / —	— / —
Water volume		L	185	185
Maximum DHW temperature		°C	65	65
Material inside tank			Stainless steel	Stainless steel
Tapping profile according EN16147			—	—
DHW tank ERP efficiency average /cold [2]		A+ to F	— / —	— / —
DHW tank ERP average climate η / COPdHW		ηwh % / COPdHW	92 / 2,30	92 / 2,30
DHW tank ERP cold climate η / COPdHW		ηwh % / COPdHW	72 / 1,81	72 / 1,81
Outdoor unit			**WH-UX09HE5**	**WH-UX12HE5**
Sound power [3]	Heat	dB(A)	66	66
Dimension / Net weight	H x W x D	mm / kg	1340 x 900 x 320 / 101	1340 x 900 x 320 / 101
Refrigerant (R410A) / CO_2 Eq.		kg / T	2,85 / 5,951	2,85 / 5,951
Piping diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / Elevation difference (in / out)		m / m	3 ~ 30 / 20	3 ~ 30 / 20
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 50	10 / 50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

1) Scale from A+++ to D. 2) Scale from A+ to F. 3) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511. ** This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

Accessories	
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

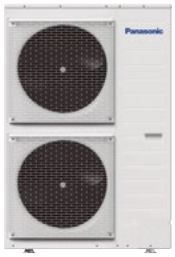
Accessories	
CZ-NS4P	Additional functions PCB
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

A++ ErP 55°C · A+++ ErP 35°C · A DHW · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · 4,84 COP HIGH PERFORMANCE · DHW · -28 °C HEATING MODE · WATER FILTER WITH MAGNET · 60°C OUTPUT WATER FLOW TEMPERATURE · FLOW SENSOR · BOILER CONNECTION · ADVANCED CONTROL · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

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.

GOOD DESIGN AWARD 2017

011-1W0510
011-1W0511



A++ ErP 55 °C Scale from A+++ to D

A+++ ErP 35 °C Scale from A+++ to D

Aquarea T-CAP Bi-bloc H Generation Single phase / Three phase. Heating and Cooling - SXC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase (Power to indoor)		Three phase (Power to indoor)		
Kit			**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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181/130	170/130	181/130	170/130	160/125
		SCOP	4,59/3,32	4,32/3,32	4,59/3,32	4,32/3,32	4,08/3,20
	Energy class	A+++ to D	A+++/A++	A++/A++	A+++/A++	A++/A++	A++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/125	160/125	160/125	160/125	150/125
		SCOP	4,08/3,20	4,08/3,20	4,08/3,20	4,08/3,20	3,83/3,20
	Energy class	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	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	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	43	43	44	45
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	32/102	34/110	32/102	34/110	30/105
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	3,00	6,00	3,00	9,00	9,00
Power supply 1 = Compressor		A	29,0	29,0	14,7	11,9	15,5
Power supply 2 = Backup heater		A	13,0	26,0	13,0	13,0	13,0
Recommended fuse		A	30/30	30/30	16/16	16/16	16/16
Recommended cable size, supply 1 / 2		mm²	3 x 4,0 or 6,0/3 x 4,0	3 x 4,0 or 6,0/3 x 4,0	5 x 1,5/3 x 1,5	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5
Outdoor unit			**WH-UX09HE5**	**WH-UX12HE5**	**WH-UX09HE8**	**WH-UX12HE8**	**WH-UX16HE8**
Sound power [1]	Heat	dB(A)	66	66	65	65	67
Dimension	H x W x D	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	108	108	118
Refrigerant (R410A) / CO_2 Eq.		kg / T	2,85/5,951	2,85/5,951	2,85/5,951	2,85/5,951	2,90/6,055
Piping 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 ~ 30	3 ~ 30	3 ~ 30	3 ~ 30	3 ~ 30
Elevation difference (in / out)		m	20	20	20	20	20
Pipe length for additional gas		m	10	10	10	10	10
Additional gas amount		g/m	50	50	50	50	50
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20	20 ~ 60/5 ~ 20

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

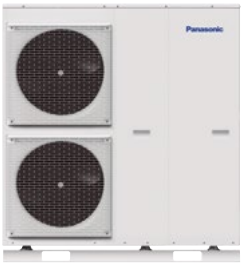
Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
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
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

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.

GOOD DESIGN AWARD 2017

011-1W0510
011-1W0511



ErP 55 °C Scale from A+++ to D

ErP 35 °C Scale from A+++ to D

Aquarea T-CAP Bi-bloc H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling - SQC · R410A

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Optional magnet for the water filter.

Comfort: Low noise level / Constant capacity down to -20 °C / Operating range down to -28 °C / 60 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	181/130	170/130	160/125
		SCOP	4,59/3,32	4,32/3,32	4,08/3,20
	Energy class	A+++ to D	A+++/A++	A++/A++	A++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	160/125	160/125	150/125
		SCOP	4,08/3,20	4,08/3,20	3,83/3,20
	Energy class	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	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 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	3,00	9,00	9,00
Power supply 1 = Compressor		A	14,7	11,9	15,5
Power supply 2 = Backup heater		A	13,0	13,0	13,0
Recommended fuse		A	15/30	15/30	15/30
Recommended cable size, supply 1 / 2		mm²	5 x 1,5/3 x 1,5	5 x 1,5/5 x 1,5	5 x 1,5/5 x 1,5
Outdoor unit			**WH-UQ09HE8**	**WH-UQ12HE8**	**WH-UQ16HE8**
Sound power [1]	Heat	dB(A)	58	58	62
Dimension	H x W x D	mm	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
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
Piping 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
Operating range - outdoor ambient	Heat	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
	Cool	°C	+16 ~ +43	+16 ~ +43	+16 ~ +43
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

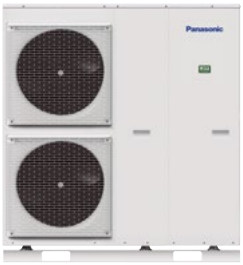
1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-3WYVLV-HW	3 way valve for DHW Tanks
CZ-NV1	3 way valve kit for inside of hydrokit
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
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
CZ-NS4P	Additional functions PCB
PAW-A2W-MGTFILTER	Magnet for the water filter
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

ErP 55°C · ErP 35°C · INVERTER+ · A CLASS WATER PUMP AUTO SPEED · -20°C CONSTANT HEATING T-CAP · 60°C OUTPUT WATER FLOW TEMPERATURE · DHW · -28 °C HEATING MODE · WATER FILTER · FLOW SENSOR · BOILER CONNECTION · SOLAR KIT · ADVANCED CONTROL · OPTIONAL WI-FI · BMS CONNECTIVITY · 5 YEARS COMPRESSOR WARRANTY

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.



011-1W0463
011-1W0464
For 9 and 12 kW single and three phase.

ErP 55 °C Scale from A+++ to D

ErP 35 °C Scale from A+++ to D

Aquarea T-CAP Mono-bloc J Generation Single phase / Three phase. Heating and Cooling - MXC · R32

Energy efficiency: A+++ in heating at 35 °C / "A" water pump with variable speed / Built-in flow meter.

Flexibility: Built-in magnetic water filter.

Comfort: Constant capacity and operating range down to -20 °C / 65 °C water outlet temperature.

Control: Additional functions with optional PCB (2 zone control, bivalent control, Smart Grid contact and more).

Connectivity: Optional Aquarea Smart and Service Cloud and integration into BMS projects.

			Single phase		Three phase		
Outdoor unit			**WH-MXC09J3E5**	**WH-MXC12J6E5**	**WH-MXC09J3E8**	**WH-MXC12J9E8**	**WH-MXC16J9E8**
Heating capacity / COP (A +7 °C, W 35 °C)		kW / COP	9,00/5,08	12,00/4,80	9,00/5,08	12,00/4,80	16,00/4,52
Heating capacity / COP (A +7 °C, W 55 °C)		kW / COP	9,00/3,08	12,00/3,05	9,00/3,08	12,00/3,05	16,00/2,86
Heating capacity / COP (A +2 °C, W 35 °C)		kW / COP	9,00/3,81	12,00/3,53	9,00/3,81	12,00/3,53	16,00/3,10
Heating capacity / COP (A +2 °C, W 55 °C)		kW / COP	9,00/2,54	12,00/2,42	9,00/2,54	12,00/2,42	16,00/2,07
Heating capacity / COP (A -7 °C, W 35 °C)		kW / COP	9,00/3,08	12,00/2,82	9,00/3,08	12,00/2,82	16,00/2,39
Heating capacity / COP (A -7 °C, W 55 °C)		kW / COP	9,00/2,12	12,00/2,00	9,00/2,12	12,00/2,00	16,00/1,71
Cooling capacity / EER (A 35 °C, W 7 °C)		kW / EER	9,00/3,18	12,00/2,90	9,00/3,09	12,00/2,84	14,50/2,84
Cooling capacity / EER (A 35 °C, W 18 °C)		kW / EER	9,00/4,62	12,00/3,95	9,00/4,46	12,00/3,79	16,00/3,75
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	195/140	195/140	195/140	195/140	176/129
		SCOP	4,96/3,57	4,96/3,57	4,96/3,57	4,96/3,57	4,46/3,31
	Energy class	A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	169/127	169/127	169/127	169/127	150/125
		SCOP	4,31/3,26	4,31/3,26	4,31/3,26	4,31/3,26	3,83/3,20
	Energy class	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Sound power [1]	Heat	dB(A)	65	65	65	65	66
Dimension	H x W x D	mm	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	140	140	140	140	150
Refrigerant (R32) / CO_2 Eq. [2]		kg / T	1,60/1,080	1,60/1,080	1,60/1,080	1,60/1,080	1,80/1,215
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼	R 1¼
Pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min/Max)	W	32/173	34/173	32/173	34/173	38/173
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	3,00	6,00	3,00	9,00	9,00
Input power	Heat	kW	1,77	2,50	1,77	2,50	3,54
	Cool	kW	2,83	4,14	2,91	4,23	5,11
Running and starting current	Heat	A	8,3	11,6	2,6	3,7	5,3
	Cool	A	13,1	19,1	4,3	6,3	7,6
Power supply 1 = Compressor		A	29,0	29,0	14,7	11,8	16,4
Power supply 2 = Backup heater		A	13,0	26,0	13,0	13,0	13,0
Recommended fuse, supply 1 / 2		A	30/30	30/30	20/16	20/20	20/20
Recommended cable size, supply 1 / 2		mm²	3 x 4,0 or 6,0/3 x 4,0	3 x 4,0 or 6,0/3 x 4,0	5 x 1,5/3 x 1,5	5 x 1,5/5 x 1,5	5 x 2,5/5 x 1,5
Operating range - outdoor ambient	Heat	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
	Cool	°C	10 ~ +43	10 ~ +43	10 ~ +43	10 ~ +43	10 ~ +43
Water outlet [3]	Heat	°C	20 ~ 65	20 ~ 65	20 ~ 65	20 ~ 65	20 ~ 65
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20

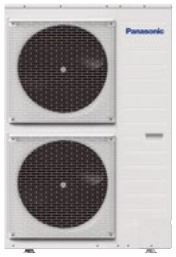
1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MXC models are hermetically sealed. 3) It is possible to set temperature by 65 °C on remote controller. Normally, outlet water temperature is 60 °C or lower. In case of ΔT setting with remote controller is 15 °C and the outdoor ambient temperature is 5 to 20 °C, outlet water temperature 65 °C is possible. * EER and COP calculation is based in accordance to EN14511.

Accessories	
PAW-TD20C1E5	Tank 200 L - Stainless steel
PAW-TD30C1E5	Tank 300 L - Stainless steel
PAW-TA20C1E5STD	Tank 200 L - Enamelled
PAW-TA30C1E5STD	Tank 300 L - Enamelled
PAW-TD20B8E3-2	Combo Tank 185 L + 80 L – Enamelled
PAW-TD23B6E5	Combo Tank 230 L + 60 L – Stainless Steel
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L

Accessories	
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-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

R32 | A++ ErP 55°C | A+++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 5,08 COP HIGH PERFORMANCE | 65°C OUTPUT WATER FLOW TEMPERATURE | DHW | -20 °C HEATING MODE | WATER FILTER WITH MAGNET | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WI-FI | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional.



A++ ErP 55 °C Scale from A+++ to D

A++ ErP 35 °C Scale from A+++ to D

Aquarea HT Bi-bloc F Generation Single phase / Three phase. Heating Only - SHF · R407C

Energy efficiency: "A" water pump with variable speed.

Comfort: Operating range down to -20 °C outdoor temperature / 65 °C water outlet temperature

			Single phase (Power to indoor)		Three phase (Power to indoor)	
Kit			**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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	153/125	150/125	153/125	150/125
		SCOP	3,90/3,20	3,82/3,21	3,90/3,20	3,82/3,21
	Energy class	A+++ to D	A++/A++	A++/A++	A++/A++	A++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	137/116	134/113	137/116	134/113
		SCOP	3,50/2,97	3,42/2,90	3,50/2,97	3,42/2,90
	Energy class	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	H x W x D	mm	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353	892 x 502 x 353
Net weight		kg	46	47	47	48
Water pipe connector		Inch	R 1¼	R 1¼	R 1¼	R 1¼
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	3,00	6,00	3,00	9,00
Power supply 1 = Compressor		A	28,5	29,0	14,5	10,8
Power supply 2 = Backup heater		A	13,0	26,0	13,0	13,0
Recommended fuse		A	30/30	30/30	30/16	30/16
Recommended cable size, supply 1 / 2		mm²	3 x 4,0 or 6,0/3 x 4,0	3 x 4,0 or 6,0/3 x 4,0	5 x 1,5/3 x 1,5	5 x 1,5/5 x 1,5
Outdoor unit			**WH-UH09FE5**	**WH-UH12FE5**	**WH-UH09FE8**	**WH-UH12FE8**
Sound power [1]		dB(A)	—	—	—	—
Dimension	H x W x D	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320
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
Piping 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		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
Operating range	Outdoor ambient (Heat)	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	25 ~ 65	25 ~ 65	25 ~ 65	25 ~ 65

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. * EER and COP calculation is based in accordance to EN14511.

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

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

A++ ErP 55°C | A++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP 7 SPEEDS | 65°C OUTPUT WATER HIGH TEMPERATURE | DHW | -20 °C HEATING MODE | SOLAR KIT | 5 YEARS COMPRESSOR WARRANTY

A++ ErP 55 °C Scale from A+++ to D

A++ ErP 35 °C Scale from A+++ to D

Aquarea HT Mono-bloc G Generation Single phase. Heating Only - MHF · R407C

Energy efficiency: "A" water pump with variable speed.

Comfort: Operating range down to -20 °C outdoor temperature / 65 °C water outlet temperature

			Single phase	
Outdoor unit			**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
Heating average climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	153/125	150/125
		SCOP	3,90/3,20	3,82/3,21
	Energy class	A+++ to D	A++/A++	A++/A++
Heating cold climate (W 35 °C / W 55 °C)	Seasonal energy efficiency	ηs %	137/116	134/113
		SCOP	3,50/2,97	3,42/2,90
	Energy class	A+++ to D	A+/A+	A+/A+
Sound power [1]		dB(A)	—	—
Dimension	H x W x D	mm	1410 x 1283 x 320	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 1¼	R 1¼
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	3,00	6,00
Input power		kW	1,94	2,69
Running and starting current		A	9,3	12,8
Power supply 1 = Compressor		A	28,5	29,0
Power supply 2 = Backup heater		A	13,0	26,0
Recommended fuse		A	30/30	30/30
Recommended cable size, supply 1 / 2		mm²	3 x 4,0 or 6,0/3 x 4,0	3 x 4,0 or 6,0/3 x 4,0
Operating range	Outdoor ambient (Heat)	°C	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	25 ~ 65	25 ~ 65

1) Sound power in accordance to 811/2013, 813/2013 and EN12102-1:2017 at +7 °C. 2) WH-MHF models are hermetically sealed. * EER and COP calculation is based in accordance to EN14511.

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

Accessories	
PAW-3WYVLV-HW	3 way valve for DHW Tanks
PAW-BTANK50L-2	Buffer tank 50 L
PAW-A2W-AFVLV	1 anti-freeze valve. It is required to order 2 valves per system
PAW-A2W-RTWIRED	Room thermostat
PAW-A2W-RTWIRELESS	Wireless LCD room thermostat

A++ ErP 55°C | A++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP 7 SPEEDS | 65°C OUTPUT WATER HIGH TEMPERATURE | DHW | -20 °C HEATING MODE | SOLAR KIT | 5 YEARS COMPRESSOR WARRANTY

Fan coils highlighted features

MORE FAN COIL OPTIONS IN CHILLERS SECTION

Available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location.

1 Innovation for optimum comfort

Range of fan coil for heating and cooling with capacities from 0,2 to 9,6 kW in cooling and from 0,2 to 13,6 kW in heating. Bring full year comfort with water based systems.

2 Energy efficient and low noise fan

Dynamically balanced and specially designed fans, reinforced acoustic insulation and optimised fan speed staging for lower noise levels.
Improved efficiency with optional EC fan motor.

3 Quality and efficient coil

Constructed from staggered copper tubes, mechanically expanded into aluminium fins, providing maximum heat transfer efficiency, durability and hygiene.

4 Flexible installation

Various types of unit to fit your needs with flexible installation options. A choice of service side for hydraulic connections, piping configuration and horizontal or vertical installation for ducted units.

Offering a great range of capacities and performance, available in a wide range of designs, the fan coils are perfectly adapted to fit within almost any location. Whether the requirements are for cooling only, or for both heating and cooling, there is a fan coil to suit. With a variety of piping and fan configuration, the range is capable of meeting the most stringent of requirements. Line up available in AC and EC fans, it is possible to achieve both powerful performance, but with sustainability in mind.

Controllers with sophisticated designs, provide a user friendly interface while enabling an easy and low cost integration to building management systems.

Optional wired remote controller for AC fan, 2-pipe and 4-pipe application.

PAW-FC-RC1

Optional wired remote controller for AC fan 2-pipe application.

PAW-FC-903AC

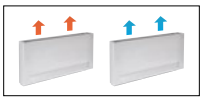
PAW-FC-907AC

Optional wired remote controller for EC fan, 2-pipe and 4-pipe application.

PAW-FC-903EC

PAW-FC-907EC

Smart fan coils



Built-in advanced thermostat.

			PAW-AAIR-200-2	PAW-AAIR-700-2	PAW-AAIR-900-2
Total cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,6	0,8/1,0/1,2	1,2/1,5/1,7
Sensible cooling capacity	Lo/Med/Hi	kW	0,2/0,3/0,5	0,6/0,9/1,1	1,1/1,4/1,6
Water flow	Lo/Med/Hi	kg/h	40,0/59,0/95,0	129,0/178,0/207,0	198,0/261,0/300,0
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	1,0/2,0/2,0	6,0/9,0/12,0
Inlet water temperature		°C	10	10	10
Outlet water temperature		°C	15	15	15
Inlet air temperature		°C	27,0	27,0	27,0
Outlet air temperature	Lo/Med/Hi	°C	15,0/17,0/18,0	14,0/16,0/17,0	16,0/17,0/18,0
Relative humidity of inlet air		%	47	47	47
Total heating capacity	Lo/Med/Hi	kW	0,2/0,5/0,6	0,7/1,0/1,2	0,9/1,4/1,7
Water flow	Lo/Med/Hi	kg/h	37,3/80,8/98,0	121,8/177,5/204,3	152,4/244,2/292,9
Water pressure drop	Lo/Med/Hi	kPa	0,4/2,0/2,9	0,3/0,8/1,0	0,5/1,6/2,2
Inlet water temperature		°C	35	35	35
Outlet water temperature		°C	30	30	30
Inlet air temperature		°C	19,0	19,0	19,0
Outlet air temperature	Lo/Med/Hi	°C	38,9/32,0/30,0	33,3/31,8/30,6	30,2/31,1/30,6
Air flow	Lo/Med/Hi	m³/min	0,9/1,9/2,7	2,6/4,2/5,3	4,1/6,1/7,7
Maximum input power	Lo/Med/Hi	W	7,0/9,0/13,0	14,0/18,0/22,0	16,0/20,0/24,0
Sound pressure	Lo/Med/Hi	dB(A)	23/33/40	24/36/42	25/36/44
Dimension (H x W x D)		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

*** Smart fan coils is produced by Innova.**

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

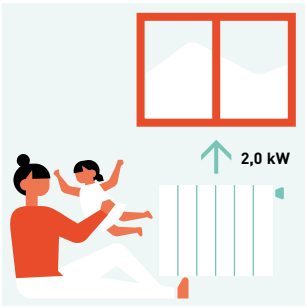
Stylish floor-standing fan coils with advanced controller

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

With a depth of just under 130 mm 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.

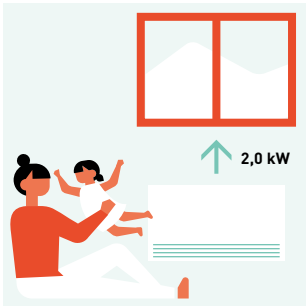
Exceptional ventilation efficiency means the motor uses considerably less energy (low wattage). The fan speed is continuously modulated by the temperature controller with proportional integral logic, with undoubted advantages for regulating the temperature and humidity in summer mode.

With standard cast radiators.



Water at 65 °C needed.

With Smart fan coil.



Water at 35 °C needed.

Technical focus

- 4 operation modes (auto, silent, night-time and maximum ventilation speed)
- Exclusive design
- Extremely compact (only 129 mm 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

PRO Club

Fan coils - ducted (AC)

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

Optional controller. Wired remote controller with touch control.
PAW-FC-907AC

Optional controller. Wired remote controller.
PAW-FC-903AC

Left connection (PAW-)			**FC2A-D010L**	**FC2A-D020L**	**FC2A-D030L**	**FC2A-D040L**	**FC2A-D050L**	**FC2A-D060L**	**FC2A-D070L**	**FC2A-D080L**
Right connection (PAW-)			**FC2A-D010R**	**FC2A-D020R**	**FC2A-D030R**	**FC2A-D040R**	**FC2A-D050R**	**FC2A-D060R**	**FC2A-D070R**	**FC2A-D080R**
Total cooling capacity [1]	Lo/Med/Hi	kW	0,7/1,0/1,5	0,7/1,2/1,7	1,0/2,0/2,5	1,2/2,4/3,2	1,7/3,2/4,6	2,7/4,6/5,8	3,4/6,1/7,3	4,6/6,1/8,1
Sensible cooling capacity [1]	Lo/Med/Hi	kW	0,5/0,8/1,1	0,6/0,9/1,3	0,8/1,5/1,9	0,9/1,8/2,3	1,2/2,2/3,3	1,9/3,3/4,5	2,4/4,3/5,1	3,4/4,6/6,3
Water flow	Lo/Med/Hi	l/h	124/172/250	127/213/289	172/341/430	206/413/547	296/544/798	466/784/1003	587/1058/1252	798/1048/1400
Water pressure drop	Lo/Med/Hi	kPa	10,7/19,5/39,2	1,9/3,9/6,3	6,3/19,3/28,8	5,4/17,1/28,0	7,5/22,8/46,9	13,9/37,4/60,2	4,8/15,4/21,5	11,9/19,3/32,5
Heating capacity [2]	Lo/Med/Hi	kW	0,9/1,4/2,0	0,9/1,5/2,2	1,3/2,4/3,1	1,4/2,9/4,0	2,1/4,1/5,7	3,1/5,3/7,1	4,3/7,9/9,3	5,9/8,1/11,6
Sound levels										
Global sound power	Lo/Med/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
Global sound pressure [3]	Lo/Med/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
Fan										
Number			1	1	1	2	2	2	2	3
Air flow	Lo/Med/Hi	m³/h	111/190/283	105/179/265	138/274/390	173/357/499	253/486/716	350/640/933	480/893/1064	660/936/1397
Maximum external pressure		Pa	55	55	65	85	85	115	125	70
Filter			G2	G2	G2	G2	G2	G2	G2	G2
Electrical data										
Power supply	Voltage	V	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/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
Water connections										
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4
Dimension and weight										
Dimension	H x W x D	mm	220 x 570 x 430	220 x 570 x 430	220 x 730 x 430	220 x 938 x 430	220 x 1122 x 430	220 x 1307 x 430	220 x 1121 x 530	220 x 1316 x 530
Weight		kg	13	13	15	20	22	26	27	38

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.
Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software. * Fan coil units are produced by Systemair.

Accessories	
PAW-FC-RC1	Advanced wired remote controller
PAW-FC-907AC	Wired remote controller with touch control
PAW-FC-903AC	Wired remote controller
PAW-FC-2WY-11/55-1	2 way valve + drain pan for models 010-060

Accessories	
PAW-FC-2WY-65/90-1	2 way valve + drain pan for models 070-080
PAW-FC-3WY-11/55-1	3 way valve + drain pan for models 010-060
PAW-FC-3WY-65/90-1	3 way valve + drain pan for models 070-080

Technical focus

· Cooling capacity from 0,7 to 8,1 kW
· Heating capacity from 0,7 to 10,3 kW
· 5-speed AC fan motor(s)

Main features and accessories

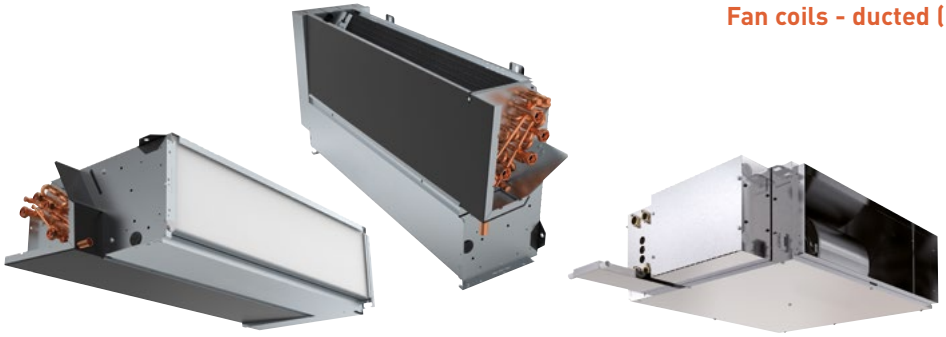
· Left or right hand arrangements
· Ease of installation
· Very low acoustic levels
· 2 way or 3 way ON / OFF valves
· Auxiliary drain pan
· Air intake with removable grid
· G2 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

ErP

ERP 2018: compliant following COMMISSION REGULATION (EU) No2016/2281.

Fan coils - ducted (EC)



Optional controller. Wired remote controller with touch control.
PAW-FC-907EC

Optional controller. Wired remote controller.
PAW-FC-903EC

Left connection (PAW-)			**FC2E-D010L**	**FC2E-D020L**	**FC2E-D030L**	**FC2E-D040L**	**FC2E-D050L**	**FC2E-D060L**	**FC2E-D070L**	**FC2E-D080L**	**FC2E-F040L**
Right connection (PAW-)			**FC2E-D010R**	**FC2E-D020R**	**FC2E-D030R**	**FC2E-D040R**	**FC2E-D050R**	**FC2E-D060R**	**FC2E-D070R**	**FC2E-D080R**	**FC2E-F040R**
Total cooling capacity [1]	Lo/Med/Hi	kW	0,6/1,2/2,1	0,6/1,4/2,4	0,9/2,1/3,1	1,3/2,9/4,2	1,3/4,0/5,0	2,0/4,5/5,2	2,7/5,9/6,9	5,1/6,5/8,8	3,6/6,6/9,2
Sensible cooling capacity [1]	Lo/Med/Hi	kW	0,5/1,1/1,9	0,5/1,1/1,9	0,6/1,6/2,4	1,0/2,1/3,0	1,1/3,0/3,7	1,4/3,5/4,0	2,0/4,3/5,2	3,7/4,8/6,6	2,9/6,1/9,1
Water flow	Lo/Med/Hi	l/h	107/210/356	110/237/406	148/354/532	230/506/722	231/685/743	341/767/800	463/1008/1098	879/1111/1254	627/1142/1575
Water pressure drop	Lo/Med/Hi	kPa	8,2/28,2/76,9	1,5/4,6/11,0	5,0/20,5/42,1	6,4/24,4/46,3	4,9/35,1/41,0	7,8/35,8/38,8	3,0/14,0/16,6	14,1/21,4/26,6	10,6/51,2/93,8
Heating capacity [2]	Lo/Med/Hi	kW	0,8/1,6/2,9	0,9/1,9/3,3	1,0/2,2/3,4	1,4/3,0/5,3	1,7/5,2/5,5	2,3/5,9/6,1	3,8/7,3/8,2	6,2/8,0/9,3	4,4/8,3/11,8
Sound levels											
Global sound power	Lo/Med/Hi	dB(A)	34/47/60	34/47/60	31/50/59	29/44/52	30/51/57	32/54/58	40/54/59	51/56/64	42/58/68 [3]
Global sound pressure [4]	Lo/Med/Hi	dB(A)	25/38/51	25/38/51	22/41/50	20/35/43	21/42/48	23/45/49	31/45/50	42/47/55	23/39/52
Fan											
Number			1	1	1	2	2	2	2	3	1
Air flow	Lo/Med/Hi	m³/h	108/228/417	98/234/413	145/380/585	170/412/678	203/645/816	245/737/912	350/850/1050	685/927/1398	592/1284/1935
Maximum external pressure		Pa	75	75	75	105	70	105	115	70	190
Filter			G2	G2	G2	G2	G2	G2	G2	G2	G2
Electrical data											
Power supply	Voltage	V	230	230	230	230	230	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Power consumption	Lo/Med/Hi	W	5/11/41	5/13/41	4/16/42	2/13/43	4/24/46	2/30/54	11/44/77	23/42/108	11/62/197
Water connections											
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	3/4
Dimension and weight											
Dimension	H x W x D	mm	220 x 570 x 430	220 x 570 x 430	220 x 730 x 430	220 x 938 x 430	220 x 1122 x 430	220 x 1307 x 430	220 x 1121 x 530	220 x 1316 x 530	223 x 1233 x 653
Weight		kg	13	13	15	20	22	26	27	38	19

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) Air: 20 °C. Water in / out: 50 °C / 45 °C. 3) The sound power levels indicated are from return and radiated measurements. 4) The sound pressure levels are based on (NR) characteristics of a room having volume of 100 m³ with reverberation of 0,5 seconds.
Values indicated are for 0 Pa external static pressure, for additional pressure characteristics, please refer the selection software. * Fan coil units are produced by Systemair.

Accessories	
PAW-FC-907EC	Wired remote controller with touch control
PAW-FC-903EC	Wired remote controller
PAW-FC-2WY-11/55-1	2 way valve + drain pan for models 010-060
PAW-FC-2WY-65/90-1	2 way valve + drain pan for models 070-080

Accessories	
PAW-FC-2WY-F040	2 way valve + drain pan for model F040
PAW-FC-3WY-11/55-1	3 way valve + drain pan for models 010-060
PAW-FC-3WY-65/90-1	3 way valve + drain pan for models 070-080
PAW-FC-3WY-F040	3 way valve + drain pan for model F040

Technical focus

- Cooling capacity from 0,5 to 9,6 kW
- Heating capacity from 0,6 to 13,6 kW
- Low energy consumption EC fan(s)

Main features and accessories

- Left or right hand arrangements
- Can be installed both horizontally and vertically*
- Ease of installation
- Very low acoustic levels
- 2 way or 3 way ON / OFF valves
- Auxiliary drain pan
- Air intake with removable grid
- G2 filter

Operating limits	
Entering water temperature	From 5 to 90 °C
Indoor air temperature	From 5 to 32 °C

* PAW-FC2E-F040 may only be installed horizontally.

ErP
EC MOTOR GREEN VENTILATION

ERP 2018: compliant following COMMISSION REGULATION (EU) No2016/2281.

Fan coils - wall-mounted (AC)

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

Optional controller. Wired remote controller with touch control.
PAW-FC-907AC

Optional controller. Wired remote controller.
PAW-FC-903AC

Infrared remote supplied with IR versions.
IR Controller

2-pipe			PAW-FC2A-K007 PAW-FC2A-K007IR	PAW-FC2A-K009 PAW-FC2A-K009IR	PAW-FC2A-K018 PAW-FC2A-K018IR	PAW-FC2A-K022 PAW-FC2A-K022IR
Total cooling capacity [1]	Lo/Med/Hi	kW	1,0/1,3/1,7	1,6/1,7/2,4	2,8/3,0/3,5	2,9/3,1/3,9
Sensible cooling capacity [1]	Lo/Med/Hi	kW	0,7/1,0/1,2	1,2/1,3/1,9	2,1/2,3/2,7	2,3/2,5/3,1
Water flow	Lo/Med/Hi	l/h	172/231/287	270/291/418	483/508/609	502/535/669
Water pressure drop	Lo/Med/Hi	kPa	18,6/24,9/30,9	18,5/27,0/40,0	34,6/41,3/55,6	37,2/33,7/45,2
Heating capacity [2]	Lo/Med/Hi	kW	1,4/1,7/2,0	1,7/2,0/2,7	2,9/3,2/4,0	3,1/3,7/4,4
Sound levels						
Sound power	Lo/Med/Hi	dB(A)	45/49/51	47/52/57	49/53/59	56/59/63
Sound pressure [3]	Lo/Med/Hi	dB(A)	32/36/38	34/39/44	40/43/46	43/46/50
Fan						
Number			1	1	1	1
Air flow	Lo/Med/Hi	m³/h	282/321/360	367/413/551	532/592/680	617/709/850
Filter			G1	G1	G1	G1
Electrical data						
Power supply	Voltage	V	230	230	230	230
	Phase		Single phase	Single phase	Single phase	Single phase
	Frequency	Hz	50	50	50	50
Fuse rating		A	3	3	3	3
Power consumption	Lo/Med/Hi	W	39/42/62	30/47/59	44/50/55	50/55/70
Water connections						
Type			Female gas threaded	Female gas threaded	Female gas threaded	Female gas threaded
Water connections		Inch	1/2	1/2	1/2	1/2
Dimension and weight						
Dimension	H x W x D	mm	275 x 180 x 845	275 x 180 x 845	298 x 200 x 940	298 x 200 x 940
Weight		kg	11	11	13	13

1) According to Eurovent standard. Air: 27 °C DB / 19 °C WB. Water in / out: 7 °C / 12 °C. 2) According to Eurovent standard. Air: 20 °C. Water in / out: 45 °C / 40 °C. 3) Sound pressure considering a local of 100 m³ a reverberation time of 0,5 seconds and a distance of 1 m.

Accessories	
PAW-FC-RC1	Advanced wired remote controller
PAW-FC-907AC	Wired remote controller with touch control
PAW-FC-903AC	Wired remote controller

Accessories	
PAW-FC2-2WY-K007	2 way valve
PAW-FC2-3WY-K007	3 way valve

Technical focus

· 4 sizes
· Cooling capacity from 1,0 to 3,9 kW
· Heating capacity from 1,4 to 4,1 kW
· Version: 2-pipes, AC fan

Main features and accessories

· 2 way or 3 way valve ON / OFF
· 3-speed AC fan motor
· Silent unit for optimum customer comfort
· Aesthetic design suitable for residential and hotel applications
· Compatible with IR controller (supplied with IR versions)
· Coil with hydrophilic fins to improve the condensate flow

Operating limits	
Entering water temperature	From 5 to 60 °C
Indoor air temperature	From 6 to 40 °C

ErP

ERP 2018: compliant following COMMISSION REGULATION (EU) No2016/2281.

Wired controllers for AC and EC fan coils

Advanced wired remote controller (AC)

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.

Features:
· For 2-pipe and 4-pipe, AC fan
· Change Over function (cold draft prevention)
· Room thermostat
· 3 outputs, 230 V relays for fan control
· 2 outputs, 230 V relays for heating / cooling control
· Connection to BMS - Modbus RTU slave
· 1 DI for presence detection (key card switch)
· 1 AI for sensor

Wired remote controller (AC/EC)

Stylish and sophisticated design with backlit LCD display, is suitable for installation within a wide variety of locations such as office, hotel and residential applications. By connecting the controller to the range of AC/EC fan coils, the user can take advantage of the improved performance, higher levels of efficiency and thus improved energy savings.

PAW-FC-907AC

Features:
· For 2-pipe, AC fan
· Back lit LCD screen with touch control
· 3 speed control relay, for fan
· Economizer

PAW-FC-907EC

Features:
· For 2-pipe and 4-pipe, EC fan
· Back lit LCD screen with touch control
· Adjustable range EC fan control
· Economizer
· Connection to BMS via Modbus
· 1 DI for presence detection (key card switch)

Wired remote controller (AC/EC)

Feature rich and perfectly adapted to control AC/EC fan coils, the PAW-FC-903AC/EC is the addition for any fan coil. With intuitive user interface provided by the push button control and large LCD display, it will fit seamlessly with almost any location.

PAW-FC-903AC

Features:
· For 2-pipe, AC fan
· Back lit LCD screen
· 3 speed control relay, for fan
· Economizer

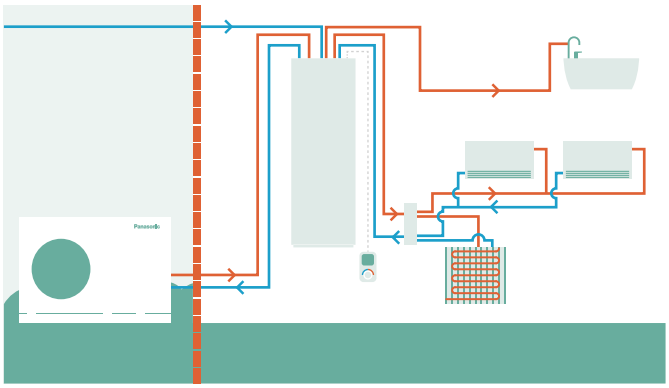
PAW-FC-903EC

Features:
· For 2-pipe and 4-pipe, EC fan
· Back lit LCD screen
· Adjustable range EC fan control
· Economizer
· Connection to BMS via Modbus
· 1 DI for presence detection (key card switch)

Sanitary Tanks

Combo tanks.

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. Easy to install, nice looking, high efficiency for DHW production and for heating.



Type		**Enamelled**		**Stainless steel**	
Reference		**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	**Buffer tank**	**Hot water tank**	**Buffer 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	mm	Ø22	Ø22	Ø22	Ø22, copper
Material		S 275 JR vitrified	S235 JR	EN 14521	EN 14521
Insulation	Material, t=mm	PUR, 50	PUR 40	PUR, 50	PUR, 50
Heating coil surface	m²	2,1	—	1,8	—
Electrical heater	W	3000	—	2800	—
Energy loss at 65 °C [1]	kWh/24h	1,3	—	1,25	—
Energy efficiency class (from A+ to F) [2]		**B**	**B**	**B**	**A**
Standing loss	W	53	46	52	29

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

Buffer tanks.

Reference		**PAW-BTANK50L-2**	**PAW-BTANK100L**	**PAW-BTANK200L**	**PAW-BTANK300L**
Capacity	L	48	100	199	289
Energy losses	W	35	55	50	66
Energy Efficiency Class (from A+ to F)		**B**	**C**	**B**	**B**
Material		Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Dimension (Hight / Diameter)	mm	636 / 430	1175 / 430	1275 / 595	1755 / 595
Net weight	kg	17	28	47	57

* Automatic air vent and drain cock are included. Built-in pocket sensor (sensor not included). ** Buffer Tank are produced by OSO.

Enamelled tanks.

Type		Enamelled Tank				Enamelled 2 coils Tank (for bivalent Solar + HP)	Square Tank
Reference		**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
Dimension (Hight / Diameter)	mm	1210/520	1340/610	1800/610	1835/670	1835/670	1550 x 600 x 600
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	m²	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 of the inner vessel		5 Years	5 Years	5 Years	5 Years	5 Years	5 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 tanks.

Reference		**PAW-TD20C1E5**	**PAW-TD30C1E5**	**PAW-TD30C1E5-HI**
Water volume	L	192	284	280
Maximum water temperature	°C	75	75	75
Dimension (Hight / Diameter)	mm	1270/595	1750/595	1750 / 595
Weight / filled with water	kg	50/—	61/—	65 / -
Electric heater	kW	1,5	1,5	1,5
Power supply	V	230	230	230
Material inside tank		Stainless steel	Stainless steel	Stainless steel
Exchange surface	m²	1,8	1,8	2,35
Energy loss at 65 °C [1]	kWh/24h	1,01	1,18	1,18
3 way valve accessory PAW-3WYVLV-HW or CZ-NV1		Optional	Optional	Optional
20 m temperature sensor cable included		Yes	Yes	Yes
Energy losses	W	42	49	49
Energy Efficiency Class (from A+ to F)		**A**	**A**	**A**
Warranty		2 Years	2 Years	2 Years
Maintenance required		No	No	No

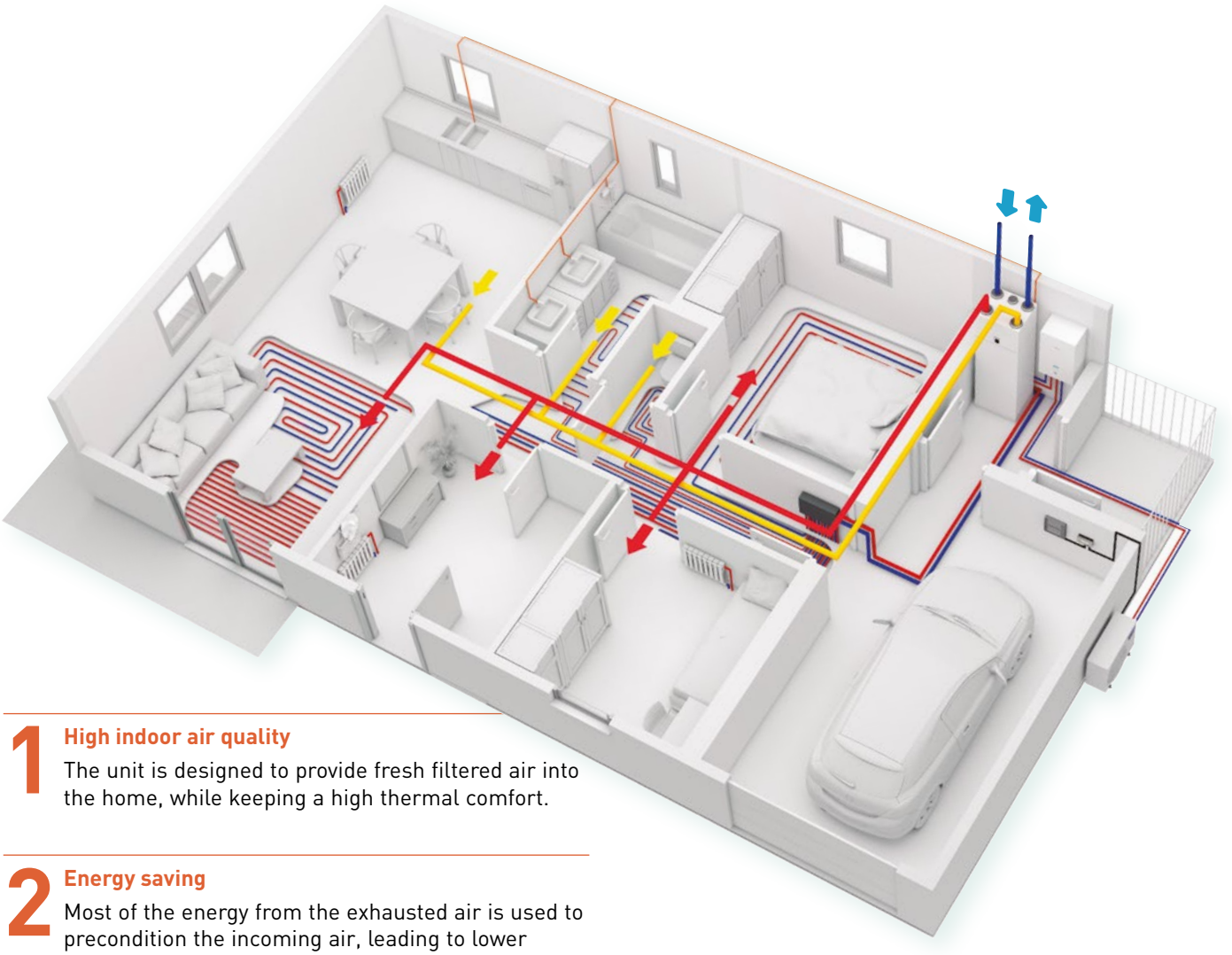
1) Insulated tested under EN12897. * Stainless Steel Tanks are produced by OSO.

Accessories for sanitary tanks	
PAW-3WYVLV-HW	3 way valve for DHW Tanks

Accessories for sanitary tanks	
CZ-NV1	3 way valve kit for inside of hydrokit

Heat recovery ventilation unit

The heat recovery ventilation unit is design not only to provide a good indoor air quality, but it is also designed to recover heat that would otherwise be lost throughout ventilation. These heat recovery ventilation systems are used to assist in the retention of heat.



1 **High indoor air quality**

The unit is designed to provide fresh filtered air into the home, while keeping a high thermal comfort.

2 **Energy saving**

Most of the energy from the exhausted air is used to precondition the incoming air, leading to lower heating requirements in the building.

3 **Space saving**

The compact ventilation unit can be installed over the DHW square tank or the Aquarea All in One Compact indoor unit for an space-saving solution.

4 **Better user interface**

The Residential ventilation unit and the Aquarea Heat Pump can be controlled with one single user-friendly controller.

How Panasonic contributes to Nearly Zero Energy Buildings (nZEB)

Panasonic is committed to develop products with greater energy efficiency.

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

Highly efficient Panasonic solutions can help to significantly reduce the energy consumption of the house, at the same time a high level of comfort and good indoor air quality are kept.

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

PAW-A2W-VENTA-R

PAW-A2W-VENTA-L

cool, temperate climate
CERTIFIED COMPONENT
Passive House Institute

Heat recovery Ventilation unit		PAW-A2W-VENTA-R	PAW-A2W-VENTA-L
Nominal air flow rate	m³/h	204 @ 50 Pa	
Maximum air flow rate	m³/h	292 @ 100 Pa	
SPF		1,24 @ 204 m³/h	
Heat exchanger rotor drive type		Variable speed	
Exchanger type		Rotating	
Heat recovery efficiency		84 %	
Power supply	V / Hz	230 / 50 / 1 phase	
Power consumption	W	176	
Energy Class, basic unit		**A**	
Energy Class, unit with local control on demand		**A**	
Noise level	dB(A)	40	
Dimension (W x H x D)	mm	598 x 450 x 500	
Weight	kg	46	
Mounting position		Vertical	
Supply side		Right	Left
Duct connections	mm	DN125	
Filter class, supply air		F7/ePM1 60 %	
Filter class, extract air		M5/ePM10 50 %	
Minimum outdoor temperature	°C	-20	

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

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-C02RH-W	CO_2 RH wall-mounted sensor
PAW-VEN-S-C02-W	CO_2 wall-mounted sensor
PAW-VEN-S-C02-D	CO_2 duct sensor
PAW-VEN-WBRK	Wall bracket kit for stand-alone installation on the wall
PAW-VEN-HTR06	Electrical duct heater 0,6 kW (includes relay)
PAW-VEN-HTR12	Electrical duct heater 1,2 kW (includes relay)

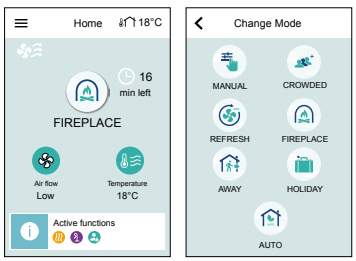
Main features of the residential ventilation unit

- Designed for areas up to approximately 140 m²
- High energy-efficiency rotary heat exchanger with EC - technology fans
- Moisture transfer function to minimize condensation in supply air during wintertime
- The built in humidity sensor in extract air can be used for demand control
- Control via touch display and Startup Wizard for easy commissioning
- Modbus communication via RS-485
- Option to control an Aquarea H or J Generation heat pump from PAW-A2W-VENTA control panel (PAW-AW-MBS-H and PAW-VEN-ACCPCB required)

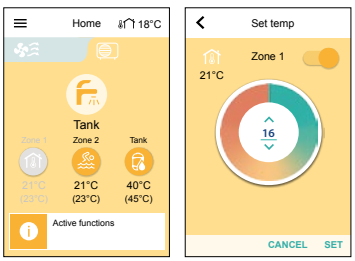
Control user-friendly interface

All settings and features accessible via a control panel, integrated into the front cover. The option for connecting one or more external control panels is available.

- Color touch screen with a user-friendly interface
- MANUAL and AUTO mode or choose preferred settings from the pre-configured user modes



- If Aquarea J and H Generations heat pumps are connected with PAW-A2W-VENTA, the heat pump control options appear on the home screen in a separate tab



DHW Stand Alone

The wide range of DHW Stand Alone heat pump is a great solution to adapt to any type of family house.

DHW Stand Alone: highly efficient heat pump water heater.

The wall type is available in 100 and 150 L capacities, and the floor-standing in 200 and 270 L. For reaching even more efficient use the 270 L 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 up to 72 % 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

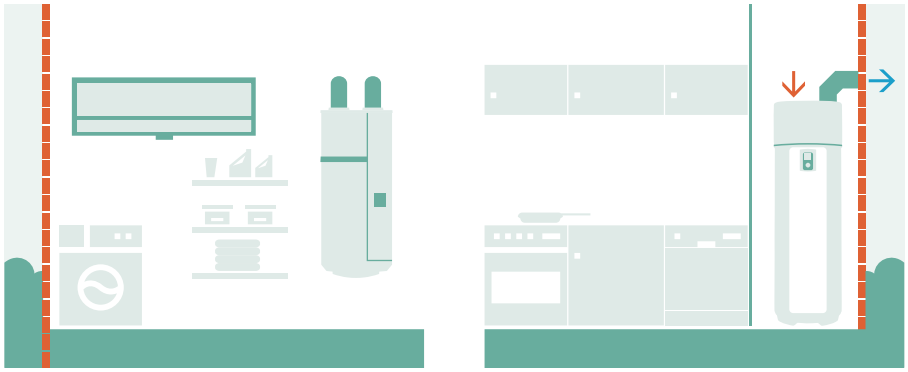
Type		Wall-mounted			Floor-standing	
Reference		**PAW-DHW100W-1**	**PAW-DHW150W-1**	**PAW-DHW200F**	**PAW-DHW270F**	**PAW-DHW270C1F**
Nominal capacity	L	100	150	200	270	263
Dimension (H x W x D)	mm	1209 x 522 x 538	1527 x 522 x 538	1617 x 620 x 665	1957 x 620 x 665	1957 x 620 x 665
Empty weight	kg	57	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 [1]	dB(A)	45	45	53	53	53
Refrigerant R134a (wall-mounted) / R513A (floor-standing)	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	m²	—	—	—	—	1,2
Warranty of the inner vessel		5 Years	5 Years	5 Years	5 Years	5 Years
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.

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

Ideal for small surfaces

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



Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea High Performance Bi-bloc J Generation Single phase. Heating and Cooling · R32

WH-UD03JE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	2,50	1,11	2,25	2,52	1,31	1,92	2,24	1,59	1,41	2,12	1,80	1,18	—	—	—
-15	3,00	1,14	2,63	3,20	1,37	2,34	3,00	1,62	1,85	2,75	1,92	1,43	—	—	—
-7	2,99	0,91	3,29	3,30	1,18	2,80	3,25	1,47	2,21	3,20	1,79	1,79	3,00	1,88	1,60
2	2,92	0,69	4,23	3,20	0,88	3,64	3,20	1,13	2,83	3,20	1,46	2,19	3,15	1,67	1,89
7	3,09	0,49	6,31	3,20	0,60	5,33	3,20	0,84	3,81	3,20	1,14	2,81	2,95	1,22	2,42
25	3,27	0,23	14,22	3,27	0,38	8,61	3,61	0,63	5,73	4,06	1,11	3,66	4,03	1,14	3,54
WH-UD05JE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	3,60	1,57	2,29	3,51	1,81	1,94	3,16	1,99	1,59	2,46	2,11	1,17	—	—	—
-15	4,46	1,72	2,59	4,20	1,93	2,18	3,75	2,18	1,72	3,00	2,12	1,42	—	—	—
-7	4,18	1,33	3,14	4,20	1,62	2,59	3,80	1,82	2,09	3,55	2,08	1,71	3,25	2,15	1,51
2	4,07	1,01	4,03	4,20	1,32	3,18	4,20	1,64	2,56	4,10	2,06	1,99	4,10	2,21	1,86
7	5,20	0,83	6,27	5,00	1,00	5,00	5,00	1,41	3,55	5,00	1,84	2,72	4,25	2,10	2,02
25	5,00	0,52	9,62	5,00	0,72	6,94	5,30	0,98	5,41	5,60	1,27	4,41	4,80	1,27	3,78
WH-UD07JE5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	4,33	1,64	2,64	3,98	1,88	2,12	3,83	2,26	1,69	3,30	2,77	1,19	—	—	—
-15	5,16	1,69	3,05	4,75	2,00	2,38	4,65	2,40	1,94	4,50	2,96	1,52	—	—	—
-7	5,64	1,56	3,62	5,60	1,95	2,87	5,50	2,30	2,39	5,25	2,70	1,94	4,98	2,90	1,72
2	6,80	1,57	4,33	6,85	2,01	3,41	6,75	2,40	2,81	6,20	2,80	2,21	6,18	2,91	2,12
7	7,55	1,15	6,57	7,00	1,47	4,76	7,00	1,96	3,57	7,00	2,48	2,82	6,86	2,75	2,49
25	7,00	0,62	11,29	6,88	0,90	7,64	7,00	1,33	5,26	6,92	1,75	3,95	6,83	1,90	3,59
WH-UD09JE5-1															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	4,95	1,93	2,56	6,20	3,00	2,07	5,28	3,09	1,71	4,23	3,33	1,27	—	—	—
-15	7,58	2,70	2,81	7,40	3,20	2,31	6,29	3,26	1,93	5,20	3,42	1,52	—	—	—
-7	6,39	1,81	3,53	6,12	2,20	2,78	5,88	2,61	2,25	5,90	3,06	1,93	5,65	3,24	1,74
2	6,96	1,61	4,32	7,00	2,06	3,40	6,85	2,50	2,74	6,30	2,92	2,16	7,26	3,33	2,18
7	9,44	1,55	6,09	9,00	2,01	4,48	9,00	2,61	3,45	8,95	3,22	2,78	8,62	3,47	2,48
25	8,27	0,95	8,71	8,12	1,29	6,29	8,71	1,80	4,84	7,83	1,97	3,97	6,08	1,72	3,53

Aquarea High Performance Bi-bloc J Generation Single phase. Heating and Cooling · R32

Outdoor	WH-UD03JE5									WH-UD05JE5								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	3,56	0,57	6,25	4,32	0,55	7,85	3,47	0,41	8,46	3,59	0,56	6,41	4,23	0,54	7,83	4,79	0,52	9,21
25	3,29	0,73	4,51	4,06	0,72	5,64	3,27	0,52	6,29	4,61	1,18	3,91	5,54	1,21	4,58	5,23	0,90	5,81
35	3,20	0,91	3,52	3,56	0,93	3,83	3,20	0,68	4,71	4,50	1,50	3,00	5,08	1,51	3,36	4,80	1,12	4,29
43	2,68	1,06	2,53	3,34	1,09	3,06	2,79	0,82	3,40	3,77	1,71	2,20	4,94	1,80	2,74	4,30	1,35	3,19
Outdoor	**WH-UD07JE5**									**WH-UD09JE5-1**								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	5,20	0,81	6,42	6,62	0,73	9,07	7,04	0,72	9,78	6,85	1,18	5,81	8,80	1,15	7,65	9,11	1,15	7,92
25	7,40	1,73	4,28	9,30	1,78	5,22	7,65	1,10	6,95	9,00	2,35	3,83	10,40	2,48	4,19	9,10	1,58	5,76
35	6,70	2,21	3,03	8,10	2,23	3,63	6,70	1,42	4,72	8,20	3,02	2,72	9,90	3,02	3,28	9,00	2,15	4,19
43	4,50	1,99	2,26	5,44	2,00	2,72	5,10	1,71	2,98	3,80	1,99	1,91	4,70	1,97	2,39	5,35	1,99	2,69

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea High Performance Bi-bloc H Generation Single phase. Heating and Cooling · R410A

WH-UD12HE5																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	9,30	3,46	2,69	8,90	3,62	2,46	8,50	3,79	2,24	8,10	3,95	2,05	7,50	4,05	1,85	7,00	4,16	1,68
-7	10,40	3,37	3,09	10,00	3,66	2,73	9,60	3,95	2,43	9,20	4,24	2,17	8,70	4,26	2,04	8,20	4,27	1,92
2	11,80	3,10	3,81	11,40	3,31	3,44	11,00	3,53	3,12	10,60	3,74	2,83	9,80	3,94	2,49	9,10	4,14	2,20
7	12,00	2,10	5,71	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	12,00	1,38	8,70	12,00	1,66	7,23	11,80	1,94	6,08	11,70	2,23	5,25	11,50	2,49	4,62	11,40	2,74	4,16
WH-UD16HE5																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	10,60	4,09	2,59	10,30	4,38	2,35	10,00	4,67	2,14	9,70	4,96	1,96	8,80	4,94	1,78	7,90	4,91	1,61
-7	11,90	4,03	2,95	11,40	4,43	2,57	10,80	4,83	2,24	10,30	5,22	1,97	9,60	5,09	1,89	9,00	4,95	1,82
2	13,50	3,74	3,61	13,00	3,96	3,28	12,40	4,18	2,97	11,90	4,40	2,70	10,80	4,46	2,42	9,80	4,51	2,17
7	16,00	3,21	4,98	16,00	3,74	4,28	16,00	4,27	3,75	16,00	4,80	3,33	15,20	5,11	2,97	14,50	5,41	2,68
25	16,00	2,31	6,93	16,00	2,69	5,95	16,00	3,07	5,21	16,00	3,45	4,64	16,00	3,67	4,36	15,90	3,89	4,09

Aquarea High Performance Bi-bloc H Generation Single phase. Heating and Cooling · R410A

WH-UD12HE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	7,86	1,18	6,66	13,15	1,40	9,39	10,00	1,73	5,78
25	12,08	2,90	4,17	15,70	2,05	7,66	10,00	1,97	5,08
35	10,00	2,56	3,91	12,00	2,67	4,49	10,00	2,40	4,17
43	7,80	3,80	2,05	11,10	3,19	3,48	8,00	2,85	2,81
WH-UD16HE5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,20	1,62	5,68	16,40	2,58	6,36	12,20	2,45	4,98
25	14,40	3,92	3,67	19,20	3,83	5,01	12,20	2,79	4,37
35	12,20	4,76	2,56	15,00	4,98	3,01	12,20	2,96	4,12
43	7,75	3,40	2,28	13,80	5,95	2,32	9,70	4,00	2,43

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea High Performance Bi-bloc H Generation Three phase. Heating and Cooling · R410A

WH-UD09HE8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	8,65	3,06	2,83	8,30	3,21	2,59	7,95	3,41	2,33	7,60	3,61	2,11	7,15	3,71	1,93	6,70	3,81	1,76
-7	9,35	2,91	3,21	9,00	3,16	2,85	8,85	3,54	2,50	8,70	3,92	2,22	8,30	3,89	2,13	7,90	3,86	2,05
2	9,31	2,35	3,96	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	8,90	3,49	2,55	8,80	3,94	2,23
7	9,00	1,54	5,84	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	9,00	1,05	8,57	9,00	1,24	7,26	8,73	1,44	6,06	8,46	1,64	5,16	8,28	1,82	4,55	8,10	2,00	4,05
WH-UD12HE8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	9,30	3,46	2,69	8,90	3,62	2,46	8,50	3,79	2,24	8,10	3,95	2,05	7,50	4,05	1,85	7,00	4,16	1,68
-7	10,40	3,37	3,09	10,00	3,66	2,73	9,60	3,95	2,43	9,20	4,24	2,17	8,70	4,26	2,04	8,20	4,27	1,92
2	11,80	3,10	3,81	11,40	3,31	3,44	11,00	3,53	3,12	10,60	3,74	2,83	9,80	3,94	2,49	9,10	4,14	2,20
7	12,00	2,10	5,71	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	12,00	1,38	8,70	12,00	1,66	7,23	11,80	1,94	6,08	11,70	2,23	5,25	11,50	2,49	4,62	11,40	2,74	4,16
WH-UD16HE8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	10,60	4,09	2,59	10,30	4,38	2,35	10,00	4,67	2,14	9,70	4,96	1,96	8,80	4,94	1,78	7,90	4,91	1,61
-7	11,90	4,03	2,95	11,40	4,43	2,57	10,80	4,83	2,24	10,30	5,22	1,97	9,60	5,09	1,89	9,00	4,95	1,82
2	13,50	3,74	3,61	13,00	3,96	3,28	12,40	4,18	2,97	11,90	4,40	2,70	10,80	4,46	2,42	9,80	4,51	2,17
7	16,00	3,21	4,98	16,00	3,74	4,28	16,00	4,27	3,75	16,00	4,80	3,33	15,20	5,11	2,97	14,50	5,41	2,68
25	16,00	2,31	6,93	16,00	2,69	5,95	16,00	3,07	5,21	16,00	3,45	4,64	16,00	3,67	4,36	15,90	3,89	4,09

Aquarea High Performance Bi-bloc H Generation Three phase. Heating and Cooling · R410A

WH-UD09HE8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	7,50	1,15	6,52	9,10	1,20	7,58	7,00	1,13	6,19
25	8,35	1,77	4,72	10,90	1,78	6,12	7,00	1,24	5,65
35	7,00	2,23	3,14	8,30	2,32	3,58	7,00	1,52	4,61
43	5,52	2,54	2,17	7,69	2,77	2,78	5,60	1,80	3,11
WH-UD12HE8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	7,86	1,18	6,66	13,15	1,40	9,39	10,00	1,73	5,78
25	12,08	2,90	4,17	15,70	2,05	7,66	10,00	1,97	5,08
35	10,00	2,56	3,91	12,00	2,67	4,49	10,00	2,40	4,17
43	7,80	3,80	2,05	11,10	3,19	3,48	8,00	2,85	2,81
WH-UD16HE8									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,20	1,62	5,68	16,40	2,58	6,36	12,20	2,45	4,98
25	14,40	3,92	3,67	19,20	3,83	5,01	12,20	2,79	4,37
35	12,20	4,76	2,56	15,00	4,98	3,01	12,20	2,96	4,12
43	7,75	3,40	2,28	13,80	5,95	2,32	9,70	4,00	2,43

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea High Performance Mono-bloc J Generation Single phase. Heating and Cooling - MDC · R32

WH-MDC05J3E5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	4,37	1,73	2,53	4,16	2,03	2,05	3,84	2,37	1,62	3,43	2,64	1,30	—	—	—
-15	5,13	1,78	2,88	5,00	2,17	2,30	4,75	2,51	1,89	3,70	2,45	1,51	—	—	—
-7	5,17	1,49	3,47	5,00	1,80	2,78	4,80	2,16	2,22	5,00	2,70	1,85	4,68	2,71	1,73
2	5,00	1,11	4,50	5,00	1,40	3,57	5,00	1,81	2,76	5,00	2,20	2,27	4,80	2,40	2,00
7	5,09	0,78	6,53	5,00	0,99	5,05	5,00	1,31	3,82	5,00	1,66	3,01	4,58	1,90	2,41
25	4,96	0,77	6,44	5,04	0,90	5,60	5,31	1,16	4,58	5,61	1,34	4,19	5,15	1,33	3,87
WH-MDC07J3E5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	4,86	2,03	2,39	4,66	2,35	1,98	4,44	2,75	1,61	4,23	3,13	1,35	—	—	—
-15	5,80	2,11	2,75	5,60	2,40	2,33	5,30	2,84	1,87	5,00	3,32	1,51	—	—	—
-7	6,76	2,07	3,27	6,80	2,42	2,81	6,30	2,82	2,23	6,30	3,39	1,86	4,74	2,76	1,72
2	6,83	1,66	4,11	7,00	2,06	3,40	6,85	2,50	2,74	6,30	2,92	2,16	4,80	2,40	2,00
7	7,32	1,19	6,15	7,00	1,47	4,76	7,00	1,96	3,57	7,00	2,48	2,82	6,18	2,44	2,53
25	6,80	0,64	10,63	6,67	0,93	7,17	6,79	1,38	4,92	6,70	1,80	3,72	6,22	1,78	3,49
WH-MDC09J3E5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	5,33	2,36	2,26	6,43	3,60	1,79	5,78	3,83	1,51	4,83	3,64	1,33	—	—	—
-15	7,76	3,20	2,43	7,60	3,41	2,23	7,00	3,71	1,89	5,60	3,80	1,47	—	—	—
-7	7,39	2,45	3,02	7,50	2,85	2,63	7,30	3,37	2,17	7,00	3,89	1,80	6,44	3,67	1,75
2	7,38	1,89	3,90	7,45	2,38	3,13	7,00	2,85	2,46	7,00	3,30	2,12	5,46	2,72	2,01
7	9,15	1,59	5,75	9,00	2,01	4,48	9,00	2,61	3,45	8,95	3,22	2,78	7,25	2,87	2,53
25	8,02	0,98	8,18	7,88	1,32	5,97	8,46	1,86	4,55	7,60	2,03	3,74	6,30	1,87	3,37

Aquarea High Performance Mono-bloc J Generation Single phase. Heating and Cooling - MDC · R32

WH-MDC05J3E5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	5,18	0,82	6,32	6,17	0,84	7,35	5,78	0,60	9,63
25	5,38	1,22	4,41	6,64	1,25	5,31	5,55	0,78	7,12
35	5,00	1,54	3,25	5,86	1,61	3,64	5,00	0,99	5,05
43	4,19	1,85	2,26	5,36	1,92	2,79	4,37	1,30	3,36
WH-MDC07J3E5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	5,38	0,83	6,48	6,69	0,85	7,87	7,65	0,76	10,07
25	6,96	1,82	3,82	9,06	1,98	4,58	7,58	1,23	6,16
35	7,00	2,29	3,06	8,37	2,47	3,39	7,00	1,48	4,73
43	5,60	2,55	2,20	6,87	2,58	2,66	6,10	1,88	3,24
WH-MDC09J3E5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	6,89	1,21	5,69	8,65	1,23	7,03	9,82	1,19	8,25
25	9,50	2,84	3,35	11,55	3,06	3,77	9,68	1,82	5,32
35	9,00	3,32	2,71	10,10	3,51	2,88	9,00	2,12	4,25
43	5,42	2,56	2,12	6,56	2,56	2,56	7,40	2,56	2,89

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea T-CAP Bi-bloc H Generation Single phase / Three phase. Heating and Cooling · R410A

WH-UX09HE5																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,00	3,24	2,78	9,00	3,51	2,56	9,00	3,91	2,30	9,00	4,30	2,09	9,00	4,73	1,90	9,00	5,16	1,74
-7	9,00	2,71	3,32	9,00	3,16	2,85	9,00	3,62	2,49	9,00	4,07	2,21	9,00	4,27	2,11	9,00	4,46	2,02
2	9,00	2,36	3,81	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	9,00	3,56	2,53	9,00	4,07	2,21
7	9,00	1,64	5,49	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	13,60	1,50	9,07	13,60	1,71	7,95	13,20	1,93	6,84	12,80	2,14	5,98	12,00	2,41	4,98	11,20	2,67	4,19
WH-UX12HE5																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	12,00	4,75	2,53	12,00	4,96	2,42	12,00	5,41	2,22	11,00	5,38	2,04	10,80	5,82	1,86	10,50	6,26	1,68
-7	12,00	3,85	3,12	12,00	4,41	2,72	12,00	4,98	2,41	12,00	5,54	2,17	12,00	5,90	2,03	12,00	6,26	1,92
2	12,00	3,19	3,76	12,00	3,49	3,44	12,00	3,87	3,10	12,00	4,25	2,82	12,00	4,86	2,47	12,00	5,47	2,19
7	12,00	2,18	5,50	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	13,60	1,55	8,77	13,60	1,76	7,73	13,40	2,10	6,38	13,20	2,43	5,43	12,60	2,66	4,74	12,00	2,89	4,15
WH-UX09HE8																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,00	3,24	2,78	9,00	3,51	2,56	9,00	3,91	2,30	9,00	4,30	2,09	9,00	4,73	1,90	9,00	5,16	1,74
-7	9,00	2,71	3,32	9,00	3,16	2,85	9,00	3,62	2,49	9,00	4,07	2,21	9,00	4,27	2,11	9,00	4,46	2,02
2	9,00	2,36	3,81	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	9,00	3,56	2,53	9,00	4,07	2,21
7	9,00	1,64	5,49	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	13,60	1,50	9,07	13,60	1,71	7,95	13,20	1,93	6,84	12,80	2,14	5,98	12,00	2,41	4,98	11,20	2,67	4,19
WH-UX12HE8																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	12,00	4,75	2,53	12,00	4,96	2,42	12,00	5,41	2,22	12,00	5,86	2,05	11,80	6,24	1,89	11,60	6,62	1,75
-7	12,00	3,85	3,12	12,00	4,41	2,72	12,00	4,98	2,41	12,00	5,54	2,17	12,00	5,90	2,03	12,00	6,26	1,92
2	12,00	3,19	3,76	12,00	3,49	3,44	12,00	3,87	3,10	12,00	4,25	2,82	12,00	4,86	2,47	12,00	5,47	2,19
7	12,00	2,18	5,50	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	13,60	1,55	8,77	13,60	1,76	7,73	13,40	2,10	6,38	13,20	2,43	5,43	12,60	2,66	4,74	12,00	2,89	4,15
WH-UX16HE8																		
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	16,00	6,30	2,54	16,00	6,89	2,32	16,00	7,45	2,15	16,00	8,10	1,98	16,00	8,48	1,89	15,20	8,96	1,70
-7	16,00	5,85	2,74	16,00	6,42	2,49	16,00	7,00	2,29	16,00	7,57	2,11	16,00	8,10	1,98	16,00	8,62	1,86
2	16,00	4,67	3,43	16,00	5,21	3,07	16,00	5,74	2,79	16,00	6,31	2,54	16,00	6,90	2,32	16,00	7,50	2,13
7	16,00	3,35	4,78	16,00	3,74	4,28	16,00	4,30	3,72	16,00	4,80	3,33	16,00	5,43	2,95	16,00	5,91	2,71
16	16,00	2,59	6,18	16,00	3,18	5,03	16,00	3,71	4,31	16,00	4,27	3,75	16,00	4,86	3,29	16,00	5,22	3,07
25	16,00	2,02	7,92	16,00	2,58	6,20	16,00	2,91	5,50	16,00	3,36	4,76	16,00	3,74	4,28	16,00	4,00	4,00

Aquarea T-CAP Bi-bloc H Generation Single phase / Three phase. Heating and Cooling · R410A

Outdoor	WH-UX09HE5									WH-UX12HE5								
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18	7	7	7	14	14	14	18	18	18
18	7,00	1,36	5,15	8,55	1,41	6,06	7,00	1,00	7,00	10,00	1,75	5,71	13,20	1,96	6,73	10,00	1,40	7,14
25	7,65	1,91	4,01	11,10	1,98	5,61	7,00	1,10	6,36	11,20	2,67	4,19	16,50	3,01	5,48	10,00	1,60	6,25
35	7,00	2,21	3,17	9,23	2,37	3,89	7,00	1,35	5,19	10,00	3,56	2,81	12,55	3,63	3,46	10,00	1,95	5,13
43	6,25	2,66	2,35	8,55	2,71	3,15	5,60	1,60	3,50	8,00	3,35	2,39	10,00	3,46	2,89	8,00	2,30	3,48

Outdoor	WH-UX09HE8						WH-UX12HE8						WH-UX16HE8					
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	18	18	18	7	7	7	18	18	18	7	7	7	18	18	18
18	7,00	1,36	5,15	—	—	—	7,50	1,41	5,32	—	—	—	8,50	1,70	5,00	10,00	1,70	5,88
25	7,65	1,91	4,01	—	—	—	8,90	2,16	4,12	—	—	—	14,00	4,00	3,50	14,00	2,94	4,76
35	7,00	2,21	3,17	—	—	—	10,00	3,56	2,81	—	—	—	12,20	4,76	2,56	12,20	3,50	3,49
43	6,25	2,66	2,35	—	—	—	8,00	3,01	2,66	—	—	—	7,10	3,31	2,15	9,80	3,31	2,96

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea T-CAP Bi-bloc H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling - SQC · R410A

WH-UQ09HE8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	9,00	3,24	2,78	9,00	3,51	2,56	9,00	3,91	2,30	9,00	4,30	2,09	9,00	4,73	1,90	9,00	5,16	1,74
-7	9,00	2,71	3,32	9,00	3,16	2,85	9,00	3,62	2,49	9,00	4,07	2,21	9,00	4,27	2,11	9,00	4,46	2,02
2	9,00	2,36	3,81	9,00	2,51	3,59	9,00	2,78	3,24	9,00	3,05	2,95	9,00	3,56	2,53	9,00	4,07	2,21
7	9,00	1,64	5,49	9,00	1,86	4,84	9,00	2,16	4,17	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94
25	13,60	1,50	9,07	13,60	1,71	7,95	13,20	1,93	6,84	12,80	2,14	5,98	12,00	2,41	4,98	11,20	2,67	4,19
WH-UQ12HE8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	12,00	4,75	2,53	12,00	4,96	2,42	12,00	5,41	2,22	12,00	5,86	2,05	11,80	6,24	1,89	11,60	6,62	1,75
-7	12,00	3,85	3,12	12,00	4,41	2,72	12,00	4,98	2,41	12,00	5,54	2,17	12,00	5,90	2,03	12,00	6,26	1,92
2	12,00	3,19	3,76	12,00	3,49	3,44	12,00	3,87	3,10	12,00	4,25	2,82	12,00	4,86	2,47	12,00	5,47	2,19
7	12,00	2,18	5,50	12,00	2,53	4,74	12,00	2,96	4,05	12,00	3,39	3,54	12,00	3,78	3,17	12,00	4,16	2,88
25	13,60	1,55	8,77	13,60	1,76	7,73	13,40	2,10	6,38	13,20	2,43	5,43	12,60	2,66	4,74	12,00	2,89	4,15
WH-UQ16HE8																		
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**30**	**30**	**30**	**35**	**35**	**35**	**40**	**40**	**40**	**45**	**45**	**45**	**50**	**50**	**50**	**55**	**55**	**55**
-15	16,00	6,30	2,54	16,00	6,89	2,32	16,00	7,45	2,15	16,00	8,10	1,98	16,00	8,48	1,89	15,20	8,96	1,70
-7	16,00	5,85	2,74	16,00	6,42	2,49	16,00	7,00	2,29	16,00	7,57	2,11	16,00	8,10	1,98	16,00	8,62	1,86
2	16,00	4,67	3,43	16,00	5,21	3,07	16,00	5,74	2,79	16,00	6,31	2,54	16,00	6,90	2,32	16,00	7,50	2,13
7	16,00	3,35	4,78	16,00	3,74	4,28	16,00	4,30	3,72	16,00	4,80	3,33	16,00	5,43	2,95	16,00	5,91	2,71
16	16,00	2,59	6,18	16,00	3,18	5,03	16,00	3,71	4,31	16,00	4,27	3,75	16,00	4,86	3,29	16,00	5,22	3,07
25	16,00	2,02	7,92	16,00	2,58	6,20	16,00	2,91	5,50	16,00	3,36	4,76	16,00	3,74	4,28	16,00	4,00	4,00

Aquarea T-CAP Bi-bloc H Generation Three phase. Super Quiet outdoor unit. Heating and Cooling - SQC · R410A

WH-UQ09HE8						
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**18**	**18**	**18**
18	7,00	1,36	5,15	—	—	—
25	7,65	1,91	4,01	—	—	—
35	7,00	2,21	3,17	—	—	—
43	6,25	2,66	2,35	—	—	—
WH-UQ12HE8						
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**18**	**18**	**18**
18	7,50	1,41	5,32	—	—	—
25	8,90	2,16	4,12	—	—	—
35	10,00	3,56	2,81	—	—	—
43	8,00	3,01	2,66	—	—	—
WH-UQ16HE8						
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**18**	**18**	**18**
18	8,50	1,70	5,00	10,00	1,70	5,88
25	14,00	4,00	3,50	14,00	2,94	4,76
35	12,20	4,76	2,56	12,20	3,50	3,49
43	7,10	3,31	2,15	9,80	3,31	2,96

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Heating and cooling capacity tables

Based on outlet temperature and outside temperature.

Aquarea T-CAP Mono-bloc J Generation Single phase / Three phase. Heating and Cooling - MXC · R32

WH-MXC09J3E5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	9,00	3,44	2,62	9,00	3,95	2,28	9,00	4,65	1,94	7,90	5,58	1,42	—	—	—
-15	9,00	2,98	3,02	9,00	3,41	2,64	9,00	4,04	2,23	9,00	4,83	1,86	8,70	5,37	1,62
-7	10,50	2,72	3,86	9,00	2,92	3,08	9,00	3,54	2,54	9,00	4,24	2,12	9,00	4,62	1,95
2	10,80	2,14	5,05	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,55	2,54	9,00	4,05	2,22
7	9,00	1,38	6,52	9,00	1,77	5,08	9,00	2,37	3,80	9,00	2,92	3,08	9,00	3,29	2,74
25	9,00	0,77	11,69	9,00	1,00	9,00	10,00	1,67	5,99	10,00	2,28	4,39	11,00	2,86	3,85
WH-MXC12J6E5															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	12,00	5,02	2,39	12,00	5,80	2,07	11,00	5,95	1,85	10,00	6,50	1,54	—	—	—
-15	12,00	4,14	2,90	12,00	4,83	2,48	11,00	5,20	2,12	10,50	6,00	1,75	8,90	6,30	1,41
-7	13,50	4,30	3,14	12,00	4,25	2,82	12,00	5,02	2,39	12,00	6,00	2,00	11,00	6,30	1,75
2	14,50	3,23	4,49	12,00	3,40	3,53	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,77	2,08
7	12,00	2,00	6,00	12,00	2,50	4,80	12,00	3,24	3,70	12,00	3,94	3,05	12,00	4,52	2,65
25	12,00	1,20	10,00	12,00	1,49	8,05	12,00	2,10	5,71	12,00	2,75	4,36	12,00	3,11	3,86
WH-MXC09J3E8															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	9,00	3,44	2,62	9,00	3,95	2,28	9,00	4,65	1,94	7,90	5,58	1,42	—	—	—
-15	9,00	2,98	3,02	9,00	3,41	2,64	9,00	4,04	2,23	9,00	4,83	1,86	8,70	5,37	1,62
-7	10,50	2,72	3,86	9,00	2,92	3,08	9,00	3,54	2,54	9,00	4,24	2,12	9,00	4,62	1,95
2	10,80	2,14	5,05	9,00	2,36	3,81	9,00	2,91	3,09	9,00	3,55	2,54	9,00	4,05	2,22
7	9,00	1,38	6,52	9,00	1,77	5,08	9,00	2,37	3,80	9,00	2,92	3,08	9,00	3,29	2,74
25	9,00	0,77	11,69	9,00	1,00	9,00	10,00	1,67	5,99	10,00	2,28	4,39	11,00	2,86	3,85
WH-MXC12J9E8															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	12,00	5,02	2,39	12,00	5,80	2,07	10,50	5,75	1,83	9,20	5,80	1,59	—	—	—
-15	12,00	4,14	2,90	12,00	4,83	2,48	12,00	5,67	2,12	11,10	6,35	1,75	8,70	6,20	1,40
-7	13,50	4,30	3,14	12,00	4,25	2,82	12,00	5,02	2,39	12,00	6,00	2,00	11,00	6,30	1,75
2	14,50	3,23	4,49	12,00	3,40	3,53	12,00	4,20	2,86	12,00	4,95	2,42	12,00	5,77	2,08
7	12,00	2,00	6,00	12,00	2,50	4,80	12,00	3,24	3,70	12,00	3,94	3,05	12,00	4,52	2,65
25	12,00	1,20	10,00	12,00	1,49	8,05	12,00	2,10	5,71	12,00	2,75	4,36	12,00	3,11	3,86
WH-MXC16J9E8															
Tamb	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**	**HC**	**IP**	**COP**
LWC	**25**	**25**	**25**	**35**	**35**	**35**	**45**	**45**	**45**	**55**	**55**	**55**	**60**	**60**	**60**
-20	16,00	7,40	2,16	16,00	8,40	1,90	16,00	10,00	1,60	14,00	10,30	1,36	—	—	—
-15	15,30	6,10	2,51	16,00	6,91	2,32	16,00	8,44	1,90	16,00	9,97	1,60	14,00	10,60	1,32
-7	19,00	6,60	2,88	16,00	6,70	2,39	16,00	7,85	2,04	16,00	9,33	1,71	15,00	9,70	1,55
2	20,60	5,35	3,85	16,00	5,16	3,10	16,00	6,40	2,50	16,00	7,72	2,07	16,00	9,20	1,74
7	16,00	2,80	5,71	16,00	3,54	4,52	16,00	4,55	3,52	16,00	5,60	2,86	15,60	6,50	2,40
25	16,00	1,55	10,32	16,00	2,30	6,96	16,00	3,20	5,00	16,00	4,00	4,00	15,50	4,50	3,44

Aquarea T-CAP Mono-bloc J Generation Single phase / Three phase. Heating and Cooling - MXC · R32

Outdoor	WH-MXC09J3E5									WH-MXC12J6E5								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,00	1,61	5,59	11,00	1,49	7,38	11,40	1,30	8,77	11,40	2,10	5,43	13,60	2,09	6,51	15,00	2,06	7,28
25	9,00	2,00	4,50	12,60	2,38	5,29	10,50	1,54	6,82	12,00	2,87	4,18	15,70	3,60	4,36	14,00	2,56	5,47
35	9,00	2,83	3,18	10,90	2,98	3,66	9,00	1,95	4,62	12,00	4,14	2,90	13,60	4,35	3,13	12,00	3,04	3,95
43	7,20	3,26	2,21	8,70	3,23	2,69	7,30	2,43	3,00	10,30	4,89	2,11	11,80	4,98	2,37	10,40	3,72	2,80

Outdoor	WH-MXC09J3E8									WH-MXC12J9E8									WH-MXC16J9E8								
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
16	9,00	1,66	5,42	11,00	1,54	7,14	11,40	1,35	8,44	11,40	2,15	5,30	13,60	2,14	6,36	15,00	2,15	6,98	15,00	3,15	4,76	19,00	3,35	5,67	19,00	3,00	6,33
25	9,00	2,06	4,37	12,60	2,45	5,14	10,50	1,60	6,56	12,00	2,93	4,10	15,70	3,68	4,27	14,00	2,66	5,26	15,00	4,00	3,75	18,00	4,00	4,50	18,00	3,50	5,14
35	9,00	2,91	3,09	10,90	3,07	3,55	9,00	2,02	4,46	12,00	4,23	2,84	13,60	4,44	3,06	12,00	3,17	3,79	14,50	5,11	2,84	14,50	4,20	3,45	16,00	4,27	3,75
43	7,20	3,36	2,14	8,70	3,33	2,61	7,30	2,53	2,89	10,30	5,00	2,06	11,80	5,09	2,32	10,40	3,87	2,69	9,50	4,40	2,16	11,50	4,40	2,61	12,50	4,30	2,91

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Aquarea HT Bi-bloc F Generation Single phase / Three phase. Heating Only · R407C

WH-UH09FE5

Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	9,00	3,46	2,60	9,00	3,71	2,43	9,00	4,01	2,24	8,80	4,26	2,07	8,60	4,61	1,87	8,50	4,91	1,73	8,00	5,06	1,58	7,80	5,86	1,33
-7	9,00	3,06	2,94	9,00	3,29	2,74	9,00	3,56	2,53	8,90	3,83	2,32	8,90	4,11	2,17	8,90	4,46	2,00	8,90	4,96	1,79	8,90	5,46	1,63
2	9,00	2,43	3,70	9,00	2,61	3,45	9,00	2,91	3,09	9,00	3,21	2,80	9,00	3,55	2,54	9,00	3,88	2,32	9,00	4,35	2,07	9,00	4,76	1,89
7	9,00	1,82	4,95	9,00	1,94	4,64	9,00	2,21	4,07	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94	9,00	3,46	2,60	9,00	3,96	2,27
16	9,00	1,46	6,16	9,00	1,56	5,77	9,00	1,81	4,97	8,90	2,02	4,41	8,80	2,31	3,81	8,60	2,52	3,41	8,20	2,77	2,96	8,20	3,18	2,58
25	12,00	1,66	7,23	12,00	1,76	6,82	12,00	2,01	5,97	10,80	2,14	5,05	10,60	2,46	4,31	10,20	2,66	3,83	9,80	2,89	3,39	9,60	3,31	2,90

WH-UH12FE5

Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	12,00	5,16	2,33	12,00	5,53	2,17	11,00	5,51	2,00	10,60	5,53	1,92	10,30	5,63	1,83	9,70	5,76	1,68	9,00	6,01	1,50	8,00	6,11	1,31
-7	12,00	4,43	2,71	12,00	4,76	2,52	11,50	4,91	2,34	11,20	5,06	2,21	10,80	5,16	2,09	10,10	5,28	1,91	10,00	5,66	1,77	9,60	5,91	1,62
2	12,00	3,42	3,51	12,00	3,68	3,26	11,50	3,86	2,98	11,30	4,14	2,73	11,00	4,51	2,44	10,80	4,86	2,22	10,65	5,31	2,01	10,30	5,59	1,84
7	12,00	2,52	4,76	12,00	2,69	4,46	12,00	3,06	3,92	12,00	3,44	3,49	12,00	3,81	3,15	12,00	4,28	2,80	12,00	4,76	2,52	12,00	5,41	2,22
16	12,00	2,03	5,91	12,00	2,17	5,53	12,00	2,52	4,76	12,00	2,86	4,20	11,50	3,19	3,61	11,50	3,48	3,30	11,00	3,82	2,88	11,00	4,37	2,52
25	12,00	1,66	7,23	12,00	1,76	6,82	12,00	2,01	5,97	11,80	2,41	4,90	11,20	2,64	4,24	10,80	2,86	3,78	10,50	3,11	3,38	10,30	3,62	2,85

WH-UH09FE8

Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	9,00	3,46	2,60	9,00	3,71	2,43	9,00	4,01	2,24	8,80	4,26	2,07	8,60	4,61	1,87	8,50	4,91	1,73	8,00	5,06	1,58	7,80	5,86	1,33
-7	9,00	3,06	2,94	9,00	3,29	2,74	9,00	3,56	2,53	8,90	3,83	2,32	8,90	4,11	2,17	8,90	4,46	2,00	8,90	4,96	1,79	8,90	5,46	1,63
2	9,00	2,43	3,70	9,00	2,61	3,45	9,00	2,91	3,09	9,00	3,21	2,80	9,00	3,55	2,54	9,00	3,88	2,32	9,00	4,35	2,07	9,00	4,76	1,89
7	9,00	1,82	4,95	9,00	1,94	4,64	9,00	2,21	4,07	9,00	2,46	3,66	9,00	2,76	3,26	9,00	3,06	2,94	9,00	3,46	2,60	9,00	3,96	2,27
16	9,00	1,46	6,16	9,00	1,56	5,77	9,00	1,81	4,97	8,90	2,02	4,41	8,80	2,31	3,81	8,60	2,52	3,41	8,20	2,77	2,96	8,20	3,18	2,58
25	12,00	1,66	7,23	12,00	1,76	6,82	12,00	2,01	5,97	10,80	2,14	5,05	10,60	2,46	4,31	10,20	2,66	3,83	9,80	2,89	3,39	9,60	3,31	2,90

WH-UH12FE8

Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55	60	60	60	65	65	65
-15	12,00	5,16	2,33	12,00	5,53	2,17	11,00	5,51	2,00	10,60	5,53	1,92	10,30	5,63	1,83	9,70	5,76	1,68	9,00	6,01	1,50	8,00	6,11	1,31
-7	12,00	4,43	2,71	12,00	4,76	2,52	11,50	4,91	2,34	11,20	5,06	2,21	10,80	5,16	2,09	10,10	5,28	1,91	10,00	5,66	1,77	9,60	5,91	1,62
2	12,00	3,42	3,51	12,00	3,68	3,26	11,50	3,86	2,98	11,30	4,14	2,73	11,00	4,51	2,44	10,80	4,86	2,22	10,65	5,31	2,01	10,30	5,59	1,84
7	12,00	2,52	4,76	12,00	2,69	4,46	12,00	3,06	3,92	12,00	3,44	3,49	12,00	3,81	3,15	12,00	4,28	2,80	12,00	4,76	2,52	12,00	5,41	2,22
16	12,00	2,03	5,91	12,00	2,17	5,53	12,00	2,52	4,76	12,00	2,86	4,20	11,50	3,19	3,61	11,50	3,48	3,30	11,00	3,82	2,88	11,00	4,37	2,52
25	12,00	1,66	7,23	12,00	1,76	6,82	12,00	2,01	5,97	11,80	2,41	4,90	11,20	2,64	4,24	10,80	2,86	3,78	10,50	3,11	3,38	10,30	3,62	2,85

Aquarea HT Mono-bloc G Generation Single phase. Heating Only - MHF · R407C

WH-MHF09G3E5

Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	9,00	3,46	2,60	9,00	3,71	2,43	9,00	4,01	2,24	8,80	4,26	2,07	8,50	4,71	1,80	7,80	5,38	1,45
-7	9,00	3,06	2,94	9,00	3,29	2,74	9,00	3,56	2,53	8,90	3,83	2,32	8,90	4,28	2,08	9,00	5,02	1,79
2	9,00	2,43	3,70	9,00	2,61	3,45	9,00	2,91	3,09	9,00	3,21	2,80	9,00	3,72	2,42	9,00	4,37	2,06
7	9,00	1,82	4,95	9,00	1,94	4,64	9,00	2,21	4,07	9,00	2,46	3,66	9,00	2,99	3,01	9,00	3,64	2,47
25	9,00	1,52	5,92	9,00	1,70	5,29	9,00	1,88	4,79	9,00	2,16	4,17	9,00	2,63	3,42	9,00	3,20	2,81

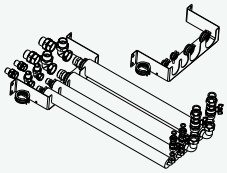
WH-MHF12G6E5

Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP
LWC	30	30	30	35	35	35	40	40	40	45	45	45	50	50	50	55	55	55
-15	12,00	5,16	2,33	12,00	5,53	2,17	11,00	5,51	2,00	10,80	5,49	1,97	9,70	5,52	1,76	8,00	5,61	1,43
-7	12,00	4,43	2,71	12,00	4,76	2,52	11,50	4,91	2,34	11,20	5,06	2,21	10,10	5,06	2,00	9,60	5,43	1,77
2	12,00	3,42	3,51	12,00	3,68	3,26	11,50	3,86	2,98	11,30	4,14	2,73	10,80	4,66	2,32	10,30	5,13	2,01
7	12,00	2,52	4,76	12,00	2,69	4,46	12,00	3,06	3,92	12,00	3,44	3,49	12,00	4,10	2,93	12,00	4,97	2,41
25	12,00	2,03	5,91	12,00	2,36	5,08	12,00	2,69	4,46	12,00	3,02	3,97	12,00	3,61	3,32	12,00	4,37	2,75

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Input Power (kW).
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

Accessories and control

All in One accessories

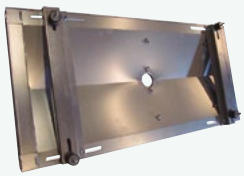


Flexible pipings and wall mounting plate for All in One J Generation (not compatible with WH-ADC0309J3E5C).

———

PAW-ADC-PREKIT-1

Special outdoor supports



Tray for condenser water compatible with outdoor elevation platform.

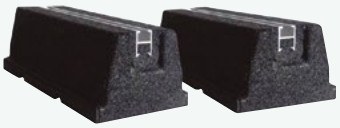
———

PAW-WTRAY

Outdoor elevation platform.
Dimension (H x W x D):
400 x 900 x 400 mm

———

PAW-GRDSTD40

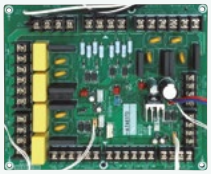


Outdoor base ground support for noise and vibration absorption.
Dimension (H x W x D):
600 x 95 x 130 mm
Safe working load: 500 kg

———

PAW-GRDBSE20

PCB's for additional functions



PCB for advanced functions in J and H Generation.

———

CZ-NS4P

Deice accessories

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

———

CZ-NE1P

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

———

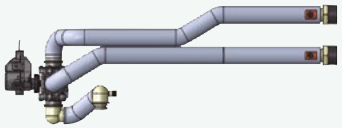
CZ-NE2P

Base pan heater for J and H Generation.

———

CZ-NE3P

Hydraulic accessories



3 way valve kit for inside of hydrokit.

———

CZ-NV1

3 way valve for DHW Tanks.

———

PAW-3WYVLV-HW

1 anti-freeze valve.
It is required to order 2 valves per system.

———

PAW-A2W-AFVLV

Optional magnet for the water filter in H Generation models.

———

PAW-A2W-MGTFILTER

Connectivity Solutions

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

———

CZ-TAW1

10 m extension cable for CZ-TAW1.

———

CZ-TAW1-CBL

KNX interface for J and H Generation.

———

PAW-AW-KNX-H

Modbus interface for J and H Generation.

———

PAW-AW-MBS-H

Cascade manager

Cascade manager for Aquarea Heat Pumps.

———

PAW-A2W-CMH-1

Room thermostats

Wired LCD room thermostat with weekly timer.

———

PAW-A2W-RTWIRED

Wireless LCD room thermostat with weekly timer.

———

PAW-A2W-RTWIRELESS

Sensors for Aquarea J and H Generation

Outdoor ambient sensor.

———

PAW-A2W-TSOD

Zone room sensor.

———

PAW-A2W-TSRT

Zone water sensor.

———

PAW-A2W-TSHC

Solar sensor.

———

PAW-A2W-TSSO

Buffer tank sensor.
Zone water sensor PAW-A2W-TSHC is also required to operate buffer tank sensor.

———

PAW-A2W-TSBU

Accessories and control

Smart fan coil accessories

Kits of 2 legs to protect the water pipings.

———

PAW-AAIR-LEGS-1

Motor connection cable for units with hydraulic connections on the right.

———

PAW-AAIR-RHCABLE

Fan coil accessories

Advanced wired remote controller for fan coil.

———

PAW-FC-RC1

Wired remote controller with touch control for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

———

PAW-FC-907EC

Wired remote controller with touch control for 2-pipe, AC fan coil (control only).

———

PAW-FC-907AC

Wired remote controller for 2-pipe and 4-pipe, EC fan coil (control + Modbus).

———

PAW-FC-903EC

Wired remote controller for 2-pipe, AC fan coil (control only).

———

PAW-FC-903AC

Infrared remote supplied with IR versions.

———

IR Controller

2 way valve + drain pan for ducted models 010-060.

———

PAW-FC-2WY-11/55-1

2 way valve + drain pan for ducted models 070-080.

———

PAW-FC-2WY-65/90-1

2 way valve + drain pan for ducted model F040.

———

PAW-FC-2WY-F040

2 way valve for wall-mounted.

———

PAW-FC2-2WY-K007

3 way valve + drain pan for ducted models 010-060.

———

PAW-FC-3WY-11/55-1

3 way valve + drain pan for ducted models 070-080.

———

PAW-FC-3WY-65/90-1

3 way valve + drain pan for ducted model F040.

———

PAW-FC-3WY-F040

3 way valve for wall-mounted.

———

PAW-FC2-3WY-K007

Sanitary Tank accessories

Tank sensor with 6 m cable length.

———

PAW-TS1

Tank sensor with 20 m cable length.

———

PAW-TS2

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

———

PAW-TS4

Temperature sensor kit for third party tank (with copper pocket and 6 m length sensor cable).

———

CZ-TK1

DHW Stand Alone accessories

Rack for suspended device for 100 and 150 liters models.

———

PAW-DHW-STAND

Heat recovery Ventilation accessories

Supply and extract filters kit.

———

PAW-VEN-FLTKIT

Optional PCB for additional functions.

———

PAW-VEN-ACCPCB

HRV touch control panel. White frame (cable must be ordered separately).

———

PAW-VEN-DPL

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

———

PAW-VEN-CBLEXT12

Twin plugs for installation of several control panels type CD or CE for one unit.

———

PAW-VEN-DIVPLG

HRV touch control panel wall-mounted kit.

———

PAW-VEN-DPLBOX

CO_2 RH wall-mounted sensor.

———

PAW-VEN-S-CO2RH-W

CO_2 wall-mounted sensor.

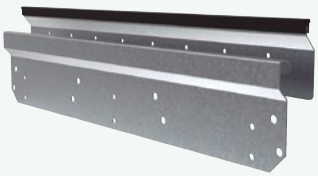
———

PAW-VEN-S-CO2-W

CO_2 duct sensor.

———

PAW-VEN-S-CO2-D



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

———

PAW-VEN-WBRK

Electrical duct heater 0,6 kW (includes relay).

———

PAW-VEN-HTR06

Electrical duct heater 1,2 kW (includes relay).

———

PAW-VEN-HTR12

Energy saving

R32 — Refrigerant gas. R32 Our heat pumps containing the refrigerant R32 show a drastic reduction in the value of Global Warming Potential (GWP).

A++ ErP 55°C — Better efficiency and Value for medium temperature applications. Energy efficiency class up to A++ in a scale from A+++ to D.

A+++ ErP 35°C — Better efficiency and Value for low temperature applications. Energy efficiency class up to A+++ in a scale from A+++ to D.

A+ DHW — Better efficiency and Value for domestic hot water. Energy efficiency class up to A+ in a scale from A+ to F.

A CLASS WATER PUMP AUTO SPEED — Aquarea are built-in with A class energy efficiency water pump. High efficiency circulating the water in the heating installation.

INVERTER + — Inverter Plus System classification highlights Panasonic's highest performing systems.

ErP — ERP 2018. Compliant following COMMISSION REGULATION (EU) No2016/2281.

EC MOTOR GREEN VENTILATION — EC motor green ventilation. Range of fan coil with improved efficiency with optional EC fan motor.

High performance and indoor air quality

5,33 COP HIGH PERFORMANCE — Aquarea High Performance for low consumption houses. From 3 to 16 kW. For a house with low temperature radiators or under-floor heating, our high performance Aquarea HP is a good solution. *COP of 5,33 for J Generation 3 kW.

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

65°C OUTPUT WATER HIGH TEMPERATURE — Aquarea HT ideal for retrofit. From 9 to 12 kW. For a house with traditional high-temperature radiators, the Aquarea HT solution is the most appropriate, can work in output water temperatures of 65 °C even at outdoor temperatures as low as -20 °C.

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

WATER FILTER WITH MAGNET — Water filter with magnet. Easy access and fast clip technology for J Generation. Water filter only for H Generation.

65°C OUTPUT WATER FLOW TEMPERATURE — 65 °C output water. Reaches water outlet temperature up to 65 °C.

FLOW SENSOR — Water Flow Sensor. Included on J and H Generation.

-20 °C HEATING MODE — Down to -20 °C in heating mode. The air conditioner works in heat pump mode when the outdoor temperature is as low as -20 °C.

CE

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

Quality Management System Certificate

ISO 9001: 2015
Panasonic Appliances Air-Conditioning Malaysia. Sdn.Bhd.
Cert. No.: QMS 00413

GB/T 19001-2016/ISO 9001: 2015
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 01218Q30835R8L

Environmental Management System Certificate

ISO 14001: 2015
Panasonic Appliances Air-Conditioning Malaysia Sdn.Bhd.
Cert. No.: EMS 00109

GB/T 24001-2016/ISO 14001: 2015
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 02118E10944R7M

High connectivity

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

Solar kit. For even greater efficiency, our Aquarea Heat Pumps can be connected to photovoltaic solar panels with an optional kit.

Advanced control. Remote controller with full dotted 3,5'' wide back light screen. Menu with 17 available languages easy to use for installer and user. Included on J and H Generation.

Internet control. A next generation system providing user-friendly remote control of air conditioning or heat pump units from everywhere, using a simple Android™ or iOS smartphone, tablet or PC via the internet.

Connectivity. The communication port can be integrated into the indoor unit and provides easy connection to, and control of, your Panasonic heat pump to your home or building management system.

5 Years compressor warranty. We guarantee the outdoor unit compressors in the entire range for five years.

Aquarea H and J Generation heat pumps in combination with the optional PCB CZ-NSP4 hold the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Warmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.
MCS Certificate number: MCS HP0086*. Keymark: Check all our certified heat pumps on: www.heatpumpkeymark.com. Passive House Institute: Certified models can be checked in https://database.passivehouse.com.

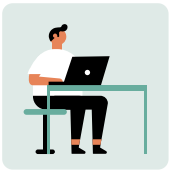
* Not all products certified. As the certification process is on-going and the list of certified products constantly changing, please check for latest details on the official websites.

Notes

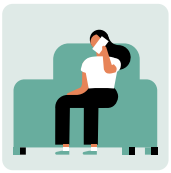
Notes

Panasonic Heating & Cooling Solutions customer service

If your end customer is seeking further support from Panasonic directly, please forward the following ways to contact us:



Use our European website **www.aircon.panasonic.eu** for contacting us.
Panasonic has implemented a new contact page on the Panasonic Heating & Cooling Solutions website for potential or existing Panasonic customers.



Another option is to contact the highly experienced teams at the Panasonic call centres, who are more than qualified to support Panasonic clients in 13 different languages across Europe.

Our call centres in Europe for end customers:

Country	Phone number	Opening times
Belgium	+32 2 320 55 38	Mo-Fr 9-17h
Denmark	+45 89 87 45 00	Mo-Fr 9-17h
Finland	+35 8646041590	Mo-Fr 9-17h
France	0800 805 215	Mo-Fr 9-17h
Germany	+49 611 71187211	Mo-Sat 7-18h
Hungary	+36 1 700 89 65	Mo-Fr 9-17h
Ireland	1800 939 977	Mo-Fr 9-17h
Italy	+39 2 6433235	Mo-Fr 9-17h
Luxembourg	+32 2 320 55 38	Mo-Fr 9-17h
Netherlands	+31 73 6402 538	Mo-Sat 7-18h

Country	Phone number	Opening times
Norway	+47 69 67 61 00	Mo-Fr 9-17h
Poland	800 080 911	Mo-Fr 9-17h
Portugal	800 78 22 20	Mo-Fr 9-17h
Spain	+34 900 828 787	Mo-Fr 9-17h
Sweden	+46 85 221 81 00	Mo-Fr 9-17h
Switzerland DE	+41 415615366	Mo-Fr 9-17h
Switzerland FR	+41 435880049	Mo-Fr 9-17h
Switzerland IT	+41 435880048	Mo-Fr 9-17h
United Kingdom	0808 208 2115	Mo-Fr 9-17h

www.aircon.panasonic.eu

heating & cooling solutions

Do not add or replace refrigerant other than the specified type. Manufacturer is not responsible for the damage and deterioration in safety due to usage of the other refrigerant.
The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.

Panasonic®

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

Panasonic Nordic
Branch of Panasonic Marketing Europe GmbH, Germany
Panasonic Heating & Ventilation Air-conditioning Europe
Sundbybergsvägen 1, SE-171 73 Solna, SWEDEN

NE/EN-CATA2W1022/01