COMMERCIAL

Commercial Range.

The commercial range is constantly expanding so that you can always offer your clients the optimal solutions: high performance, silent machines and a complete range of ducts, cassettes and ceiling installations.

Panasonic PACi R32 up to 25,00kW.

R32 PACi range helps to find more environmental friendly solutions in commercial applications. This pure refrigerant also increase the efficiency of the system. Panasonic PACi R32 covers all ranges from 3,60 up to 25,00kW, the low GWP solution for retail.

nanoe™ X purifies air with PACi 90x90 Cassette.

Thanks to advances in design and technology such as the new high performance turbo fan, which is more efficient and silent, the nanoe™ X air cleaner which provides healthy air, the floor temperature and humidity sensor that give more control, the new PU2 Panasonic 90 x 90 4 way Cassette provides a high-class solution for energy savings, healthy environment and comfort.

Wall design wall type PK2 Series.

Commercial air conditioning and aesthetics find a new ally in with PK2 series. Following same shape as design award Etherea, PK2 series will combine with any indoor design.

Server room solutions.

Choose the best solution to ensure any server room needs. Designed for high durability and adverse weather conditions its server room ad hoc control essure permanent operation and failure alarms communications.

Control CZ-RTC5B with datanavi.
Ready to control 2 PACi systems with backup and alternate operation.

New PACi WLAN Interface.

New Panasonic interface CZ-CAPWFC1 allows to connect one indoor unit or a group of indoor units to be managed by Panasonic Comfort Cloud App, for control, monitor, schedule and error code alerts.
This advanced smartphone control gives more possibility for your comfort life.

VRF

VRF Systems.

The VRF industrial range considerably improves efficiency so even large buildings can benefit from a high-level of comfort with less energy consumption.

VRF Systems ECOi EX.

A VRF System delivering energy-saving performance, powerful operation, reliability and comfort surpassing anything previously possible.
It represents a true paradigm shift in air conditioning solutions.

Mini ECOi LE Series.

The Mini ECOi combines smartly compact body with high specifications. It delivers high levels of energy-saving, powerful operation, reliability and comfort.

2-Pipe ECO G GE3 Series.

"L" type heat exchanger and new inverter DC fan motor with a 3-blade propeller to improve energy efficiency through about 30% reduction in electrical power consumption.

VRF Smart Connectivity.

Panasonic's VRF Smart Connectivity is a completely new, state-of-the-art solution providing energy saving and comfort as well as simple installation, operation and running.

Panasonic AC Smart Cloud.

Centralised control of your business premises, from wherever 24/7.
Smartly control, maintain, optimise and save.

INDEX

EDITORIAL

CE

EUROVENT CERTIFIED PERFORMANCE
www.eurovent-certification.com

Quality Management System Certificate

Certified to ISO 9001: 2008
Panasonic Appliances Air-Conditioning Malaysia. Sdn.Bhd.
Cert. No.: MY-AR 1010

Certified to ISO 9001: 2008
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 01209Q20645R5L

Environmental Management System Certificate

Certified to ISO 14001: 2004
Panasonic Appliances Air-Conditioning Malaysia Sdn.Bhd.
Cert. No.: MY-ER0112

Certified to ISO 14001: 2004
Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd.
Registration Number: 02110E10562R4L

AQUAREA

DOMESTIC

COMMERCIAL

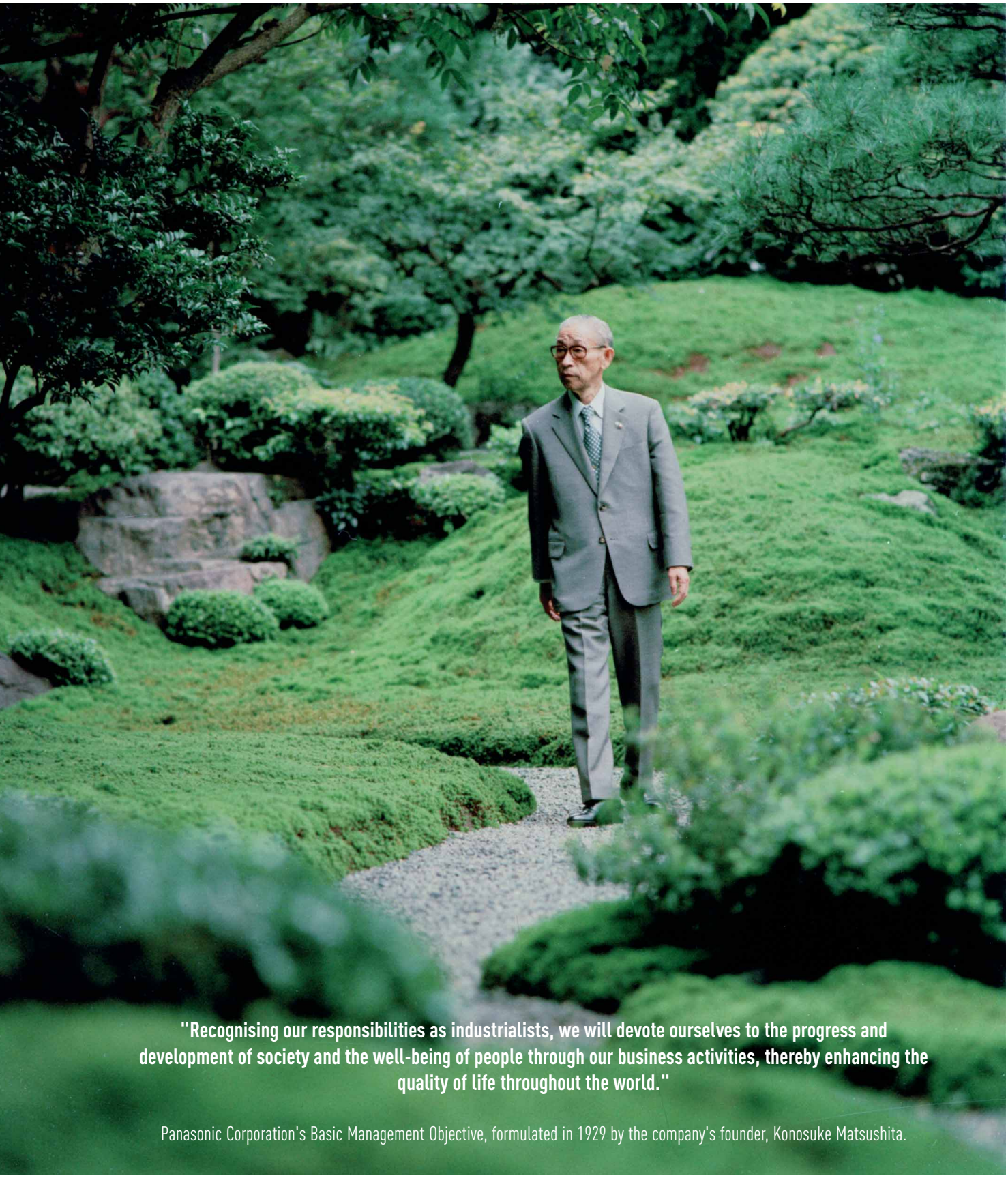
VRF SYSTEMS

CONTROL AND CONNECTIVITY

412 REFRIGERATION

420 DIMENSIONS

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.

Panasonic: celebrating two major milestones in 2018.

100th Anniversary

Panasonic Corporation, 100th anniversary

Look ahead to the "Future," keep taking on challenges. Starting back in 1918, Panasonic has constantly added to its guarantee for innovation, taking tomorrow's technologies and applying them to today's needs.
Always making "people" central to our activities, and thereby focusing on "people's lives," we will continue to provide better living for our customers. This is the unchanging commitment we at Panasonic have had over many years.
Now, we are aiming to expand our contribution to "better living" everywhere. This means that in the variety of spaces where our customers go about their lives, ranging from inside the home, the office, the store, the automobile, and the airplane, as well as in the town, we will provide not only single pieces of hardware, but also total solutions including software and services. We will pursue the concept of "A Better Life, A Better World," meeting the needs of each individual customer.
To that end, we will leverage the strengths that we at Panasonic have long developed in our consumer electronics business, together with the strengths of our business partners who have in-depth expertise in many areas, and we will work to combine these strengths by pursuing "Cross-Value Innovation." In this way, we will create new value. This is the new and challenging task we are now addressing.

1958
First room air conditioner launched for domestic installation.

Panasonic Heating and Cooling, 60th anniversary

Panasonic starts with a desire to create things of value. Sixty years ago, as hard work and dedication results in one innovative product after another, the new company took its first steps towards becoming the electronics giant of today. Heating and Cooling Solutions designed and produced by Panasonic since 1958.

60th Anniversary
heating & cooling solutions

1971
Starts production of absorption chillers.

1973
Panasonic launches the first highly efficient air-to-water heat pump in Japan.

1975
Panasonic becomes the first Japanese air conditioner manufacturer in Europe.

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

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

2008
Etherea new concept: high efficiency and high performances with a great design.

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

2012
New GHP units. Pansonic's gas-driven VRF Systems are ideal for projects where power restrictions apply.

2016
New VRF Systems ECOi EX with extraordinary energy-saving performance.

Looking ahead
The first Hybrid System with VRF and GHP in Europe.

A GLOBALLY TRUSTED AIR CONDITIONING BRAND

Committed to ambitious expansion plans, Panasonic starts production of air conditioning units in Plzen in the Czech Republic.

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.
Expanding globally, Panasonic provides superior international products transcending borders.

100% Panasonic: we control the process

The company is also a world leader in innovation as it has filed more than 91,539 patents to improve its customers' lives. Moreover, Panasonic is determined to remain at the forefront of its market. In all, the company has produced more than 200 million compressors and its products are manufactured in 294 plants which are located all over the world. You can be assured of the extremely high quality of Panasonic's heat pumps.
This wish to excel has made Panasonic a leading company in heating and turn-key air conditioning solutions. These offer maximum effectiveness, comply with all environmental standards and meet the most avant-garde construction requirements of our time.

Constantly Improving

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 & 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.

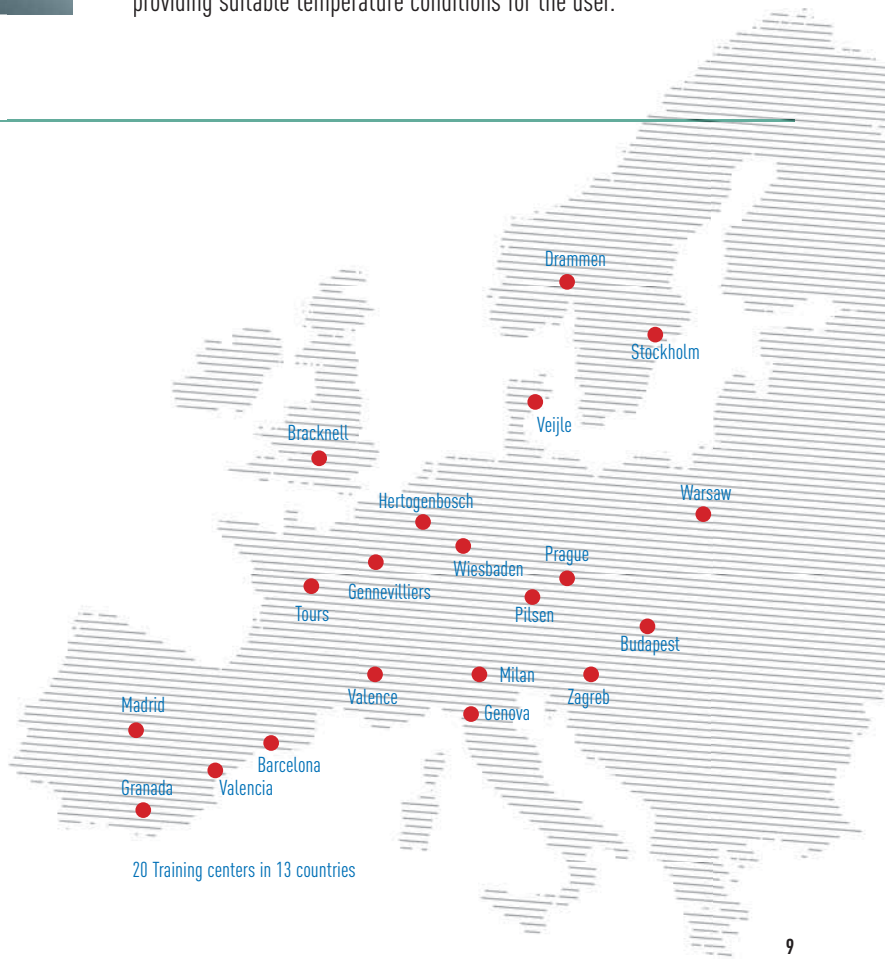
40 years of experienced organization in Europe

The partner for all Europe.
- Full European coverage and integrated organization
- One voice for European Agreements
- Availability and delivery anywhere in Europe
- Specification team to support project design throughout Europe
- European Service Network

Trained professionals.
- 20 Training centres in 13 countries
- More than 5000 professionals rained every year. Innovation and manufacture in Europe

R&D Department designs solutions for different European needs.
- New factory set up in Czech Republic
- Design software made in Europe for Europe

More than Cooling, Heating and Refrigeration Solutions.
- Security, communication solutions, advanced digital signage technology, access control solutions, displays...



20 Training centers in 13 countries

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).

PANASONIC: ECO & SMART IDEAS FOR A SUSTAINABLE LIFESTYLE

A better life, a better world.
Panasonic is creating a safe and
secure society with clean energy.

www.future-living-berlin.com

FUTURE LIVING®
BERLIN

Smart City Quarter Berlin

A European Lighthouse Project for Smart Home & Connected Life. Future Living® Berlin.

The building project Future Living® Berlin is a future model for interconnected urban district. Seit 2013 GSW Sigmaringen and Unternehmensgruppe Krebs are developing a model for future living – based on their long term expertise in real estate business and in cooperation with leading international technology companies. In spring 2019 first residents will move into the new quarter.

Future Living® Berlin is making use of the increasing possibility to interconnect products and services. Based on this chance smart and intelligent solutions for future living as well for the single apartments as for the quarter are developed. These solutions are enabling residents to use online services in their intelligent housing environment. Based on these opportunities a concept of living for daily routine is developed offering residents comfort, security and time saving.

A special enhancement of Future Living® Berlin is the pre-configuration for different apartments by experts that enable residents to move into a "ready to go" apartment and be directly supported in their daily routines in an intelligent way. By using one central app or native language single apartments can be steered, adopted and individually expanded by future smart products.

Cross-linkage of products and technologies provides all residents with a simple access for an exclusive community care sharing in the residential quarter which is, of course, based on e-mobility and part of an holistic energy concept containing photo-voltaic systems and battery storage. Cooperating with leading technology companies as project partners a continuous and technological progression is guaranteed in the future. Including residents and learning from their usage data participating partner a ready and enabled to improve the offered solutions pointedly further more.

Beside Future Living® Homes there is Future Living® Dialog offering extensive information and use cases for the general public. The project with it's innovative aims is also representing for sustainability and social solutions. Affordable rental and ancillary rental costs result in apartments available for many target groups.

Future Living® Berlin is aiming for conceptional and architectural answers for some of the big challenges of our society as demographical changes, energy turnaround and changing mobility manners. With it's comprehensive solution approach it is unique in Europe.

Demographic change, energy revolution and mobility change. We offer solutions for the challenges of our time.

PROJECTS & CASE STUDIES OF PANASONIC HEATING AND COOLING SOLUTIONS

New Hotel Monument 5*GL is located in an 1896 palace.
Barcelona, Spain. ECOi and E-Control

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.

Passive house in Tychowo near Stargard Szczecinski, Poland. **Aquarea**

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

New IKEA "Click and Collect" store in city centre. Birmingham, UK. **ECOi - ECO G**

21 of the 5-6 bedroom luxury homes in Straffan Co.Kildare, Ireland. **Aquarea**

Andalucia Technology Park. Offices of high energetic efficiency. Spain. **ECOi**

The latest glamorous Burger & Lobster restaurant in Bath. UK. **Aquarea**

Madrid's new hotel Only You Atocha. The hotel has 206 rooms distributed over seven floors. **ECO G**

Lo + Fit Galapagar Gym. Madrid, Spain. VRF, **PACi, AHU**

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

The Hat, a modern hostel in Madrid. Spain. **ECO G**

Zalando's solution for its warehouse office conversion at Grand Canal Quay, Dublin. **ECOi**

Lock Building, offices for media giant Viacom. Camden, London, UK. **ECOi**

To find out more: www.aircon.panasonic.eu

PRO CLUB. THE PROFESSIONAL WEBSITE OF PANASONIC

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 smart phone!

- Print catalogues with your logo and your address
- Download the latest Aquarea designer to define your system and select the good Aquarea Heat pump.
- Calculate the specs of the Aquarea Air fan coil based on the parameters of your system
- Get Documents of conformity and all other documents you may need
- Download all the service manuals, end user manuals and installation manuals
- Know what to do with error codes
- Find out about the latest news first
- Register for training

Highlighted Features.

- Extensive library of resources
- Tools & Apps for end users. Check availability in your country:
  - My Home: sizing wizard for domestic and Air to Water range
  - My Project: Contact form to Panasonic team
  - iFinder: Lists of installers displayed by postcode
- Special offers & promotions
- Training PRO Academy
- Catalogues (Commercial documentation)
- Marketing (Images in high resolution, advertisements, deco guidelines)
- Tools (Professional software, sizing tools...)
- Installers customize leaflets in PDF format with their logo & contact details
- Energy label generator. Download energy labels of any device in PDF format
- Heating calculator
- Noise calculator for outdoor unit
- Aquarea Radiator calculator
- Error Code Search by error code or unit ref. Compatible with smartphone and tablet computer
- Revit / CAD Images / Spec texts
- Access to Pananet, online library of technical documentation
- Download Documents of Conformity and other Certifications
- Commissioning online

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

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

Easy download Panasonic service documentation and brochures

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

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

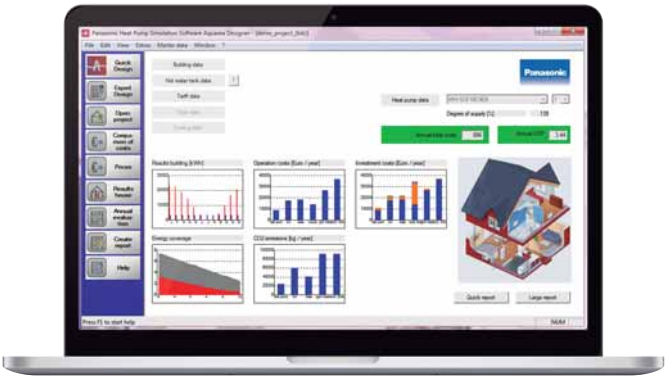
Error Code on your smartphone and your PC: Search by error code or model reference. Online version + downloadable version for offline use

AQUAREA DESIGNER

This program allows HVAC designers, installers and distributors to identify the correct heat pump for a particular application from Panasonic's Aquarea range, calculate the savings compared to other heat sources and very quickly calculate CO_2 emissions.
Using Panasonic's Aquarea Designer, projects can be developed simply and easily, by either using the Quick Design or Expert Design options. Each allows the user to build up the project data in a simple step-by-step process and choose to output reports (in either Quick or Large formats) as HTML files or as print-outs. To create these useful reports, project data is input, including:

- Heated area
- Heating requirement
- Heating flow and return temperatures
- Climate data (from a simple drop-down menu) including outdoor temperature
- Type of hot water tank, storage capacity and hot water target temperature

Panasonic provides bespoke software helping system designers, installers and dealers to very quickly design and size systems, create wiring diagrams and issue bills of quantities at the push of a button.



Aquarea Designer also means saving

Aquarea Designer will calculate the project's energy costs in terms of hot water, heating and pumping. It will show the equipment running times and calculate the COP (coefficient of performance). It then allows the designer to show clients a comparison with other equipment options such as heating by conventional gas-fired boilers, oil systems, wood, standard electric heating and electric night storage heaters. This compares running costs, initial investment costs and maintenance costs. The comparison can also be made for CO_2 emissions and savings.

The Panasonic PRO Academy

Panasonic takes its responsibility to its distributors, specifiers and installers seriously and has developed a comprehensive Training Programme. The Panasonic Pro-Academy encompasses the traditional hands-on approach to teaching.
New training courses cover three levels. Design, installation, and commissioning & trouble-shooting. Training courses include:

- Domestic applications Air to Air
- Aquarea air source heat pumps
- VRF ECOi

The courses are offered on site at Panasonic's premises across Europe. The Training Centres display Panasonic's latest product range and give delegates an opportunity to get a hands-on experience with the latest controllers, indoor and outdoor units from the VRF ECOi, Etherea, GHP and Aquarea ranges.

WELCOME TO AQUAREA AIR TO WATER HEAT PUMP

Aquarea's Air to Water Heat Pump for residential and commercial applications. Offering capacities from 3kW all the way through to 16kW, 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.

HIGHLIGHTED FEATURES

GOOD
DESIGN
AWARD
2017

The Good Design Award is among the most prestigious awards for product design excellence. Winning this award has underscored the outstanding performance and energy savings of the Panasonic indoor units All in One and Bi-bloc. In addition, these units' clean, tidy design and functionality make the Aquarea line the ideal system for household applications.

Panasonic's Aquarea range of Heat Pumps deliver major energy savings thanks to its incredible efficiency even at -20°C. The Panasonic Aquarea Heat Pumps are designed and produced by Panasonic and not by other companies.

AQUAREA

The Aquarea Heat Pump is a system that generates the perfect temperature and produces hot water, in an easy, cheap and environmentally conscious way, by transferring heat instead of generating it. It is among the Technologies listed on the International Energy Agency (IEA) Blue Map, whose goal is to reduce CO_2 emissions to half the levels emitted in 2005, by the year 2050.
Aquarea is part of a new generation of heating solutions that use a renewable, free energy source (the air) to heat or cool the home and to produce hot water.

Energy saving

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

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

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

Better efficiency & Value for Domestic Hot Water.
Energy efficiency class up to A in a scale from A to G.

Inverter Plus.
Panasonic Inverter Plus compressors are designed to achieve outstanding level of performance.

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

High Performance

Aquarea High Performance for low consumption houses.
From 3 to 16kW. 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 3kW All in One.

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

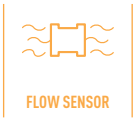
Aquarea HT ideal for retrofit. From 9 to 12kW.
For a house with traditional high-temperature radiators, the Aquarea HT solution is the most appropriate, can work in output water temperatures of 65°C even at outdoor temperatures as low as -20°C.

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

Down to -20°C in heating mode.
The Heat Pumps work in Heat Pump mode with an outdoor temperature is as low as -20°C.

Water filter with magnet.
Easy access & fast clip technology for J Generation. Water filter only for H Generation.

Water stop valve.
Included on J and H Generation.



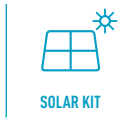
Water flow sensor.
Included on J and H Generation.

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

SG Ready: Thanks to Aquarea HPM, Aquarea range (Bi-bloc and Mono-bloc) is holding the SG Ready Label (Smart Grid Ready Label), given by Bundesverband Wärmepumpe (German Heat Pump Association). This Label shows the real capacity of Aquarea to be connected in an intelligent grid control.
MCS Certificate number: MCS HP0086.*

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 a user-friendly remote controller of air conditioning or Heat Pump units from everywhere, using a simple Android or iOS smartphone, tablet or PC via internet.

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

Warning and Water Quality Directive and Groundwater:
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.

* 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.

HOW DO YOU GET HEATING AND DOMESTIC HOT WATER FROM AIR?

Aquarea Air to Water Heat Pump, outstanding seasonal efficiency. At the forefront of energy innovation, Aquarea is resolutely positioned as a "green" heating and air conditioning solution.

Introducing the Panasonic Aquarea – Air Source Heat Pump

An Aquarea air source Heat Pump circulates fresh air and passes it over refrigerant-filled coils (like a refrigerator). The captured heat is automatically transferred to water, which is then ready for use in your heating system and for supplying all of your domestic hot water needs. Panasonic's latest technology offers you a sustainable alternative to oil, LPG and electric heating systems.

"Green" High-efficiency heating with Panasonic's Air to Water Heat Pump Systems

Panasonic's Aquarea Heat Pump provides savings of up to 80% on heating expenses compared to electrical heaters. For example, the Aquarea 3kW system has a COP of 5,33 (KIT-ADC03JE5). This is 5,33 more than a conventional electrical heating system which has a maximum COP of 1. This is equivalent to an 80%* saving. Consumption can be further reduced by connecting photovoltaic solar panels to the Aquarea system.

Why Air Source Heat Pumps?

- Heating, cooling and domestic hot water produced with a single system
- Best in terms of efficiency: even at extreme outdoor temperatures
- Environmentally advanced: can be connected to solar panels
- Technology that adapts to each home: extreme low temp, high temperature, whatever the climate
- Wide range of solutions: floor heating, radiators and fan coils
- Reduced heating bills and maintenance costs
- Reduce your carbon footprint
- Simple to integrate into existing heating systems
- Energy efficient alternative to oil, LPG and electric systems
- Ideal for properties without access to mains gas
- Externally positioned saving valuable internal living space

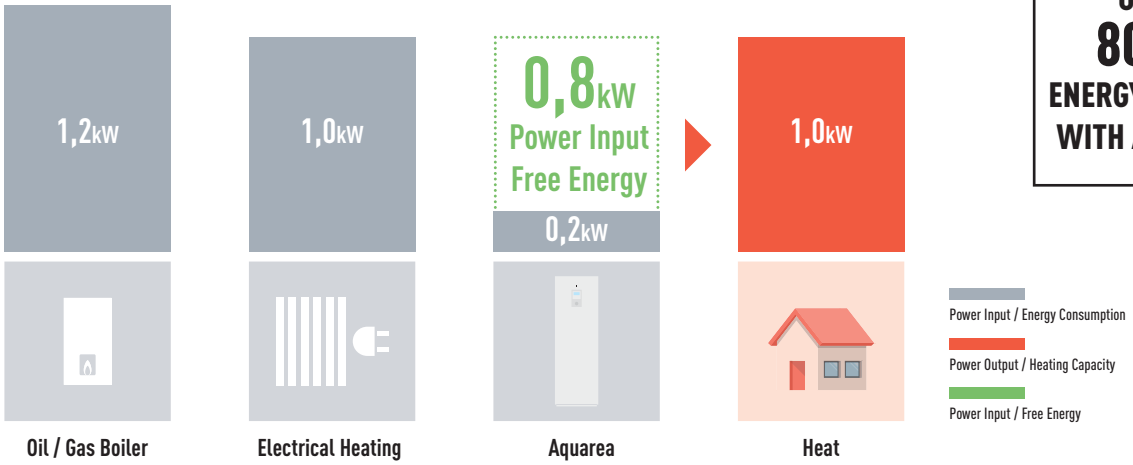
Aquarea Air to Water Heat Pump: An innovative low energy solution, designed to create great comfort at home even at extreme outdoor temperatures. Providing heat to radiators, underfloor heating, Fan Coils as well as producing domestic hot water.

Heat Pump: Up to 80% of required heat energy taken from ambient air

Based on Air to Water heat pump technology, Aquarea is highly efficient. It captures heat energy from the ambient air and transfers it to heat the water needed to warm your home and domestic hot water - it can even cool your home as required. Compared to other technologies, up to 80% of the heat energy required is taken from the ambient air - even in extremely low temperatures.

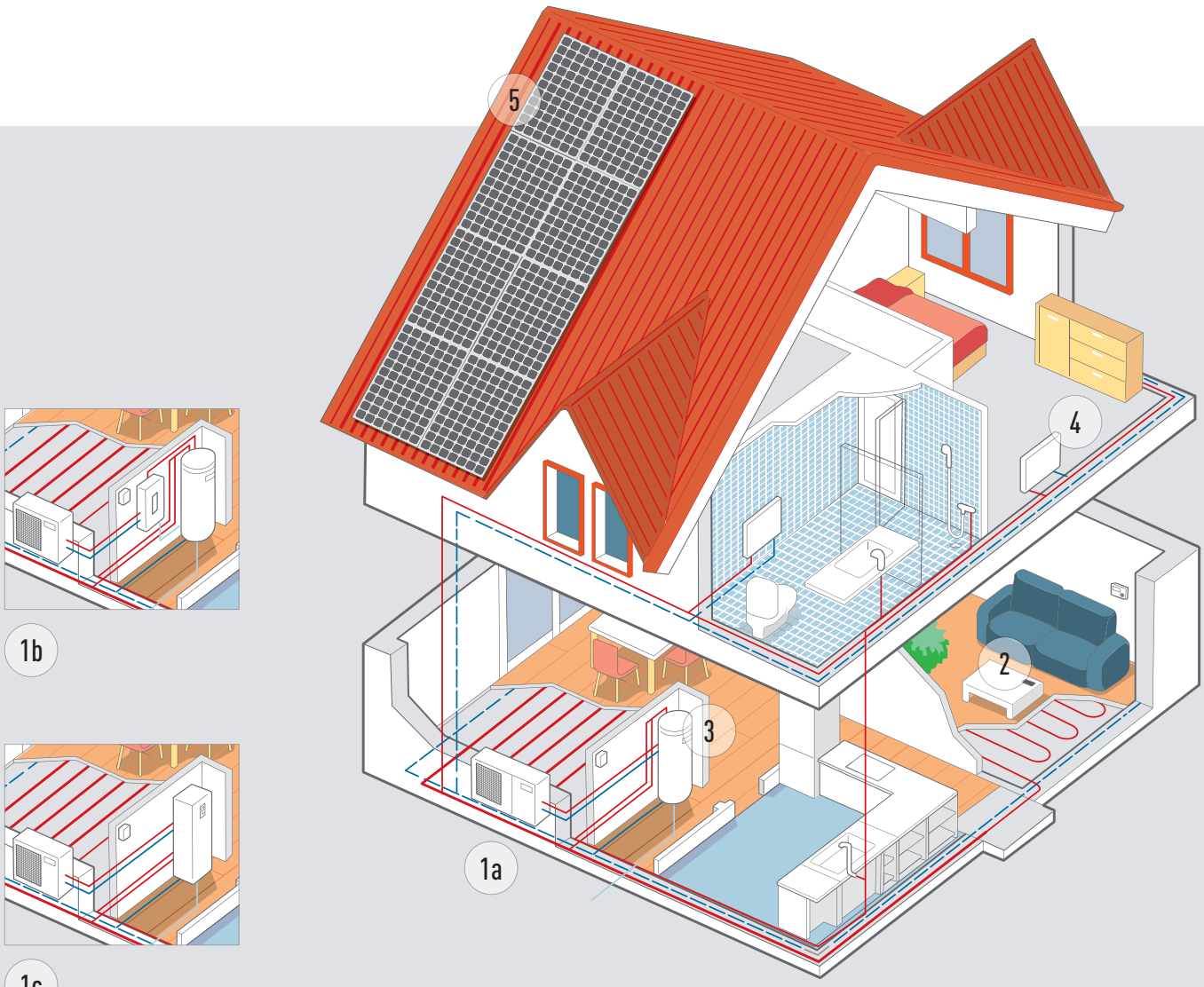
UP TO 80%* ENERGY SAVINGS WITH AQUAREA

Energy consumption comparison.



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

AQUAREA HEAT PUMP LINE-UP



1a

Mono-bloc system.

1b

Bi-bloc system.

1c

All in One system.

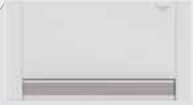
2

Control through smart phone, tablet or computer (optional).

3

Super High Efficiency cylinder (optional).

4



High efficient radiators for heating and cooling (optional).

4

New versatile and efficient fan coil (optional).

5

Heat Pump + HIT Photovoltaic solar panel (optional).

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

Aquarea High Performance. For new installations and low consumption homes.
Outstanding efficiency and energy savings with minimised CO_2 emissions and minimum space. Improved performance with COP's up to 5,33.

Aquarea T-CAP. For extremely low temperatures, refurbishment and innovation.
Ideal to ensure that the heating capacity is maintained even at very low temperatures. This line-up is able to maintain the Heat Pump output capacity until -20°C outdoor temperature without the help of an electrical booster heater.

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

DHW Stand Alone.
- A+ Highly efficient wall mounted Domestic Hot Water Heat Pump
- Provides reduced power consumption by 75% compared with traditional electric water heater

Aquarea High Performance	Aquarea T-CAP	Aquarea HT	DHW Stand Alone
 Mono-bloc Bi-bloc All in One	 Mono-bloc Bi-bloc All in One	 Mono-bloc Bi-bloc	
Heating - Cooling - DHW	Heating - Cooling - DHW	Heating - DHW	Only DHW
Single Phase from 3 to 16kW Three Phase from 9 to 16kW	Single Phase from 9 to 12kW Three Phase from 9 to 16kW	Single Phase from 9 to 12kW Three Phase from 9 to 12kW	100 and 150L
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	A++ / A++ Heating 35°C / 55°C	A++ / A++ Heating 35°C / 55°C	A+ DHW 50 ~ 62°C
Outdoor ambient temperature limit. Operation			
-20°C	-28°C	-20°C	-5°C
Outdoor ambient temperature limit. Constant capacity (35°C)			
-7°C (not for all units)	-20°C [1]	-15°C	–
Supply temperature for heating. Max. / Heat pump only			
75°C [2] / 55°C [3] (or 60°C for Aquarea J Generation)	75°C [2] / 60°C [3]	75°C [2] / 65°C	–
Control and connectivity			
Smart Grid Ready [4] Wireless LAN Ready	Smart Grid Ready [4] Wireless LAN Ready	Smart Grid Ready [4] Wireless LAN Ready	–
Range			
Bi-bloc from 3 to 16kW Mono-bloc from 5 to 16kW All in One from 3 to 16kW (185L)	Bi-bloc from 9 to 16kW Mono-bloc from 9 to 16kW All in One from 9 to 16kW (185L)	Bi-bloc from 9 to 12kW Mono-bloc from 9 to 12kW	100 and 150L

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

NEW R32 AQUAREA J GENERATION

R32
NEW REFRIGERANT GAS
Panasonic

Much more than just R32 Aquarea J Generation Available in 3/5/7/9kW All in One and Bi-bloc

Keeping Aquarea essence.
- Free space on the top of All in One
- A+++ Ready
- Service Cloud by accessory

What is new?

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

2. More flexibility in design.
- 60°C water temperature
- Piping length improved: 7/9kW: 50/30m - 3/5kW: 25/20m
- Chiller function cooling down to 10°C outdoor temperature

3. New smart functions
- SG ready / PV function for cooling
- 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.

4. 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.

1. Installation innovation.
- Extremely easy to install, practically the same as R410A. (Just remember to verify that the pressure gauge and vacuum pump are compatible with R32)
- This refrigerant is 100% pure, which makes it easier to recycle and reuse

2. Environmental innovation.
- Zero impact on the ozone layer
- 75% less impact on global warming

3. Economic and energy consumption innovation.
- Lower cost and greater savings
- Higher energy efficiency than R410A

AQUAREA H GENERATION A+++*

(Applicable from 26 September 2019).

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

Better Efficiency & Value A++/A++

- A++ for medium temperature applications (radiators. ErP 55°C)
- A++ for low temperature applications (floor heating. ErP 35°C)
- 3 & 5 kW models will meet the energy efficiency class A+++ as applicable from 26 September 2019

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 (T-CAP only) lower limit. The compact design of the outdoor unit makes installation very easy.

Aquarea H Generation.
Bi-bloc or All in One system

All in One, compact and easy to install

Space-saving solution ideal for installations with restricted space. In addition, Panasonic has developed bivalent and cascade systems that give the user control of two heating zones.
The Aquarea All in One belongs to the new generation of Panasonic heat pumps for heating, cooling and providing domestic hot water in the home. Aquarea T-CAP is one of the newest heat pumps on the market, maintaining 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 stable operation.

Improved square design with white goods finish. Modern remote controller can be installed up to 50m from the indoor unit.

Installer Friendly:

- Electrical connections is now located on front side
- Easy access to parts and easy to install by having all pipings in a row
- Remote controller with full dotted wide screen and new functions
- Can connect additional room temperature sensor, solar kit, 2 zones control, swimming pool and circulating pump (need optional PCB: CZ-NS4P)

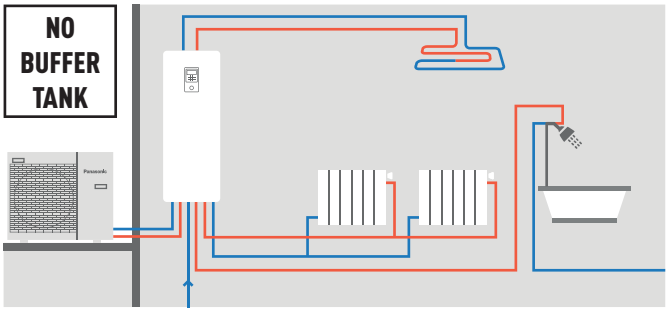
Compact and free space. More value in 1 compact space:

- Line strainer (easy access & fast clip technology)
- Isolation valves
- Electronic flow sensor
- 3 way valve ready (optional CZ-NV1 in internal space)

All in One with 2 zones control.

- 2 heating circuits, with 2 different water temperatures
- 2 water pumps and 2 water filters
- Floor heating water control with mixing valve

2 Zones kit included with control of 2 water temperatures (underfloor with water at 35°C and radiators with water at 45°C).

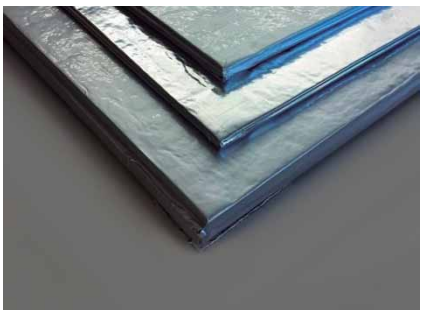


All in One with Vacuum Insulation Panel (VIP)

Panasonic U-Vacua™ is a high performance vacuum insulation panel (VIP) with very low thermal conductivity that performs about 20 times better than standard urethane foam.

Features:

- Highly versatile (R-60 per inch)
- High insulation performance for energy savings
- High heat resistance core material
- High recyclability
- Environmentally friendly: made with 75% recycled glass
- Ideal for spacious yet compact appliances



AQUAREA HIGH PERFORMANCE

For new installations and low consumption homes.
Outstanding efficiency and energy savings with minimised CO_2 emissions and minimum space.

High Performance helps you to meet strict building requirements and reduce building costs

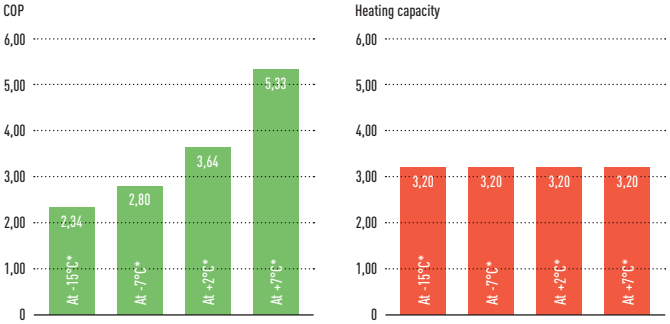
The heating and production of domestic hot water have a very important impact on the energy consumption of a house. Efficient Panasonic Heat Pumps can help to significantly reduce the energy consumption of the house.

Key points of the line-up

- Improved performance with COP's up to 5,33
- Reduced energy consumption through our circulating pump with energy efficiency class "A"
- Remote controller functions added: Auto mode, holiday mode, power consumption display

Panasonic has designed the Aquarea Bi-bloc and Mono-bloc Heat Pumps for homes which have high performance requirements. Whatever the weather, Aquarea can work even at -20°C! The Aquarea is easy to install on new or existing installations, in all types of properties.

High Performance Pumps are also Highly Efficient (take the KIT-ADC03JE5 for example)

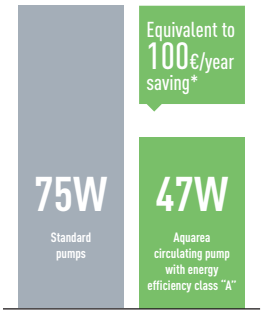


* Heating water at 35°C.

Standard circulating pumps vs our circulating pump with energy efficiency class "A"

Comparison of energy consumption of circulation pumps. Circulating pump with energy efficiency class "A" with Dynamic flow control for 5kW Mono-bloc.

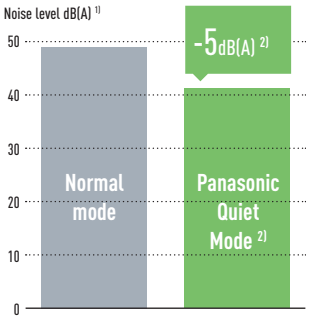
* Based on German market: Assuming Standard pump may vary depending on consumption and energy cost.



Panasonic created a night mode to reduce the noise when it's needed

Special attention has been given to noise levels

1) Sound pressure measured at 1m from the outdoor unit and at 1,5m height.
2) At standard condition working at heating capacity at +7°C (heating water at 35°C) for two fans outdoor units. For one fan outdoor units, night mode reduction is 3dB(A).



AQUAREA T-CAP

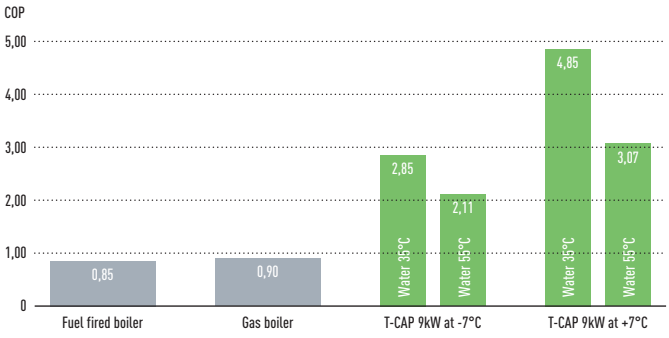
For retrofit and new builds, install the T-CAP heat pump where the kW output capacity is demanding.

Ensure the heating capacity is maintained even at low temperatures

The whole T-CAP line-up can replace old gas or oil boilers, and in a new application with underfloor heating, radiators or even fan-coil heaters, the whole T-CAP line-up is an ideal replacement for old gas/oil boilers. All Aquarea heat pumps can also be connected to a solar thermal or PV system in order to increase efficiency and minimise the impact on the ecosystem.

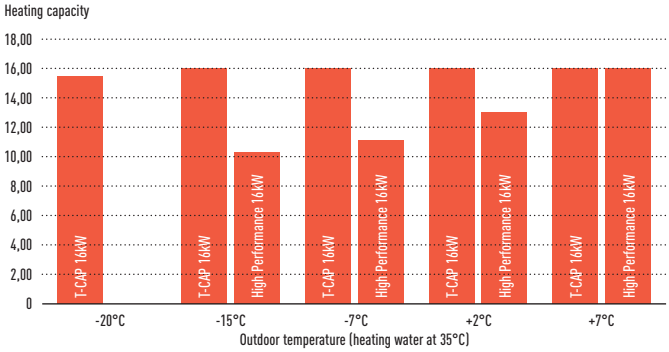
Higher efficiency compared to other heating systems

Panasonic Heat Pumps have a maximum COP of 4,85 at +7°C which makes them much more efficient than others heating systems.



More Energy saving

T-CAP is also able to provide extremely high efficiencies, whatever the outside or the water temperature.



Key points of the line-up

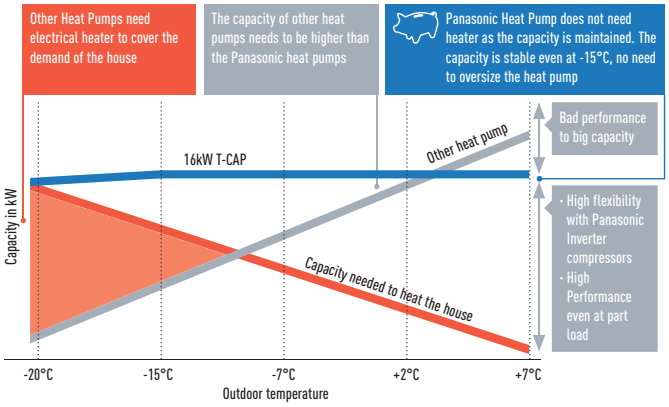
- Ability to maintain the heat pump kW [1] output capacity until -20°C outdoor temperature without the help of an electrical booster heater
- High heating capacity even at low ambient temperatures
- Additional functions: Auto and holiday mode, boost, drying concrete and power consumption display
- Backup heater capacity can be selected depending on the model (3/6/9kW)
- Cooling mode activation possible via software [2]

1) At 35°C flow. 2) This activation can only be done by service partner or installer.

With a Panasonic heat pump, there is no need to oversize in order to reach the required capacity at low temperatures

- Panasonic's unique software and inverter technology for low consumption houses, allows the heat pump to produce heating water at 35°C. When only a little heating is required due to warmer outside air temperature
- All Aquarea heat pump's have a 10L expansion vessel fitted internally
- Aquarea heat pump's has an inverter compressor which can regulate the output capacity depending on demand
- Twin dice system included within the system (Twin fan outdoor unit)
- 3/6/9kW electrical heater is included in the heat pump (depending on unit)
- Panasonic heat pumps can work in outdoor temperatures as low as -28°C and guarantee the capacity without backup heating down to -20°C [1]
- Panasonic heat pumps are very quiet and have a noise reduction setting for night mode. See noise calculator on www.panasonicproclub.com

1) 35°C flow temperature.



New Aquarea Super Quiet T-CAP Bi-bloc

The special outdoor chassis notably reduces operation sound by up to 11dB (when setting at quiet mode level 2* WH-UQ12HE8).

* Heating capacity may drop.

AQUAREA HT

Aquarea HT can produce a flow temperature of 65°C making it the ideal high efficiency replacement for oil/gas boilers connected to high temperature radiators.

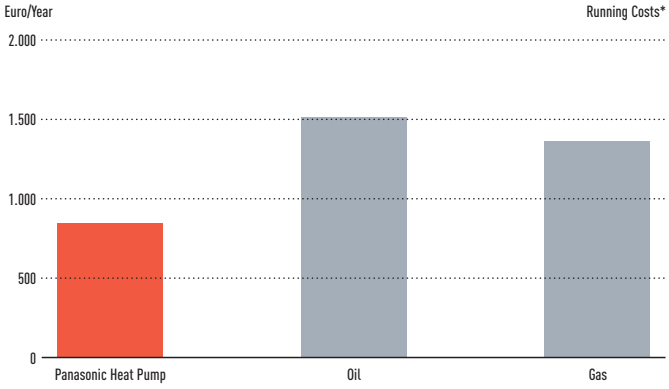
Green energy source works with existing radiators

The Aquarea HT (9kW & 12kW) allows you to replace your traditional heating source (such as oil or gas) while keeping the existing old style radiators for minimum disruption to the home.

Aquarea HT: High savings and low CO_2

The benefit of replacing a traditional heating systems with Aquarea HT are clear: Reduced CO_2 emissions, future proofing running costs. Panasonic Heat Pumps are much more efficient than fossil fueled boilers and help you to reach your house energy targets.

Yearly savings with Aquarea HT

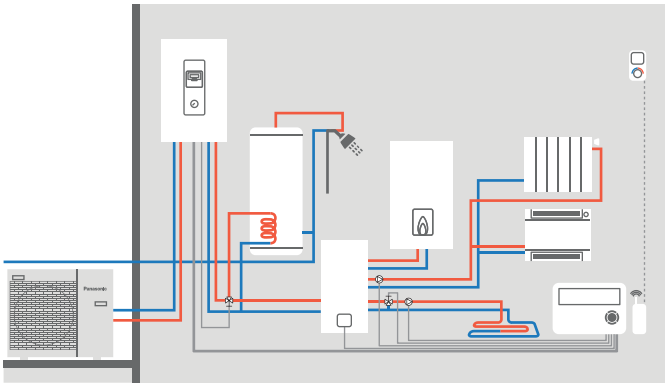


* For a 170m² house and 40 W/m² energy losses in central Europe Conditions, outside minimum conditions -10°C.

Smart Bivalent operation

Using the Aquarea bivalent controller, it is now possible to combine different heat sources (boiler with heat pump) allowing to set up the system to operate in the most efficient way.

Heat Pump + Boiler with DHW cylinder controlled by the smart bivalent controller.

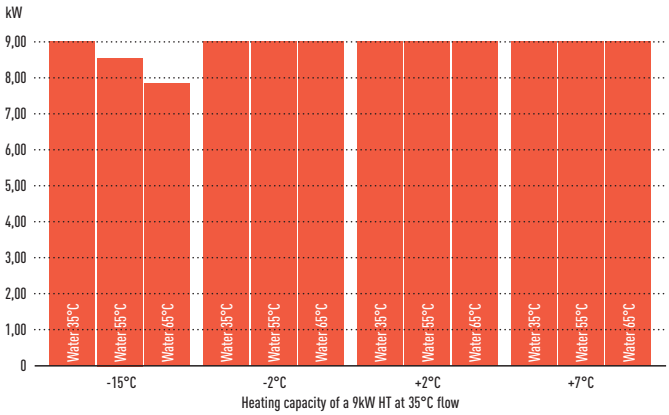


Easy installation

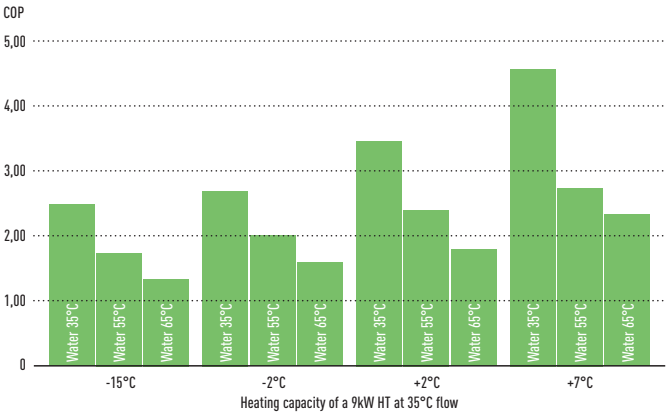
Air source Heat Pumps are simple to install. They do not require a chimney, gas connection or oil/lpg tank. All that is required is a power supply connection.

Panasonic Aquarea HT is highly efficient even at low outdoor temperatures

Heating Capacity of a 9kW HT (WH-SHF09F3E5).



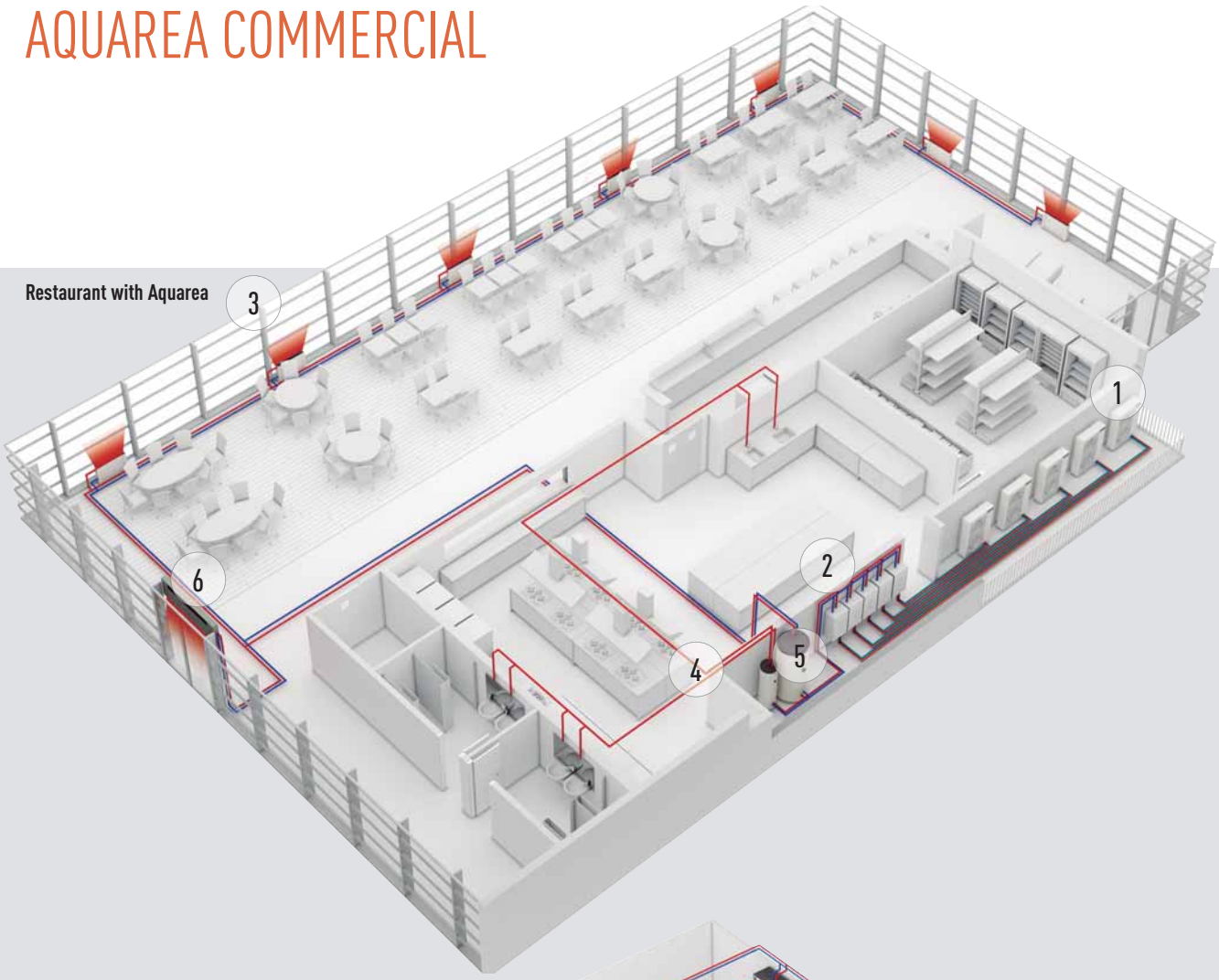
COP (Coefficient of Performance) of a 9kW HT (WH-MHF09G3E5).



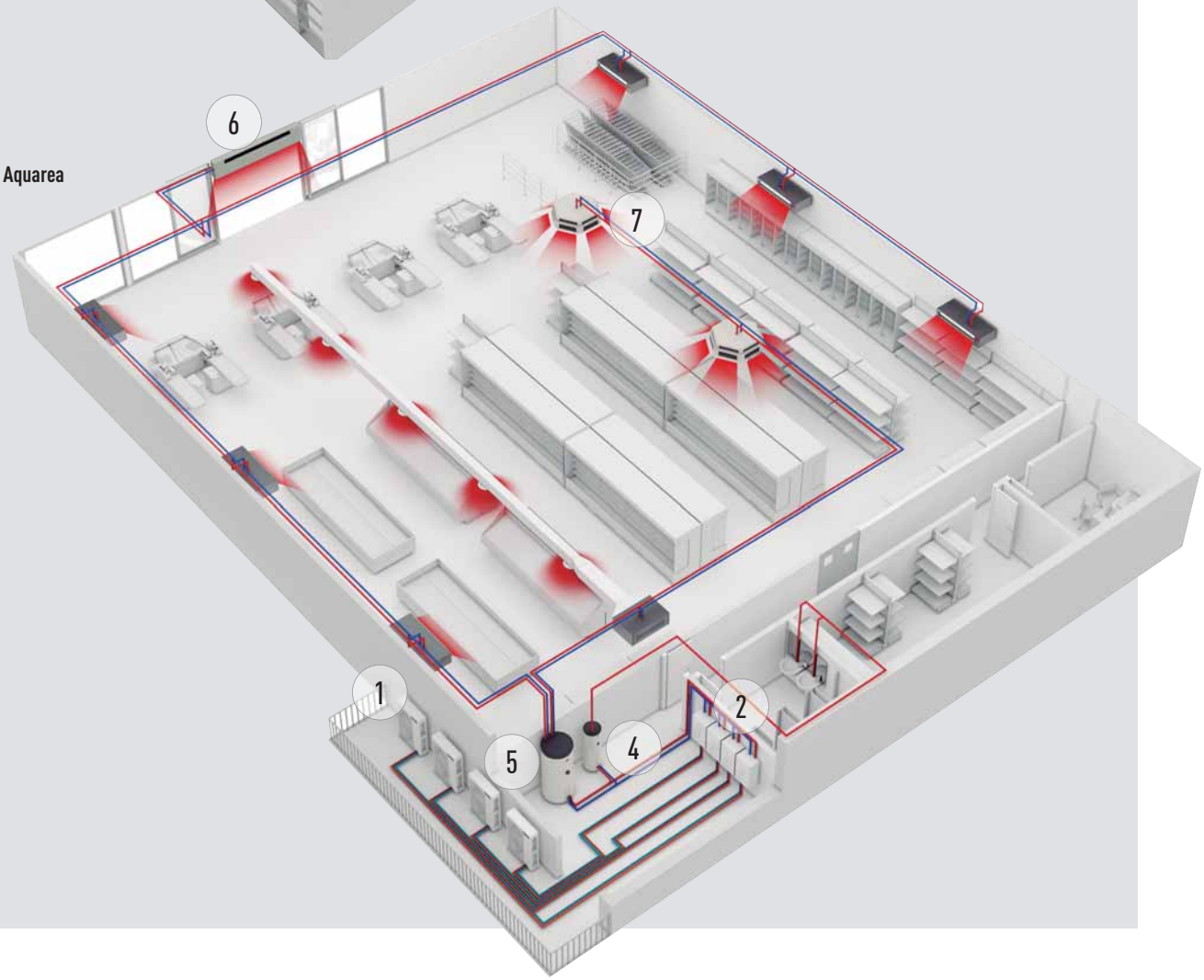
The Aquarea HT range is easy to install and is available with nominal heat outputs of 9kW or 12kW. These can be either single or three phase, in both Bi-bloc and Mono-bloc versions.

AQUAREA COMMERCIAL

Restaurant with Aquarea



Supermarket with Aquarea



Solutions for best savings. Efficient Panasonic Heat Pumps can help to significantly reduce the energy consumption of your business. Recent improvements to air source Heat Pump technology, including compact single unit systems, can provide an ideal housing and commercial solution.

They offer space saving, energy-efficient heating and can be easily adapted for installation in flats, houses and commercial premises. Businesses producing heat, such as restaurants, installing an Aquarea Heat Pump system can also use this wasted heat to improve energy efficiency further.

Restaurant with Aquarea

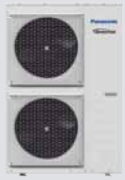
If you are looking for savings for your business, Aquarea is the right choice! Ideal for heating, cooling and for production of big quantities of hot water at 65°C, Aquarea have a quick return on investment and a low carbon footprint.

Key points:
- Produce hot water efficiency
- Fast return of investment
- Easy control

Supermarket with Aquarea

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.

Can be integrated in the water system.
Easy connection to existing system
- Fan Coils
- Floor Heating
- 4 way and 2 way convectors
- Domestic hot water tanks
- High efficiency
- Very good part load management

1


Aquarea T-CAP.
Heat Pump 16kW on cascade mode.

2


High Efficiency Aquarea Hydrokit.

3


High efficiency Aquarea Air radiators.
32% more efficient than standard radiators.

3


New versatile and efficient fan coils.
Innovation for an optimum comfort.

4

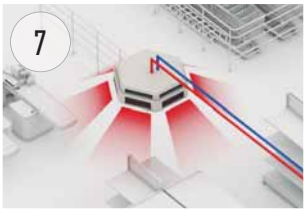

Super high efficiency Tanks.
From 200L to 500L for domestic hot water.

5


Buffer Tank of 1000L.

6


Air Curtain with DX Coil.
Designed for smooth operation and efficient performance.

7


Convectors.

Case study: Carluccio's restaurant

On 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. Previous restaurants in the chain had been fitted with a more traditional 12kW boiler system.
FWP installed a 12kW 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. With a high coefficient of performance (COP), the system returns an impressive 4kW of energy, for every kW used. This makes the Aquarea far more cost effective than a conventional heating system. To heat the water for their Leeds restaurant cost £3782 whilst at the Meadowhall site the comparable cost was just £951. These sizeable savings mean the site will see a return on investment in approximately 2 years.

AQUAREA SMART AND SERVICE CLOUD

1 AQUAREA SMART CLOUD FOR END USERS

* User interface image may change without notification.

Easy and powerful energy management

The Aquarea Smart Cloud is much more than a simple thermostat for switching a heating device ON or OFF. It is a powerful and intuitive service for remotely controlling the full range of heating and hot water functions, including monitoring energy consumption.

How does it works?

Connect Aquarea J and H Generation system to the cloud using wireless LAN or a wired LAN Network. User connects to the Cloud portal to remotely operate all unit functions and can also permit partners to access customised functions for remote maintenance and monitoring. See demo: https://aquarea.aircon.panasonic.eu

Requirements

1. Aquarea J and 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. Increase efficiency and resources management, operating costs savings and owner satisfaction. The new Aquarea Smart Cloud services are focused on enabling full remote maintenance of the Aquarea system. This allow 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 — House Temp 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.

1. LAN
2. Aquarea connection by CN-CNT

The most advanced heating control for today and for the future.
Aquarea connect to Cloud with CZ-TAW1, opening 2 different platforms.

2 AQUAREA SERVICE CLOUD FOR INSTALLERS / MAINTENANCE

The real remote maintenance made simple

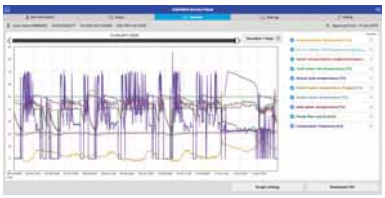
The Aquarea Service Cloud allows to installers to take care remotely of their customers heating systems. Saving time, money and shortening response time increasing customer satisfaction.

Advanced functions for remote maintenance with professional screens:

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

Home page.
All users connected status at a glance. 2 view options: Map view or list view only.

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



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

Settings tag.
Most settings of system remotely including user and installer settings.

Activation Aquarea Service Cloud

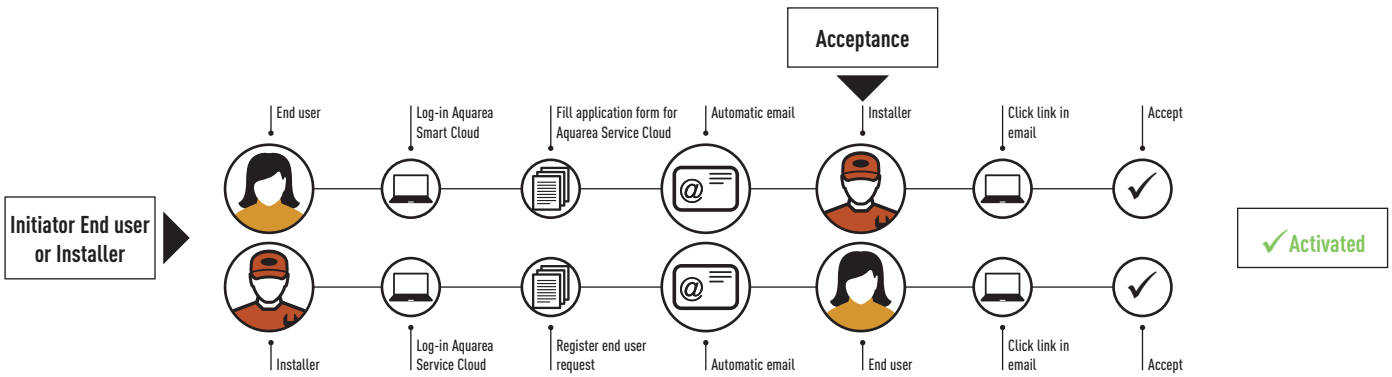
Requirements.

Hardware and connection	End user registration	Installer / maintenance registration
J and 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 unit to installer/maintenance.

Process can be initiated either both by end user or by installer.
Whenever end user can select/change level of control is giving to installer (4 levels).

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



CONTROL AND CONNECTIVITY

Home connectivity and Home Managements Systems integration is becoming more and more popular. These integrations helps to control all house devices from centralised platform and helps to optimise the operation and running costs. Panasonic interfaces are made to work with both KNX and Modbus, the most populars protocols. Also for non integrated control, Panasonic developed a simple connection to Wireless LAN, with this End User can control remotely its own heat pump from wherever.

Connectivity. Control by BMS

Great flexibility for integration into your KNX / Modbus projects allows fully bi-directional monitoring and control of all the functioning parameters.

Reference	KNX PAW-AW-KNX-1i / PAW-AW-KNX-H	Modbus® PAW-AW-MBS-1 / PAW-AW-MBS-H
Small dimensions	✔	✔
Quick installation and possibility of hidden installation	✔	✔
External power not required	✔	✔
Direct connection to the unit	✔	✔
Control and monitoring, from sensors or gateways, of the internal variables of the indoor unit and error codes and indication	✔ Fully interoperable	
Control and monitoring, from any BMS or PLC Modbus Master, of internal variables of the indoor unit and error codes and indication		✔ Fully interoperable
Aquarea unit can be controlled simultaneously by its remote controller and by KNX / Modbus Master devices	✔	✔

These interfaces allows full monitoring and control, bi-directional, of all the functioning parameters of Aquarea control from KNX / Modbus installations.

Model name	Interface
PAW-AW-KNX-H	KNX interface for H Generation
PAW-AW-MBS-H	Modbus interface for H Generation
PAW-AW-KNX-1i	KNX interface (not compatible with J and H Generation)
PAW-AW-MBS-1	Modbus interface (not compatible with J and H Generation)
PA-AW-WIFI-1TE	Intenet control WLAN connection (not compatible with J and H Generation)
CZ-TAW1	Aquarea Smart Cloud, H Generation Internet control through wireless or wired LAN

Advanced Controller for J and H Generation

Improved visibility & Easy operation with large full dot LCD display and large touch panel!
Remote controller can be removed from indoor unit and installed in living room.

Key Points:
Full large dot LCD screen (3,5 inch): High resolution screen with backlight, easy set up, check conditions easily, flat, innovative design, temperature sensor included in controller.

Function for installer:
- Floor heating concrete dry mode: Allows for a slow increase in temperature of underfloor heating via software.
- Heating and Cooling Mode: Authorised PRO Partners can enable the cooling mode through a special operation via the remote controller on site
- Installer can select delta T. Water pump speed is selected automatically due to this setting

Function for End User:
- Auto Mode: Automatically changes from heating to cooling depending on outdoor temperature.
- Energy Consumption Display: Displays the Heat Pump's energy consumption, split by heating, cooling and domestic hot water, showing the total consumption figure.
- Holiday Mode: Enables the system to resume at the preset temperature after your holiday

Cascade Controller PAW-A2W-CMH

Cascade up to 10 Aquarea H Generation*.
- Up to 10HP (working hour balancing)
- 3x M-BUS devices connectable (for heat meter and/or current meter)
- Demand PV functions (similar to HPM + 0-10 V demand signal control function)
- Can control 3 way valves for cooling (2 buffer tanks)
- MODBUS IP for BMS communication
- DHW control logic
- Touch display with information about the HP
- All components in one case

+ Requires 1 PAW-AW-MBS-H per each Aquarea.

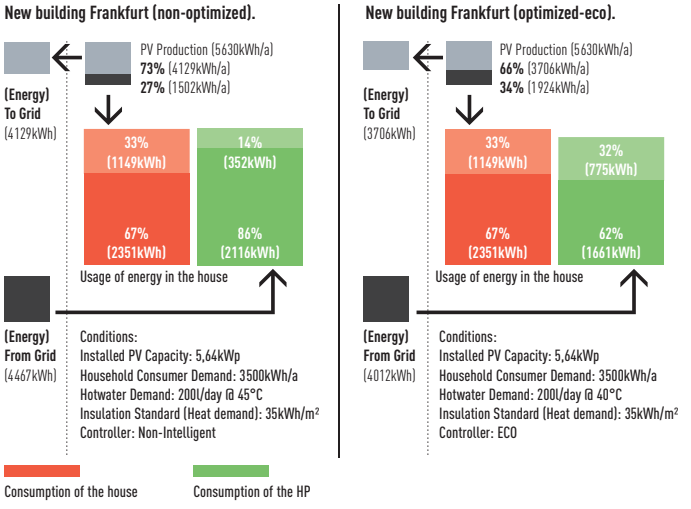
AQUAREA + PV PANELS

Aquarea J and H Generation can synchronize with PV panels with simple CZ-NS4P PCB. A part of converting Aquarea in Smart Grid Ready, there is a new advantage, this new PCB allows 0-10V control.
With this Aquarea demand is adapting all moment with the PV panel production.
Innovative algorithm balancing the heat pump's consumption and the in-house comfort, based on the outside temperature and the energy demand of the building.

Heat up Domestic Hot Water for free.

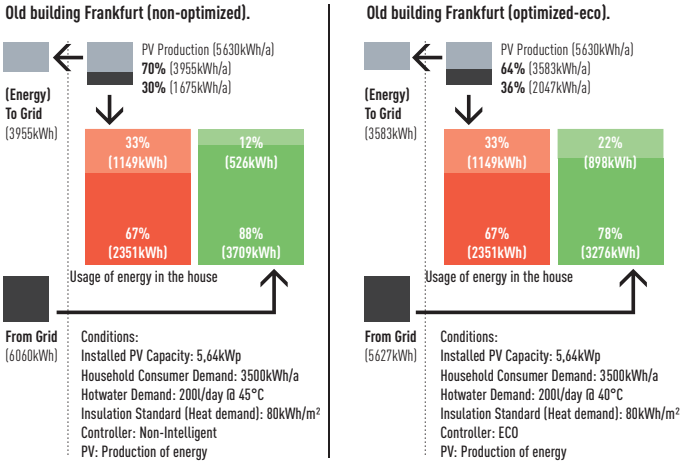
Comparison on new housing.
Increase usage of self production by: 120%

The Panasonic Aquarea PV Control could increase the energy usage of the heat pump coming from the Photovoltaic panels from 352kWh to 775kWh a year. Results of simulations:



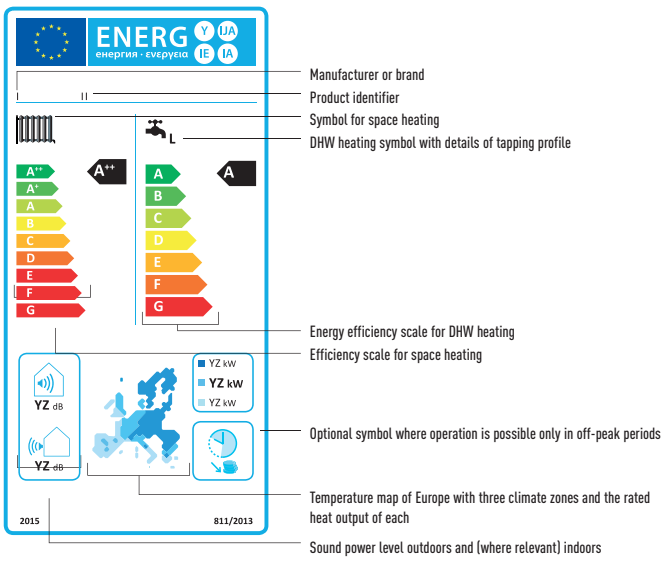
Comparison on old housing.
Increase usage of self production by: 71%

The Panasonic Aquarea PV Control could increase the energy consumption of the heat pump coming from the Photovoltaic Panels from 526kWh to 898kWh a year. Results of simulations:



PANASONIC'S AQUAREA OFFERS THE BEST FOR YOU AND YOUR HOME

Panasonic will supply the energy label and a product fiche for all delivered products affected by these regulations, which sales partners, traders and contractors must use when labelling our products.



Energy Label

Fridges, dishwashers, washing machines, ovens – it all started with white goods in the 1990s. Today, other energy-consuming appliances also carry the European energy efficiency label, such as TV sets, lighting and – since September 2014 – even vacuum cleaners. Since 2013 the regulations already apply to air conditioners and heat pumps. Since September 2015, it has been applicable also to room heaters, water heaters and storage water heaters.
Minimum energy efficiency requirements are also specified for manufacturers of system and combi boilers, water heaters and DHW cylinders.
Energy Labels are to assist consumers in their purchasing decisions, and ecodesign requirements on products are to help reduce private energy demand, as well as to contribute minimising global warming.

Panasonic helps you to calculate the system label .
From 26th September 2015, installers can be assured that all products manufactured after this date will be sold with the required energy efficiency labels which will aid installers with their paperwork. While it is the manufacturer's responsibility to issue their products with the required labels, the installers will need to calculate and issue an energy efficiency label for the entire heating system. Whether installing a new heating system or installing new boilers, controls or renewables into an existing system, it is, and will continue to be, the installer's responsibility to calculate and issue energy efficiency labels. Calculators which assist installers with this process are available on www.panasonicproclub.com.

Information on the energy efficiency label.
The rating system for Heat Pumps classifies them into nine efficiency categories. The best energy efficiency category is A++. The best energy efficiency class is currently A++, the worst is G. The energy efficiency label for system boilers shows its efficiency category on a scale from A++ to G (from A to G for hot water cylinders). In September 2019, a more rigorous scale will be introduced from A+++ to D, and from A+ to F for hot water cylinders.

Panasonic helps you to calculate the system label
www.panasonicproclub.com
or connect simply with your smartphone to the PRO Club using this QR

PRO Club

A typical example of savings and performances that Aquarea can offer to you.

A 125m² house in Reims

The example below shows a typical 3 bedroom French home and highlights the potential savings that can be achieved with Panasonic's Aquarea heat pump*.

* Calculations were carried using Panasonic's Aquarea Designer software, available from the PRO Club website (www.panasonicproclub.com).

Service hot water	
Type of service	Hot water with heat pump
Tank volume	300 Litre
Average daily need	200 Litre
Cold water inlet temperature	10°C
Target tank temperature	50°C
Exchange loss	5K
Electrical auxiliary heating necessary	No

Used Panasonic heat pump	
Description	**T-CAP 12kW**
Sanitary tank	**Stainless steel 300L**
Heat pump type	Air / Water
Capacity / consumption at 2°C (heating water at 35°C)	Heat: 11,7kW, Electric: 3,4kW
Recommended flow-through of air	80,0m³/min
Maximum flow temperature	55°C
Mode of operation	Monovalent
Design	-5,0°C
Number of heat pumps used	1
Wattage of fan (included in heat pump performance data: yes)	60W
Power consumption of heat circulation pump(s)	180W

Building data	
Address	Reims (French)
Building area	125m²
Standard heating requirement	11,3kW
Internal gains	5625kWh/year
Solar gains (windows)	4500kWh/year
Indoor design temperature	20°C
Outdoor temperature limit for heating 'ON'	15°C
Heat distribution	Underfloor heating by 100 %
	Radiator heating by -- %
	Wall heating by -- %
Maximum flow water temperature	55°C
Maximum return water temperature	50°C
Solar collector area	-- m²

Rate data		
Description	French (Panasonic)	
Shut OFF times total	0,0 h/day	
Weekends with shut OFF times	Yes	
Daytime rate of heat pump	Time for daytime rate	
	5-19 o'clock	14,0 pence/kWh
Nighttime rate of heat pump	Time for nighttime rate	
	19-5 o'clock	14,0 pence/kWh
Heat circulation pump(s)	Like heat pump: yes	-- pence/kWh
Heating element for monoenergetic operation	Like heat pump: yes	-- pence/kWh
Heating element for post heating of hot water	Like heat pump: yes	-- pence/kWh

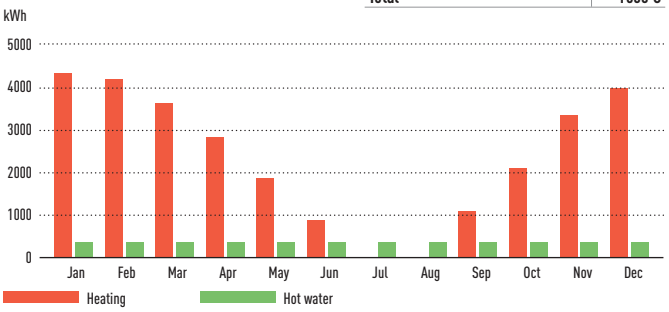
Climatic data								
Climatic location	Reims (FR)							
Monthly average temperatures in°C	Jan	3,4	Apr	8,0	Jul	16,0	Oct	10,4
	Feb	3,6	May	11,2	Aug	15,9	Nov	6,7
	Mar	5,7	Jun	14,1	Sep	13,7	Dec	4,6

Calculation results

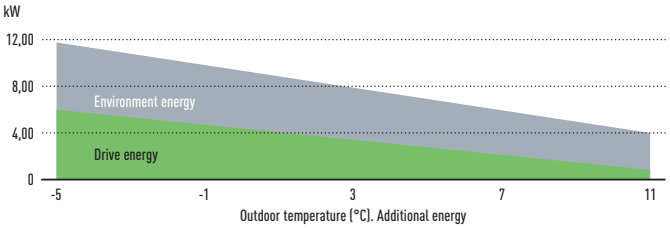
Monthly heat consumption in kWh.

Annual energy costs	
Caused by heat producers	
Heat pump	1600 €
Hot water heating rod	0 €

Caused by heat consumers	
Space heating	1220 €
Service hot water	225 €
Heat circulation pump(s)	155 €
Total	**1600 €**

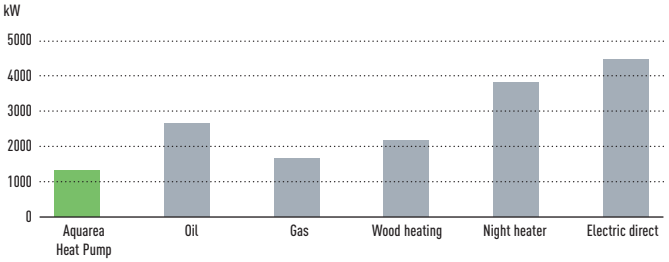


Aquarea energy coverage.

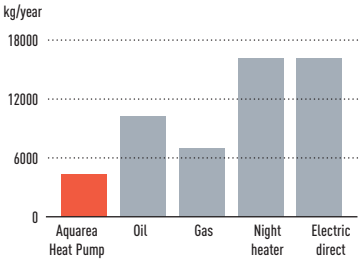


Comparison of running costs.

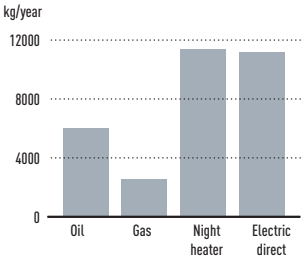
Operational costs				
Type of heating	Price in pence /kWh	Efficiency (%)	Additional costs in €/year	Total costs in €/year
Heat pump	-	-	0	1600
Oil	6,5	85	0	3050
Gas	4,0	90	0	1868
Wood heating	5,0	80	0	2539
Electric night storage heater	12,0	100	0	4455
Electric heating element	14,0	100	0	5197



Comparison of CO_2 emissions.



Comparison of CO_2 savings.



AQUAREA HEAT PUMPS LINE-UP

		3kW	5kW	7kW
Aquarea High Performance **P. 46, 48, 49**	**All in One** 1 Phase 3 Phase	 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-UD03JE5 WH-ADC0309H3E5 WH-ADC0309H3E5B WH-UD03HE5-1	 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-UD05JE5 WH-ADC0309H3E5 WH-ADC0309H3E5B WH-UD05HE5-1	 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-UD07JE5 WH-ADC0309H3E5 WH-ADC0309H3E5B WH-UD07HE5-1
P. 47, 52, 53	**Bi-bloc** 1 Phase 3 Phase	  WH-SDC0305J3E5 WH-UD03JE5 WH-SDC03H3E5-1 WH-UD03HE5-1	  WH-SDC0305J3E5 WH-UD05JE5 WH-SDC05H3E5-1 WH-UD05HE5-1	  WH-SDC0709J3E5 WH-UD07JE5 WH-SDC07H3E5-1 WH-UD07HE5-1
P. 56	**Mono-bloc** 1 Phase	 WH-MDC05H3E5	 WH-MDC07H3E5	
Aquarea T-CAP **P. 50-51**	**All in One** 1 Phase 3 Phase			
P. 54-55	**Bi-bloc** 1 Phase 3 Phase			
P. 57	**Mono-bloc** 1 Phase 3 Phase			
Aquarea HT **P. 58**	**Bi-bloc** 1 Phase 3 Phase			
P. 59	**Mono-bloc** 1 Phase			

Heating. Cooling. DHW. WH-__E5 1 Phase // WH-__E8 3 Phase.

9kW	12kW	16kW
 WH-ADC0309J3E5 WH-ADC0309J3E5B WH-UD09JE5 WH-ADC0309H3E5 WH-ADC0309H3E5B WH-UD09HE5-1 WH-ADC0916H9E8 WH-UD09HE8	 WH-ADC1216H6E5 WH-UD12HE5 WH-ADC0916H9E8 WH-UD12HE8	 WH-ADC1216H6E5 WH-UD16HE5 WH-ADC0916H9E8 WH-UD16HE8
 WH-SDC0709J3E5 WH-UD09JE5 WH-SDC09H3E5-1 WH-UD09HE5-1 WH-SDC09H3E8 WH-UD09HE8	 WH-SDC12H6E5 WH-UD12HE5 WH-SDC12H9E8 WH-UD12HE8	 WH-SDC16H6E5 WH-UD16HE5 WH-SDC16H9E8 WH-UD16HE8
 WH-MDC09H3E5	 WH-MDC12H6E5	 WH-MDC16H6E5
 WH-ADC1216H6E5 WH-UX09HE5 WH-ADC0916H9E8 WH-UX09HE8 WH-ADC0916H9E8 WH-UQ09HE8	 WH-ADC1216H6E5 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-MXC09H3E5 WH-MXC09H3E8	 WH-MXC12H6E5 WH-MXC12H9E8	 WH-MXC16H9E8
 WH-SHF09F3E5 WH-UH09FE5 WH-SHF09F3E8 WH-UH09FE8	 WH-SHF12F6E5 WH-UH12FE5 WH-SHF12F9E8 WH-UH12FE8	
 WH-MHF09G3E5	 WH-MHF12G6E5	

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

GOOD DESIGN AWARD 2017

NEW 2019

Technical focus

• Top level COP 5,33 • Reduced installation costs • Piping at the bottom of the All in One (easy to install) • Reduced installation time and minimised installation errors • Easy remote controller to set up • Reduced installation spaces • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)

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

Tentative Data			Single Phase (Power to indoor)			
Kit* 1 zone (for 2 zone add B at the end)			**KIT-ADC03JE5**	**KIT-ADC05JE5**	**KIT-ADC07JE5**	**KIT-ADC09JE5**
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	7,60 / 2,90
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	3,20 / 4,85	4,80 / 4,29	6,70 / 4,72	7,60 / 4,37
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	200 / 132	200 / 132	193 / 130	193 / 130
		SCOP	5,07 / 3,47	5,07 / 3,47	4,90 / 3,32	4,90 / 3,32
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	245 / 155	245 / 155	227 / 160	227 / 160
		SCOP	6,20 / 4,20	6,20 / 4,20	5,75 / 4,07	5,75 / 4,07
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	157 / 99	157 / 99	164 / 116	164 / 116
		SCOP	4,00 / 2,83	4,00 / 2,83	4,18 / 2,98	4,18 / 2,98
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Energy Class Heating Cold Climate (W35°C / W55°C)		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 1 1/4	R 1 1/4	R 1 1/4	R 1 1/4
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
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 water temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW Tank ERP Average climate efficiency rating [2]		A to G / A+ to F	A / A+	A / A+	A / A+	A / A+
DHW Tank ERP Warm climate efficiency rating [2]		A to G / A+ to F	A / A+	A / A+	A / A+	A / A+
DHW Tank ERP Cold climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	A / A	A / A
DHW Tank ERP Average climate ETA / SCOP		ETA % / SCOP	132 / 3,30	132 / 3,30	120 / 3,00	120 / 3,00
DHW Tank ERP Warm climate ETA / SCOP		ETA % / SCOP	155 / 3,88	155 / 3,88	140 / 3,50	140 / 3,50
DHW Tank ERP Cold climate ETA / SCOP		ETA % / SCOP	99 / 2,48	99 / 2,48	99 / 2,47	99 / 2,47
Outdoor unit			**WH-UD03JE5**	**WH-UD05JE5**	**WH-UD07JE5**	**WH-UD09JE5**
Sound power part load	Heat	dB	55	55	59	59
Sound power full load	Heat / Cool	dB	60 / 61	64 / 64	68 / 67	69 / 68
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
Pipe diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)
Pipe length range / Elevation difference (in/out)		m / m	3 ~ 25 / 20	3 ~ 25 / 20	3 ~ 50 / 30	3 ~ 50 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 20	10 / 20	10 / 25	10 / 25
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20

Accessories	
PAW-ADC-PREKIT-1	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
CZ-NS4P	Additional functions PCB

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019.
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility. * Available in Spring 2019.

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

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

GOOD DESIGN AWARD 2017

NEW 2019

Technical focus

• Super efficient in the 3,2kW! • Very high energy savings A+++ (*) • Simple installation & maintenance • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -20°C • Automatic Air purge valve • Display of the compressor frequency

A++ ErP 55°C Scale from A++ to G

A++ ErP 35°C Scale from A++ to G

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

			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 / —	5,00 / —	7,00 / —	9,00 / —
Heating capacity / COP (A +7°C, W 55°C)		kW / COP	— / —	— / —	— / —	— / —
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	— / —	— / —	— / —	— / —
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	— / —	— / —	— / —	— / —
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	— / —	— / —	— / —	— / —
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	— / —	— / —	— / —	— / —
		SCOP	— / —	— / —	— / —	— / —
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	— / —	— / —	— / —	— / —
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	— / —	— / —	— / —	— / —
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	— / —	— / —	— / —	— / —
		SCOP	— / —	— / —	— / —	— / —
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	— / —	— / —	— / —	— / —
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	— / —	— / —	— / —	— / —
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	— / —	— / —	— / —	— / —
		SCOP	— / —	— / —	— / —	— / —
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	— / —	— / —	— / —	— / —
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	— / —	— / —	— / —	— / —
Indoor unit			**WH-SDC0305J3E5**	**WH-SDC0305J3E5**	**WH-SDC0709J3E5**	**WH-SDC0709J3E5**
Sound pressure	Heat / Cool	dB(A)	— / —	— / —	— / —	— / —
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	—	—	—	—
Water pipe connector		Inch	—	—	—	—
A class pump	Number of speeds		—	—	—	—
	Input power (Min / Max)	W	— / —	— / —	— / —	— / —
Heating water flow (ΔT=5 K. 35°C)		L/min	—	—	—	—
Capacity of integrated electric heater		kW	—	—	—	—
Recommended fuse		A	— / —	— / —	— / —	— / —
Recommended cable size, supply 1 / 2		mm²	— / —	— / —	— / —	— / —
Outdoor unit			**WH-UD03JE5**	**WH-UD05JE5**	**WH-UD07JE5**	**WH-UD09JE5**
Sound power at Quiet Mode 3 (A +7°C, W 55°C)		dB	55	55	—	—
Sound power full load	Heat / Cool	dB	60 / 61	64 / 64	68 / 67	69 / 68
Dimension	H x W x D	mm	622 x 824 x 298	622 x 824 x 298	795 x 875 x 320	795 x 875 x 320
Net weight		kg	37	37	61	61
Refrigerant (R32) / CO_2 Eq.		kg / T	0,9 / 0,608	0,9 / 0,608	1,27 / 0,857	1,27 / 0,857
Pipe diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)
Pipe length range		m	3 ~ 25	3 ~ 25	3 ~ 50	3 ~ 50
Elevation difference (in/out)		m	20	20	30	30
Pipe length for additional gas		m	10	10	10	10
Additional gas amount		g/m	20	20	25	25
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	25 ~ 60 / 5 ~ 20	25 ~ 60 / 5 ~ 20	25 ~ 60 / 5 ~ 20	25 ~ 60 / 5 ~ 20

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve
CZ-NV1	3 way valve Kit for inside of hydrokit

Accessories	
CZ-NS4P	Additional functions PCB
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height.
1) Scale from A++ to G and from A+++ to D from 26th September 2019.
* Available in Autumn 2019.

R32 | A++ ErP 55°C | A++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | DHW | -20°C HEATING MODE | STOP STOP VALVE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

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

Aquarea High Performance All in One
H Generation Single Phase.
Heating and Cooling 1 or 2 zones • R410A Gas

GOOD DESIGN AWARD 2017

Technical focus

• Reduced installation costs • Piping at the bottom of the All in One (easy to install) • Reduced installation time and minimised installation errors • Easy remote controller to set up • Reduced installation spaces • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)

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

			Single Phase (Power to indoor)			
Kit 1 zone (for 2 zone add B at the end)			**KIT-ADC03HE5**	**KIT-ADC05HE5**	**KIT-ADC07HE5**	**KIT-ADC09HE5**
Heating capacity / COP (A +7°C, W 35°C)		kW / COP	3,20 / 5,00	5,00 / 4,63	7,00 / 4,46	9,00 / 4,13
Heating capacity / COP (A +7°C, W 55°C)		kW / COP	3,20 / 2,67	5,00 / 2,65	6,80 / 2,63	8,90 / 2,41
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	3,20 / 3,56	4,20 / 3,11	6,55 / 3,34	6,70 / 3,13
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	3,20 / 2,15	4,10 / 1,98	6,00 / 1,99	6,00 / 1,99
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	3,20 / 2,69	4,20 / 2,59	5,15 / 2,68	5,90 / 2,52
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	3,20 / 1,72	3,55 / 1,71	4,80 / 1,89	5,80 / 1,88
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	3,20 / 3,08	4,50 / 2,69	6,00 / 2,63	7,00 / 2,43
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	3,30 / 3,75	5,00 / 3,76	6,00 / 3,57	7,00 / 3,26
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	195 / 130	195 / 130	190 / 130	190 / 130
		SCOP	4,95 / 3,33	4,95 / 3,33	4,83 / 3,33	4,83 / 3,33
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	244 / 163	244 / 163	225 / 160	225 / 160
		SCOP	6,18 / 4,15	6,18 / 4,15	5,70 / 4,08	5,70 / 4,08
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	150 / 103	150 / 103	160 / 115	160 / 115
		SCOP	3,83 / 2,65	3,83 / 2,65	4,08 / 2,95	4,08 / 2,95
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A+++ / A+	A+++ / A+	A+++ / A+	A+++ / A+
Indoor unit 1 zone hydrokit			**WH-ADC0309H3E5**	**WH-ADC0309H3E5**	**WH-ADC0309H3E5**	**WH-ADC0309H3E5**
Indoor unit 2 zones built-in hydrokit			**WH-ADC0309H3E5B**	**WH-ADC0309H3E5B**	**WH-ADC0309H3E5B**	**WH-ADC0309H3E5B**
Sound pressure	Heat / Cool	dB(A)	28 / 28	28 / 28	28 / 28	28 / 28
Dimension / Net weight	H x W x D	mm / kg	1800 x 598 x 717 / 124	1800 x 598 x 717 / 124	1800 x 598 x 717 / 124	1800 x 598 x 717 / 124
Water pipe connector		Inch	R 1	R 1	R 1	R 1
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	9,2	14,3	20,1	25,8
Capacity of integrated electric heater		kW	3	3	3	3
Recommended fuse		A	15 / 15	15 / 15	30 / 15	30 / 15
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 water temperature		°C	65	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L	L
DHW Tank ERP Average climate efficiency rating [2]		A to G / A+ to F	A / A+	A / A+	A / A	A / A
DHW Tank ERP Warm climate efficiency rating [2]		A to G / A+ to F	A / A+	A / A+	A / A+	A / A+
DHW Tank ERP Cold climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	A / A	A / A
DHW Tank ERP Average climate ETA / SCOP		ETA % / SCOP	120 / 3,00	120 / 3,00	113 / 2,83	113 / 2,83
DHW Tank ERP Warm climate ETA / SCOP		ETA % / SCOP	147 / 3,68	147 / 3,68	132 / 3,30	132 / 3,30
DHW Tank ERP Cold climate ETA / SCOP		ETA % / SCOP	94 / 2,35	94 / 2,15	86 / 2,15	86 / 1,88
Outdoor unit			**WH-UD03HE5-1**	**WH-UD05HE5-1**	**WH-UD07HE5-1**	**WH-UD09HE5-1**
Sound power full load	Heat / Cool	dB	64 / 65	65 / 66	68 / 66	69 / 68
Dimension / Net weight	H x W x D	mm / kg	622 x 824 x 298 / 39	622 x 824 x 298 / 39	795 x 900 x 320 / 66	795 x 900 x 320 / 66
Refrigerant (R410A) / CO_2 Eq.		kg / T	1,20 / 2,506	1,20 / 2,506	1,45 / 3,028	1,45 / 3,028
Pipe diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)
Pipe length range / Elevation difference (in/out)		m / m	3 ~ 15 / 5	3 ~ 15 / 5	3 ~ 40 / 30	3 ~ 40 / 30
Pipe length for additional gas / Additional gas amount		m / g/m	10 / 20	10 / 20	10 / 30	10 / 30
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 [3]		dB	52	58	57	59

Accessories	
PAW-ADC-PREKIT-1	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
CZ-NS4P	Additional functions PCB

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

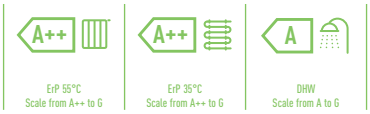
INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

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

GOOD DESIGN AWARD 2017

Technical focus

• Reduced installation costs • Piping at the bottom of the All in One (easy to install) • Reduced installation time and minimised installation errors • Easy remote controller to set up • Reduced installation spaces • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)



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

			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	12,00/2,88	14,50/2,68	9,00/2,94	12,00/2,88	14,50/2,68
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	9,10/2,20	9,80/2,17	8,80/2,23	9,10/2,20	9,80/2,17
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	8,20/1,92	9,00/1,82	7,90/2,05	8,20/1,92	9,00/1,82
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,85	12,20/2,56
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	10,00/4,17	12,20/4,12	7,00/4,61	10,00/4,17	12,20/4,12
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	190/134	190/130	190/133	190/134	190/130
		SCOP	4,83/3,43	4,83/3,33	4,83/3,40	4,83/3,43	4,83/3,33
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	245/159	245/169	245/159	245/159	245/169
		SCOP	6,20/4,05	6,20/4,30	6,20/4,05	6,20/4,05	6,20/4,30
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	168/121	168/121	168/121	168/121	168/121
		SCOP	4,28/3,10	4,28/3,10	4,28/3,10	4,28/3,10	4,28/3,10
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Energy Class Heating Cold Climate (W35°C / W55°C)		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 / Net weight	H x W x D	mm / kg	1800 x 598 x 717/124	1800 x 598 x 717/124	1800 x 598 x 717/126	1800 x 598 x 717/126	1800 x 598 x 717/126
Water pipe connector		Inch	R1	R1	R1	R1	R1
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	6	9	9	9
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 water 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 Average climate efficiency rating [2]		A to G / A+ to F	A/A	A/A	A/A	A/A	A/A
DHW Tank ERP Warm climate efficiency rating [2]		A to G / A+ to F	A/A	A/A	A/A	A/A	A/A
DHW Tank ERP Cold climate efficiency rating [2]		A to G / A+ to F	A/A	B/B	A/A	A/A	B/B
DHW Tank ERP Average climate ETA / SCOP		ETA % / SCOP	95/2,38	91/2,28	95/2,38	95/2,38	91/2,28
DHW Tank ERP Warm climate ETA / SCOP		ETA % / SCOP	110/2,75	107/2,68	110/2,75	110/2,75	107/2,68
DHW Tank ERP Cold climate ETA / SCOP		ETA % / SCOP	75/1,80	72/1,88	75/1,88	75/1,80	72/1,88
Outdoor unit			**WH-UD12HE5**	**WH-UD16HE5**	**WH-UD09HE8**	**WH-UD12HE8**	**WH-UD16HE8**
Sound power full load	Heat / Cool	dB	69/68	72/72	68/67	69/68	72/72
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 320/107	1340 x 900 x 320/107	1340 x 900 x 320/107
Refrigerant (R410A) / CO_2 Eq.		kg / T	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324	2,55/5,324
Pipe diameter	Liquid / Gas	Inch (mm)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)	3/8(9,52)/5/8(15,88)
Pipe length range / Elevation difference (in/out)		m / m	3 ~ 50/30	3 ~ 50/30	3 ~ 30/30	3 ~ 30/30	3 ~ 30/30
Pipe length for additional gas / Additional gas amount		m / g/m	10/50	10/50	10/50	10/50	10/50
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20	20 ~ 55/5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 [3]		dB	65	65	63	65	66

Accessories	
PAW-ADC-PREKIT-1	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
CZ-NS4P	Additional functions PCB

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

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

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

GOOD DESIGN AWARD 2017

Technical focus

• Works at temperatures as low as -28°C • Constant capacity up to -20°C • Reduced installation costs • Reduced installation time and minimised installation errors • Easy remote controller to set up • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)

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

			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
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	181 / 130	170 / 130	181 / 130	170 / 130	160 / 125
		SCOP	4,60 / 3,33	4,33 / 3,33	4,60 / 3,33	4,33 / 3,33	4,08 / 3,20
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	235 / 158	231 / 158	235 / 158	231 / 158	231 / 159
		SCOP	5,95 / 4,03	5,85 / 4,03	5,95 / 4,03	5,85 / 4,03	5,85 / 4,05
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	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 Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Cold Climate (W35°C / W55°C)		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 / Net weight	H x W x D	mm / kg	1800 x 598 x 717 / 124	1800 x 598 x 717 / 124	1800 x 598 x 717 / 126	1800 x 598 x 717 / 126	1800 x 598 x 717 / 126
Water pipe connector		Inch	R 1	R 1	R 1	R 1	R 1
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	6	9	9	9
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 water 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 Average climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	A / A	A / A	A / A
DHW Tank ERP Warm climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	A / A	A / A	A / A
DHW Tank ERP Cold climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	A / A	A / A	B / B
DHW Tank ERP Average climate ETA / SCOP		ETA % / SCOP	95 / 2,38	95 / 2,38	95 / 2,38	95 / 2,38	91 / 2,28
DHW Tank ERP Warm climate ETA / SCOP		ETA % / SCOP	110 / 2,75	110 / 2,75	110 / 2,75	110 / 2,75	107 / 2,68
DHW Tank ERP Cold climate ETA / SCOP		ETA % / SCOP	75 / 1,88	75 / 1,88	75 / 1,88	75 / 1,80	72 / 1,88
Outdoor unit			**WH-UX09HE5**	**WH-UX12HE5**	**WH-UX09HE8**	**WH-UX12HE8**	**WH-UX16HE8**
Sound power full load	Heat / Cool	dB	68 / 67	69 / 68	68 / 67	69 / 68	72 / 71
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
Pipe diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / 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
Operation range	Outdoor ambient	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20	20 ~ 60 / 5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 [3]		dB	62	64	62	64	65

Accessories	
PAW-ADC-PREKIT-1	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
CZ-NS4P	Additional functions PCB

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

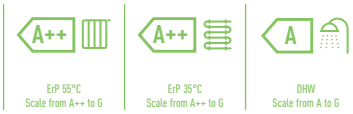
INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

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

GOOD DESIGN AWARD 2017

Technical focus

• Works at temperatures as low as -28°C • Constant capacity up to -20°C • Reduced installation costs • Reduced installation time and minimised installation errors • Easy remote controller to set up • Electrical connections at the front • Easier installation and maintenance • Remote controller functions (cooling mode activation possible by software. This activation can only be done by service partner)



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

			Three Phase (Power to indoor)		
Kit			**KIT-AQC9HE8**	**KIT-AQC12HE8**	**KIT-AQC16HE8**
Heating capacity / COP (A +7°C, W 35°C)		kW / COP	9,00 / 4,84	12,00 / 4,74	16,00 / 4,28
Heating capacity / COP (A +7°C, W 55°C)		kW / COP	9,00 / 2,94	12,00 / 2,88	16,00 / 2,71
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	9,00 / 3,59	12,00 / 3,44	16,00 / 3,10
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	9,00 / 2,21	12,00 / 2,19	16,00 / 2,13
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	9,00 / 2,85	12,00 / 2,72	16,00 / 2,49
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	9,00 / 2,02	12,00 / 1,92	16,00 / 1,86
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	7,00 / 3,17	10,00 / 2,81	12,20 / 2,57
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	7,00 / 5,19	10,00 / 5,13	12,20 / 3,49
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	181 / 130	170 / 130	160 / 125
		SCOP	4,60 / 3,33	4,33 / 3,33	4,08 / 3,20
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	235 / 158	231 / 158	231 / 159
		SCOP	5,95 / 4,03	5,85 / 4,03	5,85 / 4,05
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	160 / 125	160 / 125	150 / 125
		SCOP	4,08 / 3,20	4,08 / 3,20	3,83 / 3,20
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Cold Climate (W35°C / W55°C)		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 / Net weight	H x W x D	mm / kg	1800 x 598 x 717 / 126	1800 x 598 x 717 / 126	1800 x 598 x 717 / 126
Water pipe connector		Inch	R 1	R 1	R 1
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	9	9
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 water temperature		°C	65	65	65
Material inside tank			Stainless steel	Stainless steel	Stainless steel
Tapping profile according EN16147			L	L	L
DHW Tank ERP Average climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	A / A
DHW Tank ERP Warm climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	A / A
DHW Tank ERP Cold climate efficiency rating [2]		A to G / A+ to F	A / A	A / A	B / B
DHW Tank ERP Average climate ETA / SCOP		ETA % / SCOP	95 / 2,38	95 / 2,38	91 / 2,28
DHW Tank ERP Warm climate ETA / SCOP		ETA % / SCOP	110 / 2,75	110 / 2,75	107 / 2,68
DHW Tank ERP Cold climate ETA / SCOP		ETA % / SCOP	75 / 1,88	75 / 1,80	72 / 2,35
Outdoor unit			**WH-UQ09HE8**	**WH-UQ12HE8**	**WH-UQ16HE8**
Sound power full load	Heat / Cool	dB	61 / 63	62 / 64	65 / 68
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
Pipe diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range / 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
Operation range	Outdoor ambient	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
Water outlet	Heat / Cool	°C	20 - 60 / 5 - 20	20 - 60 / 5 - 20	20 - 60 / 5 - 20
3rd Party tested Sound power at Quiet Mode 3 [3]		dB	55	54	58

Accessories	
PAW-ADC-PREKIT-1	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
CZ-NS4P	Additional functions PCB

Accessories	
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C). Insulated tested under EN12897.
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Scale from A to G and from A+ to F from 26th September 2019. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).
This product is designed to comply with the European Water Quality Directive 98/83/EC amended by 2015/1787/EU. The lifespan of the product is not guaranteed in the case of the use of groundwater, such as spring water or well water, the use of tap water when salt or other impurities are contained, nor in areas of acidic water quality. Maintenance and warranty costs related to these cases are the customer's responsibility.

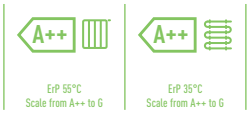
INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

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

GOOD DESIGN AWARD 2017

Technical focus

• Very high energy savings A+++ (*) • Simple installation & maintenance • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -20°C • Automatic Air purge valve • Display of the compressor frequency



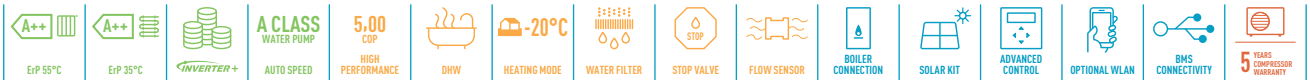
CZ-TAW1
Cloud connection. For user control and installer remote maintenance.

			Single Phase Heating and Cooling			
Kit			**KIT-WC03H3E5**	**KIT-WC05H3E5**	**KIT-WC07H3E5**	**KIT-WC09H3E5**
Heating capacity / COP (A +7°C, W 35°C)		kW / COP	3,20 / 5,00	5,00 / 4,63	7,00 / 4,46	9,00 / 4,13
Heating capacity / COP (A +7°C, W 55°C)		kW / COP	3,20 / 2,67	5,00 / 2,65	6,80 / 2,63	8,90 / 2,41
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	3,20 / 3,56	4,20 / 3,11	6,55 / 3,34	6,70 / 3,13
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	3,20 / 2,15	4,10 / 1,98	6,00 / 1,99	6,00 / 1,99
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	3,20 / 2,69	4,20 / 2,59	5,15 / 2,68	5,90 / 2,52
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	3,20 / 1,72	3,55 / 1,71	4,80 / 1,89	5,80 / 1,88
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	3,20 / 3,08	4,50 / 2,69	6,00 / 2,63	7,00 / 2,43
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	3,30 / 3,75	5,00 / 3,76	6,00 / 3,57	7,00 / 3,26
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	195 / 130	195 / 130	190 / 130	190 / 130
		SCOP	4,95 / 3,33	4,95 / 3,33	4,83 / 3,33	4,83 / 3,33
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	244 / 163	244 / 163	225 / 160	225 / 160
		SCOP	6,18 / 4,15	6,18 / 4,15	5,70 / 4,08	5,70 / 4,08
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	150 / 103	150 / 103	160 / 115	160 / 115
		SCOP	3,83 / 2,65	3,83 / 2,65	4,08 / 2,95	4,08 / 2,95
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Indoor unit			**WH-SDC03H3E5-1**	**WH-SDC05H3E5-1**	**WH-SDC07H3E5-1**	**WH-SDC09H3E5-1**
Sound pressure	Heat / Cool	dB(A)	28 / 28	28 / 28	30 / 30	30 / 30
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	44	44	44	44
Water pipe connector		Inch	R 1	R 1	R 1	R 1
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min / Max)	W	30 / 100	33 / 106	34 / 114	40 / 120
Heating water flow (ΔT=5 K. 35°C)		L/min	9,2	14,3	20,1	25,8
Capacity of integrated electric heater		kW	3	3	3	3
Recommended fuse		A	15 / 30	15 / 30	15 / 30	15 / 30
Recommended cable size, supply 1 / 2		mm	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5
Outdoor unit			**WH-UD03HE5-1**	**WH-UD05HE5-1**	**WH-UD07HE5-1**	**WH-UD09HE5-1**
Sound power full load	Heat / Cool	dB	64 / 65	65 / 66	68 / 66	69 / 68
Dimension	H x W x D	mm	622 x 824 x 298	622 x 824 x 298	795 x 900 x 320	795 x 900 x 320
Net weight		kg	39	39	66	66
Refrigerant (R410A) / CO_2 Eq.		kg / T	1,20 / 2,506	1,20 / 2,506	1,45 / 3,028	1,45 / 3,028
Pipe diameter	Liquid / Gas	Inch (mm)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 1/2 (12,70)	1/4 (6,35) / 5/8 (15,88)	1/4 (6,35) / 5/8 (15,88)
Pipe length range		m	3 ~ 15	3 ~ 15	3 ~ 40	3 ~ 40
Elevation difference (in/out)		m	5	5	30	30
Pipe length for additional gas		m	10	10	10	10
Additional gas amount		g/m	20	20	30	30
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 [2]		dB	52	58	57	59

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve
CZ-NV1	3 way valve Kit for inside of hydrokit

Accessories	
CZ-NS4P	Additional functions PCB
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).



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

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

GOOD DESIGN AWARD 2017

Technical focus

• Very high energy savings A+++ (*) • Simple installation & maintenance • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -20°C • Automatic Air purge valve • Display of the compressor frequency

A++ ErP 55°C Scale from A++ to G

A++ ErP 35°C Scale from A++ to G

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

			Single Phase Heating and Cooling		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	12,00/2,88	14,50/2,68	9,00/2,94	12,00/2,88	14,50/2,68
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	11,40/3,44	13,00/3,28	9,00/3,59	11,40/3,44	13,00/3,28
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	9,10/2,20	9,80/2,17	8,80/2,23	9,10/2,20	9,80/2,17
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	10,00/2,73	11,40/2,57	9,00/2,85	10,00/2,73	11,40/2,57
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	8,20/1,92	9,00/1,82	7,90/2,05	8,20/1,92	9,00/1,82
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	10,00/2,81	12,20/2,56	7,00/3,17	10,00/2,81	12,20/2,56
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	10,00/4,17	12,20/4,12	7,00/4,61	10,00/4,17	12,20/4,12
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	190/134	190/130	190/133	190/134	190/130
		SCOP	4,83/3,43	4,83/3,33	4,83/3,40	4,83/3,43	4,83/3,33
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++/A++	A+++/A++	A+++/A++	A+++/A++	A+++/A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	245/159	245/169	245/159	245/159	245/169
		SCOP	6,20/4,05	6,20/4,30	6,20/4,05	6,20/4,05	6,20/4,30
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++/A++	A++/A++	A++/A++	A++/A++	A++/A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	168/121	168/121	168/121	168/121	168/121
		SCOP	4,28/3,10	4,28/3,10	4,28/3,10	4,28/3,10	4,28/3,10
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++/A+	A++/A+	A++/A+	A++/A+	A++/A+
Indoor unit			**WH-SDC12H6E5**	**WH-SDC16H6E5**	**WH-SDC09H3E8**	**WH-SDC12H9E8**	**WH-SDC16H9E8**
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33	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	44	45	44	45	45
Water pipe connector		Inch	R 1	R 1	R 1	R 1	R 1
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	6	3	9	9
Recommended fuse		A	30/30	30/30	15/30	15/30	15/30
Recommended cable size, supply 1 / 2		mm	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5
Outdoor unit			**WH-UD12HE5**	**WH-UD16HE5**	**WH-UD09HE8**	**WH-UD12HE8**	**WH-UD16HE8**
Sound power full load	Heat / Cool	dB	69/68	72/72	68/67	69/68	72/72
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
Pipe diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range		m	3 ~ 50	3 ~ 50	3 ~ 30	3 ~ 30	3 ~ 30
Elevation difference (in/out)		m	30	30	30	30	30
Pipe length for additional gas		m	10	10	10	10	10
Additional gas amount		g/m	50	50	50	50	50
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat / Cool	°C	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20	20 ~ 55 / 5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 [2]		dB	65	65	63	65	66

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve
CZ-NV1	3 way valve Kit for inside of hydrokit

Accessories	
CZ-NS4P	Additional functions PCB
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).

ErP 55°C | ErP 35°C | INVERTER+ | A CLASS WATER PUMP AUTO SPEED | 4,84 COP HIGH PERFORMANCE | DHW | -20°C HEATING MODE | WATER FILTER | STOP VALVE | FLOW SENSOR | BOILER CONNECTION | SOLAR KIT | ADVANCED CONTROL | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

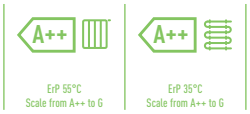
INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

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

GOOD DESIGN AWARD 2017

Technical focus

• Very high energy savings A++ • Simple installation & maintenance • Constant capacity up to -20°C • Water temperature up to 60°C • Special software for low consumption homes with minimum output temperature: 20°C • Works at temperatures as low as -28°C • Automatic Air purge valve • Display of the compressor frequency



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

			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
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	181 / 130	170 / 130	181 / 130	170 / 130	160 / 125
		SCOP	4,60 / 3,33	4,33 / 3,33	4,60 / 3,33	4,33 / 3,33	4,08 / 3,20
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	235 / 158	231 / 158	235 / 158	231 / 158	231 / 159
		SCOP	5,95 / 4,03	5,85 / 4,03	5,95 / 4,03	5,85 / 4,03	5,85 / 4,05
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	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 Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Indoor unit			**WH-SXC09H3E5**	**WH-SXC12H6E5**	**WH-SXC09H3E8**	**WH-SXC12H9E8**	**WH-SXC16H9E8**
Sound pressure	Heat / Cool	dB(A)	33 / 33	33 / 33	33 / 33	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 1	R 1	R 1	R 1	R 1
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	6	3	9	9
Recommended fuse		A	30 / 30	30 / 30	16 / 16	16 / 16	16 / 16
Recommended cable size, supply 1 / 2		mm	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 full load	Heat / Cool	dB	68 / 67	69 / 68	68 / 67	69 / 68	72 / 71
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
Pipe diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range		m	3 ~ 30	3 ~ 30	3 ~ 30	3 ~ 30	3 ~ 30
Elevation difference (in/out)		m	30	30	30	30	30
Pipe length for additional gas		m	10	10	10	10	10
Additional gas amount		g/m	50	50	50	50	50
Operation range	Outdoor ambient	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35	-28 ~ +35
Water outlet	Heat / Cool	°C	20 - 60 / 5 - 20	20 - 60 / 5 - 20	20 - 60 / 5 - 20	20 - 60 / 5 - 20	20 - 60 / 5 - 20
3rd Party tested Sound power at Quiet Mode 3 [2]		dB	62	64	62	64	65

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve
CZ-NV1	3 way valve Kit for inside of hydrokit

Accessories	
CZ-NS4P	Additional functions PCB
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).

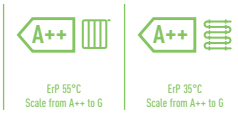
INTERNET CONTROL: Optional. GOOD DESIGN AWARD 2017: Indoor units All in One and Bi-bloc H Generation awarded with the prestigious Good Design Award 2017.

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

GOOD DESIGN AWARD 2017

Technical focus

· Very high energy savings A++ · Noise reduction of 7dB is based on power level when heating mode · With Quite mode we can reach 10 ~ 12dB(A) · Constant capacity up to -20°C · Water temperature up to 60°C · Special software for low consumption homes with minimum output temperature: 20°C · Works at temperatures as low as -28°C · Display of the compressor frequency



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

			Three Phase (Power to indoor)		
Kit			**KIT-WQC09H3E8**	**KIT-WQC12H9E8**	**KIT-WQC16H9E8**
Heating capacity / COP (A +7°C, W 35°C)		kW / COP	9,00 / 4,84	12,00 / 4,74	16,00 / 4,28
Heating capacity / COP (A +7°C, W 55°C)		kW / COP	9,00 / 2,94	12,00 / 2,88	16,00 / 2,71
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	9,00 / 3,59	12,00 / 3,44	16,00 / 3,10
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	9,00 / 2,21	12,00 / 2,19	16,00 / 2,13
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	9,00 / 2,85	12,00 / 2,72	16,00 / 2,49
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	9,00 / 2,02	12,00 / 1,92	16,00 / 1,86
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	7,00 / 3,17	10,00 / 2,81	12,20 / 2,57
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	7,00 / 5,19	10,00 / 5,13	12,20 / 3,49
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	181 / 130	170 / 130	160 / 125
		SCOP	4,60 / 3,33	4,33 / 3,33	4,08 / 3,20
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	235 / 158	231 / 158	231 / 159
		SCOP	5,95 / 4,03	5,85 / 4,03	5,85 / 4,05
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	160 / 125	160 / 125	150 / 125
		SCOP	4,08 / 3,20	4,08 / 3,20	3,83 / 3,20
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++ / A++	A++ / A++	A++ / A++
Indoor unit			**WH-SQC09H3E8**	**WH-SQC12H9E8**	**WH-SQC16H9E8**
Sound pressure	Heat / Cool	dB(A)	33 / 33	33 / 33	33 / 33
Dimension	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 1	R 1	R 1
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed
	Input power (Min / Max)	W	32 / 102	34 / 110	30 / 105
Heating water flow (ΔT=5 K. 35°C)		L/min	25,8	34,4	45,9
Capacity of integrated electric heater		kW	3	9	9
Recommended fuse		A	15 / 30	15 / 30	15 / 30
Recommended cable size, supply 1 / 2		mm	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5
Outdoor unit			**WH-UQ09HE8**	**WH-UQ12HE8**	**WH-UQ16HE8**
Sound power full load	Heat / Cool	dB	61 / 63	62 / 64	65 / 68
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
Pipe diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range		m	3 ~ 30	3 ~ 30	3 ~ 30
Elevation difference (in/out)		m	20	20	20
Pipe length for additional gas		m	10	10	10
Additional gas amount		g/m	50	50	50
Operation range	Outdoor ambient	°C	-28 ~ +35	-28 ~ +35	-28 ~ +35
Water outlet	Heat / Cool	°C	20 - 60 / 5 - 20	20 - 60 / 5 - 20	20 - 60 / 5 - 20
3rd Party tested Sound power at Quiet Mode 3 [2]		dB	55	54	58

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve
CZ-NV1	3 way valve Kit for inside of hydrokit

Accessories	
CZ-NS4P	Additional functions PCB
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

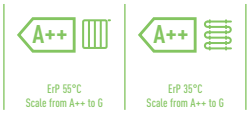
EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).

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

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

Technical focus

- Optional Smartphone control
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C
- Cooling temperature range 5 ~ 20°C



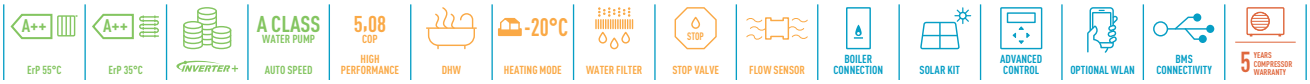
CZ-TAW1
Cloud connection. For user control and installer remote maintenance.

			Single Phase Heating and Cooling				
Outdoor unit			**WH-MDC05H3E5**	**WH-MDC07H3E5**	**WH-MDC09H3E5**	**WH-MDC12H6E5**	**WH-MDC16H6E5**
Heating capacity / COP (A +7°C, W 35°C)		kW / COP	5,00 / 5,08	7,00 / 4,52	9,00 / 4,29	12,00 / 4,74	16,00 / 4,28
Heating capacity / COP (A +7°C, W 55°C)		kW / COP	5,00 / 2,84	7,00 / 2,83	9,00 / 2,72	12,00 / 2,93	14,50 / 2,72
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	4,80 / 3,36	6,60 / 3,30	6,80 / 3,18	11,40 / 3,44	13,00 / 3,28
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	4,00 / 2,33	6,30 / 2,22	6,30 / 2,13	9,10 / 2,23	9,80 / 2,21
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	4,70 / 2,85	5,50 / 2,70	6,40 / 2,60	10,00 / 2,73	11,40 / 2,57
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	4,30 / 1,89	5,00 / 1,82	5,80 / 1,78	8,20 / 1,95	9,00 / 1,84
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	4,50 / 3,28	6,00 / 2,78	7,00 / 2,60	10,00 / 2,81	12,20 / 2,56
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	5,10 / 5,10	6,00 / 3,87	7,00 / 3,59	10,00 / 4,65	12,20 / 4,12
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	199 / 139	190 / 130	190 / 130	190 / 134	190 / 130
		SCOP	5,05 / 3,55	4,83 / 3,33	4,83 / 3,33	4,83 / 3,43	4,83 / 3,33
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	237 / 161	225 / 160	225 / 160	245 / 159	245 / 169
		SCOP	6,00 / 4,10	5,70 / 4,08	5,70 / 4,08	6,20 / 4,05	6,20 / 4,30
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	160 / 115	160 / 115	160 / 115	168 / 121	168 / 121
		SCOP	4,08 / 2,95	4,08 / 2,95	4,08 / 2,95	4,28 / 3,10	4,28 / 3,10
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Sound power full load	Heat / Cool	dB	65 / 65	68 / 66	69 / 67	69 / 68	72 / 72
Dimension	H x W x D	mm	865 x 1283 x 320	865 x 1283 x 320	865 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	94	104	104	140	140
Refrigerant (R410A) / CO_2 Eq. [2]		kg / T	1,30 / 2714	1,35 / 2819	1,35 / 2819	2,10 / 4,385	2,10 / 4,385
Water pipe connector		Inch	R 1	R 1	R 1	R 1	R 1
Pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
	Input power (Min / Max)	W	34 / 96	36 / 100	39 / 108	34 / 110	38 / 120
Heating water flow (ΔT=5 K. 35°C)		L/min	14,3	20,1	25,8	34,4	45,9
Capacity of integrated electric heater		kW	3	3	3	6	6
Input Power	Heat	kW	0,985	1,55	2,10	2,53	3,74
	Cool	kW	1,37	2,16	2,69	3,56	4,76
Running and Starting current	Heat	A	4,7	7,2	9,6	11,7	16,9
	Cool	A	6,3	9,9	12,2	16,2	21,5
Current 1		A	13,0	21,0	22,9	24,0	26,0
Current 2		A	13,0	13,0	13,0	26,0	26,0
Recommended fuse		A	30 / 15	30 / 15	30 / 16	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	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	20 ~ 55	20 ~ 55	20 ~ 55	25 ~ 55	25 ~ 55
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 [3]		dB	57	57	61	65	66

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	3 way valve

Accessories	
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) WH-MDC models are hermetically sealed. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).

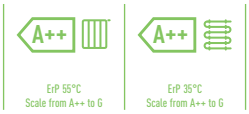


INTERNET CONTROL: Optional.

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

Technical focus

- Optional Smartphone control
- Maximum hydraulic module output temperature: 55°C
- Works at temperatures as low as -20°C
- Cooling temperature range 5 ~ 20°C



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

			Single Phase		Three Phase		
Outdoor unit			**WH-MXC09H3E5**	**WH-MXC12H6E5**	**WH-MXC09H3E8**	**WH-MXC12H9E8**	**WH-MXC16H9E8**
Heating capacity / COP (A +7°C, W 35°C)		kW / COP	9,00 / 4,84	12,00 / 4,74	9,00 / 4,84	12,00 / 4,74	16,00 / 4,28
Heating capacity / COP (A +7°C, W 55°C)		kW / COP	9,00 / 2,94	12,00 / 2,88	9,00 / 2,94	12,00 / 2,88	16,00 / 2,71
Heating capacity / COP (A +2°C, W 35°C)		kW / COP	9,00 / 3,59	12,00 / 3,44	9,00 / 3,59	12,00 / 3,44	16,00 / 3,10
Heating capacity / COP (A +2°C, W 55°C)		kW / COP	9,00 / 2,21	12,00 / 2,19	9,00 / 2,21	12,00 / 2,19	16,00 / 2,13
Heating capacity / COP (A -7°C, W 35°C)		kW / COP	9,00 / 2,85	12,00 / 2,72	9,00 / 2,85	12,00 / 2,72	16,00 / 2,49
Heating capacity / COP (A -7°C, W 55°C)		kW / COP	9,00 / 2,02	12,00 / 1,92	9,00 / 2,02	12,00 / 1,92	16,00 / 1,86
Cooling capacity / EER (A 35°C, W 7°C)		kW / EER	7,00 / 3,17	10,00 / 2,81	7,00 / 3,17	10,00 / 2,81	12,20 / 2,56
Cooling capacity / EER (A 35°C, W 18°C)		kW / EER	7,00 / 5,19	10,00 / 5,13	7,00 / 5,19	10,00 / 5,13	12,20 / 3,49
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	181 / 130	170 / 130	181 / 130	170 / 130	160 / 125
		SCOP	4,60 / 3,33	4,33 / 3,33	4,60 / 3,33	4,33 / 3,33	4,08 / 3,20
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	235 / 158	231 / 158	235 / 158	231 / 158	231 / 159
		SCOP	5,95 / 4,03	5,85 / 4,03	5,95 / 4,03	5,85 / 4,03	5,85 / 4,05
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	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 Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Sound power full load	Heat / Cool	dB	68 / 67	69 / 68	68 / 67	69 / 68	72 / 71
Dimension	H x W x D	mm	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320	1410 x 1283 x 320
Net weight		kg	142	142	151	151	164
Refrigerant (R410A) / CO_2 Eq. [2]		kg / T	2,30 / 4,802	2,30 / 4,802	2,30 / 4,802	2,30 / 4,802	2,35 / 4,907
Water pipe connector		Inch	R 1	R 1	R 1	R 1	R 1
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	38 / 120
Heating water flow (ΔT=5 K. 35°C)		L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integrated electric heater		kW	3	6	3	9	9
Input Power	Heat	kW	1,86	2,53	1,86	2,53	3,74
	Cool	kW	2,21	3,56	2,21	3,56	4,76
Running and Starting current	Heat	A	8,8	11,7	3,0	4,0	5,7
	Cool	A	10,4	16,5	3,5	5,3	7,1
Current 1		A	29,0	29,0	14,7	11,9	15,5
Current 2		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
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60	20 ~ 60
	Cool	°C	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20	5 ~ 20
3rd Party tested Sound power at Quiet Mode 3 [3]		dB	62	64	62	64	65

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TA20C1E5STD	Tank 200L - Enamelled
PAW-TA30C1E5STD	Tank 300L - Enamelled
PAW-3WYVLV-SI	3 way valve

Accessories	
PAW-BTANK50L-1	Buffer tank 50L
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1) Scale from A++ to G and from A+++ to D from 26th September 2019. 2) WH-MXC models are hermetically sealed. 3) Third party tested sound power at Quiet mode 3 (A +7°C, W 55°C).

INTERNET CONTROL: Optional.

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

Technical focus

· Remote controller functions · Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager · Optional Smartphone control · Maximum hydraulic module output temperature: 65°C · Works at temperatures as low as -20°C · Maximum 20m rise between the outdoor unit and the hydraulic module

A++ ErP 55°C Scale from A++ to G

A++ ErP 35°C Scale from A++ to G

			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
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	153 / 125	150 / 125	153 / 125	150 / 125
		SCOP	3,90 / 3,20	3,83 / 3,20	3,90 / 3,20	3,83 / 3,20
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	191 / 156	188 / 156	191 / 156	188 / 156
		SCOP	4,85 / 3,98	4,78 / 3,98	4,85 / 3,98	4,78 / 3,98
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++ / A++	A++ / A++	A++ / A++	A++ / A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++ / A+++	A+++ / A+++	A+++ / A+++	A+++ / A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	137 / 116	134 / 113	137 / 116	134 / 113
		SCOP	3,50 / 2,98	3,43 / 2,90	3,50 / 2,98	3,43 / 2,90
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Indoor unit			**WH-SHF09F3E5**	**WH-SHF12F6E5**	**WH-SHF09F3E8**	**WH-SHF12F9E8**
Sound pressure		dB(A)	33	33	33	33
Dimension	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 1	R 1	R 1	R 1
A class pump	Number of speeds		7	7	7	7
	Input power (Min / Max)	W	38 / 100	40 / 106	38 / 100	40 / 106
Heating water flow (ΔT=5 K. 35°C)		L/min	25,8	34,4	25,8	34,4
Capacity of integrated electric heater		kW	3	6	3	9
Recommended fuse		A	30 / 30	30 / 30	30 / 16	30 / 16
Recommended cable size, supply 1 / 2		mm	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 part load		dB	—	—	—	—
Sound power full load		dB	66	67	66	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
Net weight		kg	104	104	110	110
Refrigerant (R407C) / CO_2 Eq.		kg / T	2,90 / 5,145	2,90 / 5,145	2,90 / 5,145	2,90 / 5,145
Pipe diameter	Liquid / Gas	Inch (mm)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range		m	3 ~ 30	3 ~ 30	3 ~ 30	3 ~ 30
Elevation difference (in/out)		m	20	20	20	20
Pipe length for additional gas		m	10	10	10	10
Additional gas amount		g/m	70	70	70	70
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	25 ~ 65	25 ~ 65	25 ~ 65	25 ~ 65

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

Accessories	
PAW-3WYVLV-SI	External 3 way valve
PAW-BTANK50L-1	Buffer tank 50L
PA-AW-WIFI-1TE	WLAN interface
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1 Scale from A++ to G and from A+++ to D from 26th September 2019.

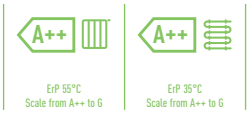
A++ ErP 55°C | A++ ErP 35°C | INVERTER+ | A CLASS WATER PUMP 7 SPEEDS | 65°C OUTPUT WATER HIGH TEMPERATURE | DHW | -20°C HEATING MODE | BOILER CONNECTION | SOLAR KIT | OPTIONAL WLAN | BMS CONNECTIVITY | 5 YEARS COMPRESSOR WARRANTY

INTERNET CONTROL: Optional.

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

Technical focus

- Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager
- Optional Smartphone control
- Maximum hydraulic module output temperature: 65°C
- Works at temperatures as low as -20°C



			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
Seasonal energy efficiency - Heating Average Climate (W35°C / W55°C)		ETA %	153/125	150/125
		SCOP	3,90/3,20	3,83/3,20
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A++ to G	A++/A++	A++/A++
Energy Class Heating Average Climate (W35°C / W55°C) [1]		A+++ to D	A+++/A++	A+++/A++
Seasonal energy efficiency - Heating Warm Climate (W35°C / W55°C)		ETA %	191/156	188/156
		SCOP	4,85/3,98	4,78/3,98
Energy Class Heating Warm Climate (W35°C / W55°C)		A++ to G	A++/A++	A++/A++
Energy Class Heating Warm Climate (W35°C / W55°C)		A+++ to D	A+++/A+++	A+++/A+++
Seasonal energy efficiency - Heating Cold Climate (W35°C / W55°C)		ETA %	137/116	134/113
		SCOP	3,50/2,98	3,43/2,90
Energy Class Heating Cold Climate (W35°C / W55°C)		A++ to G	A++/A+	A++/A+
Energy Class Heating Cold Climate (W35°C / W55°C)		A+++ to D	A++/A+	A++/A+
Sound power part load		dB	—	—
Sound power full load		dB	68	69
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	R1	R1
Pump	Number of speeds		7	7
	Input power (Min/Max)	W	—	—
Heating water flow (ΔT=5 K. 35°C)		L/min	25,8	34,4
Capacity of integrated electric heater		kW	3	6
Input Power		kW	1,94	2,69
Running and Starting current		A	9,3	12,8
Current 1		A	28,5	29,0
Current 2		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
Operation range	Outdoor ambient	°C	-20 ~ +35	-20 ~ +35
Water outlet	Heat	°C	25 ~ 65	25 ~ 65

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

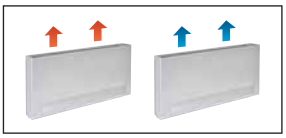
Accessories	
PAW-3WYVLV-SI	External 3 way valve
PAW-BTANK50L-1	Buffer tank 50L
PA-AW-WIFI-1TE	WLAN interface
PAW-A2W-RTWIRED	Room thermostat

EER and COP calculation is based in accordance to EN14511. Sound pressure measured at 1m from the outdoor unit and at 1,5m height. Heating sound pressure measured at +7°C (heating water at 55°C).
1 Scale from A++ to G and from A+++ to D from 26th September 2019. 2) WH-MHF models are hermetically sealed.

INTERNET CONTROL: Optional.

AQUAREA AIR

AQUAREA AIR



		PAW-AAIR-200-2			PAW-AAIR-700-2			PAW-AAIR-900-2		
Air flow	**Speed**	**Min**	**Med**	**Max**	**Min**	**Med**	**Max**	**Min**	**Med**	**Max**
Heating mode										
Total heating capacity	W	217,00	470,00	570,00	708,00	1032,00	1188,00	886,00	1420,00	1703,00
Water flow	kg/h	37,30	80,80	98,00	121,80	177,50	204,30	152,40	244,20	292,90
Water pressure drop	kPa	0,40	2,00	2,90	0,30	0,80	1,00	0,50	1,60	2,20
Inlet water temperature	°C	35	35	35	35	35	35	35	35	35
Outlet water temperature	°C	30	30	30	30	30	30	30	30	30
Inlet air temperature	°C	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00	19,00
Outlet air temperature	°C	38,90	32,00	30,00	33,30	31,80	30,60	30,20	31,10	30,60
Cooling mode										
Total cooling capacity	W	237,00	345,00	555,00	756,00	1039,00	1204,00	1153,00	1518,00	1746,00
Sensible cooling capacity	W	230,00	314,00	504,00	646,00	903,00	1058,00	1061,00	1384,00	1598,00
Water flow	kg/h	40,00	59,00	95,00	129,00	178,00	207,00	198,00	261,00	300,00
Water pressure drop	kPa	0,40	2,00	2,90	1,00	2,00	2,00	6,00	9,00	12,00
Inlet water temperature	°C	10	10	10	10	10	10	10	10	10
Outlet water temperature	°C	15	15	15	15	15	15	15	15	15
Inlet air temperature	°C	27,00	27,00	27,00	27,00	27,00	27,00	27,00	27,00	27,00
Outlet air temperature	°C	15,00	17,00	18,00	14,00	16,00	17,00	16,00	17,00	18,00
Relative humidity of inlet air	%	47	47	47	47	47	47	47	47	47
Air flow	m³/min	0,90	1,90	2,70	2,60	4,20	5,30	4,10	6,10	7,70
Maximum input power	W	7,00	9,00	13,00	14,00	18,00	22,00	16,00	20,00	24,00
Sound pressure	dB(A)	23	33	40	24	36	42	25	36	44
Dimension (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	

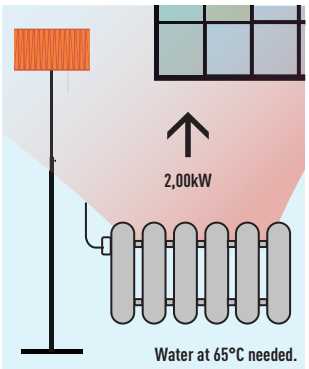
Super low temperature radiators for heat pump application

The slimline Panasonic Aquarea Air radiators deliver high efficiency climate control.

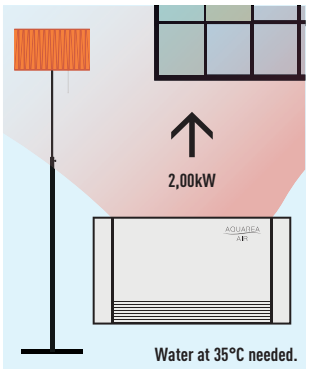
With a depth of just under 13cm they are at the cutting edge of the market. Blending easily into the home, Aquarea Air's elegant design and product refinements are clear to see in every detail.

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

With standard cast radiators.



With Aquarea Air.



Technical focus:

- High heating capacity
- 3 fan speeds and capacities
- Exclusive design
- Extremely compact (only 12,9cm deep)
- Cooling and dehumidification functions possible (drain is needed)
- 3-way valve included (no overflow valve needed on the installation if more than 3 radiators installed)
- Touch screen thermostat

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

FAN COILS

NEW 2019

PAW-FC-303TC
Optional Controller.
Wired remote controller.

PAW-FC-RC1
Optional Controller.
Wired remote controller.

			Compact units								High Static Pressure
Left side connection			PAW-FC-D11-1	PAW-FC-D15-1	PAW-FC-D24-1	PAW-FC-D28-1	PAW-FC-D40-1	PAW-FC-D55-1	PAW-FC-D65-1	PAW-FC-D90-1	PAW-FC-H150
Right side connection			PAW-FC-D11-1-R	PAW-FC-D15-1-R	PAW-FC-D24-1-R	PAW-FC-D28-1-R	PAW-FC-D40-1-R	PAW-FC-D55-1-R	PAW-FC-D65-1-R	PAW-FC-D90-1-R	PAW-FC-H150-R
Total cooling capacity [1]	Med/S-Hi	kW	1,0/1,5	1,2/1,7	2,0/2,5	2,4/3,2	3,2/4,6	4,6/5,8	6,1/7,3	6,1/8,1	11,9/14,8
Sensible cooling capacity [1]	Med/S-Hi	kW	0,8/1,1	0,9/1,3	1,5/1,9	1,8/2,3	2,2/3,3	3,3/4,5	4,3/5,1	4,6/6,3	9,6/12,9
Heating capacity [1]	Med/S-Hi	kW	1,4/2,0	1,5/2,2	2,4/3,1	2,9/4,0	4,1/5,7	5,3/7,1	7,9/9,3	8,1/11,6	14,9/19,9
Power consumption	S-Lo/Med/S-Hi	W	14/24/36	10/18/29	16/37/45	15/37/56	28/55/72	37/75/105	53/100/147	90/112/188	180/421/675
Fuse rating		A	2	2	2	2	2	2	2	2	6
Dimensions (including pan and electrical box)	H x W x D	mm	220x570x430	220x570x430	220x753x430	220x938x430	220x1122x430	220x1307x430	220x1121x530	220x1316x530	356x1600x798
Weight (without water content)		kg	13	13	15	20	22	26	27	38	63
Sound power global	S-Lo/Med/S-Hi	dB(A)	33/40/49	31/43/50	30/45/52	30/44/51	34/46/56	38/51/58	43/56/61	50/55/64	52/64/71
Sound pressure global	S-Lo/Med/S-Hi	dB(A)	24/31/40	22/34/41	21/36/43	21/35/42	25/37/47	29/42/49	34/47/52	41/46/55	31/45/51
Static pressure	Max	Pa	30	30	50	50	70	70	70	70	110
Airflow [1]	Med/S-Hi	m³/h	190/283	179/265	274/390	357/499	486/716	640/933	893/1064	936/1397	2112/3176
Water pressure drop	Med/S-Hi	kPa	19,5/39,2	3,9/6,3	19,3/28,8	17,1/28	22,8/46,9	37,4/60,2	15,4/21,5	19,3/32,5	19,8/26,1
Fan speeds			3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds	3 speeds
Fan motor and total speeds			AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds	AC 5 speeds
Drain pan and Air filter			Included	Included	Included	Included	Included	Included	Included	Included	Included
Water connections		Inch	1/2	1/2	1/2	1/2	1/2	1/2	3/4	3/4	1

Accessories	
PAW-FC-RC1	Advanced wired control for Fan Coil
PAW-FC-303TC	Wired remote controller
PAW-FC-2WY-11/55-1	2 way valve + drain pan (for PAW-FC-D11/15/24/28/40/55-1)
PAW-FC-2WY-65/90-1	2 way valve + drain pan (for PAW-FC-D65/90-1)

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

1) Airflow and capacity at 0Pa of static pressure. * Performances based on: Cooling: Air: 27°C DB / 19°C WB, Chilled water: 7°C / 12°C - Heating: Air: 20°C DB, Hot water: 50°C / 45°C.

New range of Fan Coil units

Easy to install, improved sound level and performance. New Fan Coil range consist on one compact ducted range ideal for residential and commercial use and one model with high static pressure for commercial applications. The range certified by Eurovent includes drain pan and filter and are equipped with a low consumption fan motor.
The new D type is even more flexible thanks to L Drain pan, same unit can be installed in both Horizontal or in Vertical position.

Fan Coil controller PAW-FC-RC1

This advance control can bring higher level of comfort in heating. The sensor can be used as water flow sensor, stopping the fan when low water temperature, avoiding cold drafts in winter.
Also is ready to use J Generation new feature of defrost mode and stop the Fan Coil.

Features:

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

1 Innovation for an optimum comfort

2 Low energy consumption fan

3 Quality and efficient Coil

4 Flexible vertical - horizontal installation

DHW STAND ALONE

The New DHW Stand Alone is a highly efficient wall-mounted heat pump water heater

This space-saving wall-mounted solution is one of the most efficient models available, designed as a perfect replacement for the electric water heater. The wall-mounted installation, fast heat-up time, and auto function for smart piloting all guarantee customer comfort.

Benefits:

- A+ Highly efficient wall mounted Domestic Hot Water Heat Pump
- Provides reduced power consumption by 75% compared with traditional electric water heater
- Multilingual and End-user friendly Remote Controller
- Digital control panel
- Energy consumption monitoring
- Different modes of operation based on end-user needs
- Mode AUTO: Intelligent Temperature Set Point, thanks to monitoring hot water usage
- Mode BOOST, Mode ECO and Mode ABSENCE
- Photovoltaic function
- Compatible with ducted fresh air intake installations

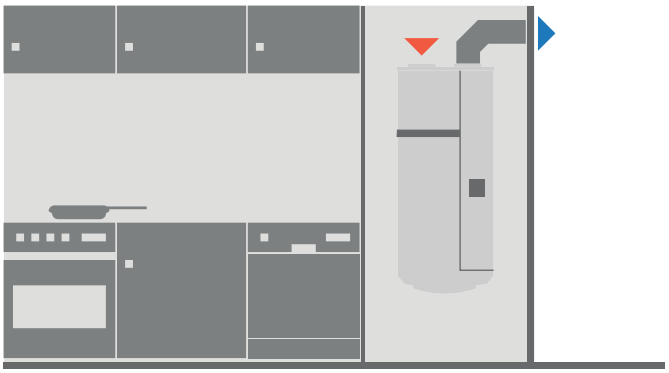
NEW 2019

Model		Wall mounted	
Reference		**PAW-DHW100W**	**PAW-DHW150W**
Nominal capacity	L	100	150
Dimensions (H x W x D)	mm	1234 x 522 x 538	1557 x 522 x 538
Empty weight	kg	57	66
Hot and cold connection		3/4" M	3/4" M
Anticorrosion system		Magnesium	Magnesium
Rated water pressure	bar	8	8
Electrical connection	V/Hz	230/50	230/50
Total maximum power	W	1550	1950
Maximal power heat pump	W	350	350
Power electric heating element	W	1200	1600
Heat pump water temperature range	°C	50 ~ 62	50 ~ 62
Heat pump air temperature range	°C	-5 ~ +43	-5 ~ +43
Duct diameter	mm	125	125
Air flow (without duct)	m³/min	160	160
Load losses acceptable on ventilation circuit, without affecting performance	Pa	25	25
Sound power level [1]	dB(A)	45	45
R134a refrigerant capacity	kg	0,6	0,7
Refrigerant volume in tons of CO_2 equivalent	TCO_2 Eq.	0,86	1
Refrigerant weight per liter	kg/L	0,006	0,0046
Hot water quantity at 40°C: V40td in 8h (Off-peak) / 14 (Off-peak+6h)	L	151/289	182/318
Coefficient of performance (at air 7°C ducted, water from 15°C to 53°C)		2,47	2,94
Coefficient of performance (at air 15°C ambient, water from 15°C to 53°C)		2,75	3,21
Acoustic power ErP in ducted configuration [2]	dB(A)	45	45
Acoustic power ErP in ambient configuration [2]	dB(A)	50	50
Energy Efficiency Class (from A+ to F)		A+	A+
Input PV		Yes	Yes
Performance at 7°C air temperature (EN 16147) ducted at 25 Pa			
Coefficient of performance (COP) according load profile		2,47 - M	2,94 - L
Standby power input (P_{es})	W	20	22
Heating up time (t_h)	h. Min	7h27	11h21
Reference hot water temperature (T_{ref})	°C	52,8	53
Flow rate (air)	m³/h	162,7	146,4
Performance at 7°C air temperature (EN 16147)			
Coefficient of performance (COP) according load profile		2,75 - M	3,21 - L
Standby power input (P_{es})	W	18	21
Heating up time (t_h)	h. Min	6h25	9h45
Reference hot water temperature (T_{ref})	°C	52,5	53,1

1) According to ISO3744. 2) Compliant with EN 16147 conditions. * DHW Stand Alone is produced by S.A.T.E.

Ideal for small surfaces

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



SANITARY TANKS

NEW 2019

New Mono-bloc DHW+Ventilation.

Compact solution combining DHW tank and ventilation kit, in one compact surface of 60x60.

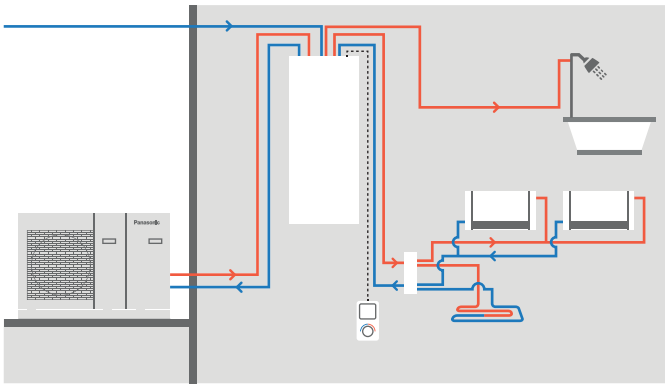
- e-heater included
- Tank sensor included
- 3 way valve included
- All electrical components are pre wired to a metal box
- Possible to attach Aquarea control in the front panel
- Safety valve for DHW
- This solution is great solution for low consumption houses (NZEB)

Ventilation unit produced by Komfovent.
Tank module produced by Austria Email AG.

This is a conceptual image, it may change without prior notice.

Combo Tank.

The best option to combine with Mono-bloc units. DHW tank with buffer tank. Designed for retrofit applications, the DHW 185l tank with a 80l buffer tank is particularly suitable for fast integration on an existing installation. Panasonic has developed a tank with 80l Buffer tank and 185l sanitary hot water cylinder. This tank includes a 3-way valve and an "A" Class pump. Easy to install, nice looking, high efficiency for DHW production and for heating.



Combo Tank

		PAW-TD20B8E3-1	
Dimension H x W x D	mm	1770 x 640 x 690	
Weight (empty)	kg	150	
Volume	L	185	
Power supply	V, Phase, Hz	230, 1, 50	
		Hot water tank	**Buffer tank**
Volume	L	185	80
Max working pressure	MPa (bar)	0,8 (8)	0,6 (6)
Pressure test	MPa (bar)	1,2 (12)	0,9 (9)
Max working temp	°C	90	100
Connections	mm	Ø22	Ø22
Material		S 275 JR vitrified	S235 JR
Insulation	Material, t=mm	PUR, 50	PUR 40mm
Heating coil surface	m²	2,1	
Electrical heater	W	3000	
Energy loss at 65°C	kWh/24h	1,3	

ErP data		**Hot water tank**	**Buffer tank**
Energy efficiency class (from A+ to F)		**B**	**B**
Standing loss	W	53	46
Storage volume	L	185	80

1) EU Regulation 812/2013. 2)Tested pursuant to EN 12897:2006.

NEW Enamelled Tanks

		Enamelled Tank				Enamelled 2 coils Tank (for bivalent Solar + HP)
Model		**PAW-TA15C1E5STD***	**PAW-TA20C1E5STD***	**PAW-TA30C1E5STD***	**PAW-TA40C1E5STD***	**PAW-TA30C2E5STD***
Water volume	L	150	200	290	380	350
Maximum water temperature	°C	95	95	95	95	95
Dimensions (Hight / Diameter)	mm	1210/520	1340/610	1800/610	1835/670	1835/670
Weight / filled with water	kg	109/254	90/280	120/389	191/572	169/519
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
Exchange surface	m²	1,2	1,8	2,6	3,8	3,5 / 1,2
Energy loss at 65°C [1]	kWh/24h	1,45	1,37	1,61	1,76	1,76
3 Way valve accessory PAW-3WYVLV-SI or CZ-NV1		Optional	Optional	Optional	Optional	Optional
20m temperature sensor cable included		Yes	Yes	Yes	Yes	Yes
Energy losses	W	60	57	67	73	73
Energy Efficiency Class (from A+ to F)		**C**	**B**	**B**	**B**	**B**
Warranty		2 Years	2 Years	2 Years	2 Years	2 Years
Maintenance required		Every 2 years	Every 2 years	Every 2 years	Every 2 years	Every 2 years

1) Insulated tested under EN12897.

Stainless Steel Tank

Model		**PAW-TD20C1E5**	**PAW-TD30C1E5**
Water volume	L	192	280
Maximum water temperature	°C	75	75
Dimensions (Hight / Diameter)	mm	1270/595	1750/595
Weight / filled with water	kg	53/—	65/—
Electric heater	kW	1,50	1,50
Power supply	V	230	230
Material inside tank		Stainless steel	Stainless steel
Exchange surface	m²	1,8	1,8
Energy loss at 65°C [1]	kWh/24h	0,99	1,13
3 Way valve accessory PAW-3WYVLV-SI or CZ-NV1		Optional	Optional
20m temperature sensor cable included		Yes	Yes
Energy losses	W	42	46
Energy Efficiency Class (from A+ to F)		**A**	**A**
Warranty		2 Years	2 Years
Maintenance required		No	No

1) Insulated tested under EN12897. * Includes proportional control thermostat.

NEW Buffer tank

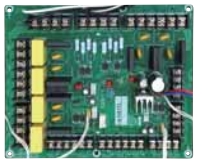
		PAW-BTANK50L-1
Capacity	L	48
Energy losses	W	42
Energy Efficiency Class (from A+ to F)		**B**
Material		Stainless Steel
Dimensions (Hight / Diameter)	mm	435 x 615
Net weight	kg	17

* Automatic air vent and drain cock are included.

Accessories	
PAW-3WYVLV-SI	External 3 way valve
CZ-NV1	3 way valve ready for All in One J and H Generation (optional in internal space)

ACCESSORIES AND CONTROL

Optional PCB's for additional functions



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

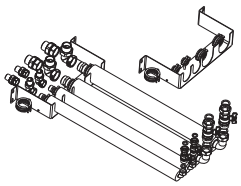
Deice accessories

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

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

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

Accessories for All in One



PAW-ADC-PREKIT-1
Flexible pipings and wall mounting plate for All in One J and H Generation.

PAW-ADC-CV150
Decorative magnetic side cover.

Accessories for Aquarea Air

PAW-AAIR-LEGS-1
Kits of 2 legs to support the Aquarea Air on the floor and to protect the water pipings.

Hydraulic accessories

CZ-NV1
3 way valve ready for All in One J and H Generation (optional in internal space).

PAW-3WYVLV-SI
External 3 way valve.

Sanitary tank accessories

PAW-TS1
Tank sensor with 6m cable length.

PAW-TS2
Tank sensor with 20m cable length.

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

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

Special outdoor supports

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

PAW-GRDSTD40
Outdoor elevation platform.

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

Connectivity solutions

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

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

PAW-AW-KNX-H
KNX interface for H Generation.

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

PAW-AW-MBS-H
Modbus interface for H Generation.

PA-AW-WIFI-1TE
WLAN accessory with temperature sensor compatible with G and F Generation.

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

PAW-HPM1
Aquarea Manager with LCD.

PAW-HPM2
Aquarea Manager without LCD.

PAW-HPMED
Touch screen.

PAW-HPMLCD
LCD Display HPM Manager.

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

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

PAW-HPMB1
Buffer tank sensor.

PAW-HPMDHW
Buffer tank sensor with well.

PAW-HPMSOL1
Buffer tank sensor solar (with higher temperature range).

PAW-HPMAH1
Water flow pipe sensor for heating circuit.

PAW-HPMUH
Outdoor temperature sensor.

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

PAW-HPMR4
Room sensor + set point adaptation.

PAW-DEWPOINTSENSOR
Dew point sensor.

Cascade Controller

PAW-A2W-CMH
NEW Modbus IP for BMS communication.

Fan Coil Controller

PAW-FC-303TC
Fan Coil control.

PAW-FC-RC1
NEW Wired remote controller.

Room thermostats

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

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

H Generation sensors

PAW-A2W-TSOD
Outdoor ambient sensor.

PAW-A2W-TSRT
Zone room sensor.

PAW-A2W-TSHC
Zone water sensor.

PAW-A2W-TSSO
Solar sensor.

PAW-A2W-TSBU
Buffer tank sensor.

Heating & Cooling capacity tables. Based on outlet temperature and outside temperature.

Aquarea High Performance Bi-bloc H Generation Single Phase. Heating and Cooling • R410A Gas

WH-UD03HE5-1

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	3,20	1,26	2,54	3,20	1,39	2,30	3,10	1,52	2,04	3,00	1,64	1,83	2,80	1,78	1,57	2,75	1,92	1,43
-7	3,20	1,08	2,96	3,20	1,19	2,69	3,20	1,34	2,39	3,20	1,48	2,16	3,20	1,67	1,92	3,20	1,86	1,72
2	3,20	0,82	3,90	3,20	0,90	3,56	3,20	1,03	3,11	3,20	1,16	2,76	3,20	1,33	2,41	3,20	1,49	2,15
7	3,20	0,58	5,52	3,20	0,64	5,00	3,20	0,77	4,16	3,20	0,89	3,60	3,20	1,05	3,05	3,20	1,20	2,67
16	3,20	0,50	6,40	3,20	0,55	5,82	3,20	0,64	5,00	3,20	0,72	4,44	3,20	0,86	3,72	3,20	0,99	3,23
25	3,20	0,42	7,62	3,20	0,46	6,96	3,20	0,55	5,82	3,20	0,63	5,08	3,20	0,73	4,38	3,20	0,82	3,90

WH-UD05HE5-1

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	4,20	1,75	2,40	4,20	1,94	2,16	3,80	1,96	1,94	3,40	1,98	1,72	3,20	2,05	1,56	3,00	2,12	1,42
-7	4,20	1,46	2,88	4,20	1,62	2,59	4,00	1,72	2,33	3,80	1,82	2,09	3,70	1,95	1,90	3,55	2,08	1,71
2	4,20	1,22	3,44	4,20	1,35	3,11	4,20	1,50	2,80	4,20	1,65	2,55	4,15	1,86	2,23	4,10	2,07	1,98
7	5,00	0,97	5,15	5,00	1,08	4,63	5,00	1,28	3,91	5,00	1,48	3,38	5,00	1,68	2,98	5,00	1,89	2,65
16	5,00	0,83	6,02	5,00	0,92	5,43	5,00	1,15	4,35	5,00	1,38	3,62	5,00	1,53	3,27	5,00	1,68	2,98
25	5,00	0,74	6,76	5,00	0,82	6,10	5,00	1,02	4,90	5,00	1,22	4,10	5,00	1,35	3,70	5,00	1,49	3,36

WH-UD07HE5-1

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	—	—	—	4,60	1,98	2,32	4,60	2,19	2,10	4,60	2,40	1,92	4,55	2,63	1,73	4,50	2,86	1,57
-7	—	—	—	5,15	1,92	2,68	5,08	2,14	2,37	5,00	2,36	2,12	4,90	2,45	2,00	4,80	2,54	1,89
2	—	—	—	6,55	1,96	3,34	6,58	2,29	2,87	6,60	2,62	2,52	6,30	2,82	2,23	6,00	3,01	1,99
7	—	—	—	7,00	1,57	4,46	7,00	1,84	3,80	7,00	2,10	3,33	6,90	2,35	2,94	6,80	2,59	2,63
25	—	—	—	7,00	0,97	7,22	6,74	1,14	5,91	6,48	1,31	4,95	6,24	1,43	4,36	6,00	1,55	3,87

WH-UD09HE5-1

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	—	—	—	5,90	2,66	2,22	5,65	2,82	2,00	5,40	2,98	1,81	5,20	3,08	1,69	5,00	3,18	1,57
-7	—	—	—	5,90	2,34	2,52	5,85	2,61	2,24	5,80	2,88	2,01	5,80	2,98	1,95	5,80	3,08	1,88
2	—	—	—	6,70	2,14	3,13	6,65	2,38	2,79	6,60	2,62	2,52	6,30	2,82	2,23	6,00	3,01	1,99
7	—	—	—	9,00	2,18	4,13	9,00	2,49	3,61	9,00	2,79	3,23	8,95	3,25	2,75	8,90	3,70	2,41
25	—	—	—	9,00	1,26	7,14	8,66	1,48	5,85	8,32	1,69	4,92	8,03	1,85	4,34	7,74	2,01	3,85

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

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (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 Gas

WH-UD03HE5-1									
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
18	2,40	0,42	5,71	4,40	0,73	6,03	3,70	0,49	7,55
25	3,20	0,73	4,38	4,10	0,86	4,77	3,50	0,59	5,93
35	3,20	1,04	3,08	3,90	1,07	3,64	3,30	0,74	4,46
43	2,90	1,20	2,42	3,50	1,20	2,92	3,00	0,88	3,41
WH-UD05HE5-1									
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
18	4,50	0,89	5,06	5,00	0,90	5,56	5,70	0,90	6,33
25	5,00	1,43	3,50	6,30	1,50	4,20	5,40	1,06	5,09
35	4,50	1,67	2,69	5,50	1,68	3,27	5,00	1,33	3,76
43	3,30	1,53	2,16	4,10	1,52	2,70	4,40	1,53	2,88
WH-UD07HE5-1									
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
18	4,80	0,80	6,00	7,20	1,16	6,21	6,00	1,13	5,31
25	7,00	1,90	3,68	8,47	1,78	4,76	6,00	1,27	4,72
35	6,00	2,28	2,63	6,60	2,48	2,66	6,00	1,68	3,57
43	4,85	2,65	1,83	6,00	2,82	2,13	4,80	1,98	2,42
WH-UD09HE5-1									
Tamb	CC	IP	EER	CC	IP	EER	CC	IP	EER
LWC	7	7	7	14	14	14	18	18	18
18	5,40	1,00	5,40	8,40	1,62	5,19	7,00	1,61	4,35
25	7,85	2,40	3,27	10,20	2,46	4,15	7,00	1,77	3,95
35	7,00	2,88	2,43	7,60	3,20	2,38	7,00	2,15	3,26
43	5,20	2,85	1,82	6,99	3,84	1,82	5,60	2,55	2,20
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: Power Input (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 & Cooling capacity tables. Based on outlet temperature and outside temperature.

Aquarea High Performance Bi-bloc H Generation Three Phase. Heating and Cooling • R410A Gas

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 Gas

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: Power Input (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 Single Phase / Three Phase. Heating and Cooling • R410A Gas

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 Gas

Models	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
Models	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: Power Input (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 & Cooling capacity tables. Based on outlet temperature and outside temperature.

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

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 Gas

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: Power Input (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 H Generation Single Phase. Heating and Cooling - MDC • R410A Gas

WH-MDC05H3E5																		
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	5,13	2,02	2,54	5,00	2,20	2,27	4,88	2,39	2,04	4,75	2,57	1,85	4,08	2,29	1,78	3,40	2,00	1,70
-7	4,80	1,49	3,23	4,70	1,65	2,85	4,60	1,82	2,53	4,50	1,98	2,27	4,40	2,13	2,07	4,30	2,28	1,89
2	5,10	1,34	3,81	4,80	1,43	3,36	4,50	1,52	2,96	4,20	1,61	2,61	4,10	1,67	2,46	4,00	1,72	2,33
7	5,00	0,79	6,33	5,00	0,99	5,08	5,00	1,18	4,24	5,00	1,37	3,65	5,00	1,57	3,19	5,00	1,76	2,84
12	4,85	0,77	6,29	4,83	0,89	5,46	4,82	1,00	4,82	4,80	1,12	4,29	4,74	1,25	3,81	4,68	1,37	3,42
WH-MDC07H3E5																		
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	4,60	1,68	2,75	4,60	1,89	2,43	4,60	2,11	2,19	4,60	2,32	1,98	4,55	2,56	1,78	4,50	2,79	1,61
-7	5,60	1,88	2,99	5,50	2,04	2,70	5,40	2,21	2,45	5,30	2,37	2,24	5,15	2,56	2,01	5,00	2,75	1,82
2	6,65	1,79	3,73	6,60	2,00	3,30	6,55	2,22	2,96	6,50	2,43	2,67	6,40	2,64	2,43	6,30	2,84	2,22
7	7,00	1,33	5,28	7,00	1,55	4,52	7,00	1,78	3,94	7,00	2,00	3,50	7,00	2,24	3,13	7,00	2,47	2,83
12	7,00	1,30	5,38	7,00	1,45	4,83	7,05	1,65	4,27	7,10	1,90	3,74	7,15	2,10	3,40	7,20	2,30	3,13
WH-MDC09H3E5																		
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	6,10	2,34	2,61	5,90	2,50	2,36	5,70	2,67	2,14	5,50	2,83	1,94	5,25	2,99	1,76	5,00	3,14	1,59
-7	6,55	2,26	2,90	6,40	2,46	2,60	6,25	2,66	2,35	6,10	2,86	2,13	5,95	3,06	1,95	5,80	3,25	1,78
2	6,85	1,92	3,58	6,80	2,14	3,18	6,75	2,37	2,85	6,70	2,59	2,59	6,50	2,78	2,34	6,30	2,96	2,13
7	9,00	1,80	5,01	9,00	2,10	4,29	9,00	2,41	3,74	9,00	2,71	3,32	9,00	3,01	2,99	9,00	3,31	2,72
12	9,10	1,61	5,65	9,00	1,79	5,03	9,00	2,09	4,31	9,10	2,40	3,79	9,20	2,80	3,29	9,30	3,00	3,10
WH-MDC12H6E5																		
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	—	—	—	7,00	4,10	1,71
-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	—	—	—	8,20	4,21	1,95
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	—	—	—	9,10	4,08	2,23
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	4,10	2,93
12	12,00	1,38	8,70	12,00	1,66	7,23	11,80	1,94	6,08	11,70	2,23	5,25	—	—	—	11,40	2,74	4,16
WH-MDC16H6E5																		
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	7,90	4,84	1,63	—	—	—
-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	9,00	4,88	1,84	—	—	—
2	13,50	13,74	0,98	13,00	3,96	3,28	12,40	4,18	2,97	11,90	4,40	2,70	9,80	4,44	2,21	—	—	—
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	14,50	5,33	2,72	—	—	—
12	16,00	2,31	6,93	16,00	2,69	5,95	16,00	3,07	5,21	16,00	3,45	4,64	15,90	3,89	4,09	—	—	—

Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
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Heating & Cooling capacity tables. Based on outlet temperature and outside temperature.

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

WH-MDC05H3E5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
24	5,15	1,06	4,86	6,45	1,05	6,14	5,90	0,73	8,08
35	4,50	1,37	3,28	5,52	1,36	4,06	5,10	1,00	5,10
43	3,74	1,55	2,41	4,65	1,60	2,91	4,25	1,20	3,54
WH-MDC07H3E5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
24	6,85	1,78	3,85	8,15	1,80	4,53	7,10	1,20	5,92
35	6,00	2,16	2,78	5,35	1,53	3,51	6,00	1,55	3,87
43	4,90	2,48	1,98	4,45	1,80	2,47	5,10	1,85	2,76
WH-MDC09H3E5									
Tamb	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**	**CC**	**IP**	**EER**
LWC	**7**	**7**	**7**	**14**	**14**	**14**	**18**	**18**	**18**
24	7,30	1,92	3,80	8,60	1,98	4,34	8,20	1,55	5,29
35	7,00	2,69	2,60	6,40	1,93	3,32	7,00	1,95	3,59
43	5,25	2,84	1,85	5,40	2,25	2,40	6,00	2,30	2,61
WH-MDC12H6E5									
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	2,05	6,41	10,00	1,73	5,78
25	12,08	2,90	4,17	15,70	3,05	5,15	10,00	1,97	5,08
35	10,00	3,56	2,81	12,00	3,67	3,27	10,00	2,15	4,65
43	7,80	3,80	2,05	11,10	3,19	3,48	8,00	2,85	2,81
WH-MDC16H6E5									
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: Power Input (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 Mono-bloc H Generation Single Phase / Three Phase. Heating and Cooling - MXC • R410A Gas

WH-MXC09H3E5 / WH-MXC09H3E8																		
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-MXC12H6E5																		
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-MXC12H9E8																		
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-MXC16H9E8																		
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 Mono-bloc H Generation Single Phase / Three Phase. Heating and Cooling - MXC • R410A Gas

Models	WH-MXC09H3E5									WH-MXC12H6E5								
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
Models	WH-MXC09H3E8						WH-MXC12H9E8						WH-MXC16H9E8					
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: Power Input (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 & Cooling capacity tables. Based on outlet temperature and outside temperature.

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

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 Gas

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

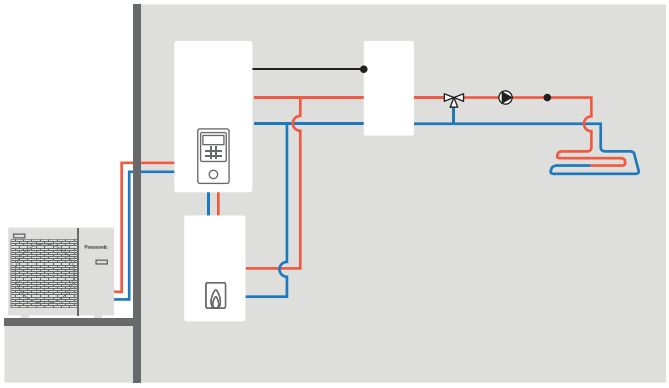
WH-MHF12G6E5

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

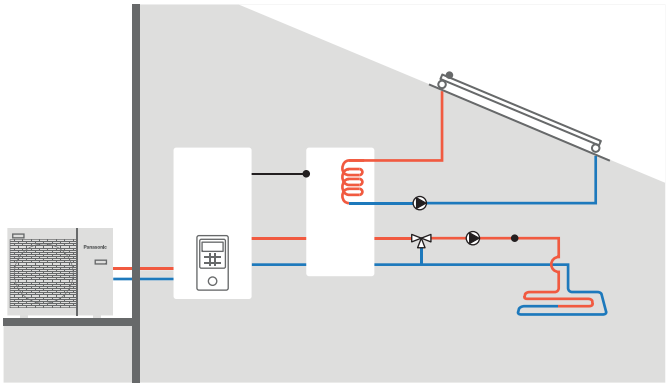
Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

EXAMPLES OF INSTALLATIONS

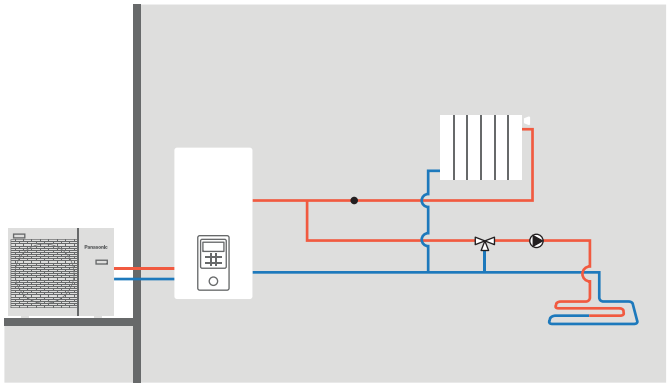
Aquarea J and H Generation:
Bivalent with buffer tank and mixing valve



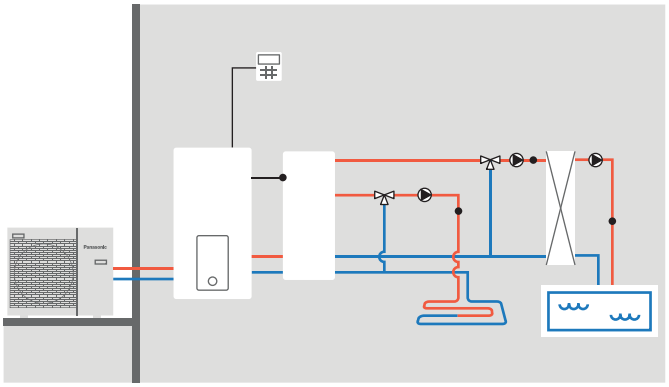
Aquarea J and H Generation:
Buffer tank with solar and mixing valve



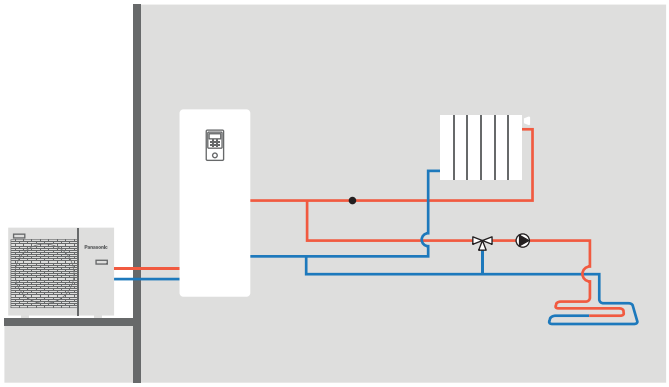
Aquarea J and H Generation:
2 zones with external kit without buffer tank



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



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



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