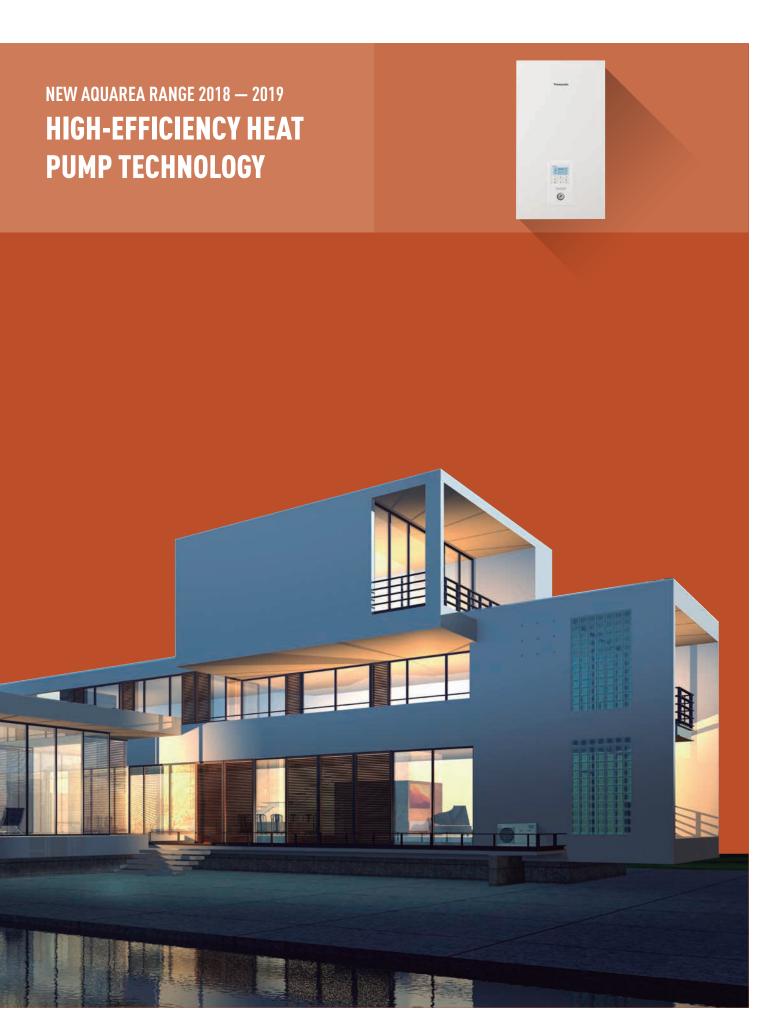
Panasonic



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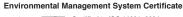




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Certified to ISO 9001: 2008 Panasonic Appliances Air-Conditioning (GuangZhou) Co., Ltd. Registration Number: 01209Q20645R5L







Certified to ISO 14001: 2004 Malaysia Sdn.Bhd. Cert. No.: MY-ER0112



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



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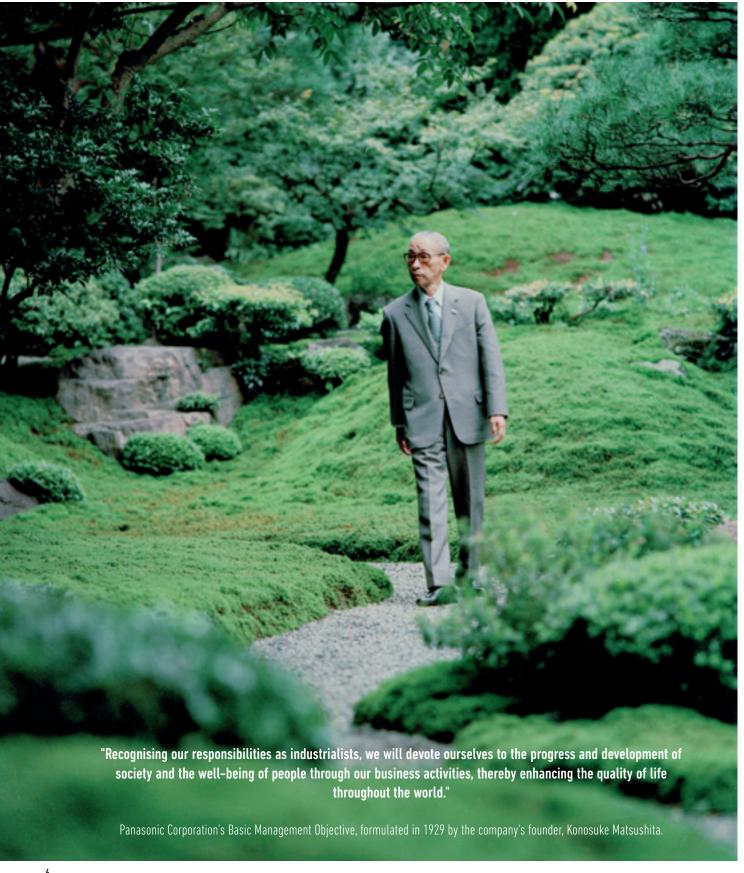


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A DESIRE TO CREATE THINGS OF VALUE



Panasonic: celebrating two major milestones in 2018.



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.



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.





1971Starts production of absorption chillers.



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



1975Panasonic 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.

Panasonic

A GLOBALLY TRUSTED AIR CONDITIONING BRAND



Panasonic – leading the way in Heating and Cooling. With more than 50 years of experience, selling to more than 120 countries around the world, Panasonic is one of the leaders in the heating and cooling sector.

With a diverse network of production and R&D facilities, Panasonic delivers innovative products incorporating cutting-edge technologies that set the standard for air conditioners worldwide.

Expanding globally, Panasonic provides superior international products transcending borders.



Testing laboratory Panasonic Gunma, Japan (PAPARS).

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.

Our project in Europe

With operations in 31 countries, Panasonic Europe is able to support your projects wherever you are located. Panasonic will ensure the same level of know how and quality throughout the chain. Panasonic offers its customers training centres and training academies for installers, design offices and service teams in all major countries. Your projects are safe in our hands.



Panasonic is committed to offering our customers innovative products in the heating and cooling market across Europe, which not only meet but exceed their requirements. Key to success is Panasonic's investment in R&D, manufacture and training to ensure innovative, cutting edge products and investment in our distribution channels and partners so that these products are accessible in Europe. Panasonic has developed a comprehensive network across Europe of training centers and training academies for installers, design offices and service teams in all major countries.

Panasonic

100% PANASONIC, THE DNA OF JAPANESE CRAFTSMANSHIP



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.

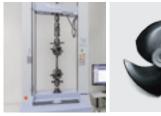
At Panasonic, we believe that the best air conditioner is one that works quietly and effectively in the background whilst minimising its impact on the environment

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.



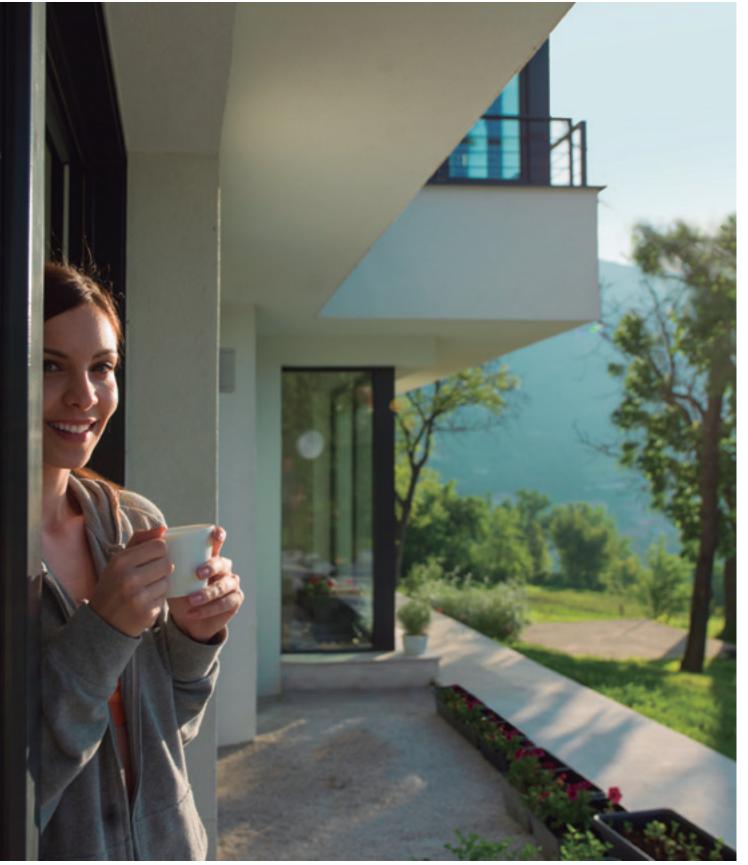


Waterproofing test.

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

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.

Exemplary sustainable projects

Fujisawa Sustainable Smart Town - Located Approximately 50km West of Tokyo.

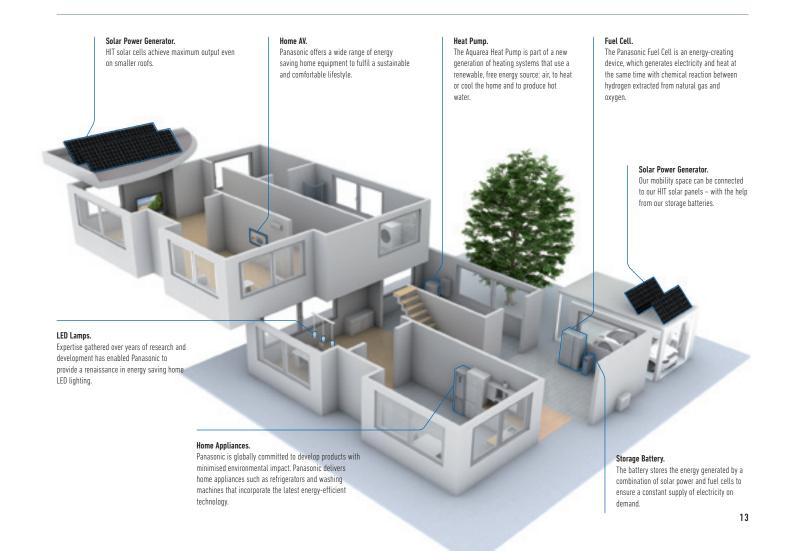
Fujisawa is an eco and smart town that holds people's lifestyles at the heart of town development. Fujisawa SST Council is a consortium led by Panasonic Corporation spearheading the development of the Fujisawa Sustainable Smart Town (Fujisawa SST).

The sustainable energy services in Fujisawa SST include Panasonic's cutting-edge technology for LED lighting, solar panels, storage batteries, and household fuel cell cogeneration systems or heat pump water heater equipped in each home.

The Fujisawa SST Management Company is the town management company located in the SQUARE, which is serving as the main landmark of the town and a central communication base. Together with partner companies, the company provides five essential services in the town: energy, security, mobility, healthcare and community. The company also collects and manages information relating to the town's overall environment, energy, security and safety to support an eco and smart life in the town.



There is also a detached housing zone for non car owners and by using the town's eco-car sharing and rent-a-car services, residents in the zone can enjoy their lifestyles without the need to own a car while reducing economic burden and making effective use of the lot. In addition to that, environmentally-friendly logistic services are provided to the residents.



Panasonic

PROJECTS & CASE STUDIES OF PANASONIC HEATING AND COOLING SOLUTIONS



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

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

Our main targets are the distributed services and B2B-integrated solutions.

Panasonic provides a single point of contact for the design and maintenance of your system, making things easy for you.

Given our experience in processes, technologies and complex business models, we can offer you effective solutions that reduce costs, whilst also being efficient, user-friendly, reliable and innovative. Another advantage we offer to our clients is a support service for systems integration projects, which we provide through our wide range of services and solutions.

As a global company, we have at our disposal the financial, logistical and technical resources to develop complex and wide-ranging solutions, both at country and international level by implementing them both on-time and on-budget.



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



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



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. $\mathbf{ECO}~\mathbf{G}$



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**

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
- \cdot Download the latest Aquarea designer to define your system and select the good Aquarea Heat pump.
- \cdot 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



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- · 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
- \cdot 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.



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 CO₂ 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 CO₂ 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
- · Aguarea 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.





Panasonic

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





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.



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 ${\rm CO_2}$ 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:

- · Extremely high efficiency (COP of 5,08 for 5kW Mono-bloc unit)
- · Line up developed for low consumption homes (starting at 3kW)
- \cdot T-CAP solution is ideal for cold areas, as it maintains the nominal capacity up to -15 $^{\circ}\text{C}$
- · Easy to control with your smart phone (using an optional interface)
- · Large range of efficient tanks for domestic hot water storage

Energy saving



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



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



Panasonic Inverter compressors are designed to achieve outstanding level of performance

High Performance



Aquarea High Performance for low consumption houses. From 3 to 16kW. For a house with low temperature radiators or underfloor heating, our high performance Aquarea HP is a good solution. *COP of 5,08 for 5kW Mono-bloc.



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 -15°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 as low as -20°C.



Water filter (easy access & fast clip technology) for H Generation.



Water stop valve included on H Generation.



Water Flow Sensor included on H Generation.



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.



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 H Generation.



Internet Control is 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 is integrated into the indoor unit and provides easy connection to, and control of, your Panasonic Heat Pump to your home or building management system.

 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?



Aguarea 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 Aguarea Heat Pump provides savings of up to 80% on heating expenses compared to electrical heaters. For example, the Aquarea 5kW system has a COP of 5,08. This is 5,08 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?

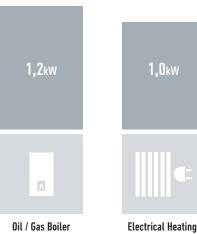
- · Heating, cooling and domestic hot water produced with a single system
- · Best in terms of efficiency: even at extreme outdoor temperatures
- · Environmentally advanced: can be connected to solar panels
- · Technology that adapts to each home: extreme low temp, high temperature, whatever the climate
- · Wide range of solutions: floor heating, radiators and fan coils
- · Reduced heating bills and maintenance costs
- · Reduce your carbon footprint
- \cdot 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

Aguarea 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

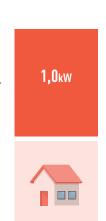
Based on Air to Water heat pump technology, Aquarea is highly efficient. It captures heat energy from the ambient air and transfers it to heat the water needed to warm your home and domestic hot water - it can even cool your home as required. Compared to other technologies, up to 80% of the heat energy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

Energy consumption comparison.









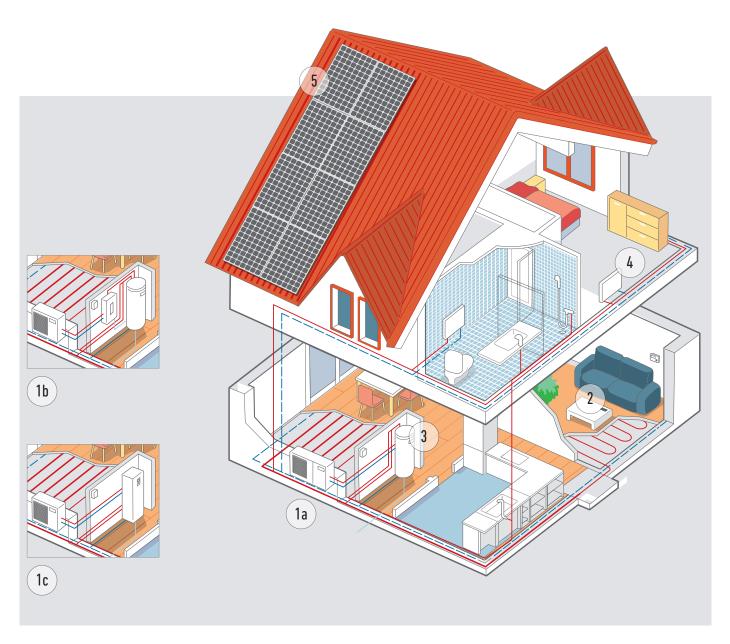


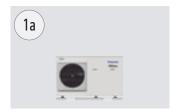
Power Input / Free Energy

Aguarea

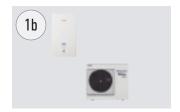
^{*} Rating conditions: Heating: Inside air temperature: 20°C Dry Bulb / Outside air temperature: 7°C Dry Bulb / 6°C Wet Bulb. Conditions: Water input temperature: 30°C Water output temperature: 35°C.

AQUAREA HEAT PUMP LINE-UP

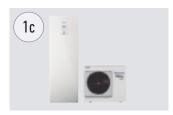




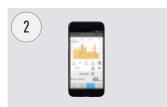
Mono-bloc system.



Bi-bloc system.



All in One system.



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



Super High Efficiency cylinder (optional).



High efficient radiators for heating and cooling (optional).



New versatile and efficient fan coil (optional).



Heat Pump + HIT Photovoltaic solar panel (optional).

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

Aquarea High Performance. For new installations and low consumption homes

Outstanding efficiency and energy savings with minimised ${\rm CO_2}$ emissions and minimum space. Improved performance with COP's up to 5,08.

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.

Aquarea DHW

A energy class in all tanks.

Possible to connect to solar plant or boiler.

SG Ready available.

Aquarea High Performance			Aquarea T-CAP		Aquarea HT		Aquarea DHW	
Mono-bloc	Bi-bloc	All in One	Mono-bloc	Bi-bloc	All in One	Mono-bloc	Bi-bloc	
	② ③ O			③ ③ 0			0	0
	ng - Cooling - E			ng - Cooling - I		Heating Single Phase fr		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		From 80 to 295L	
					Connect			
<u> </u>		535	<u> </u>		<u> </u>	40000	737	تريب
adiators - Fan I	Coil - Underfloor	heating - DHW	Radiators - Fan I	Coil - Underflooi	heating - DHW	Traditional high-temper	ature radiators - DHW	Domestic hot water
					Applic	cation		
						727		
Normal installation		For extreme cold ambient		Retrofit for old radiators		Only DHW		
					Energy e	fficiency		
A++ / A++ Heating 35°C / 55°C		A++ / A++ Heating 35°C / 55°C		A++ / A++ Heating 35°C / 55°C		A Floor standing DHW 65°C /		
								Wall mounted DHW 55°C
	2000				ambient tempe	erature limit. Operation		700
-20°C		-28°C -20°C Outdoor ambient temperature limit. Constant capacity (35°C)		-7°C				
	F00		U		t temperature t			
	-7°C			-20°C		-15	-	
				ating. Max. / Heat pump only		FF00 / /F00 / FF00		
	75°C / 55°C		75°C / 60°C¹		75°C / 65°C		75°C / 65°C / 55°C	
		1		. 0	Control and	<u> </u>	10 11	0
Smart Grid Ready ¹		Smart Grid Ready ¹		Smart Grid Ready ¹		Smart Grid Ready ¹		
Wi	reless Lan Read	У	Wi	reless Lan Read		Wireless L	an Keady	
					Ran	nge		
Mono-	oc from 3 to 16 bloc from 5 to 1 from 3 to 16kV	16kW	Mono-	loc from 9 to 16 bloc from 9 to e from 9 to 16k\	16kW	Bi-bloc from Mono-bloc fro		From 80 to 295L

AQUAREA H GENERATION A+++



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)
- \cdot 3 & 5 kW models will meet the energy efficiency class A+++ as applicable from Sept. 2019

Aguarea, a new 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 lower limit. The compact design of the outdoor unit makes installation very easy.

Design

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

Installer Friendly:

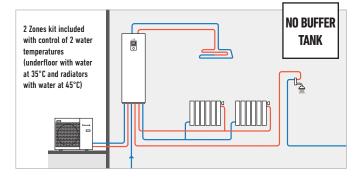
- · Electrical connections is now located on front side
- · Easy access to parts and easy to install by having all pipings in a row
- · Remote controller with full dotted wide screen and new functions
- · Can connect additional room temperature sensor, solar kit, 2 zones control, swimming pool and circulating 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
- \cdot 2 water pumps and 2 water filters
- · Floor heating water control with mixing valve





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.

BEST IN TEST 2017: * Applies to All in One T-CAP 9kW H Generation Three Phase at 35°C water outlet temperature test: The highest measured SCOP (energy efficiency) of all air/water heat pumps, in the corresponding category, that have been published on the heat pump list of the Danish Technological Agency: sparenergi.dk/forbruger/vaerkloejer/

Aguarea Smart Cloud for H Generation

The most advanced heating control for today and for the future:

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 domestic hot water functions, including monitoring energy consumption, Malfunction notification, Failure & Remote Servicing as some options.

Advanced Control

Ease of use: Remote controller with full dotted 3,5" wide back light screen provides clearer visibility to the user.

Relocation: Remote controller can be installed up to 50m from the indoor unit.

Accessory

Optional PCB (CZ-NS4P). With this PCB you can also manage one or more functions like below: SG Ready, 0-10V demand signal, 2-zones control function (pump + mixing valve), solar and external switch (heat / cool).

AQUAREA HIGH PERFORMANCE



For new installations and low consumption homes. Outstanding efficiency and energy savings with minimised CO₂ 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

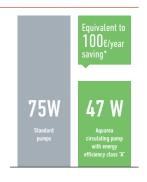
- · Improved performance with COP's up to 5,08
- · Reduced energy consumption through our circulating pump with energy efficiency class "A"
- · Remote controller functions added: Auto mode, holiday mode, power consumption display

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

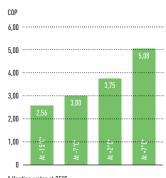
Standard circulating pumps vs our circulating pump with energy efficiency class "A"

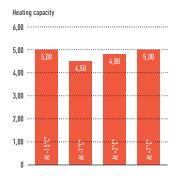
Comparison of energy consumption of circulation pumps. Circulating pump with energy efficiency class "A" with Dynamic flow control for 5kW Mono-bloc.

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



High Performance Pumps are also Highly Efficient (take the WH-MDC05F3E5 for example)

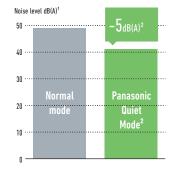




Panasonic created a night mode to reduce the noise when it's needed

Special attention has been given to noise levels

- 1. Sound pressure measured at 1m from the outdoor unit and at
- 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).



Advanced Controller for 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.

Remote controller

Panasonic has introduced a remote controller to improve performance, enhance comfort and improve even more the savings of the system.

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
- · 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

^{*} Heating water at 35°C.

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.

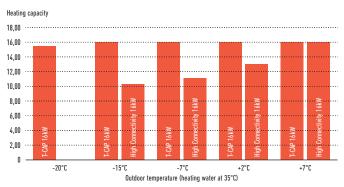
Higher efficiency compared to other heating systems

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

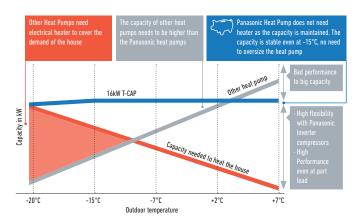
- Ability to maintain the heat pump kW¹ output capacity until -20°C outdoor temperature without the help of an electrical booster heater
- · High heating capacity even at low ambient temperatures
- · Additional functions: Auto and holiday mode, boost, drying concrete and power consumption display
- · Backup heater capacity can be selected depending on the model (3/6/9kW)
- · Cooling mode activation possible via software²

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)
- \cdot Panasonic heat pumps can work in outdoor temperatures as low as -28°C and guarantee the capacity without backup heating down to -20°C¹
- 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 Bi-bloc T-CAP

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



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.

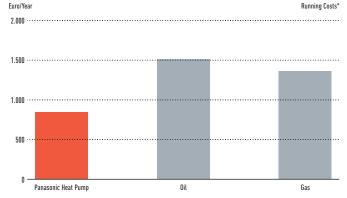
Green energy source works with existing radiators

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,

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



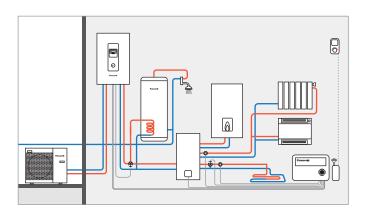
^{*} For a 170m² house and 40 W/m² energy losses in central Europe Conditions, outside minimum conditions -10°C.

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.

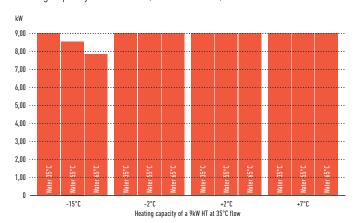


Easy installation

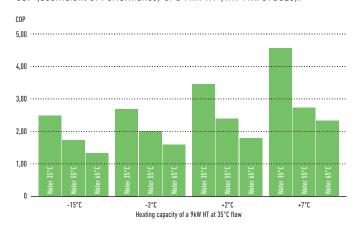
Air source Heat Pumps are simple to install. They do not require a chimney, gas connection or oil/lpg tank. All that is required is a power supply connection.

Panasonic Aquarea HT is highly efficient even at low outdoor temperatures

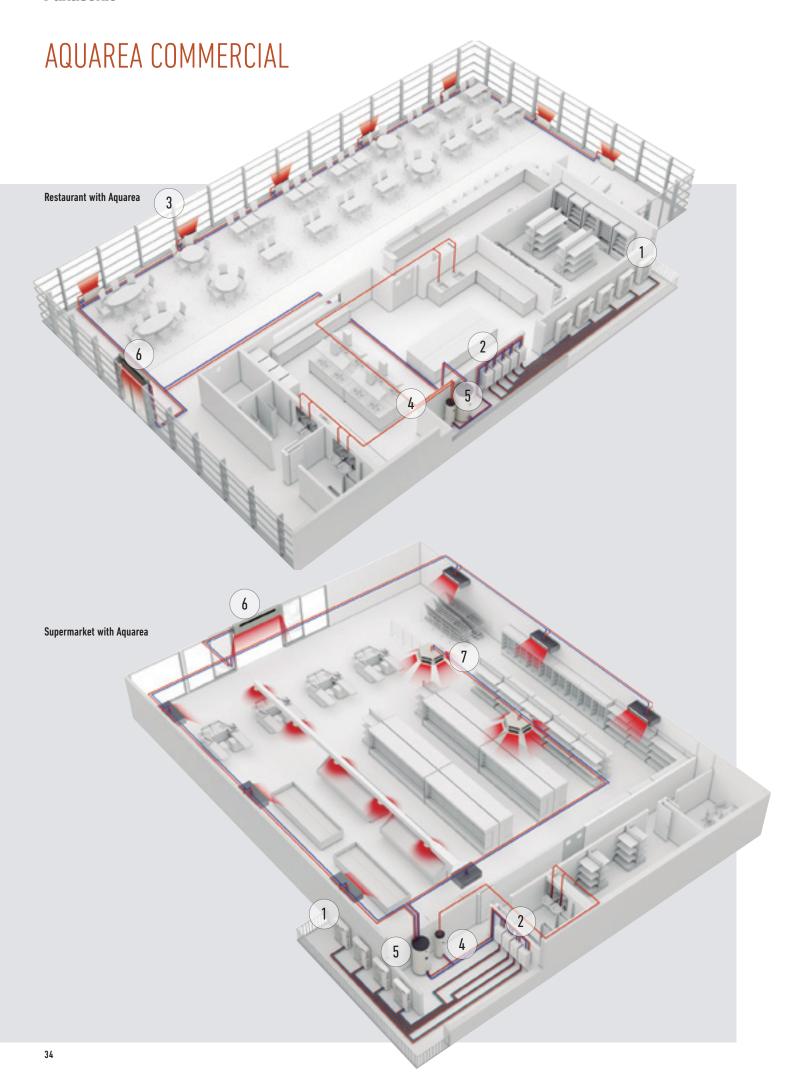
Heating Capacity of a 9kW HT (WH-SHF09F3E5).



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.



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



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



High Efficiency Aquarea Hydrokit.



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



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



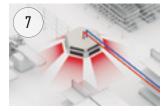
Super high efficiency Tanks.From 200L to 500L for domestic hot water.



Buffer Tank of 1000L.



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



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 & SERVICE CLOUD

1 AQUAREA SMART CLOUD FOR END USERS





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

Functions:

- · Visualization & 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 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	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.



The most advanced heating control for today and for the future.

Aquarea connect to Cloud with CZ-TAW1, opening 2 different platforms.

NEW **2018**

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
- · All settings available

Service available in April 2018.

Home page.

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



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



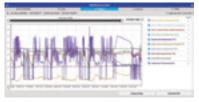
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Statistics tag.

Customisable statistics of a maximum 73 parameters. Available anytime with the information of last 7 days.

Settings tag.

Full settings of system remotely including user and installer settings





Activation Aquarea Service Cloud

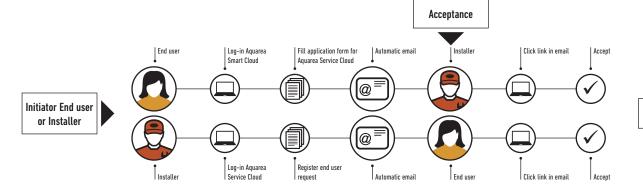
Requirements.

Hardware and connection	End user registration	Installer / maintenance registration
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 & 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 Modbus and KNX, 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.

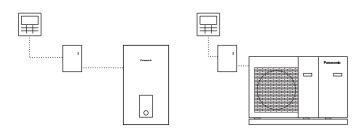
Connectivity. Control by BMS

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

PAW-AW-KNX-1i / PAW-AW-KNX-H	Modbus ° Paw-aw-mbs-h
✓	✓
✓ Fully interoperable	
	✓ Fully interoperable
v	~
	PAW-AW-KNX-1i / PAW-AW-KNX-H

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 H Generation)		
PAW-AW-MBS-1	Modbus interface (not compatible with H Generation)		
PA-AW-WIFI-1TE Intenet control Wifi connection (not compatible with H Generation)			
CZ-TAW1	Aguarea Smart Cloud, H Generation Internet control through wireless or wired LAN		



AQUAREA + PV PANELS





Aquarea 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.

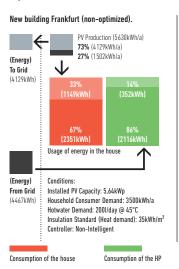
With this Aquarea demand is adapting all moment with the PV panel production.

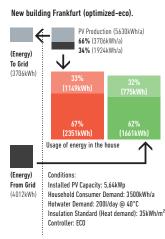
Innovative algorithm balancing the heat pump's consumption and the in-house comfort, based on the outside temperature and the energy demand of the building.

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:

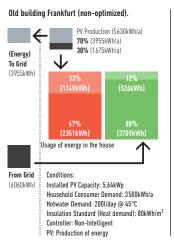


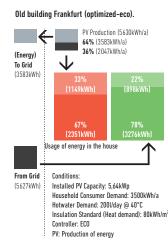




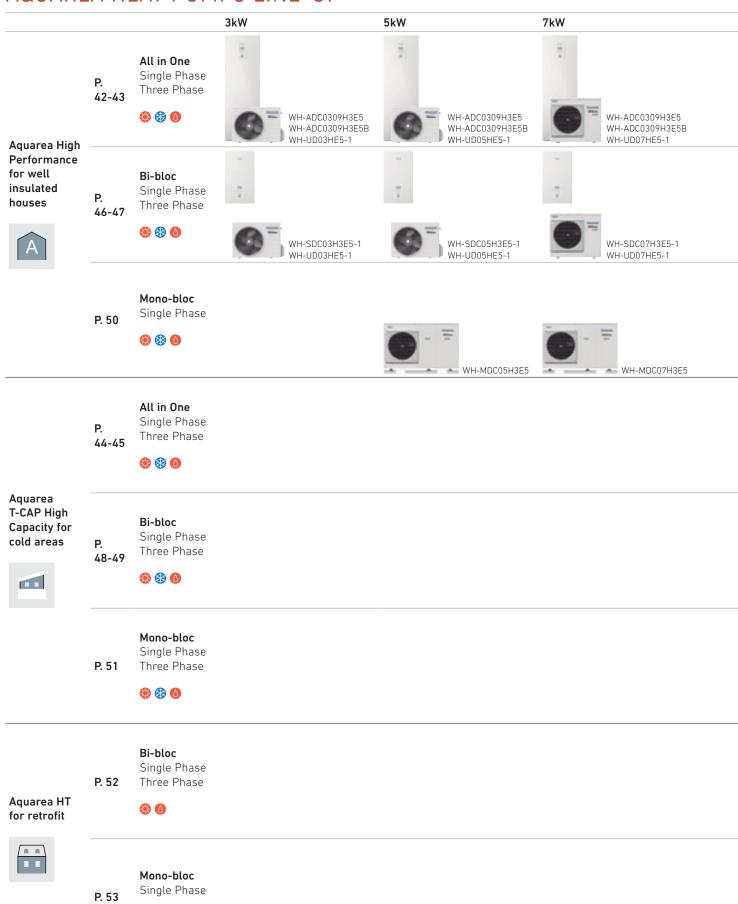
Comparison on old housing. Increase usage of self production by: 71%

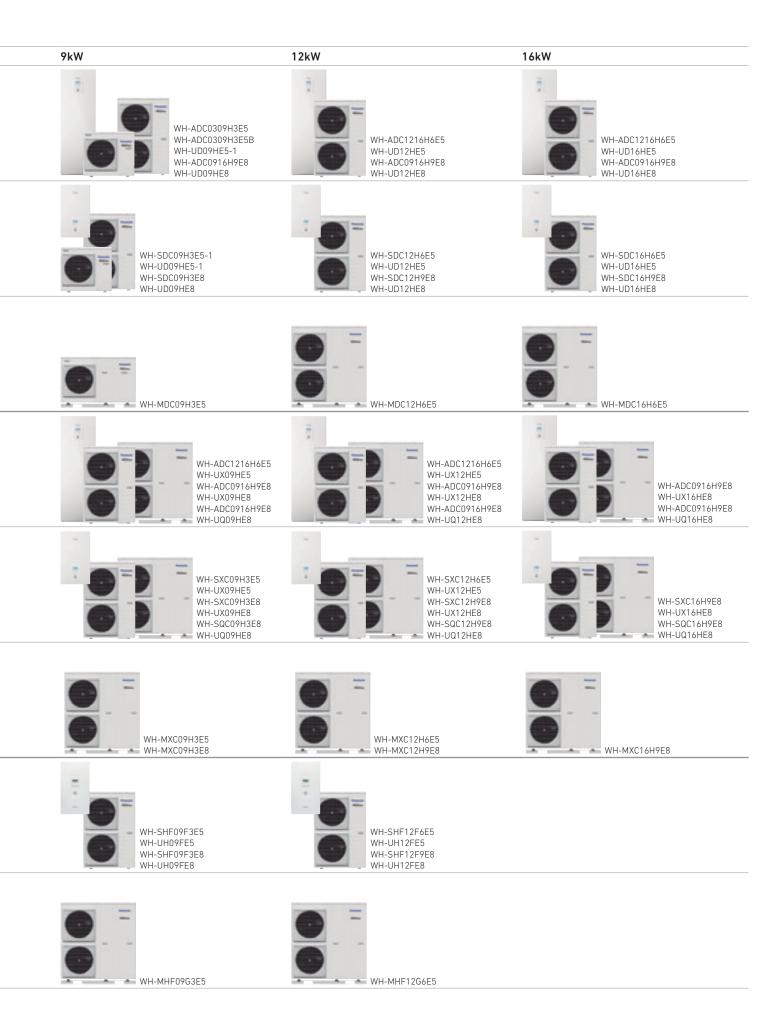
The Panasonic Aquarea PV Control could increase the energy consumption of the heat pump coming from the Photovoltaic Panels from 526kWh to 898kWh a year. Results of simulations:





AQUAREA HEAT PUMPS LINE-UP





All in One High Performance

AQUAREA ALL IN ONE H GENERATION HIGH PERFORMANCE BI-BLOC SINGLE PHASE. **HEATING AND COOLING 1 OR 2 ZONES**

Panasonic has developed a highly efficient solution, easy to install

Aquarea All in One is the new generation of Panasonic Heat Pumps for Heating, Cooling and Domestic Hot Water (DHW). This range intelligently integrates the best Hydrokit technology with a stainless steel tank.

Technical focus

Kit

- · Space saving: 1800 x 598 x 717 (H x W x D)
- · Reduced installation costs

Heating capacity (A +7°C, W 35°C)

Heating capacity (A +2°C, W 35°C)

- · Piping at the bottom of the All in One (easy to install)
- · Reduced installation time and minimised installation errors

kW

W/W



- · 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 (Po	ower to indoor)		
KIT-ADC07HE5	KIT-ADC09HE5	KIT-ADC12HE5*	KIT-ADC16HE5*
7,00	9,00	12,00	16,00
4,46	4,13	4,74	4,28
6,55	6,70	11,40	13,00
3,34	3,13	3,44	3,28
5,15	5,90	10,00	11,40
2,68	2,52	2,73	2,57
6,00	7,00	10,00	12,20

nealing capacity (A +2 C, W 33 C)	KVV	3,20	4,20	0,00	0,70	11,40	13,00
COP (A +2°C, W 35	°C)	W/W	3,56	3,11	3,34	3,13	3,44	3,28
Heating capacity (A -7°C, W 35°C)	kW	3,20	4,20	5,15	5,90	10,00	11,40
COP (A -7°C, W 35°	°C)	W/W	2,69	2,59	2,68	2,52	2,73	2,57
Cooling capacity (A	A 35°C, W 7/12°C)	kW	3,20	4,50	6,00	7,00	10,00	12,20
EER (A 35°C, W 7/	12°C)	W/W	3,08	2,69	2,63	2,43	2,81	2,56
Energy Efficiency (Class at 35°C¹ / 55°C¹ / C	HW ²	A++ / A++ / A	A++ / A++ / A	A++ / A++ / A			
System label 35°C	: / 55°C³		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor unit 1 zone	hydrokit		WH-ADC0309H3E5	WH-ADC0309H3E5	WH-ADC0309H3E5	WH-ADC0309H3E5	WH-ADC1216H6E5	WH-ADC1216H6E5
Indoor unit 2 zone	s 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	33/33	33/33
Dimension	HxWxD	mm	1800×598×717	1800×598×717	1800×598×717	1800×598×717	1800×598×717	1800×598×717
Net weight		kg	124	124	124	124	124	124
Water pipe connec	tor	Inch	R11/4	R11/4	R11/4	R11/4	R11/4	R11/4
A alasa auraa	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	30/120	30 / 120	30 / 120	30 / 120	36 / 152	36 / 152
Heating water flow	v (ΔT=5 K. 35°C)	L/min	9,2	14,3	20,1	25,8	34,4	45,9
Capacity of integra	ated electric heater	kW	3	3	3	3	6	6
Recommended fus	se	Α	15/15	15/15	30 / 15	30 / 15	30/30	30 / 30
Recommended cal	ble 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	3 x 4,0 / 3 x 4,0	3 x 4,0 / 3 x 4,0
Water volume		L	185	185	185	185	185	185
Maximum water te	emperature	°C	65	65	65	65	65	65
Material inside tan	ık		Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Outdoor unit			WH-UD03HE5-1	WH-UD05HE5-1	WH-UD07HE5-1	WH-UD09HE5-1	WH-UD12HE5	WH-UD16HE5
Sound pressure	Heat / Cool	dB(A)	48/47	49 / 48	50 / 48	51 / 50	52/50	55/54
Sound power	Heat / Cool	dB	64/65	65/66	68/66	69 / 68	69/68	72 / 72
Dimension	HxWxD	mm	622 x 824 x 298	622 x 824 x 298	795 x 900 x 320	795×900×320	1340×900×320	1340×900×320
Net weight		kg	39	39	66	66	101	101
Refrigerant (R410)	4)	kg/TCO ₂ Eq.	1,20/2,506	1,20/2,506	1,45/3,028	1,45/3,028	2,55/5,324	2,55 / 5,324
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)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range		m	3~15	3~15	3~40	3 ~ 40	3~50	3~50
Elevation difference	ce (in/out)	m	5	5	30	30	30	30
Pipe length for add	ditional gas	m	10	10	10	10	10	10
Additional gas am	ount	g/m	20	20	30	30	50	50
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35

KIT-ADC05HE5

5,00

4,20

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

25~55/5~20

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. 2) Scale from A to G. 3) Scale from A+++ to D. System label with controller.

25~55/5~20



Water outlet





Heat / Cool









25~55/5~20

KIT-ADC03HE5

3,20









25~55/5~20







25~55/5~20





25~55/5~20

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 ALL IN ONE H GENERATION HIGH PERFORMANCE BI-BLOC THREE PHASE. HEATING AND COOLING

Panasonic has developed a highly efficient solution, easy to install

Aquarea All in One is the new generation of Panasonic Heat Pumps for Heating, Cooling and Domestic Hot Water (DHW). This new range intelligently integrates the best Hydrokit technology with a stainless steel tank.

Technical focus

- · Space saving: 1800 x 598 x 717 (H x W x D)
- · 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)









				Three Phase (Power to indoor)	
Kit			KIT-ADC9HE8	KIT-ADC12HE8	KIT-ADC16HE8
Heating capacity (A +7°C, W 3	85°C)	kW	9,00	12,00	16,00
COP (A +7°C, W 35°C)		W/W	4,84	4,74	4,28
Heating capacity (A +2°C, W 3	85°C)	kW	9,00	11,40	13,00
COP (A +2°C, W 35°C)		W/W	3,59	3,44	3,28
Heating capacity (A -7°C, W 3	5°C)	kW	9,00	10,00	11,40
COP (A -7°C, W 35°C)		W/W	2,85	2,73	2,57
Cooling capacity (A 35°C, W 7	/12°C)	kW	7,00	10,00	12,20
EER (A 35°C, W 7/12°C)		W/W	3,17	2,85	2,56
Energy Efficiency Class at 35	°C ¹ / 55°C ¹ / DHW ²		A++ / A++ / A	A++ / A++ / A	A++ / A++ / A
System label 35°C / 55°C³			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	HxWxD	mm	1800×598×717	1800×598×717	1800 x 598 x 717
Net weight		kg	126	126	126
Water pipe connector		Inch	R11/4	R 1 1/4	R11/4
A -1	Number of speeds		Variable Speed	Variable Speed	Variable Speed
A class pump Input power (Min / Max)		W	36 / 152	36 / 152	36 / 152
Heating water flow (ΔT=5 K. 3	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, su	pply 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			Stainlesssteel	Stainless steel	Stainless steel
Outdoor unit			WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
Sound pressure	Heat / Cool	dB(A)	51 / 49	52/50	55/54
Sound power	Heat / Cool	dB	68 / 67	69 / 68	72 / 72
Dimension	HxWxD	mm	1340×900×320	1340×900×320	1340 x 900 x 320
Net weight		kg	107	107	107
Refrigerant (R410A)		kg/TCO2 Eq.	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
Pipe length range		m	3~30	3~30	3~30
Elevation difference (in/out)		m	30	30	30
Pipe length for additional gas	;	m	10	10	10
Additional gas amount		g/m	50	50	50
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35

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 6. 2) Scale from A to 6. 3) Scale from A+++ to D. System label with controller.































All in One T-CAP

AQUAREA ALL IN ONE H GENERATION T-CAP BI-BLOC SINGLE PHASE / THREE PHASE. HEATING AND COOLING

10.0





Benefits of the T-CAP All in One unit!

Aquarea T-CAP can work in extreme outdoor conditions as low as -28°C and warranty the capacity without back up heating down to -20°C. Ready to work at extreme outdoor conditions the H Generation T-CAP can produce water up to 60°C, expanding its possibilities for retrofit application.

- · 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)

Technical focus

- · Works at temperatures as low as -28°C
- · Constant capacity up to -20°C











			Single Phase (F	ower to indoor)	In	ree Phase (Power to indo	or)
Kit			KIT-AXC9HE5	KIT-AXC12HE5	KIT-AXC9HE8	KIT-AXC12HE8	KIT-AXC16HE8
Heating capacity	(A +7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +7°C, W 3	5°C)	W/W	4,84	4,74	4,84	4,74	4,28
Heating capacity	(A +2°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +2°C, W 3!	5°C)	W/W	3,59	3,44	3,59	3,44	3,10
Heating capacity	(A -7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A -7°C, W 35	5°C)	W/W	2,85	2,72	2,85	2,72	2,49
Cooling capacity (A 35°C, W 7/12°C)	kW	7,00	10,00	7,00	10,00	12,20
EER (A 35°C, W 7/		W/W	3,17	2,81	3,17	2,81	2,57
Energy Efficiency	Class at 35°C1 / 55°C1 /	DHW ²	A++ / A++ / A				
System label 35°			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	HxWxD	mm	1800×598×717	1800×598×717	1800×598×717	1800 x 598 x 717	1800×598×717
Net weight		kg	124	124	126	126	126
Water pipe conne	ctor	Inch	R11/4	R11/4	R11/4	R 1 1/4	R11/4
A -1	Number of speeds		Variable Speed				
A class pump	Input power (Min/Ma	x) W	36/152	36/152	36/152	36 / 152	36 / 152
Heating water flo	w (ΔT=5 K. 35°C)	L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integr	ated electric heater	kW	6	6	9	9	9
Recommended fu	se	А	30/30	30/30	16/16	16/16	16/16
Recommended ca	able 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	5x1,5/5x1,5
Water volume		L	185	185	185	185	185
Maximum water t	emperature	°C	65	65	65	65	65
Material inside ta	nk		Stainless steel				
Outdoor unit			WH-UX09HE5	WH-UX12HE5	WH-UX09HE8	WH-UX12HE8	WH-UX16HE8
Sound pressure	Heat / Cool	dB(A)	51 / 49	52/50	51 / 49	52/50	55 / 54
Sound power	Heat / Cool	dB	68/67	69/68	68/67	69/68	72 / 71
Dimension	HxWxD	mm	1340 x 900 x 320				
Net weight		kg	101	101	108	108	118
Refrigerant (R410	IA)	kg/TCO, Eq.	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 differen	ce (in/out)	m	20	20	20	20	20
Pipe length for ac	Iditional gas	m	10	10	10	10	10
Additional gas am	nount	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	25~60/5~20	25~60/5~20	25~60/5~20	25~60/5~20	25~60/5~20

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 6. 2) Scale from A++ to 6. 2) Scale from A++ to 6. 3) Scale from A++ to 7. Construction in the second of the second o



































NEW AQUAREA ALL IN ONE H GENERATION T-CAP BI-BLOC THREE PHASE. SUPER QUIET OUTDOOR UNIT. HEATING AND COOLING

Benefits of the T-CAP All in One unit!

Aquarea T-CAP can work in extreme outdoor conditions as low as -28°C and warranty the capacity without back up heating down to -20°C . Ready to work at extreme outdoor conditions the H Generation T-CAP can produce water up to 60°C , expanding its possibilities for retrofit application.

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)









Reating capacity (A +7°C, W 35°C)					Three Phase (Power to indoor)	
COP (A +7°C, W 35°C)	Kit			KIT-AQC9HE8	KIT-AQC12HE8	KIT-AQC16HE8
	Heating capacity (A +7°C, W 35°C)		kW	9,00	12,00	16,00
COP (A +2°C, W 35°C)	COP (A +7°C, W 35°C)		W/W	4,84	4,74	4,28
Reating capacity (A -7°C, W 35°C)	Heating capacity (A +2°C	C, W 35°C)	kW	9,00	12,00	16,00
COP A - 7°C, W 35°C)	COP (A +2°C, W 35°C)		W/W	3,59	3,44	3,10
Cooling capacity (A 35°C, W 7/12°C)	Heating capacity (A -7°C	;, W 35°C)	kW	9,00	12,00	16,00
SER (A 35°C, W 7/12°C)	COP (A -7°C, W 35°C)		W/W	2,85	2,72	2,49
Part	Cooling capacity (A 35°C	, W 7/12°C)	kW	7,00	10,00	12,20
System label 35°C / 55°C 3	EER (A 35°C, W 7/12°C)		W/W	3,17	2,81	2,57
Mart	Energy Efficiency Class	at 35°C1 / 55°C1 / DHW2		A++ / A++ / A	A++ / A++ / A	A++ / A++ / A
Sound pressure Heat / Cool dB(A) 33/33	System label 35°C / 55°	C ³		A+++ / A++	A+++ / A++	A+++ / A++
Simension HxWxD mm 1800x598x717 1800x598	Indoor unit			WH-ADC0916H9E8	WH-ADC0916H9E8	WH-ADC0916H9E8
Name	Sound pressure	Heat / Cool	dB(A)	33 / 33	33/33	33/33
Number of speeds Number of	Dimension	HxWxD	mm	1800×598×717	1800 x 598 x 717	1800×598×717
A class pump Number of speeds Variable Speed Variable Speed Variable Speed A class pump Input power (Min / Max) W 36 / 152 36 / 152 36 / 152 detaining water flow (ΔT = 5 K . 35°C) L/min 25.8 34,4 45,9 Lapacity of integrated electric heater kW 9 9 9 9 Recommended fuse A 16 / 16 16 / 16 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 <th< td=""><td>Net weight</td><td></td><td>kg</td><td>126</td><td>126</td><td>126</td></th<>	Net weight		kg	126	126	126
Input power (Min / Max) W 36 / 152 36 / 152 36 / 152 Heating water flow (AT=5 K. 35°C) L/min 25,8 34,4 45,9 Lapacity of integrated electric heater kW 9 9 9 Recommended fuse A 16 / 16 16 / 16 16 / 16 Recommended cable size, supply 1 & 2 mm² 5x1,5 / 5x1,5 5x1,5 / 5x1,5 5x1,5 / 5x1,5 Water volume L 185 185 185 Water volume L 185 185 185 Water inside tank Stainless steel Stainless steel Stainless steel Stainless steel MH-UQ12HE8 MH-UQ14HE8 Stound pressure Heat / Cool dB 61 / 63 62 / 64 65 / 68 Stound power Heat / Cool dB 61 / 63 62 / 64 65 / 68 Steringension HxWxD mm 1410x1283x320 1410x1283x320 1410x1283x320 1410x1283x320 Retrigerant (R410A) kg T51 161 Refrigerant (R410A) kg T51 2,85 / 5,951 2,99 / 6,248 Pipe length range m 3 ~ 30 3 ~ 30 3 ~ 30 Pipe length range m 10 10 10 Redditional gas amount g/m 50 50 Repeation range Outdoor ambient °C -28 ~ +35 -28 ~ +35 -28 ~ +35 -28 ~ +35 Retrigerant range Outdoor ambient °C -28 ~ +35 -28 ~ +35 -28 ~ +35 -28 ~ +35 -28 ~ +35 Retrigerant range Outdoor ambient °C -28 ~ +35 -28 ~ +35 -28 ~ +35 -28 ~ +35 -28 ~ +35 -28 ~ +35 -28 ~ +35 Retrigerant range Outdoor ambient °C -28 ~ +35 -	Water pipe connector		Inch	R11/4	R11/4	R11/4
Input power (Min / Max) W 36/152 36/152 36/152 36/152	A -1	Number of speeds		Variable Speed	Variable Speed	Variable Speed
Standard Standard	4 class pump	Input power (Min / Max)	W	36 / 152	36 / 152	36 / 152
Recommended fuse A 16/16	Heating water flow (ΔT=	5 K. 35°C)	L/min	25,8	34,4	45,9
Recommended cable size, supply 1 & 2 mm² 5x1,5/5x1,5 5x1,5/5x1,5/5x1,5 5x1,5/5	Capacity of integrated el	ectric heater	kW	9	9	9
Valer volume	Recommended fuse		A	16/16	16/16	16/16
Adazimum water temperature °C 65 65 65 Material inside tank Stainless steel Stainless steel Stainless steel Stainless steel Outdoor unit WH-UQ09HE8 WH-UQ12HE8 WH-UQ16HE8 Sound pressure Heat / Cool dB(A) 47 / 48 48 / 49 51 / 53 Sound power Heat / Cool dB 61 / 63 62 / 64 65 / 68 Dimension HxWxD mm 1410x1283x320 1410x1283x320 1410x1283x320 Net weight kg 151 151 161 Refrigerant (R410A) kg / TCO₂ Eq. 2,85 / 5,951 2,85 / 5,951 2,99 / 6,243 Pipe length range 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) 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) 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) <	Recommended cable siz	e, 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
Stainless steel Stainless	Water volume		L	185	185	185
Outdoor unit WH-UQ09HE8 WH-UQ12HE8 WH-UQ16HE8 Sound pressure Heat / Cool dB(A) 47 / 48 48 / 49 51 / 53 Sound power Heat / Cool dB 61 / 63 62 / 64 65 / 68 Sound power HxxxD mm 1410x1283x320 1410x1283x320 1410x1283x320 Side weight kg 151 151 161 Refrigerant (R410A) kg / TCO2 / Eq. 2,85 / 5,951 2,85 / 5,951 2,99 / 6,243 Pipe length range Liquid / Gas Inch (mm) 3/8 (9,52) / 5/8 (15,88)	Maximum water temper	ature	°C	65	65	65
Sound pressure Heat / Cool dB(A) 47/48 48/49 51/53 Sound power Heat / Cool dB 61/63 62/64 65/68 Dimension HxWxD mm 1410x1283x320 1410x1283x320 1410x1283x320 Net weight kg 151 151 161 Verigerant (R410A) kg/TCO ₂ Eq. 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	Material inside tank			Stainless steel	Stainless steel	Stainless steel
Sound power Heat / Cool dB 61/63 62/64 65/68 Dimension HxWxD mm 1410x1283x320 1410x1283x320 1410x1283x320 Net weight kg 151 151 161 Refrigerant (R410A) kg/TCO, Eq. 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)	Outdoor unit			WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8
Dimension	Sound pressure	Heat / Cool	dB(A)	47 / 48	48 / 49	51 / 53
Net weight kg 151 151 161 Refrigerant (R410A) kg / TCO₂ Eq. 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)	Sound power	Heat / Cool	dB	61 / 63	62 / 64	65/68
Refrigerant (R410A) kg / TCO₂ Eq. 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)	Dimension	HxWxD	mm	1410×1283×320	1410×1283×320	1410 x 1283 x 320
Pipe diameter Liquid / Gas Inch (mm) 3/8 (9,52) / 5/8 (15,88) 3/8	Net weight		kg	151	151	161
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	Refrigerant (R410A)		kg/TCO ₂ Eq.	2,85 / 5,951	2,85 / 5,951	2,99/6,243
Prevalent of difference (in/out) m 20 20 20 20 20 20 20	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 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	Pipe length range		m			3~30
Additional gas amount g/m 50 50 50 Operation range Outdoor ambient °C -28~+35 -28~+35 -28~+35	Elevation difference (in/out)		m	20	20	20
Operation range Outdoor ambient °C -28~+35 -28~+35 -28~+35	Pipe length for additional gas		m	10	10	10
	Additional gas amount		g/m	50	50	50
Vater outlet Heat / Cool °C 20-60/5-20 20-60/5-20 20-60/5-20	Operation range	Outdoor ambient	-	-28~+35	-28~+35	-28~+35
	Water outlet	Heat / Cool	°C	20-60/5-20	20-60/5-20	20-60/5-20

Accessories	
PAW-ADC-PREKIT-1	Pre installation kit for piping
PAW-ADC-CV150	Decorative magnetic side cover
C7-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 6.2) Scale from A++ to 6.3) Scale from A++ to 0.5 System label with controller.



































Bi-bloc High Performance

AQUAREA H GENERATION HIGH PERFORMANCE BI-BLOC SINGLE PHASE. HEATING AND COOLING - SDC

The new H Generation are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3,2kW)

Thanks to the system's high degree of technology and advanced control, it is able to maintain a high capacity and efficiency even at -7°C and -15°C. The Aquarea's software is optimised to the requirements of low consumption homes in order to maximise energy efficiency. Whatever the weather, Aquarea can work even at -20°C. The compact design of the outdoor unit makes installation very easy.

Technical focus

· Super efficient: COP of 5 in the 3,2kW!



- · Very high energy savings A+++ (*)
- · Simple installation & maintenance
- \cdot 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	KIT-WC012H6E5	KIT-WC016H6E5
Heating capacity (A	4 +7°C, W 35°C)	kW	3,20	5,00	7,00	9,00	12,00	16,00
COP (A +7°C, W 35°	°C)	W/W	5,00	4,63	4,46	4,13	4,74	4,28
Heating capacity (A	4 +2°C, W 35°C)	kW	3,20	4,20	6,55	6,70	11,40	13,00
COP (A +2°C, W 35°	°C)	W/W	3,56	3,11	3,34	3,13	3,44	3,28
Heating capacity (A	4 -7°C, W 35°C)	kW	3,20	4,20	5,15	5,90	10,00	11,40
COP (A -7°C, W 35°	°C)	W/W	2,69	2,59	2,68	2,52	2,73	2,57
Cooling capacity (A	35°C, W 7/12°C)	kW	3,20	4,50	6,00	7,00	10,00	12,20
EER (A 35°C, W 7/1	2°C)	W/W	3,08	2,69	2,63	2,43	2,81	2,56
Energy Efficiency C	Class at 35°C¹ / 55°C¹		A++ * / A++	A++ * / A++	A++ * / A++			
System label 35°C	/ 55°C²		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Indoor unit			WH-SDC03H3E5-1	WH-SDC05H3E5-1	WH-SDC07H3E5-1	WH-SDC09H3E5-1	WH-SDC12H6E5	WH-SDC16H6E5
Sound pressure	Heat / Cool	dB(A)	28 / 28	28 / 28	30/30	30/30	33 / 33	33 / 33
Dimension	HxWxD	mm	892 x 500 x 340	892 x 500 x 340	892 x 500 x 340			
Net weight		kg	44	44	44	44	44	45
Water pipe connect	tor	Inch	R 1 1/4	R11/4	R11/4	R 1 1/4	R11/4	R 1 1/4
A -1	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pump	Input power (Min/Max)	W	30/100	33 / 106	34/114	40 / 120	34/110	30 / 105
Heating water flow	(ΔT=5 K. 35°C)	L/min	9,2	14,3	20,1	25,8	34,4	45,9
Capacity of integra	ted electric heater	kW	3	3	3	3	6	6
Recommended fus	е	Α	15/30	15/30	15/30	15/30	30 / 30	30/30
Recommended cab	le size, supply 1 & 2	mm²	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3x1,5/3x1,5	3x4,0or6,0/3x4,0	3 x 4,0 or 6,0 / 3 x 4,0
Outdoor unit			WH-UD03HE5-1	WH-UD05HE5-1	WH-UD07HE5-1	WH-UD09HE5-1	WH-UD12HE5	WH-UD16HE5
Sound pressure	Heat / Cool	dB(A)	48 / 47	49 / 48	50 / 48	51/50	52/50	55/54
Sound power	Heat / Cool	dB	64/65	65/66	68/66	69 / 68	69 / 68	72/72
Dimension	HxWxD	mm	622 x 824 x 298	622×824×298	795 x 900 x 320	795 x 900 x 320	1340×900×320	1340×900×320
Net weight		kg	39	39	66	66	101	101
Refrigerant (R410A	١)	kg/TCO, Eq.	1,20 / 2,506	1,20 / 2,506	1,45/3,028	1,45/3,028	2,55/5,324	2,55 / 5,324
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)	3/8 (9,52) / 5/8 (15,88)	3/8 (9,52) / 5/8 (15,88)
Pipe length range		m	3~15	3~15	3~40	3~40	3~50	3~50
Elevation differenc	e (in/out)	m	5	5	30	30	30	30
Pipe length for add	litional gas	m	10	10	10	10	10	10
Additional gas amo		g/m	20	20	30	30	50	50
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
Water outlet	Heat / Cool	°C	25~55/5~20	25~55/5~20	25~55/5~20	25~55/5~20	25~55/5~20	25~55/5~20

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	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	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 6. 2) Scale from A+++ to 0. System label with controller.





























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 H GENERATION HIGH PERFORMANCE BI-BLOC THREE PHASE. HEATING AND COOLING - SDC







The new H Generation are specially designed for low energy homes and achieve an impressive COP of 5 (on the 3,2kW)

Thanks to the system's high degree of technology and advanced control, it is able to maintain a high capacity and efficiency even at -7°C and -15°C. The Aquarea's software is optimised to the requirements of low consumption homes in order to maximise energy efficiency. Whatever the weather, Aquarea can work even at -20°C. The compact design of the outdoor unit makes installation very easy.

Technical focus

· Super efficient: COP of 5 in the 3,2kW!

- · Very high energy savings A+++ (*)
- · Simple installation & maintenance
- \cdot 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









				Three Phase (Power to indoor)	
Kit			KIT-WC09H3E8	KIT-WC12H9E8	KIT-WC16H9E8
Heating capacity (A +7°	C, W 35°C)	kW	9,00	12,00	16,00
COP (A +7°C, W 35°C)		W/W	4,84	4,74	4,28
Heating capacity (A +2°	C, W 35°C)	kW	9,00	11,40	13,00
COP (A +2°C, W 35°C)		W/W	3,59	3,44	3,28
Heating capacity (A -7°0	C, W 35°C)	kW	9,00	10,00	11,40
COP (A -7°C, W 35°C)		W/W	2,85	2,73	2,57
Cooling capacity (A 35°0	C, W 7/12°C)	kW	7,00	10,00	12,20
EER (A 35°C, W 7/12°C)		W/W	3,17	2,81	2,56
Energy Efficiency Class	at 35°C1 / 55°C1		A++ / A++	A++ / A++	A++ / A++
System label 35°C / 55°	°C²		A+++ / A++	A*** / A**	A+++ / A++
Indoor unit			WH-SDC09H3E8	WH-SDC12H9E8	WH-SDC16H9E8
Sound pressure	Heat / Cool	dB(A)	33 / 33	33/33	33/33
Dimension	HxWxD	mm	892×500×340	892×500×340	892 x 500 x 340
Net weight		kg	44	45	45
Water pipe connector		Inch	R 1 1/4	R 1 1/4	R11/4
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed
A class pullip	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 e	lectric heater	kW	3	9	9
Recommended fuse		Α	15/30	15/30	15/30
Recommended cable siz	ze, supply 1 & 2	mm²	3×1,5/3×1,5	3×1,5/3×1,5	3 x 1,5 / 3 x 1,5
Outdoor unit			WH-UD09HE8	WH-UD12HE8	WH-UD16HE8
Sound pressure	Heat / Cool	dB(A)	51 / 49	52/50	55 / 54
Sound power	Heat / Cool	dB	68 / 67	69 / 68	72 / 72
Dimension	HxWxD	mm	1340×900×320	1340 x 900 x 320	1340×900×320
Net weight		kg	107	107	107
Refrigerant (R410A)		kg/TCO ₂ Eq.	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
Pipe length range		m	3~30	3~30	3~30
Elevation difference (in/	out)	m	30	30	30
Pipe length for addition	al gas	m	10	10	10
Additional gas amount		g/m	50	50	50
Operation range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	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	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. 2) Scale from A+++ to G. 3) Scale from A++++ to G. 3) Scale from A++++ to G. 3) Scale from A++++ to



Water outlet







Heat / Cool











25~55/5~20







25~55/5~20







25~55/5~20

Bi-bloc T-CAP

AQUAREA H GENERATION T-CAP BI-BLOC SINGLE PHASE / THREE PHASE. **HEATING AND COOLING - SXC**







The best for extreme outdoor conditions. Constant capacity at -20°C

Aquarea T-CAP can work in extreme outdoor conditions as low as -28°C and warranty the capacity without back up heating down to 20°C. Ready to work at extreme outdoor conditions the H Generation T-CAP can produce water up to 60°C, expanding its possibilities for retrofit application. H Generation is the quickest to install and easiest maintenance.

- · 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

Cloud connection. For user control and installer remote maintenance







recunical to	ocus			
· Very high e	energy	savings	A++	

			Single Phase (F	Power to indoor)	Th	ree Phase (Power to indo	or)
Kit			KIT-WXC09H3E5	KIT-WXC12H6E5	KIT-WXC09H3E8	KIT-WXC12H9E8	KIT-WXC16H9E8
Heating capacity (4 +7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +7°C, W 35	°C)	W/W	4,84	4,74	4,84	4,74	4,28
Heating capacity (A	A +2°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +2°C, W 35	°C)	W/W	3,59	3,44	3,59	3,44	3,10
Heating capacity (4 -7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A -7°C, W 35°	°C)	W/W	2,85	2,72	2,85	2,72	2,49
Cooling capacity (A	4 35°C, W 7°C)	kW	7,00	10,00	7,00	10,00	12,20
EER (A 35°C, W 7°	C)	W/W	3,17	2,81	3,17	2,81	2,57
Energy Efficiency (Class at 35°C¹ / 55°C¹		A++ / A++				
System label 35°C	: / 55°C²		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	HxWxD	mm	892×500×340	892 x 500 x 340	892×500×340	892 x 500 x 340	892 x 500 x 340
Net weight		kg	43	43	43	44	45
Water pipe connec	tor	Inch	R11/4	R11/4	R11/4	R11/4	R 1 1/4
A alasa augan	Number of speeds		Variable Speed				
A class pump	Input power (Min/Max)	W	32/102	34/110	32/102	34/110	30 / 105
Heating water flow	v (ΔT=5 K. 35°C)	L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integra	ited electric heater	kW	3	6	3	9	9
Recommended fus	se .	Α	30/30	30/30	16/16	16/16	16/16
Recommended cal	ole size, supply 1 & 2	mm²	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	5 x 1,5 / 3 x 1,5	5 x 1,5 / 5 x 1,5	5 x 1,5 / 5 x 1,5
Outdoor unit			WH-UX09HE5	WH-UX12HE5	WH-UX09HE8	WH-UX12HE8	WH-UX16HE8
Sound pressure	Heat / Cool	dB(A)	51 / 49	52/50	51 / 49	52/50	55 / 54
Sound power	Heat / Cool	dB	68/67	69 / 68	68/67	69/68	72 / 71
Dimension	HxWxD	mm	1340 x 900 x 320	1340 x 900 x 320	1340 x 900 x 320	1340×900×320	1340 x 900 x 320
Net weight		kg	101	101	108	108	118
Refrigerant (R410A	4)	kg/TCO, Eq.	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 add	ditional gas	m	10	10	10	10	10
Additional gas am	ount	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	25-60/5-20	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-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	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	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 0. 2) Scale from A+++ to 0. System label with



































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 H GENERATION T-CAP BI-BLOC THREE PHASE. SUPER QUIET OUTDOOR UNIT. HEATING AND COOLING - SQC

The best for extreme outdoor conditions. Constant capacity at -20°C

Aquarea T-CAP can work in extreme outdoor conditions as low as -28°C and warranty the capacity without back up heating down to 20°C. Ready to work at extreme outdoor conditions the H Generation T-CAP can produce water up to 60°C, expanding its possibilities for retrofit application. H Generation is the quickest to install and easiest maintenance.

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
- \cdot 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.







			Thre	ee Phase New Super Quiet outdoor	unit
Kit			KIT-WQC09H3E8	KIT-WQC12H9E8	KIT-WQC16H9E8
Heating capacity (A +7°C,	W 35°C)	kW	9,00	12,00	16,00
COP (A +7°C, W 35°C)		W/W	4,84	4,74	4,28
Heating capacity (A +2°C,	W 35°C)	kW	9,00	12,00	16,00
COP (A +2°C, W 35°C)		W/W	3,59	3,44	3,10
Heating capacity (A -7°C, V	W 35°C)	kW	9,00	12,00	16,00
COP (A -7°C, W 35°C)		W/W	2,85	2,72	2,49
Cooling capacity (A 35°C, V	W 7°C)	kW	7,00	10,00	12,20
EER (A 35°C, W 7°C)		W/W	3,17	2,81	2,57
Energy Efficiency Class at	: 35°C¹ / 55°C¹		A++ / A++	A++ / A++	A++ / A++
System label 35°C / 55°C	2		A+++ / A++	A++ / A++	A++ / A++
Indoor unit			WH-SQC09H3E8	WH-SQC12H9E8	WH-SQC16H9E8
Sound pressure	Heat / Cool	dB(A)	33/33	33/33	33/33
Dimension	HxWxD	mm	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	R11/4	R11/4	R 1 1/4
A class pump	Number of speeds		Variable Speed	Variable Speed	Variable Speed
A class pump	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 elec	ctric heater	kW	3	9	9
Recommended fuse		Α	15/30	15/30	15/30
Recommended cable size,	, supply 1 & 2	mm²	3 x 1,5 / 3 x 1,5	3 x 1,5 / 3 x 1,5	3×1,5/3×1,5
Outdoor unit			WH-UQ09HE8	WH-UQ12HE8	WH-UQ16HE8
Sound pressure	Heat / Cool	dB(A)	47 / 48	48 / 49	51 / 53
Sound power	Heat / Cool	dB	61 / 63	62 / 64	65/68
Dimension	HxWxD	mm	1410×1283×320	1410×1283×320	1410×1283×320
Net weight		kg	151	151	161
Refrigerant (R410A)		kg/TCO, Eq.	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/ou	ut)	m	20	20	20
Pipe length for additional	gas	m	10	10	10
Additional gas amount		g/m	50	50	50
Operation range	Outdoor ambient	°C	-28~+35	-28~+35	-28~+35
Water outlet	Heat / Cool	°C	20-60/5-20	20-60/5-20	20-60/5-20

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	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	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. 2) Scale from A+++ to G. 2) Scale from A+++ to D. System label with controller



































Outdoor unit

COP (A +7°C, W 35°C)

Heating capacity (A +7°C, W 35°C)

Mono-bloc High Performance

AQUAREA H GENERATION HIGH PERFORMANCE MONO-BLOC SINGLE PHASE. **HEATING AND COOLING - MDC**

The Aquarea MDC range adapts well in an existing installation with a boiler backup, and in a new application with underfloor heating, low temperature radiators or even fan-coil heaters

This range can also be connected to a solar kit in order to increase efficiency and minimise the impact on the ecosystem. Finally, it is possible to connect a thermostat for even better heating and cooling control and management.

Whatever the weather, Aquarea can work even at -20°C. The Mono-bloc is easy to install in new and existing residential properties.

kW



Technical focus

- · Optional Smartphone control
- · Range from 5 to 9kW, Single Phase
- · Maximum hydraulic module output temperature: 55°C
- · Works at temperatures as low as -20°C
- · Cooling temperature range 5 ~ 20°C









L	remote maintenance.	ade.d	ErP 55°C Scale from A++ to G	ErP 35°C 35°C SYSTEM LABI Scale from A++ to G Scale from A+++ to
	Single Ph	ase Heating and Co	oling	
WH-MDC0	7H3E5 V	VH-MDC09H3E5	WH-MDC12H6E5	WH-MDC16H6E5
7,00	0	9,00	12,00	16,00
4,52	2	4,29	4,74	4,28
6,60	0	6,80	11,40	13,00
3,30	0	3,18	3,44	3,28
5,50	0	6,40	10,00	11,40
2,70	0	2,60	2,73	2,57

Heating capacity (A +2°C, W 35°C)	kW	4,80	6,60	6,80	11,40	13,00
COP (A +2°C, W 35	i°C)	W/W	3,36	3,30	3,18	3,44	3,28
Heating capacity (A -7°C, W 35°C)	kW	4,70	5,50	6,40	10,00	11,40
COP (A -7°C, W 35	°C)	W/W	2,85	2,70	2,60	2,73	2,57
Cooling capacity (A	4 35°C, W 7°C)	kW	4,50	6,00	7,00	10,00	12,20
EER (A 35°C, W 7°	C)	W/W	3,28	2,78	2,60	2,81	2,56
Energy Efficiency	Class at 35°C¹ / 55°C¹		A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
System label 35°C	C / 55°C²		A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Sound pressure	Heat / Cool	dB(A)	49 / 47	50 / 48	51 / 49	52/50	55/54
Sound power	Heat / Cool	dB	65/65	68/66	69/67	69 / 68	72/72
Dimension	HxWxD	mm	865 x 1 283 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 (R410)	A) ³	kg/TCO ₂ Eq.	1,30/2714	1,35/2819	1,35/2819	2,10 / 4,385	2,10 / 4,385
Water pipe connec	ctor	Inch	R11/4	R11/4	R11/4	R11/4	R11/4
A class pump Number of s	Number of speeds		Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
A class pullip	Input power (Min / Max)	W	34/96	36 / 100	39/108	34/110	38/120
Heating water flov	v (∆T=5 K. 35°C)	L/min	14,3	20,1	25,8	34,4	45,9
Capacity of integra	ated electric heater	kW	3	3	3	6	6
Input Power	Heat	kW	0,985	1,55	2,10	2,53	3,74
iliput i owei	Cool	kW	1,37	2,16	2,69	3,56	4,76
Running and	Heat	A	4,7	7,2	9,6	11,7	16,9
Starting current	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 fus	se	A	30 / 15	30 / 15	30 / 16	30/30	30/30
Recommended ca	ble 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	3x4,0or6,0/3x4,0	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
Water outlet	Caal	0.0	E 20	E 20	E 20	E 20	E 20

WH-MDC05H3E5

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	Tank 300L - Enamelled
PAW-3WYVLV-SI	3 way valve

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

5~20

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). Authorized service partner or Authorized installer can enable the cooling mode through a special operation via the remote controller on site. 1) Scale from A++ to 6. 2) Scale from A+++ to 0. System label with controller. 3) WH-MDC models are hermetically sealed













5~20





5~20





5~20









AQUAREA H GENERATION T-CAP MONO-BLOC SINGLE PHASE / THREE PHASE. **HEATING AND COOLING - MXC**

The MXC is ideal for residential properties which don't have an external boiler and require a maintained capacity level

T-CAP stands for Total Capacity. This line-up is able to maintain the same nominal capacity even at -15°C without the help of an electrical booster heater. T-CAP is also able to provide extremely high efficiency, regardless of the outside temperature or the water temperature. The MXC adapts well in an existing installation with a boiler backup, and in a new application with underfloor heating, low temperature radiators or even fan-coil heaters. This range can also be connected to a solar kit in order to increase efficiency and minimise the impact on the environment. Finally, it is possible to connect a thermostat for even better heating or cooling control and management.



Technical focus

- · Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aguarea Manager.
- · Optional Smartphone control
- \cdot Range from 9 to 16 kW, Single and Three Phase
- · Maximum hydraulic module output temperature: 55°C
- · Works at temperatures as low as -20°C
- · Cooling temperature range 5 ~ 20°C









Tentative data			Single	Phase	Three Phase		
Outdoor unit			WH-MXC09H3E5	WH-MXC12H6E5	WH-MXC09H3E8	WH-MXC12H9E8	WH-MXC16H9E
Heating capacity (A +7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +7°C, W 35	5°C)	W/W	4,84	4,74	4,84	4,74	4,28
Heating capacity (A +2°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A +2°C, W 35	i°C)	W/W	3,59	3,44	3,59	3,44	3,10
Heating capacity (A -7°C, W 35°C)	kW	9,00	12,00	9,00	12,00	16,00
COP (A -7°C, W 35	°C)	W/W	2,85	2,72	2,85	2,72	2,49
Cooling capacity (4 35°C, W 7°C)	kW	7,00	10,00	7,00	10,00	12,20
ER (A 35°C, W 7°	C)	W/W	3,17	2,81	3,17	2,81	2,56
nergy Efficiency	Class at 35°C¹ / 55°C¹		A++ / A++	A++ / A++	A++ / A++	A++ / A++	A++ / A++
System label 35°0	C / 55°C²		A+++ / A++	A++ / A++	_	_	_
Sound pressure	Heat / Cool	dB(A)	51 / 49	52/50	51 / 49	52/50	55 / 54
Sound power	Heat / Cool	dB	68/67	69 / 68	68 / 67	69 / 68	72 / 71
imension	HxWxD	mm	1410×1283×320	1410x1283x320	1410 x 1283 x 320	1410x1283x320	1410x1283x32
let weight		kg	142	142	151	151	164
Refrigerant (R410.	A) ³	kg/TCO2 Eq.	2,30 / 4,802	2,30 / 4,802	2,30 / 4,802	2,30 / 4,802	2,35 / 4,907
Vater pipe connec	ctor	Inch	R 1 1/4	R 1 1/4	R 1 1/4	R11/4	R11/4
A class pump Number of speeds			Variable Speed	Variable Speed	Variable Speed	Variable Speed	Variable Speed
ctass pullip	Input power (Min / Max	<) W	32 / 102	34/110	32 / 102	34/110	38 / 120
Heating water flow	v (ΔT=5 K. 35°C)	L/min	25,8	34,4	25,8	34,4	45,9
Capacity of integra	ated electric heater	kW	3	6	3	9	9
nput Power	Heating	kW	1,86	2,53	1,86	2,53	3,74
iiput Fowei	Cooling	kW	2,21	3,56	2,21	3,56	4,76
Running and	Heating	Α	8,8	11,7	3,0	4,0	5,7
Starting current	Cooling	Α	10,4	16,5	3,5	5,3	7,1
Current 1		А	29,0	29,0	14,7	11,9	15,5
Current 2		А	13,0	26,0	13,0	13,0	13,0
Recommended fu	se	А	30/30	30/30	16/16	16/16	16/16
Recommended ca	ble size, supply 1 & 2	mm²	3x4,0or6,0/3x4,0	3x4,0or6,0/3x4,0	5 x 1,5 / 3 x 1,5	5 x 1,5 / 5 x 1,5	5 x 1,5 / 5 x 1,5
peration range	Outdoor ambient	°C	-20~+35	-20~+35	-20~+35	-20~+35	-20~+35
Nator outlet	Heating	°C	25~60	25~60	25~60	25~60	25~60
Water outlet -	Cooling	٥٢	5 20	5 - 20	5 20	5 - 20	5 20

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve
PAW-BTANK50L	Buffer tank 50L

Accessories	
PA-AW-WIFI-1TE	Wifi interface
CZ-TAW1	Aquarea Smart Cloud for remote control and maintenance through wireless or wired LAN
PAW-A2W-BIV	Bivalent control
PAW-FILTER	Filter
PAW-A2W-RTWIRED	Room thermostat

FER 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. 2) Scale from A+++ to D. System label with controller. 3) WH-MXC models are hermetically sealed. * Tentative data.

























R407C

Bi-bloc HT

AQUAREA HT F GENERATION **BI-BLOC SINGLE PHASE / THREE PHASE. HEATING ONLY - SHF**

Aquarea HT is able to deliver water heated to 65°C with the Heat Pump alone

For a house with high temperature radiators (for example, cast iron radiators), the Aquarea High Temperature Solution is the most suited as it provides output water temperatures of 65°C even at -20°C.

- · Optional Smartphone control
- · Range from 9 to 12kW, Single and Three Phase
- · 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

Technical focus

- · Remote controller functions
- · Efficient control of room temperature based on the outdoor temperature indoor temperature using the Aquarea Manager







re,	(A++) [[[]	A++	
-	ErP 55°C	ErP 35°C	ŀ
L	Scale from A++ to G	Scale from A++ to G	L

			Single Phase (F	ower to indoor)	Three Phase (P	ower to indoor)
Kit			KIT-WHF09F3E5	KIT-WHF12F6E5	KIT-WHF09F3E8	KIT-WHF12F9E8
Heating capacity (A +7°C, V	N 35°C)	kW	9,00	12,00	9,00	12,00
COP (A +7°C, W 35°C)		W/W	4,64	4,46	4,64	4,46
Heating capacity (A +2°C, \	N 35°C)	kW	9,00	12,00	9,00	12,00
COP (A +2°C, W 35°C)		W/W	3,45	3,26	3,45	3,26
Heating capacity (A -7°C, V	V 35°C)	kW	9,00	12,00	9,00	12,00
COP (A -7°C, W 35°C)		W/W	2,74	2,52	2,74	2,52
Heating capacity (A +7°C, \	W 65°C)	kW	9,00	12,00	9,00	12,00
COP (A +7°C, W 65°C)		W/W	2,48	2,41	2,48	2,41
Heating capacity (A +2°C, \	N 65°C)	kW	9,00	10,30	9,00	10,30
COP (A +2°C, W 65°C)		W/W	2,06	2,01	2,06	2,01
Heating capacity (A -7°C, V	V 65°C)	kW	9,00	9,60	9,00	9,60
COP (A -7°C, W 65°C)		W/W	1,79	1,77	1,79	1,77
Energy Efficiency Class at	35°C1 / 55°C1		A++ / A++	A++ / A++	A++ / A++	A++ / A++
System label 35°C / 55°C ²			A++ / A++	A++ / A++	A++ / A++	A++ / A++
Indoor unit			WH-SHF09F3E5	WH-SHF12F6E5	WH-SHF09F3E8	WH-SHF12F9E8
Sound pressure		dB(A)	33	33	33	33
Dimension	HxWxD	mm	892×502×353	892×502×353	892×502×353	892 x 502 x 353
Net weight		kg	46	47	47	48
Water pipe connector		Inch	R 1 1/4	R 1 1/4	R 1 1/4	R11/4
Dunan	Number of speeds		7	7	7	7
Pump	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 elec-	tric heater	kW	3	6	3	9
Recommended fuse		А	30/30	30/30	30 / 16	30 / 16
Recommended cable size,	supply 1 & 2	mm²	3 x 4,0 or 6,0 / 3 x 4,0	3 x 4,0 or 6,0 / 3 x 4,0	5 x 1,5 / 3 x 1,5	5 x 1,5 / 5 x 1,5
Outdoor unit			WH-UH09FE5	WH-UH12FE5	WH-UH09FE8	WH-UH12FE8
Sound pressure / Sound p	ower	dB(A) / dB	51 / 66	52/67	51/66	52/67
Dimension / Net weight	HxWxD	mm / kg	1340×900×320/104	1340×900×320/104	1340×900×320/110	1340 x 900 x 320 / 110
Refrigerant (R407C)		kg / TCO ₂ Eq.	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/ou	t)	m	20	20	20	20
Pipe length for additional o	jas	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		°C	25~65	25 ~ 65	25~65	25 ~ 65
Accessories			Δες	essories		

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve

Accessories	
PAW-BTANK50L	Buffer tank 50L
PA-AW-WIFI-1TE	Wifi interface
PAW-A2W-BIV	Bivalent control
PAW-FILTER	Filter
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 0. 2) Scale from A+++ to 0. System label with























Mono-bloc HT

R407C

AQUAREA G GENERATION HT MONO-BLOC SINGLE PHASE. **HEATING ONLY - MHF**

Aquarea HT is able to deliver 65°C with the Heat Pump alone

For a house with high temperature radiators (for example, cast iron radiators), the Aquarea High Temperature Solution is most suited as it provides output water temperatures of 65°C even at -20°C.



Technical focus

- · Efficient control of room temperature based on the outdoor temperature, indoor temperature using the Aquarea Manager.
- · Optional Smartphone control
- \cdot Range from 9 to 12kW, Single and Three Phase
- · Maximum hydraulic module output temperature: 65°C
- \cdot Works at temperatures as low as -20°C







(A++)	
ErP 55°C	ı
Scale from A++ to G	ı

			Single	Phase
Outdoor unit			WH-MHF09G3E5	WH-MHF12G6E5
Heating capacity (A +7°)	C, W 35°C)	kW	9,00	12,00
COP (A +7°C, W 35°C)		W/W	4,64	4,46
Heating capacity (A +2°)	C, W 35°C)	kW	9,00	12,00
COP (A +2°C, W 35°C)		W/W	3,45	3,26
Heating capacity (A -7°0	C, W 35°C)	kW	9,00	12,00
COP (A -7°C, W 35°C)		W/W	2,74	2,52
Heating capacity (A +7°)	C, W 65°C)	kW	9,00	12,00
COP (A +7°C, W 65°C)		W/W	2,48	2,41
Heating capacity (A +2°	C, W 65°C)	kW	9,00	10,30
COP (A +2°C, W 65°C)		W/W	2,06	2,01
Heating capacity (A -7°C	C, W 65°C)	kW	9,00	9,60
COP (A -7°C, W 65°C)		W/W	1,79	1,77
Energy Efficiency Class	at 35°C1 / 55°C1		A++ / A++	A++ / A++
System label 35°C / 55°	°C²		A++ / A++	A++ / A++
Sound pressure		dB(A)	51	52
Sound power		dB	68	69
Dimension	HxWxD	mm	1410×1283×320	1410×1283×320
Net weight		kg	151	151
Refrigerant (R407C) ³		kg/TCO2 Eq.	1,92 / 3,406	1,92 / 3,406
Water pipe connector		Inch	R11/4	R11/4
Duman	Number of speeds		7	7
Pump	Input power (Min / Max)	W	_	_
Heating water flow (ΔT=	=5 K. 35°C)	L/min	25,8	34,4
Capacity of integrated e	electric heater	kW	3	6
Input Power		kW	1,94	2,69
Running and Starting cu	urrent	А	9,3	12,8
Current 1		A	28,5	29,0
Current 2		А	13,0	26,0
Recommended fuse		A	30/30	30/30
Recommended cable size	ze, 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		°C	25~65	25~65

Accessories	
PAW-TD20C1E5	Tank 200L - Stainless steel
PAW-TD30C1E5	Tank 300L - Stainless steel
PAW-TG20C1E3STD-1	Tank 200L - Enamelled
PAW-TG30C1E3STD-1	Tank 300L - Enamelled
PAW-3WYVLV-SI	External 3 way valve

Accessories	
PAW-BTANK50L	Buffer tank 50L
PA-AW-WIFI-1TE	Wifi interface
PAW-A2W-BIV	Bivalent control
PAW-FILTER	Filter
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 6. 2) Scale from A+++ to 0. System label with controller. 3) WH-MHF models are hermetically sealed.























AQUAREA AIR RADIATORS. FAN COILS FOR HEAT PUMP APPLICATION



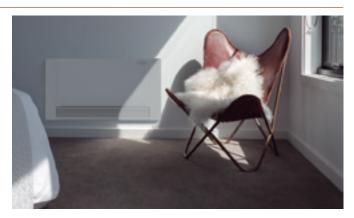


New line up of Super low temperature radiators for Heat Pump application: Aquarea Air 200/700/900 with radiating effect

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

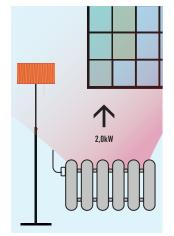
With a depth of just under 13cm they are at the cutting edge of the market. Blending easily into the home, Aquarea Air's elegant design and product refinements are clear to see in every detail.

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.





Water at 65°C needed.



With Aquarea Air.



Water at 35°C needed.

Technical focus:

- · Front panel heating with radiant effect
- · High heating capacity (without main fan running)
- \cdot 4 fan speeds and capacities
- · Exclusive design
- · Extremely compact (only 12,9cm deep)
- \cdot Cooling and dehumidification functions possible (drain is needed)
- \cdot 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 for Heat Pump a	pplication		PAV	V-AAIR-20	00-1			PAV	V-AAIR-70	00-1			PAV	N-AAIR-90	00-1	
Total heating capacity	W	138	160	217	470	570	223	360	708	1032	1188	273	475	886	1420	1703
Water flow	kg/h	23,7	27,5	37,3	80,8	98,0	38,4	61,9	121,8	177,5	204,3	47,0	81,7	152,4	244,2	292,9
Water pressure drop	kPa	0,1	0,2	0,4	2,0	2,9	0,1	0,1	0,3	0,8	1,0	0,1	0,2	0,5	1,6	2,2
	m³/min	0,5	0,6	0,9	1,9	2,7	0,7	1,4	2,6	4,2	5,3	0,9	1,8	4,1	6,1	7,7
Air flow	Speed	Main Fan Off	Super Min	Min	Med	Max	Main Fan Off	Super Min	Min	Med	Max	Main Fan Off	Super Min	Min	Med	Max
Maximum input power	W	2	5	7	9	13	3	9	14	18	22	3	11	16	20	24
Sound pressure	dB(A)	17,6	18,8	24,7	33,2	39,4	18,4	19,6	25,8	34,1	40,2	18,4	22,3	26,2	34,4	42,2
Inlet water temperature	°C	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Outlet water temperature	°C	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Inlet air temperature	°C	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Outlet air temperature	°C	34,5	32,6	38,9	32,0	30,0	34,9	32,4	33,3	31,8	30,6	34,8	32,5	30,2	31,1	30,6
Dimension (HxWxD)	mm		57	9 x 735 x 1	29			57	9 x 935 x 1	29			57	9 x 1135 x	129	
Net weight	kg			17					20					23		
3 ways valve included		Yes			Yes			Yes								
Touch screen thermostat				Yes					Yes					Yes		

NEW VERSATILE AND EFFICIENT FAN COIL RANGE. FAN COIL COMPATIBLE WITH AQUAREA AND VRF SYSTEMS





New range of Fan Coil units

Easy to install, improvement in sounds levels and performances, are the key developments carried on our Fan Coil units. The Fan Coil is issued from that development striving to meet customers' wishes and advices.

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. Easy maintenance and access.

Innovation for an optimum comfort

New range of Fan Coil for heating and cooling with 6 capacities from 2,4 to 14,8kw in cooling and from 3,0 to 19,9kW in heating. It can bring full year comfort together with an Aquarea system or VRF systems.

Quality and efficient Coil

Made of staggered copper tubes, mechanically expanded into aluminium fins, assuring maximum heat transfer efficiency. Equipped with a main chilled water coil with 3 rows.

Low energy consumption fan

5 Speed level. The units are fitted with a fan-motor assembly of which the fun is composed of double inlet forward curved centrifugal wheel dynamically balanced and specially designed for an optimal air flow.

Easy and flexible installation

 \cdot Suction G2 air filter from both sides and for the bottom

· Includes drain pan

Tentative data					Compact units			High Static Pressure
Model			PAW-FC-D24	PAW-FC-D40	PAW-FC-D55	PAW-FC-D65	PAW-FC-D90	PAW-FC-H150
Total cooling capacity	Med / S-Hi	kW	2,0 / 2,4	3,1 / 4,1	4,2 / 5,5	5,8 / 6,6	6,7 / 9,1	11,9/14,8
Sensible cooling	Med / S-Hi	kW	1,7 / 2,1	2,2/3,0	3,0 / 4,0	4,3 / 5,0	4,9 / 7,0	9,6 / 12,9
Heating capacity	Med / S-Hi	kW	2,4/3,0	3,9 / 5,4	4,0 / 5,3	7,4/8,7	9,3 / 12,6	14,9/19,9
Power consumption	S-Lo / Med / S-Hi	W	24/50/81	33/57/86	39/76/112	60/114/161	90/112/188	180 / 421 / 675
Fuse rating		А	2	2	2	2	2	3,17
Dimensions	HxWxD	mm	220 x 624 x 430	220 x 994 x 430	220 x 1179 x 430	220 x 994 x 530	220 x 1250 x 530	356 x 1380 x 798
Dimensions (including pan and electrical box)	H x W x D	mm	220×862×430	220 x 1232 x 430	220 x 1417 x 430	220 x 1232 x 530	220 x 1463 x 530	356 x 1600 x 798
Weight (without water content)		kg	15,5	24	28	29	43	63
Sound power global	S-Lo / Med / S-Hi	dB(A)	31 / 45 / 53	36/48/57	40/52/58	46/59/63	52/57/66	52/64/71
Static pressure	Max	Pa	50	70	70	70	70	110
Airflow ¹	Med / S-Hi	m³/h	388 / 483	486/716	640/933	989 / 1064	936/1397	2112/3176
Water pressure drop	Med / S-Hi	kPa	9,9 / 14,3	13,0/22,4	25,2 / 42,2	13,9 / 17,9	22,6 / 40,3	19,8 / 26,1
Fan 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
Drain pan			Included	Included	Included	Included	Included	Included
Air filter			Included	Included	Included	Included	Included	Included
Water connections		Inch	1/2	1/2	1/2	1/2 (1/4 cooling)	1/2	1

1) Airflow at OPa of static pressu

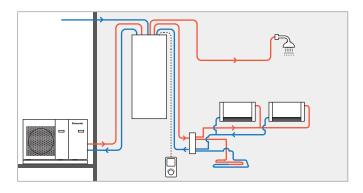
Performances based on: Summer air 27°C /19°C (wet Bulb and chilled water 7/12°C - Winter air 20°C, entering water temperature 50°C.

SANITARY TANKS. A WIDE RANGE OF TANKS ADAPTED TO EVERY NEED

Panasonic offers best combination of Aquarea with DHW. The wide range is covered with 1 Tank with buffer tank, 2 Stainless Tanks with energy efficiency class A and 5 Enamelled tanks from 150 to 400L.

New 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.





		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		
Volume	L	185
Max working pressure	Mpa (bar)	0,8 (8)
Pressure test	Mpa (bar)	1,2 (12)
Max working temp	°C	90
Connections	mm	Ø22
Material		S 275 JR vitrified
Insulation	Material, t=mm	PUR, 50
Heating coil surface	m²	2,1
Electrical heater	W	3000
Energy loss at 65°C	kWh/24h	1,3
Buffer tank		
Volume	L	80
Max working pressure	Mpa (bar)	0,6 (6)
Pressure test	Mpa (bar)	0,9 (9)
Max working temp	°C	100
Connections	mm	Ø22
Material		S235 JR
Insulation	Material, t=mm	PUR 40mm

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

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





Enamelled Tank.

With our enamelled tanks wide range, we can satisfy any size needs. Consisting on 4 different size: 150, 200, 300 and 400L. The 300L is also available in with 2 coils version.

Stainless Steel Tank.

The best heat pump in market needs to be complemented with best efficiency tank. Panasonic energy efficiency A Class Stainless Tank consist in 2 capacities 200 and 300L. These 2 models are anode free does not require any maintenance.

Tanks		Stainless	Steel Tank		
Model		PAW-TD20C1E5	PAW-TD30C1E		
				77	
			. 1	11.	
Water volume		L	192	280	
Maximum water to	emperature	°C	75	75	
Dimensions	Hight / Diameter	mm	1265/595	1745/595	
Weight / filled with	n water	kg	53/—	65/—	
Electric heater		kW	1,5	1,5	
Power supply		V	230	230	
Material inside tar	ık		Stainless steel	Stainless steel	
Exchange surface		m²	1,8	1,8	
Energy loss at 65°	°C1	kWh/24h	0,99	1,13	
3 Way valve acces	sory PAW-3WYVLV-S	I or CZ-NV1	Optional	Optional	
20m temperature	sensor cable include	ed .	Yes	Yes	
Heat up time		Valuation	****	****	
Energy losses		Valuation	***	***	
Energy Efficiency	Class (from A+ to F)		A	A	
Warranty			2 years	2 years	
Maintenance regu	ired		No	No	

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

Tanks				Enamelled 2 coils Tank (for bivalent Solar + HP			
Model			PAW-TG15C1EZ**	PAW-TG30C2E3STD-1			
				•		•	
Water volume		L	150	185	285	396	284
Maximum water ten	perature	°C	85	95	95	95	95
Dimensions	Hight / Diameter	mm	1345/500	1507/580	1565/680	1888/760	1417/760
Weight / filled with v	vater	kg	70 / 220	97 / 282	140/425	171 / 567	134/418
Electric heater		kW	2	3	3	3	3
Power supply		V	230	230	230	230	230
Material inside tank			Steel enamelled	Enamelled	Enamelled	Enamelled	Enamelled
Exchange surface		m²	1,4	2,0	2,5	6,1	2,4 (for HP) +1,0 (for solar or boiler)
Energy loss at 65°C1		kWh/24h	1,41	1,6	2,1	1,7	1,6
3 Way valve accesso	ry PAW-3WYVLV-SI c	or CZ-NV1	Optional	Optional	Optional	Optional	Optional
20m temperature se	nsor cable included		Yes	Yes	Yes	Yes	Yes
Heat up time		Valuation		***	***	***	***
Energy losses		Valuation		***	***	***	***
Energy Efficiency Cla	ass (from A+ to F)		C	Œ	€ C	■ B	- ■
Warranty			2 years	2 years	2 years	2 years	2 years
Maintenance require	d		Yearly	Yearly	Yearly	Yearly	Yearly

AQUAREA DHW

DHW tank with built-in Heat Pump

The Heat Pump is one of the most energy efficient and cost effective methods of water heating. The pump is mounted on the storage tank and draws energy from the ambient air, using that extra energy source to heat the water up to 55° C.

Wall mounted Aquarea DHW. Mid Capacity: 80/100/120L

Designed for maximum energy savings, Aquarea DHW's medium tank volume has been designed as a perfect replacement for the electric water heater. The conventional medium tank volume has been boosted with a heat pump generator, which delivers superior energy performance. The air-to-water heat pump design with air ducts enables the selection of inlet and outlet points for the air, which allows it to be used in various parts of the home (kitchen, bathroom, sunrooms, etc.).





Aguarea DHW Advantages

- · High-technology rotational compressor ensures higher energy efficiency and a higher coefficient of performance, which means major energy savings up to 75%.
- Wrapped around the inside of the outer cover of the tank, it prevents the build-up of limescale, extends the useful life of the equipment and improves safety.
- The dimensions and heating capability of a medium volume Aquarea DHW tank can easily replace an existing electric water heater. Its small size allows it to be installed in spaces where previously a conventional electric water heater would be installed.
- Impressive tank protection is provided through the use of superior superclean enamel and a large magnesium element. These ensure durability even in the harshest operating conditions, without harmful additives in the water.

Floor standing at -7°C Aquarea DHW. High capacity: 200/295L

The DHW is ready to achieve levels of high efficiency even at temperatures as low as -7°C. With this range it is possible to connect an additional heat source, such as solar energy. In PAW-DHWM300AE, the heat pump cools and de-humidifies the air pumped either from outdoors or from within the building. By choosing the point of air capture and exhaust, you can ventilate and de-humidify some rooms, while extracting the cooled air either into the environment or into another room that you wish to cool.



Floor standing at -7°C Aquarea DHW. High capacity: 200/295L.

Wall mounted Aquarea DHW. Mid Capacity: 80/100/120L.

Technical focus

- · Energy efficiency A class
- · 119,1 % Energy efficiency ηwh¹
- · 1204,2kWh AEC annual electricity consumption¹
- · 6,57kWh Daily electricity consumption Qelec²
- \cdot 55°C Thermostat temperature settings
- · O Value of smart

1) EU Regulation 812/2013 ; EN 16147:2010. 2) EN 16147:2010.

















- · Capacity: 80, 100 and 120L
- · Vertical wall mounting
- · Operating range between -7°C to +35°C
- · LCD touch screen display

















Model			Floor standing at -7°(*		Wall mounted	
Reference		PAW-DHWM200A	PAW-DHWM300A	PAW-DHWM300AE	PAW-DHWM80ZNT	PAW-DHWM100ZNT	PAW-DHWM120ZNT
Volume	L	208	295	276	80	100	120
Height / with air ducts	mm	1540×670×690	1960×670×690	1960×670×690	1197 x 506 x 533	1342 x 506 x 533	1497×506×533
Connections to the water supply network		G1	G1	G1	G1/2	G1/2	G 1/2
Dimension of air ducts	mm / m	Ø160/—	Ø160/—	Ø160/—	Ø125(150 x 70) / 10	Ø125(150 x 70) / 10	Ø125 (150 x 70) / 10
Net weight / with water	kg	149/365	164/459	207 / 480	58 / 138	62/162	68 / 188
Nominal electrical power	W	490	490	490	250	250	250
Reference tapping cycle		L	XL	XL	М	М	М
Energy consumption by chosen cycle A7 / W10-55 ¹	kWh	4,05	5,77	5,96	2,45	2,35	2,51
Energy consumption by chosen cycle A15 / W10-55 ²	kWh	3,95	5,65	5,75	2,04	2,05	2,08
COP DHW (A7 / W10-55) EN 16147 ¹		3,00	3,33	3,30	2,65	2,63	2,61
COP DHW (A15 / W10-55) EN 16147 ²		3,07	3,39	3,38	3,10	3,10	3,10
Energy Efficiency Class (from A+ to F)		A	A	A	A	A	A
Standby Input power according to EN16147	7 W	28	18	20	19	20	27
Sound power / Sound Pressure on 1m	dB / dB(A)	-/58	-/58	-/58	51,0/39,5	51,0 / 39,5	51,0/39,5
Refrigerant		R134a	R134a	R134a	R134a	R134a	R134a
Quantity of refrigerant	g	1100	1100	1100	540	540	540
Operating range - air temperature	°C	-7/+35	-7/+35	-7/+35	-7/+35	-7/+35	-7/+35
Nominal air flow rate (Maximum)	m³/min	7,5	7,5	7,5	1,7 - 3,8	1,7 - 3,8	1,7 - 3,8
Maximum pressure drop (volumetric flow rate at 5,5m³/min (60%)	Pa	100	100	100	_	_	_
Pressure drop by 2,5m³/min (60%/80%) (Maximum) ³	Pa	_	_	_	70 (90)	70 (90)	70 (90)
Enamelled steel tank / Protective magnesis	um anode	+/+	+/+	+/+	+/+	+/+	+/+
Average insulation thickness	mm	_	_	_	40-85	40-85	40-85
External source exchanger (m² surface / co	onnection)	_	_	2,7/G1	_	_	_
Max. power consumption without heater	W	490	490	490	_	_	_
Max. power consumption with heater	W	2490	2490	2490	2350	2350	2350
Number of electrical heaters x power	W	2×1000	2 x 1 0 0 0	2×1000	2 x 1 0 0 0	2 x 1 0 0 0	2 x 1000
Voltage / Frequency	V / Hz	230/50	230/50	230/50	230 / 50	230 / 50	230/50
Electric protection	Α	16	16	16	16	16	16
Moisture protection		IP24	IP24	IP24	IP24	IP24	IP24
Working pressure (Storage tank / Heat Exchanger)	Mpa (bar)	0,6(6)/0,9(9)	0,6 (6) / 0,9 (9)	1,0 (10)	1,0 (10)	1,0 (10)	1,0 (10)
Heating with heat pump Min / Max	°C	55 / 65	55 / 65	55/65	55/—	55/—	55/—
Heating with electrical heater	°C	75	75	75	75	75	75
Refrigerant (R134a) ⁴	kg/TCO, Eq.	1,100 / 1,573	1,100 / 1,573	1,100 / 1,573	0,540/0,772	0,540/0,772	0,540/0,772

1) Heating of sanitary water up to 55°C with inlet air temperature at 7°C, humidity at 89% and inlet water temperature at 10°C. According to EN16147. 2) Heating of sanitary water up to 55°C with inlet air temperature at 15°C, humidity at 74% and inlet water temperature at 10°C. According to EN16147. 3) Normal fan speed 60%, higher fan speed – special setting on 80%. 4) Aquarea DHW units are hermetically sealed. * When connected as pressurised, use of safety valve is mandatory.























er

ACCESSORIES & CONTROL

Optional PCB's for additional functions



CZ-NS2P PCB for solar connection kit for Mono-bloc systems



PCB for solar connection kit for Mono-bloc systems 6kW and 9kW.



CZ-NS4P PCB for advanced functions in H Generation.

Deice accessories



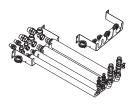
Base pan heater (for all old Bi-bloc and Mono-bloc, not for the 3 and 5kW).

Base pan heater (for 3kW and 5kW).

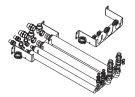
CZ-NE3P

Base pan heater for H Generation.

Accessories for All in One



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



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

Accessories for Aquarea DHW

PAW-DHWE2C

2kW optional electrical heater for floor standing.

PAW-DHWE3C

3kW optional electrical heater for floor standing.

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)

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).

Hydraulic accessories



PAW-A2W-2ZONEKIT

2 zone kit.



PAW-BTANK50L

Buffer tank 50L



CZ-NV1

3 way valve ready for All in One H Generation (optional in internal space).

PAW-3WYVLV-SI

External 3 way valve.

PAW-2PMP2ZONE

2 zone kit, hydraulic switch, manifold, 2 A-class pumps, 1 mixture valve.

PAW-A2W-2ZONECVR

2 zone kit box cover.

PAW-FILTER

2 check valves + filter with 1" (no needed for H Generation).

PAW-FILTER-ONLY

Filter with 1" (no needed for H Generation).

PAW-A2WFILTERFLOW

Filter and water flow meter (no needed for H Generation).

Aguarea Manager accessories (not compatible with 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).



STREET, STREET

PAW-LANCABLE Network cable.



PAW-HPMAH1

Water flow pipe sensor for heating circuit.



PAW-HPMUH

Outdoor temperature sensor.

Aquarea Manager Kits

PAW-HPM12ZONE-U

HPM with room sensor and setpoint adaption for Bi-bloc + sensors.

PAW-HPM12ZONE-M

HPM with room sensor and setpoint adaption for Mono-bloc + sensors.

PAW-HPM12ZONE-UF

HPM with room sensor and setpoint adaption for F Generation.

PAW-HPM12ZONE-MF

HPM with room sensor and setpoint adaption for F Generation.

PAW-HPM12ZONELCD-U

HPM with LCD wireless room thermostat for Ri-bloc + sensors

PAW-HPM12ZONELCD-M

HPM with LCD wireless room thermostat for Mono-bloc + sensors.

PAW-HPM12ZONELCD-UF

HPM with LCD wireless room thermostat for F Generation.

PAW-HPM12ZONELCD-M

HPM with LCD wireless room thermostat for F Generation.

PAW-A2WSWITCH

Network switch.

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).

Room sensor + set point adaptation.

PAW-DEWPOINTSENSOR

Dew point sensor.

Connectivity solutions



CZ-TAW1

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



PAW-AW-KNX-1i*

KNX interface

PAW-AW-KNX-H

KNX interface for H Generation.



PAW-AW-MBS-1*

Modbus interface.

PAW-AW-MBS-H

Modbus interface for H Generation.

PA-AW-WIFI-1TE*

IntesisHome interface with temperature sensor accessory.

* Not compatible with H Generation.

Controller



PAW-A2W-BIV

Bivalent controller.

* Not compatible with H Generation.

Fan coil Controller



PAW-FC-303TC

Fan coil control.

Room thermostats



PAW-A2W-RTWIRED

Wired LCD room thermostat with weekly



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

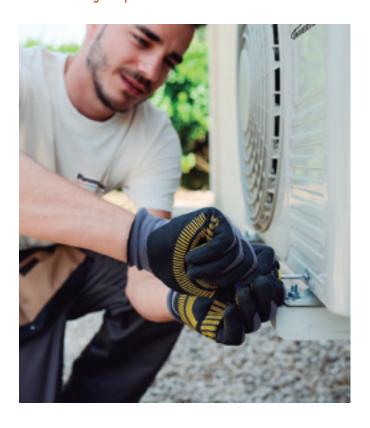
Solar sensor.

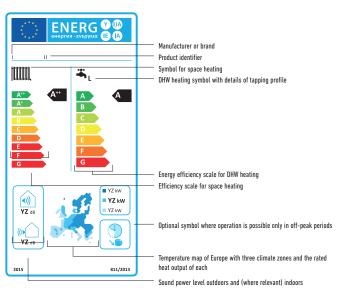
PAW-A2W-TSBU Buffer tank sensor.

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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



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	125m ²
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
	Underfloor heating by 100 %
Heat distribution	Radiator heating by %
	Wall heating by %
Maximum flow water temperature	55°C
Maximum return water temperature	50°C

-- m²

Solar collector area

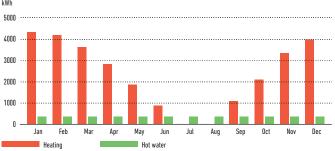
Nate uata							
Description	French (Panasonic)						
Shut off times total	0,0 h/day						
Weekends with shut off times	Yes						
Deutine and of head arrange	Time for daytime rate						
Daytime rate of heat pump	5-19 o'clock	14,0 pence/kWh					
Ni-hai	Time for nighttime rate						
Nighttime rate of heat pump	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 (F	R)						
	Jan 3	3,4	Apr	8,0	Jul	16,0	Oct	10,4
Monthly average temperatures in $^{\circ}\text{C}$	Feb 3	1,6	May	11,2	Aug	15,9	Nov	6,7
	Mar 5	,7	Jun '	14,1	Sep	13,7	Dec	4,6

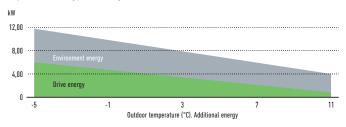
Calculation results

Monthly heat consumption in kWh.

	Caused by heat consumers				
1600€	Space heating	1220€			
0 €	Service hot water	225 €			
	Heat circulation pump(s)	155 €			
	Total	1600€			
		1600 € Space heating 0 € Service hot water Heat circulation pump(s)			

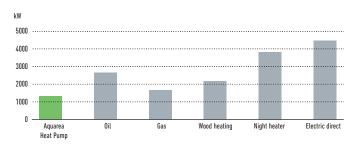


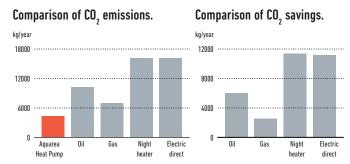
Aquarea energy coverage.



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					
Flectric heating element	14.0	100	0	5197					





Panasonic

HEATING & COOLING CAPACITY TABLES

Based on outlet temperature and outside temperature.

or the second	100	4.00
Heating	capacity	y table

WH-UD0	H General			51-510	Jingte i		anny and	coung										
Tamb	HC	IP	COP	нс	IP	COP	нс	IP	COP	НС	IP	COP	нс	IP	COP	НС	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-UD0	5HE5-1																	
Tamb	НС	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-UD0	7HE5-1																	
Гатb	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-UD0	9HE5-1																	
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-UD1																		
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-UD1		IP	COP	II.C	IP	COP	LIC.		COP	ш	IP	COD	ш	IP	COP	HC	IP	COR
Tamb	HC			HC			HC	IP (0		HC		COP	HC					COP
LWC	10.70	30	30	10.20	35	35	40	40	2.1/	45	45	45	50	50	1.70	7.00	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 7	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
	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.

Cooling capacity table

WH-UD03HE5-1									
Гатb	СС	IP	EER	СС	IP	EER	СС	IP	EER
-wc	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									
Гаmb	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
			0.57	45.00	1.00	0.04	40.00	0.07	/ 10
35	12,20	4,76	2,56	15,00	4,98	3,01	12,20	2,96	4,12

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.

Panasonic

HEATING & COOLING CAPACITY TABLES

Based on outlet temperature and outside temperature.

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Aquarea	H General	ion High	Performa	nce Bi-blo	c Three P	hase. Hea	ating and (Cooling										
WH-UD0	9HE8																	
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-UD1	2HE8																	
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-UD1	6HE8																	
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

Cooling capacity table

Aquarea H Gen	eration High Perform	ance Bi-bloc Thre	e Phase. Heating a	nd Cooling					
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	СС	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	СС	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.

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WH-UX0				3			Heating an		•									
Tamb	HC	IP	COP	НС	IP	COP	нс	IP	COP	нс	IP	COP	нс	IP	COP	нс	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-UX1	2HE5																	
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP	COP	НС	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-UX0	9HE8																	
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-UX1	2HE8																	
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-UX1	6HE8																	
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

Cooling capacity table

Aquarea	H Genera	tion T-CAI	P Bi-bloc	Single Pha	se / Thre	e Phase. I	leating ar	nd Cooling	ı									
Models				W	H-UX09H	E5							W	H-UX12H	E5			
Tamb	СС	IP	EER	СС	IP	EER	СС	IP	EER	СС	IP	EER	CC	IP	EER	СС	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-UX	(09HE8					WH-U	(12HE8					WH-U	(16HE8		
Tamb	СС	IP	EER	СС	IP	EER	СС	IP	EER	СС	IP	EER	СС	IP	EER	СС	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.

Panasonic

HEATING & COOLING CAPACITY TABLES

Based on outlet temperature and outside temperature.

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WH-UQ0	9HE8																	
Tamb	НС	IP	COP	НС	IP	COP	HC	IP	COP	НС	IP	COP	НС	IP	COP	НС	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-UQ1	2HE8																	
Tamb	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-UQ1	6HE8																	
Tamb	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

Cooling capacity table

Aquarea H Generation	T-CAP Bi-bloc Three Phase. S	uper Quiet outdoor unit. H	eating and Cooling - SQC			
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
_WC	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						
Гаmb	CC	IP	EER	CC	IP	EER
_WC	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.

Heating capacity table

	9p																	
	H Genera	tion High	Performa	nce Mono	-bloc Sing	le Phase.	Heating a	nd Coolin	g - MDC									
WH-MD0		IP	COP	нс	IP	COP	uc	IP	COP	НС	IP	COP	нс	IP	COP	нс	IP	COP
Tamb	HC			нс 35	35		HC				-							
LWC	30	30	30			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-MD0	07H3E5																	
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-MDC	09H3E5																	
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
	12H6E5	.,	-,	.,	.,	-,	.,		.,	.,		-,	-,		-,	.,	-,	-,
Tamb	HC	IP	COP	HC	IP	COP	нс	IP	COP	HC	IP	COP	нс	IP	COP	нс	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-MD0		1,30	0,70	12,00	1,00	1,23	11,00	1,74	0,00	11,70	2,23	3,23			_	11,40	2,74	4,10
		ID.	COD	110	ID.	COD	110	ID.	COD	ш	ID.	COD	110	ID	COD	110	ID.	COD
Tamb	HC	IP 20	COP	HC	IP ar	COP	HC	IP (0	COP	HC	IP / F	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)
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.

Panasonic

HEATING & COOLING CAPACITY TABLES

Based on outlet temperature and outside temperature.

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WH-MDC05H3E	5								
Tamb	CC	IP	EER	СС	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-MDC07H3E	5								
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-MDC09H3E	5								
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-MDC12H6E	5								
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-MDC16H6E									
Tamb	CC	IP	EER	СС	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.

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Aguaroa	H Generat	ion T CAI	Mone bl	aa Cinala	Dhasa / T	hroo Dha	o Heating	and Coo	lina MV									
	09H3E5 /			oc Siligle	riiase / i	illee Filas	е. пеанц	j anu coo	illig - MAC	•								
Tamb	HC	IP	COP	HC	IP	COP	НС	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-MXC	12H6E5																	
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-MXC	12H9E8																	
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-MXC	16H9E8																	
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
	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
2	10,00																	
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
			4,78 6,18	16,00 16,00	3,74 3,18	4,28 5,03	16,00 16,00	4,30 3,71	3,72 4,31	16,00 16,00	4,80 4,27	3,33 3,75	16,00 16,00	5,43 4,86	2,95 3,29	16,00 16,00	5,91 5,22	2,71 3,07

Cooling capacity table

Aquarea	H Genera	tion T-CAI	Mono-bl	oc Single	Phase / T	hree Phas	e. Heating	g and Coo	ling - MX0	;													
Models	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-MX0	C09H3E8					WH-MX	XC12H9E8 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.

Heating capacity table

Aquar	ea HT Bi	-bloc S	ingle P	hase / T	hree P	hase. H	eating (Only																
WH-UI	H09FE5																							
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-UI	112FE5																							
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-UI	109FE8																							
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
	112FE8		000	110		000	110		000	110		000			000			000	110		000			000
Tamb	HC	IP	COP	HC	IP	COP	HC	IP	COP	HC	IP (5	COP	HC	IP	COP	HC	IP	COP	HC	IP (2	COP	HC	IP (F	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

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.

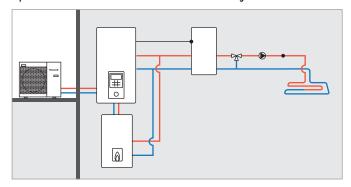
Heating capacity table

Aquarea	G Generat	tion HT M	ono-bloc S	Single Pha	se. Heatir	ng Only - I	MHF											
WH-MHF	09G3E5																	
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-MHF	12G6E5																	
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

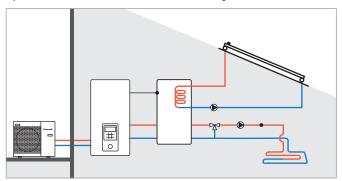
Tamb: Ambient Temperature (°C). LWC: Leaving Water Condenser Temperature (°C). HC: Heating Capacity (kW). CC: Cooling Capacity (kW). IP: Power Input (kW)
This data is measured by Panasonic in accordance with EN14511-2 standard. This data is for reference purpose only, and does not guarantee the performance.

EXAMPLES OF INSTALLATIONS

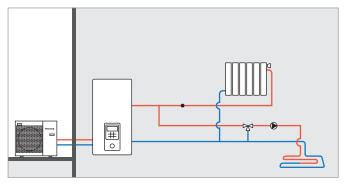
Aquarea H Generation: Bivalent with buffer tank and mixing valve.



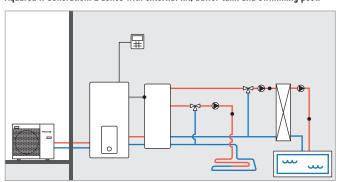
Aquarea H Generation: Buffer tank with solar and mixing valve.



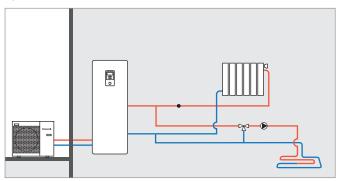
Aquarea H Generation: 2 zones with external kit without buffer tank.



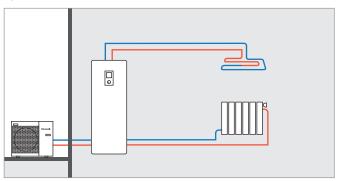
Aquarea H Generation: 2 zones with external kit, buffer tank and swimming pool.



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



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



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The outdoor units in this catalogue contains fluorinated greenhouse gases with a GWP higher than 150.