

NEW AQUAREA RANGE 2017 – 2018

# HIGH-EFFICIENCY HEAT PUMP TECHNOLOGY



# PANASONIC: ECO & SMART IDEAS FOR A SUSTAINABLE LIFESTYLE





Panasonic Green Innovation Company. We will make the environment central to all our business activities and work to realize our vision with innovations for both every day life and business.

### We aim to realise a lifestyle with virtually zero CO<sub>2</sub> emissions throughout the entire home

By creating, storing, managing and saving energy, Panasonic aims to realise a lifestyle with virtually zero CO<sub>2</sub> emissions throughout the entire home.

### Panasonic – leading the way in Heating and Cooling

With more than 30 years of experience, selling to more than 120 countries around the world, Panasonic is unquestionably 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 and heat pumps worldwide.

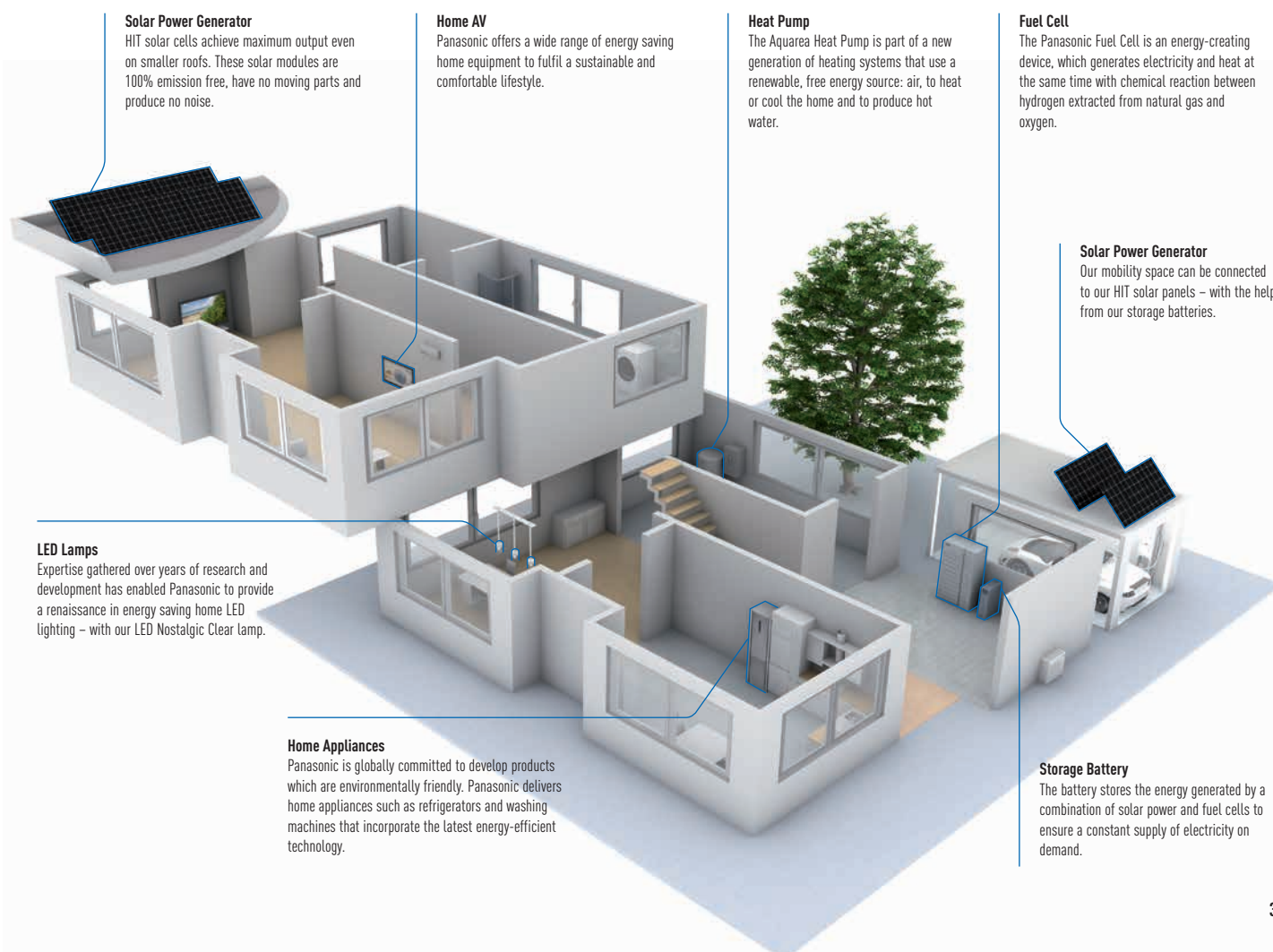
Expanding globally, Panasonic provides superior international products transcending borders.

### 100% Panasonic: we control the process

The company is also a world leader in innovation as it has filed more than 91,539 patents to improve its customers' lives. Moreover, Panasonic is determined to remain at the forefront of its market. In all, the company has produced more than 200 million compressors and its products are manufactured in 294 plants which are located all over the world. You can be assured of the extremely high quality of Panasonic's heat pumps.

This wish to excel has made Panasonic the international leader in heating and turn-key air conditioning solutions. These offer maximum effectiveness, comply with the strictest environmental standards and meet the most avant-garde construction requirements of our time.

**The Panasonic Aquarea Heat Pumps are designed and produced by Panasonic and not by other companies.**



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



**New Aquarea Air to Water Heat Pump. The best seasonal efficiency. At the forefront of energy innovation, Aquarea is resolutely positioned as a “green” heating and air-conditioning system.**

**Introducing the Panasonic Aquarea – Air Source Heat Pump**

An Aquarea air source heat pump circulates fresh air and passes it over refrigerant-filled coils (think fridge!). 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.

**Up to 80% energy savings\***

At the forefront of energy innovation, Aquarea is resolutely positioned as a “green” heating and air-conditioning system. Aquarea is part of a new generation of heating and air-conditioning systems that use a renewable, free energy source – the air – to heat or cool the home and to produce hot water. The Aquarea heat pump is a much more flexible and cost-effective alternative to a traditional fossil fuel boiler.

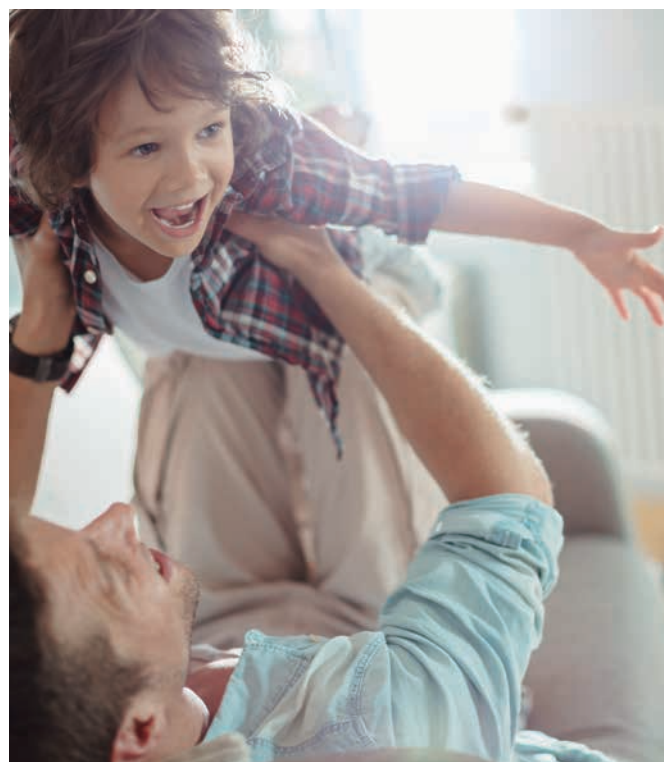
**“Green” High-efficiency heating with Panasonic’s new Air to Water Heat Pump Systems**

Panasonic’s Aquarea Heat Pump provides savings of up to 80% on heating expenses compared to electrical heaters. For example, the Aquarea 5kW system has a COP of 5,28. This is 5,28 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.

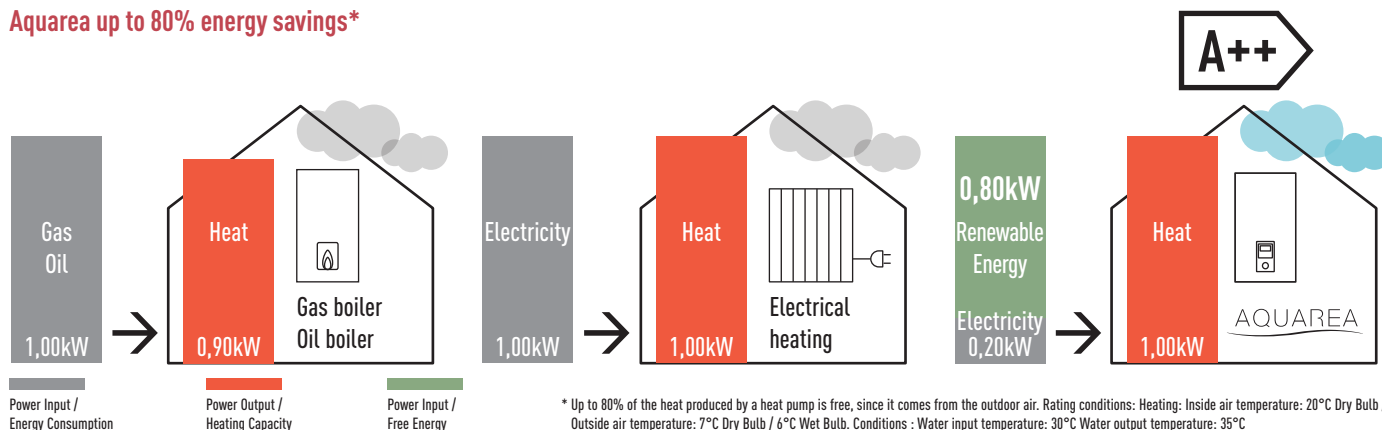
**Aquarea air to water heat pump: An innovative low energy system, designed to create great comfort at home even at extreme outdoor temperatures. Providing heat to radiators, underfloor heating, fancoils as well as producing domestic hot water.**

**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 friendly: can be connected to solar panels
- Technology that adapts to each home: extreme low temp, high temperature, whatever the climate
- Wide range of solutions: floor heating, radiators and fan coils
- Reduced heating bills and maintenance costs
- Reduce your carbon footprint
- Simple to integrate into existing heating systems
- Energy efficient alternative to oil, LPG and electric systems
- Ideal for properties without access to mains gas
- Externally positioned saving valuable internal living space

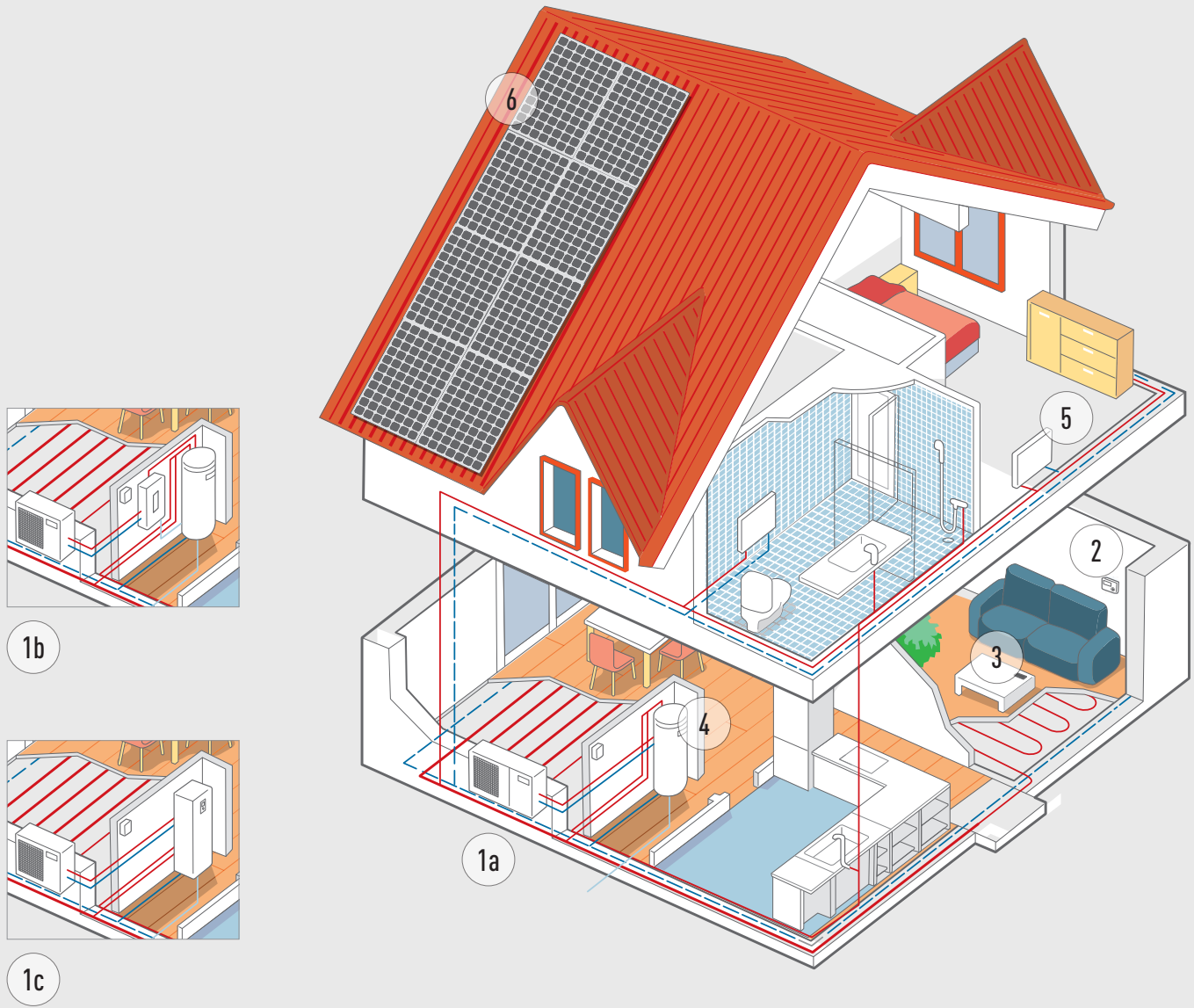


**Aquarea up to 80% energy savings\***





# AQUAREA HEAT PUMP LINE-UP



- 

**1a**  
Mono-bloc system
- 

**1b**  
Bi-Bloc system
- 

**1c**  
All in One system
- 

**2**  
Aquarea Heat Pump Manager (optional)
- 

**3**  
Control through smart phone, tablet or computer (optional)
- 

**4**  
Super High Efficiency cylinder (optional)
- 

**5**  
High efficient radiators for heating and cooling (optional)
- 

**6**  
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**

Maximum savings, maximum efficiency, minimum CO<sub>2</sub> emissions, minimum of space. Improved performance with COP's up to 5,28.

**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**

DHW tank with built-in heat pump.

| Aquarea High Performance   | Aquarea T-CAP  | Aquarea HT   | Aquarea DHW                             |
|--|--|--|---|
|  |  |  |   |
|  |  |  |   |
| Heating - Cooling - DHW<br>Single Phase from 3 to 16kW<br>Three Phase from 9 to 16kW   | Heating - Cooling - DHW<br>Single Phase from 9 to 12kW<br>Three Phase from 9 to 16kW   | Heating - DHW<br>Single Phase from 9 to 16kW<br>Three Phase from 9 to 16kW | Only DHW<br>From 80 to 295L             |
| <b>Connectable to</b>  |  |  |   |
|  |  |  |   |
| Radiators - Fancoil - Underfloor heating - DHW   | Radiators - Fancoil - Underfloor heating - DHW   | Traditional high-temperature radiators - DHW                               | Domestic hot water                      |
| <b>Application</b>   |  |  |   |
|  |  |  |   |
| Normal installation  | For extreme cold ambient   | Retrofit for old radiators   | Only DHW                                |
| <b>Energy efficiency</b>   |  |  |   |
|  |  |  |   |
| Heating 35°C / 55°C  | Heating 35°C / 60°C*   | Heating 35°C / 55°C  | DHW 55°C                                |
| <b>Outdoor ambient temperature limit. Operation</b>                                    |  |  |   |
| -28°C  | -28°C  | -28°C  | -7°C                                    |
| <b>Outdoor ambient temperature limit. Constant capacity</b>                            |  |  |   |
|  | -15°C / -20°C*   | -15°C  |   |
| <b>Supply temperature for heating. Max. / Heat pump only</b>                           |  |  |   |
| 75°C / 55°C  | 75°C / 60°C*   | 75°C / 65°C  | 75°C / 55°C                             |
| <b>Control and connectivity</b>  |  |  |   |
| Smart Grid Ready<br>Wifi Ready   | Smart Grid Ready with HPM<br>Wifi Ready  | Smart Grid Ready with HPM<br>Wifi Ready                                    | Smart Grid Ready with HPM<br>Wifi Ready |
| <b>Range</b>   |  |  |   |
| Bi-bloc from 3 to 16kW<br>Mono-bloc from 5 to 16kW<br>All in One from 3 to 16kW (185L) | Bi-bloc from 9 to 16kW<br>Mono-bloc from 9 to 16kW<br>All in One from 9 to 16kW (185L) | Bi-bloc from 9 to 12kW<br>Mono-bloc from 9 to 12kW                         | From 80 to 295L                         |

All data in this chart is applicable in most of models in each line up, check product specs to confirm. \*H Generation T-CAP

# NEW AQUAREA H GENERATION A+++

FREE  
MAINTENANCE  
STAINLESS TANK\*

\* FOR ALL IN ONE H GENERATION





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

### Better Efficiency & Value A++/A++

- A++ for medium temperature applications (radiators. ErP 55°C)
- A++ for low temperature applications (floor heating. ErP 35°C)
- 3 & 5kW meet Sep'19 ErP regulation as A+++

### Aquarea, 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 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.

### New Design

Nice improved design. White, squared design with no screws visible. Modern remote control can be moved from the 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
- New remote control 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)

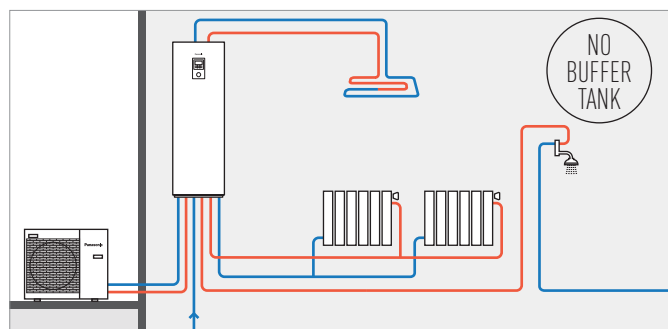
### Compact and free space. More value in 1 compact space:

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

### New All in One with 2 zones control

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

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



### New All in One, compact and easy to install

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

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

Aquarea All in One H Generation does not require buffer tank.

BEST IN TEST 2016: \* Applies to All in One T-CAP 5kW H Generation: 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 Energy Agency: [sparenergi.dk/forbruger/vaerktoejer/](http://sparenergi.dk/forbruger/vaerktoejer/)

### New Aquarea 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 hot water functions, including monitoring energy consumption.

### Advanced Control

**Ease of use:** New remote control with full dotted 3,5" wide back light screen. Easy to use for installer and user.

**Relocation:** Remote control can be relocated to any room.

### New Accessory

Optional PCB (CZ-NS4P). With this new 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.  
Maximum savings, maximum efficiency, minimum CO<sub>2</sub> emissions, minimum of space.

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

The heating and production of 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
- A Class circulating pump significantly reduces the energy consumption
- Remote controller functions added: Auto mode, holiday mode, show power consumption

Panasonic has designed the new Aquarea Bi-Bloc and Mono-bloc heat pumps for homes which have high performance requirements.

Whatever the weather, Aquarea can work even at -28°C!

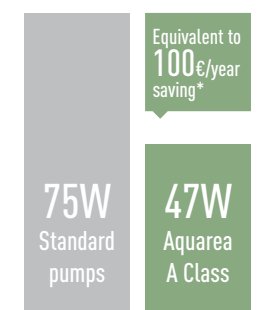
The New Aquarea is easy to install on new or existing installations, in all types of properties.

#### Standard circulating pumps vs A Class circulating pumps

Comparison of energy consumption of circulation pumps.

New A Class circulating pump with Constant water flow (Dynamic pump control) for 5kW Mono-bloc.

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



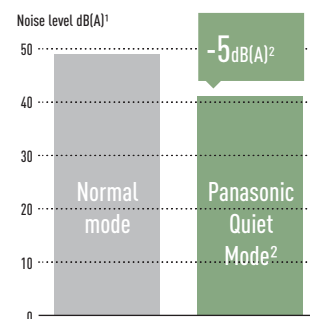
#### High Performance Pumps are also Highly Efficient (WH-MDC05F3E5 example)



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



#### Advanced Controller for H Generation



Improved visibility & Easy operation by big full-dot LCD panel and large touch panel!

Remote controller can be removed from indoor unit and installed in living room.

#### Key Points

Full dot big LCD screen (3,5 inch) / High resolution screen with backlight / Easy set up / Check conditions easily even at the living room / Flat, innovative design / Temperature Sensor included in controller.

#### Remote control

Panasonic has introduced a new remote controller to improve performance, enhance comfort and deliver maximum savings.

#### New function for installer

- Floor heating concrete dry mode: Allows slow increase in temperature of floor heating via software
- Heating and Cooling Mode: Authorised service partner or Authorised installer can enable the cooling mode through a special operation via the remote controller on site
- Pump with 7 speeds: Pump speed can be selected on the remote control
- Pump speed is selected automatic based on demand

#### New function for end user

- Auto Mode: Automatically changes from heating to cooling depending on outdoor temperature.
- Energy Consumption: Displays the heat pump's energy consumption, split by heating, cooling and domestic hot water, and shows total consumption figure and COP
- Holiday Mode: Enables the system to resume at the preset temperature after your holiday

# AQUAREA T-CAP





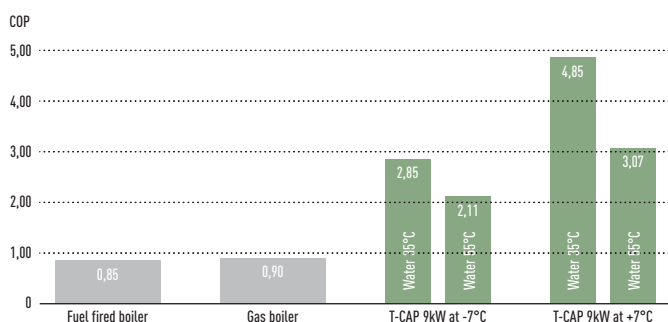
For extremely low temperatures, refurbishment and innovation. Install the A Class water pump: industry's top class energy-saving!

**To ensure that 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. All Aquarea heat pumps can also be connected to a solar kit in order to increase efficiency and minimize the impact on the ecosystem. Finally, it is possible to connect a thermostat for even better heating or cooling control and management.

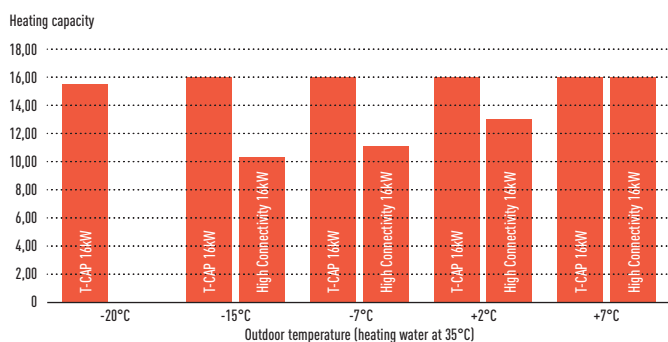
**Best efficiency compared to other heating systems**

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.



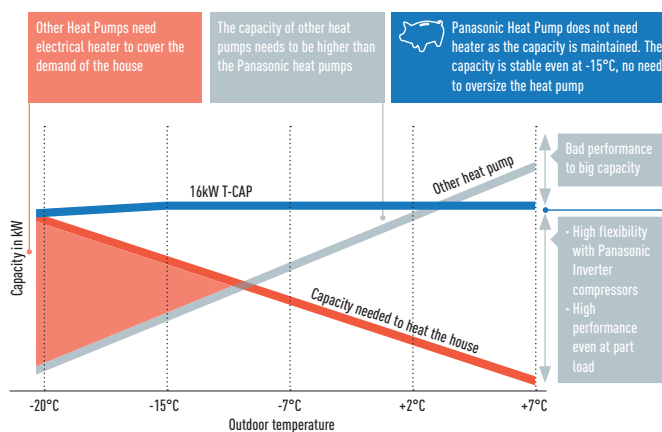
**Key points of the line-up**

- Is able to maintain the heat pump output capacity until -20°C outdoor temperature without the help of an electrical booster heater
- High heating capacity even at low ambient temperatures.
- Adding functions: Auto and holiday mode, power consumption display
- Backup heater capacity can be selected (3/6/9kW)
- Cooling mode activation possible by software\*

\* This activation can only be done by service partner or installer

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

- Dedicated software for low consumption houses which allows the heat pump to produce hot water at 20°C. This is needed during the seasons, when a little heating is required
- No need for an additional expansion vessel, as the unit already has a 10L expansion vessel
- No buffer tank required as the Panasonic heat pump has an inverter compressor which can regulate the capacity. New twin deice system included within the system
- 3/6/9kW electrical heater is included on the heat pump
- Panasonic heat pumps can work in outdoor temperatures as low as -28°C and guarantee the capacity without backup heating down to -20°C
- Panasonic heat pumps are very quiet and have a night mode program for even lower noise. See noise calculator on [www.panasonicproclub.com](http://www.panasonicproclub.com)



**Applications**



For retrofit houses. Replace easily expensive gas or oil boilers for high efficient 16kW T-CAP.



For commercial applications. Wide range of capacities from 9kW to 45kW. Also you are able to connect up to five heat pumps.



For heating and cooling mode. The 16kW is able to heat the water at 60°C and can work when the temperature is as low as -28°C.



For heating and sanitary hot water. Efficient domestic hot water tanks allow large storage for high consumption of hot water.

# AQUAREA HT





For a house with old high-temperature radiators, ideal for retrofit. Aquarea HT produces hot water at 65°C, making it ideal for use as a high efficiency retrofit replacement for gas boilers supplying radiators for heating.

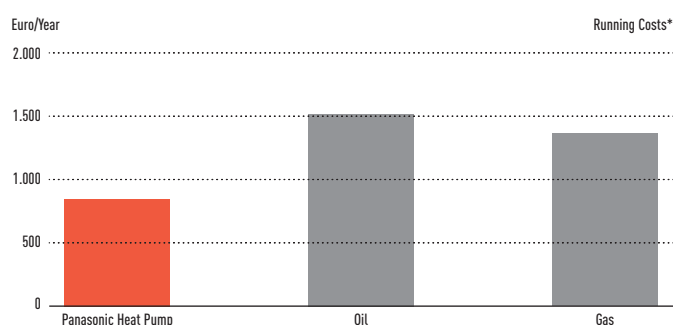
### Green energy source works with existing radiators

Replace a traditional heating source (such as oil or gas) with Aquarea HT, but keep existing old style radiators for minimum disruption to the home. From 9 to 12kW. For a house with traditional high-temperature radiators (such as cast iron radiators), the Aquarea HT Solution is the most appropriate as the Aquarea HT provides output water temperatures of 65°C even at outdoor temperatures as low as -15°C. Aquarea HT is able to deliver hot water to 65°C with the Heat Pump alone.

### Aquarea HT: High savings and low CO<sub>2</sub>

The results of replacing traditional heating systems with Aquarea HT are clear: lowest running cost and lowest CO<sub>2</sub> emissions. Panasonic Heat Pumps are much more efficient than fossil fueled boilers and help you to reach your house energy targets easier.

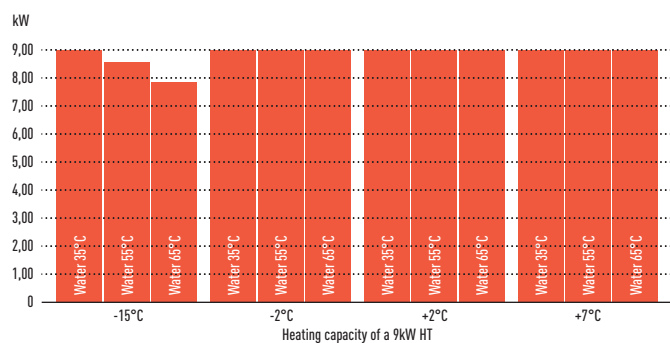
### Yearly savings with Aquarea HT



\* For a 170 m<sup>2</sup> house and 40 W/m<sup>2</sup> energy losses in central Europe Conditions, outside minimum conditions -10°C.

### Panasonic Aquarea HT is super efficient even at low temperature

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

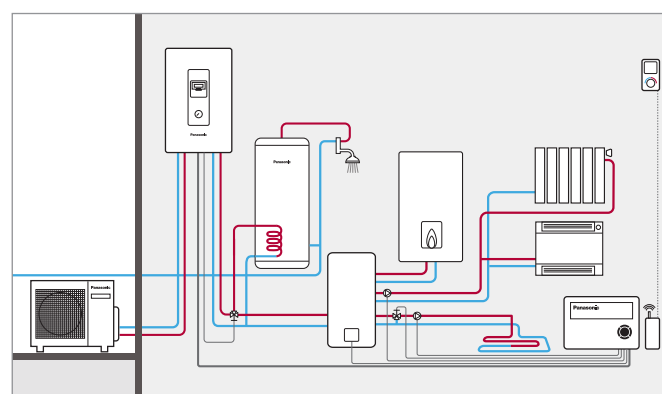


### Smart Bivalent operation

Thanks to Aquarea bivalent controller, it is possible to combine different heat sources and use the most appropriate source, depending on user preferences. Thus, if it is necessary to combine a gas or oil boiler with heat pump, Aquarea bivalent controller is simply the best solution.



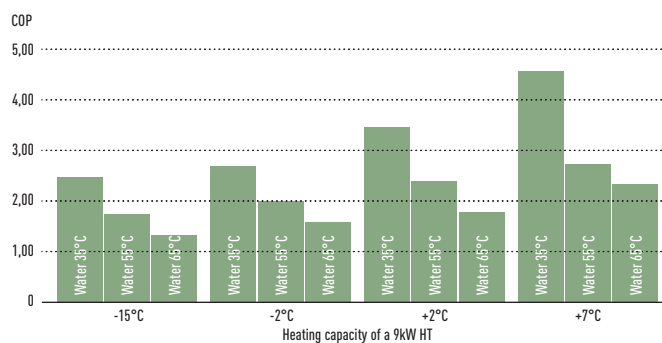
### Heat Pump + Boiler Management with DHW with PAW-A2W-BIV



### Easy installation

Air source heat pumps are simple to install. They do not require a chimney, gas connection nor oil tank. All that is required is a standard power supply connection. Aquarea heat pumps are also quick to start up.

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 and 12kW, single or three phase, in both Bi-bloc and Mono-bloc versions. The HT is also very quiet in operation with no noise inside the house as there is no double stage compression.

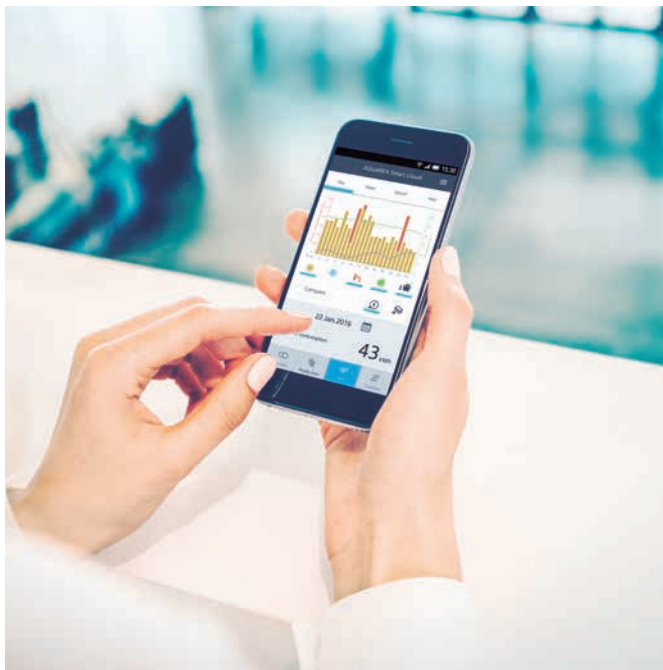
# NEW AQUAREA SMART CLOUD FOR H GENERATION

## 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 hot water functions, including monitoring energy consumption.

New functions for maintenance companies will be added during 2017, making advanced remote maintenance available to users and companies using same device.



### Advantages

Energy savings, comfort and control from anywhere. Increase efficiency and resources management, operating costs savings and owner satisfaction. Throughout 2017 Panasonic will add new services to the Aquarea Smart Cloud focused on enabling full remote maintenance of the Aquarea system. This will 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  | Wifi or Wired LAN             |
| Temperature sensor  | Can use remote control 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.



\* User interface image may change without notification.

### How it works?

Connect Aquarea H Generation system to the cloud using Wifi or a wired LAN Network.

### Requirements

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

### 2 step introduction with same hardware: CZ-TAW1

|  | Step 1 (September 2016) | Step 2 (2nd Half of 2017)<br>Same CZ-TAW1 hardware. Changes implemented in the cloud server. |
|--|-------------------------|--|
| <b>End User management and energy control</b>                              |                         |  |
| Visualization & Control  | ✓                       | —  |
| Scheduling   | ✓                       | —  |
| Energy Statistics  | ✓                       | —  |
| Malfunction notification   | ✓                       | —  |
| <b>Advanced functions for remote maintenance with professional screens</b> |                         |  |
| Monitoring   | —                       | ✓  |
| Control  | —                       | ✓  |
| Statistics (exportable)  | —                       | ✓  |
| Failure Prediction   | —                       | ✓  |
| Remote Service   | —                       | ✓  |



1. LAN  
2. Aquarea connection by CN-CNT



# CONTROL & CONNECTIVITY

## Internet Control

Control your heat pump from wherever you are. Control your comfort and efficiency with the lowest energy consumption.

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



## Bivalent Controller

Connect various heating systems together with the Bivalent Controller, either in parallel, alternative or as a boost. Seamlessly, providing the most cost effective heating solution for your home.

Panasonic has developed a new easy start up mode for the bivalent controller. Start your bivalent system in just 10 minutes!



## Connectivity. Control by BMS

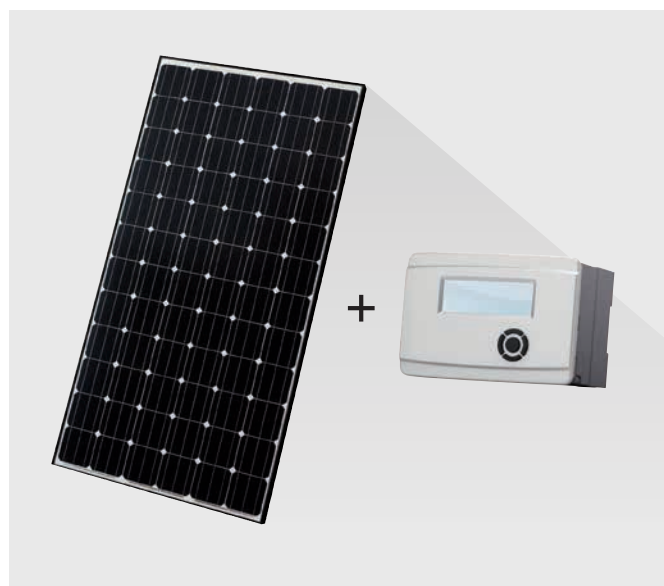
Great flexibility for integration into your KNX / Modbus projects allows fully bi-directional monitoring and control of all the functioning parameters. These new interfaces allows full monitoring and control, bi-directional, of all the functioning parameters of Aquarea control from KNX or Modbus installations.



## PV panels + Heat Pump Manager

### Heat and produce Domestic Hot Water for free

The Heat Pump will take the electricity generated by the solar system into consideration for the heating system and the domestic hot water production, without reducing comfort in the house.



# AQUAREA DHW

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.

## All new DHW HP will be delivered with a plug, because:

1. IP protection
2. Pull forces
3. No junction box – we want to avoid to have disassembling though installation
4. Bench mark analysis

## 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.).



## Aquarea 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 super-clean 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.

# AQUAREA AIR RADIATORS

AQUAREA  
AIR

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

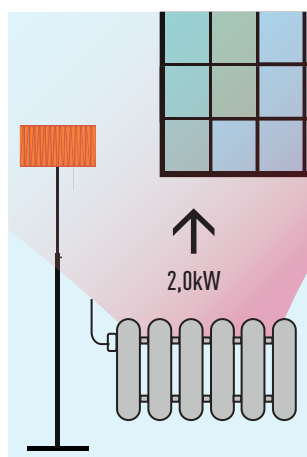
The slimline Panasonic Aquarea Air radiators deliver high efficiency climate control. With a depth of just under 13 cm they are at the cutting edge of the market. Blending easily into the home, Aquarea Air's elegant design and product refinements are clear to see in every detail. The Aquarea Air's slimline profile has been achieved thanks to the innovative layout of the ventilation unit and the heat exchanger. The fan is tangential with asymmetric blades and the large surface heat exchanger enables high airflows to be achieved with low pressure loss and low noise levels. 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.



## Line up of super low temperature radiators for Heat Pump application

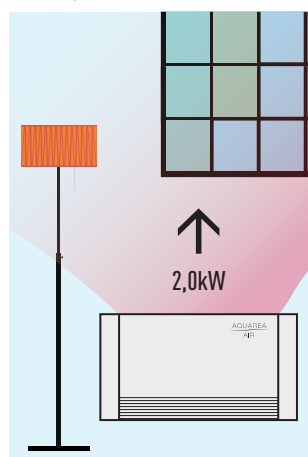
During winter, the operating principle is based on micro fans with very low power consumption and minimum noise, that send hot air coming from the heat exchanger, to the inside of the front panel of the device and therefore heat it effectively. With this principle, the terminal also provides significant power while heating, without running the main fan. Comfort temperatures are therefore maintained, without air movements and in silence. In summer mode, the airflow generated by the micro fans is stopped to avoid any dew formation on the terminal's front surface.

With standard cast radiators



Water at 65°C needed.

With Aquarea Air



Water at 35°C needed.

### Technical focus

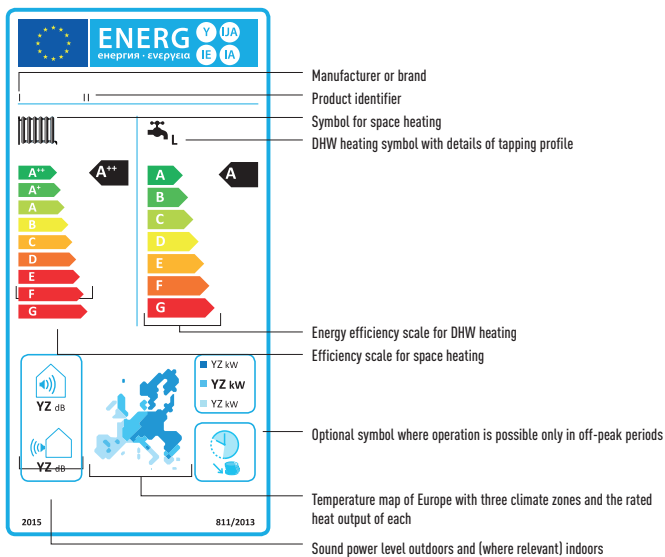
- Front panel heating with radiant effect
- High heating capacity (without main fan running)
- 4 fan speeds and capacities
- Exclusive design
- Extremely compact (only 12,9 cm deep)
- Cooling and dehumidification functions possible (drain is needed)
- 3-way valve included (no overflow valve needed on the installation if more than 3 radiators installed)
- Touch screen thermostat

All temperature curves and capacity are available on  
[www.panasonicproclub.com](http://www.panasonicproclub.com)



# 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 ErP

Fridges, dishwashers, washing machines, ovens – it all started with white goods in the 1990s. Today, other energy-consuming appliances also carry the European ErP 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 pumps. As of September 2015, it will also apply to room heaters, water heaters and storage water heaters. “ErP” stands for Energy related Products.

Now, minimum energy efficiency requirements for energy efficient solutions (the Ecodesign Directive) are also specified for manufacturers of system and combi boilers, water heaters and DHW cylinders.

This directive, valid throughout the European Union, and the label associated with it are intended to assist consumers in their purchasing decisions and to help reduce private energy demand, as well as combat climate change.

## 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 ErP 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 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 efficiency labels. Calculators which assist installers with this process are available on [www.panasonicproclub.com](http://www.panasonicproclub.com).

## Information on the energy label

The rating system for heating heat pumps classifies them into nine efficiency categories. The best energy efficiency category is A++. Category G identifies appliances with significantly poorer values. The ErP label for system boilers shows its efficiency category on a scale from A++ to G (to D for heat pumps, from A to G for hot water cylinders). In August 2019, a more rigorous scale will be introduced from A+++ to D, and from A+ to G for hot water cylinders.

## Panasonic helps you to calculate the system label

[www.panasonicproclub.com](http://www.panasonicproclub.com)

or connect simply with your smartphone to the PRO Club using this QR



**PRO Club**

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

### A 125m<sup>2</sup> 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](http://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                              | 4.800,0m <sup>3</sup> /h      |
| 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 <sup>2</sup>           |
| Standard heating requirement               | 11,3kW                      |
| Internal gains                             | 5,625kWh/year               |
| Solar gains (windows)                      | 4,500kWh/year               |
| Indoor design temperature                  | 20°C                        |
| Outdoor temperature limit for heating 'ON' | 15°C                        |
| Heat distribution                          | Underfloor heating by 100 % |
|  | Radiator heating by -- %    |
|  | Wall heating by -- %        |
| Maximum flow water temperature             | 55°C                        |
| Maximum return water temperature           | 50°C                        |
| Solar collector area                       | -- m <sup>2</sup>           |

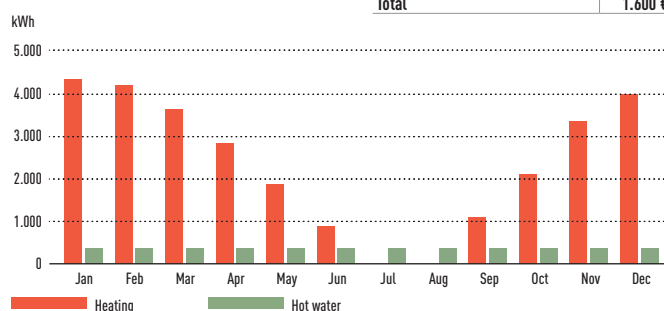
| Rate data                                     |                                  |
|---|----------------------------------|
| Description                                   | French (Panasonic)               |
| Shut off times total                          | 0,0 h/day                        |
| Weekends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

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

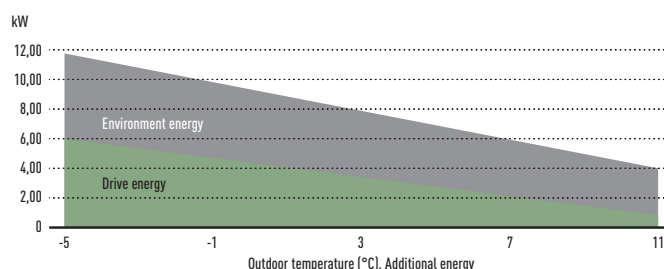
### Calculation results

#### Monthly heat consumption in kWh

| Annual energy costs      |         | Caused by heat consumers |                |
|--------------------------|---------|--------------------------|----------------|
| Caused by heat producers |         | Space heating            | 1.220 €        |
| Heat pump                | 1.600 € | Service hot water        | 225 €          |
| Hot water heating rod    | 0 €     | Heat circulation pump(s) | 155 €          |
|                          |         | <b>Total</b>             | <b>1.600 €</b> |

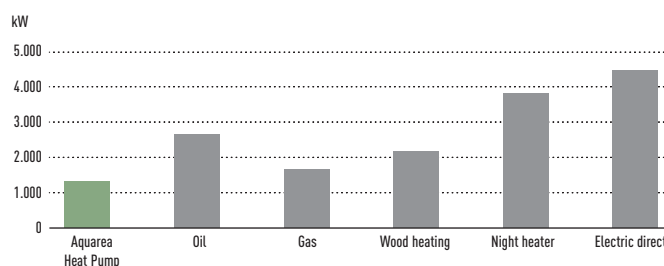


#### Aquarea energy coverage

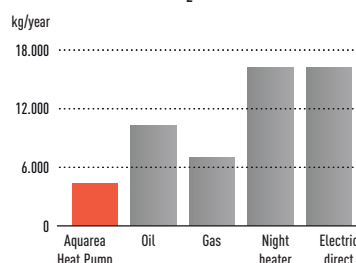


#### Comparison of running costs

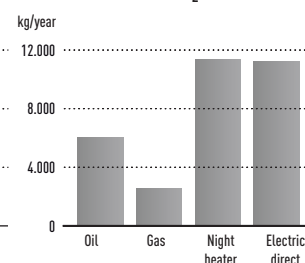
| Operational costs             |                     |                |                            |                       |
|-------------------------------|---------------------|----------------|----------------------------|-----------------------|
| Type of heating               | Price in pence /kWh | Efficiency (%) | Additional costs in €/year | Total costs in €/year |
| Heat pump                     | -                   | -              | 0                          | 1.600                 |
| Oil                           | 6,5                 | 85             | 0                          | 3.050                 |
| Gas                           | 4,0                 | 90             | 0                          | 1.868                 |
| Wood heating                  | 5,0                 | 80             | 0                          | 2.539                 |
| Electric night storage heater | 12,0                | 100            | 0                          | 4.455                 |
| Electric heating element      | 14,0                | 100            | 0                          | 5.197                 |



#### Comparison of CO<sub>2</sub> emissions



#### Comparison of CO<sub>2</sub> savings



# AQUAREA HEAT PUMPS LINE-UP



**Aquarea All in One H Generation High performance**  
Bi-Bloc Single Phase.  
Heating and Cooling  
1 zone hydrokit or 2 zones built-in hydrokit

| Kit 1 zone<br>Kit 2 zones                                   | Single Phase (power to indoor)    |                               |                               |                               |
|---|-----------------------------------|-------------------------------|-------------------------------|-------------------------------|
|   | KIT-ADC03HE5<br>KIT-ADC03HE5B     | KIT-ADC05HE5<br>KIT-ADC05HE5B | KIT-ADC07HE5<br>KIT-ADC07HE5B | KIT-ADC09HE5<br>KIT-ADC09HE5B |
| Heating capacity at +7°C (heating water at 35°C)            | 3,20                              | 5,00                          | 7,00                          | 9,00                          |
| COP at +7°C (heating water at 35°C)                         | 5,00                              | 4,63                          | 4,46                          | 4,13                          |
| Cooling capacity at 35°C (cooling water at 7/12°C)          | 3,20                              | 4,50                          | 6,00                          | 7,00                          |
| EER at 35°C (cooling water at 7/12°C)                       | 3,08                              | 2,69                          | 2,63                          | 2,43                          |
| Energy Efficiency Class at 35°C / at 55°C / at 55°C for DHW | ◀A++ / A++ / A                    | ◀A++ / A++ / A                | ◀A++ / A++ / A                | ◀A++ / A++ / A                |
| System label 35°C / 55°C <sup>1)</sup>                      | ◀A+++ / A+++                      | ◀A+++ / A+++                  | ◀A+++ / A+++                  | ◀A+++ / A+++                  |
| <b>Indoor unit 1 zone</b>                                   | <b>WH-ADC0309H3E5</b>             | <b>WH-ADC0309H3E5</b>         | <b>WH-ADC0309H3E5</b>         | <b>WH-ADC0309H3E5</b>         |
| <b>Indoor unit 2 zones</b>                                  | <b>WH-ADC0309H3E5B</b>            | <b>WH-ADC0309H3E5B</b>        | <b>WH-ADC0309H3E5B</b>        | <b>WH-ADC0309H3E5B</b>        |
| Sound pressure level Heating / Cooling                      | dB(A) 28 / 28                     | 28 / 28                       | 28 / 28                       | 28 / 28                       |
| Dimensions* / Net Weight* H x W x D                         | mm / kg 1.800 x 598 x 717 / 135   | 1.800 x 598 x 717 / 135       | 1.800 x 598 x 717 / 135       | 1.800 x 598 x 717 / 135       |
| Capacity of integrated electric heater                      | kW 3                              | 3                             | 3                             | 3                             |
| Recommended Fuse  | A 15 / 15                         | 15 / 15                       | 30 / 15                       | 30 / 15                       |
| Recommended cable size, supply 1 & 2                        | mm <sup>2</sup> 3 x 1,5 / 3 x 1,5 | 3 x 1,5 / 3 x 1,5             | 3 x 2,5 / 3 x 1,5             | 3 x 2,5 / 3 x 1,5             |
| Water volume  | L 185                             | 185                           | 185                           | 185                           |
| Material inside tank  | Stainless steel                   | Stainless steel               | Stainless steel               | Stainless steel               |
| <b>Outdoor unit</b>   | <b>WH-UD03HE5-1</b>               | <b>WH-UD05HE5-1</b>           | <b>WH-UD07HE5-1</b>           | <b>WH-UD09HE5-1</b>           |
| Sound pressure level Heating / Cooling                      | dB(A) 48 / 47                     | 49 / 48                       | 50 / 48                       | 51 / 50                       |
| Sound power level Heating / Cooling                         | dB 64 / 65                        | 66 / 66                       | 67 / 66                       | 69 / 68                       |
| Dimensions / Weight H x W x D                               | mm / kg 622 x 824 x 298 / 39      | 622 x 824 x 298 / 39          | 795 x 900 x 320 / 66          | 795 x 900 x 320 / 66          |
| Refrigerant (R410A)   | kg 1,20                           | 1,20                          | 1,45                          | 1,45                          |
| Pipe diameter Liquid / Gas                                  | Inch (mm) 1/4 (6,35) / 1/2 (12,7) | 1/4 (6,35) / 1/2 (12,7)       | 1/4 (6,35) / 5/8 (15,88)      | 1/4 (6,35) / 5/8 (15,88)      |
| Pipe length range / Elevation difference (in/out)           | m 3 - 15 / 5                      | 3 - 15 / 5                    | 3 - 30 / 20                   | 3 - 30 / 20                   |
| Pipe length for additional gas / Additional gas amount      | m / g/m 10 / 20                   | 10 / 20                       | 10 / 30                       | 10 / 30                       |
| Operation range Outdoor ambient                             | °C -20 ~ +35                      | -20 ~ +35                     | -20 ~ +35                     | -20 ~ +35                     |
| Water outlet Heating / Cooling                              | °C 20 - 55 / 5 - 20               | 20 - 55 / 5 - 20              | 20 - 55 / 5 - 20              | 20 - 55 / 5 - 20              |

1) System label with controller. \* Tentative values



**Aquarea All in One High performance**  
Bi-Bloc Single Phase / Three Phase. Heating and Cooling

| Kit   | Single Phase (power to indoor)    |                   |                          |                         |                          |                   | Three Phase (power to indoor) |                   |                   |
|---|-----------------------------------|-------------------|--------------------------|-------------------------|--------------------------|-------------------|-------------------------------|-------------------|-------------------|
|   | KIT-ADC3GE5                       | KIT-ADC5GE5       | KIT-ADC7GE5              | KIT-ADC9GE5             | KIT-ADC12GE5             | KIT-ADC16GE5      | KIT-ADC9GE8                   | KIT-ADC12GE8      | KIT-ADC16GE8      |
| Heating capacity at +7°C (heating water at 35°C)            | 3,20                              | 5,00              | 7,00                     | 9,00                    | 12,00                    | 16,00             | 9,00                          | 12,00             | 16,00             |
| COP at +7°C (heating water at 35°C)                         | 5,00                              | 4,63              | 4,46                     | 4,13                    | 4,74                     | 4,28              | 4,84                          | 4,74              | 4,28              |
| Cooling capacity at 35°C (cooling water at 7/12°C)          | 3,20                              | 4,50              | 6,00                     | 7,00                    | 10,00                    | 12,20             | 7,00                          | 10,00             | 12,20             |
| EER at 35°C (cooling water at 7/12°C)                       | 3,08                              | 2,69              | 2,63                     | 2,43                    | 2,81                     | 2,56              | 3,17                          | 2,85              | 2,56              |
| Energy Efficiency Class at 35°C / at 55°C / at 55°C for DHW | ◀A++ / A++ / A                    | ◀A++ / A++ / A    | ◀A++ / A++ / A           | ◀A++ / A++ / A          | ◀A++ / A++ / A           | ◀A++ / A++ / A    | ◀A++ / A++ / A                | ◀A++ / A++ / A    | ◀A++ / A++ / A    |
| <b>Indoor unit</b>  | <b>WH-ADC0309G3E5</b>             |                   |                          | <b>WH-ADC1216G6E5</b>   |                          |                   | <b>WH-ADC0916G9E8</b>         |                   |                   |
| Sound pressure level Heating / Cooling                      | dB(A) 28 / 28                     | 28 / 28           | 28 / 28                  | 28 / 28                 | 33 / 33                  | 33 / 33           | 33 / 33                       | 33 / 33           | 33 / 33           |
| Dimensions / Net Weight H x W x D                           | mm / kg 1.800 x 598 x 717 / 135   |                   |                          | 1.800 x 598 x 717 / 135 |                          |                   | 1.800 x 598 x 717 / 139       |                   |                   |
| Capacity of integrated electric heater                      | kW 3                              | 3                 | 3                        | 3                       | 6                        | 6                 | 9                             | 9                 | 9                 |
| Recommended Fuse  | A 15 / 15                         | 15 / 15           | 30 / 15                  | 30 / 15                 | 30 / 30                  | 30 / 30           | 16 / 16                       | 16 / 16           | 16 / 16           |
| Recommended cable size, supply 1 & 2                        | mm <sup>2</sup> 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 | 5 x 1,5 / 5 x 1,5             | 5 x 1,5 / 5 x 1,5 | 5 x 1,5 / 5 x 1,5 |
| Water volume  | L 185                             | 185               | 185                      | 185                     | 185                      | 185               | 185                           | 185               | 185               |
| Material inside tank  | Stainless steel                   | Stainless steel   | Stainless steel          | Stainless steel         | Stainless steel          | Stainless steel   | Stainless steel               | Stainless steel   | Stainless steel   |
| <b>Outdoor unit</b>   | <b>WH-UD03E5</b>                  | <b>WH-UD05E5</b>  | <b>WH-UD07FE5</b>        | <b>WH-UD09FE5</b>       | <b>WH-UD12FE5</b>        | <b>WH-UD16FE5</b> | <b>WH-UD09FE8</b>             | <b>WH-UD12FE8</b> | <b>WH-UD16FE8</b> |
| Sound pressure level Heating / Cooling                      | dB(A) 48 / 47                     | 49 / 48           | 50 / 48                  | 51 / 50                 | 52 / 50                  | 55 / 54           | 51 / 49                       | 52 / 50           | 55 / 54           |
| Sound power level Heating / Cooling                         | dB 65 / 65                        | 66 / 66           | 66 / 66                  | 67 / 68                 | 67 / 68                  | 70 / 72           | 66 / 67                       | 67 / 68           | 70 / 72           |
| Dimensions / Weight H x W x D                               | mm / kg 622 x 824 x 298 / 39      |                   | 795 x 900 x 320 / 66     |                         | 1.340 x 900 x 320 / 101  |                   | 1.340 x 900 x 320 / 108       |                   |                   |
| Refrigerant (R410A)   | kg 1,20                           | 1,20              | 1,45                     | 1,45                    | 2,55                     | 2,55              | 2,55                          | 2,55              | 2,55              |
| Pipe diameter Liquid / Gas                                  | Inch (mm) 1/4 (6,35) / 1/2 (12,7) |                   | 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 / Elevation difference (in/out)           | m 3 - 15 / 5                      | 3 - 15 / 5        | 3 - 30 / 20              | 3 - 30 / 20             | 3 - 30 / 20              | 3 - 30 / 20       | 3 - 30 / 20                   | 3 - 30 / 20       | 3 - 30 / 20       |
| Pipe length for additional gas / Additional gas amount      | m / g/m 10 / 20                   | 10 / 20           | 10 / 30                  | 10 / 30                 | 10 / 50                  | 10 / 50           | 10 / 50                       | 10 / 50           | 10 / 50           |
| Operation range Outdoor ambient                             | °C -20 ~ +35                      | -20 ~ +35         | -20 ~ +35                | -20 ~ +35               | -20 ~ +35                | -20 ~ +35         | -20 ~ +35                     | -20 ~ +35         | -20 ~ +35         |
| Water outlet Heating / Cooling                              | °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  | 25 - 55 / 5 - 20              | 25 - 55 / 5 - 20  | 25 - 55 / 5 - 20  |



**Aquarea All in One T-CAP**  
Bi-Bloc Single Phase / Three Phase. Heating and Cooling

| Kit   | Single Phase (power to indoor)     |                       |                          | Three Phase (power to indoor) |                          |
|---|------------------------------------|-----------------------|--------------------------|-------------------------------|--------------------------|
|   | KIT-AXC9GE5                        | KIT-AXC12GE5          | KIT-AXC9GE8              | KIT-AXC12GE8                  | KIT-AXC16GE8             |
| Heating capacity at +7°C (heating water at 35°C)            | 9,00                               | 12,00                 | 9,00                     | 12,00                         | 16,00                    |
| COP at +7°C (heating water at 35°C)                         | 4,84                               | 4,74                  | 4,84                     | 4,74                          | 4,28                     |
| Cooling capacity at 35°C (cooling water at 7/12°C)          | 7,00                               | 10,00                 | 7,00                     | 10,00                         | 12,20                    |
| EER at 35°C (cooling water at 7/12°C)                       | 3,17                               | 2,81                  | 3,17                     | 2,81                          | 2,56                     |
| Energy Efficiency Class at 35°C / at 55°C / at 55°C for DHW | ◀A++ / A++ / A                     | ◀A++ / A++ / A        | ◀A++ / A++ / A           | ◀A++ / A++ / A                | ◀A++ / A++ / A           |
| <b>Indoor unit</b>  | <b>WH-ADC1216G6E5</b>              | <b>WH-ADC1216G6E5</b> | <b>WH-ADC0916G9E8</b>    | <b>WH-ADC0916G9E8</b>         | <b>WH-ADC0916G9E8</b>    |
| Sound pressure level Heating / Cooling                      | dB(A) 33 / 33                      | 33 / 33               | 33 / 33                  | 33 / 33                       | 33 / 33                  |
| Dimensions / Net Weight H x W x D                           | mm / kg 1.800 x 598 x 717 / 137    |                       | 1.800 x 598 x 717 / 139  |                               | 1.800 x 598 x 717 / 139  |
| Capacity of integrated electric heater                      | kW 6                               | 6                     | 9                        | 9                             | 9                        |
| Recommended Fuse  | A 30 / 30                          | 30 / 30               | 16 / 16                  | 16 / 16                       | 16 / 16                  |
| Recommended cable size, supply 1 & 2                        | mm <sup>2</sup> 3 x 4,0 / 3 x 4,0  | 3 x 4,0 / 3 x 4,0     | 5 x 1,5 / 5 x 1,5        | 5 x 1,5 / 5 x 1,5             | 5 x 1,5 / 5 x 1,5        |
| Water volume  | L 185                              | 185                   | 185                      | 185                           | 185                      |
| Material inside tank  | Stainless steel                    | Stainless steel       | Stainless steel          | Stainless steel               | Stainless steel          |
| <b>Outdoor unit</b>   | <b>WH-UX09FE5</b>                  | <b>WH-UX12FE5</b>     | <b>WH-UX09FE8</b>        | <b>WH-UX12FE8</b>             | <b>WH-UX16FE8</b>        |
| Sound pressure level Heating / Cooling                      | dB(A) 51 / 49                      | 52 / 50               | 51 / 49                  | 52 / 50                       | 55 / 54                  |
| Sound power level Heating / Cooling                         | dB 66 / 67                         | 67 / 68               | 66 / 67                  | 67 / 68                       | 70 / 71                  |
| Dimensions / Weight H x W x D                               | mm / kg 1.340 x 900 x 320 / 101    |                       | 1.340 x 900 x 320 / 109  |                               | 1.340 x 900 x 320 / 119  |
| Refrigerant (R410A)   | kg 2,85                            | 2,85                  | 2,85                     | 2,85                          | 2,90                     |
| Pipe diameter Liquid / Gas                                  | Inch (mm) 3/8 (9,52) / 5/8 (15,88) |                       | 3/8 (9,52) / 5/8 (15,88) |                               | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out)           | m 3 - 30 / 20                      |                       | 3 - 30 / 20              |                               | 3 - 30 / 20              |
| Pipe length for additional gas / Additional gas amount      | m / g/m 10 / 50                    |                       | 10 / 50                  |                               | 10 / 50                  |
| Operation range Outdoor ambient                             | °C -20 ~ +35                       |                       | -20 ~ +35                |                               | -20 ~ +35                |
| Water outlet Heating / Cooling                              | °C 25 - 55 / 5 - 20                |                       | 25 - 55 / 5 - 20         |                               | 25 - 55 / 5 - 20         |



|  |                         |                 | Single Phase Heating and Cooling |                         |                          |                          |
|--|-------------------------|-----------------|----------------------------------|-------------------------|--------------------------|--------------------------|
| Kit  |                         |                 | KIT-WC03H3E5                     | KIT-WC05H3E5            | KIT-WC07H3E5             | KIT-WC09H3E5             |
| Heating capacity at +7°C (heating water at 35°C)       | kW                      |                 | 3,20                             | 5,00                    | 7,00                     | 9,00                     |
| COP at +7°C (heating water at 35°C)                    | W/W                     |                 | 5,00                             | 4,63                    | 4,46                     | 4,13                     |
| Cooling capacity at 35°C (cooling water at 7/12°C)     | kW                      |                 | 3,20                             | 4,50                    | 6,00                     | 7,00                     |
| EER at 35°C (cooling water at 7/12°C)                  | W/W                     |                 | 3,08                             | 2,69                    | 2,63                     | 2,43                     |
| Energy Efficiency Class at 35°C / 55°C                 |                         |                 | A+++ / A++                       | A++ / A+                | A+ / A                   | A+ / A                   |
| System label 35°C / 55°C <sup>1)</sup>                 |                         |                 | A+++ / A++                       | A+++ / A++              | A+++ / A++               | A+++ / A++               |
| Indoor unit  |                         |                 | WH-SDC03H3E5                     | WH-SDC05H3E5            | WH-SDC07H3E5             | WH-SDC09H3E5             |
| Sound pressure level                                   | Heating / Cooling       | dB(A)           | 28 / 28                          | 28 / 28                 | 30 / 30                  | 30 / 30                  |
| Dimensions / Weight                                    | H x W x D               | mm / kg         | 892 x 500 x 340 / 44             | 892 x 500 x 340 / 44    | 892 x 500 x 340 / 44     | 892 x 500 x 340 / 44     |
| A class Pump   | Number of speeds        |                 | Variable Speed                   | Variable Speed          | Variable Speed           | Variable Speed           |
|  | Input power (Min / Max) | W               | 30 / 100                         | 33 / 106                | 34 / 114                 | 40 / 120                 |
| Capacity of integrated electric heater                 |                         | kW              | 3                                | 3                       | 3                        | 3                        |
| Recommended Fuse                                       |                         | A               | 15 / 30                          | 15 / 30                 | 15 / 30                  | 15 / 30                  |
| Recommended cable size, supply 1 & 2                   |                         | mm <sup>2</sup> | 3 x 1,5 / 3 x 1,5                | 3 x 1,5 / 3 x 1,5       | 3 x 1,5 / 3 x 1,5        | 3 x 1,5 / 3 x 1,5        |
| Outdoor unit   |                         |                 | WH-UD03HE5                       | WH-UD05HE5              | WH-UD07HE5               | WH-UD09HE5               |
| Sound pressure level                                   | Heating / Cooling       | dB(A)           | 47 / 47                          | 48 / 48                 | 50 / 48                  | 51 / 50                  |
| Sound power level                                      | Heating / Cooling       | dB              | - / 65                           | - / 66                  | 68 / 66                  | 69 / 68                  |
| Dimensions / Weight                                    | H x W x D               | mm / kg         | 622 x 824 x 298 / 39             | 622 x 824 x 298 / 39    | 795 x 900 x 320 / 66     | 795 x 900 x 320 / 66     |
| Refrigerant (R410A)                                    |                         | kg              | 1,20                             | 1,20                    | 1,45                     | 1,45                     |
| Pipe diameter  | Liquid / Gas            | Inch (mm)       | 1/4 (6,35) / 1/2 (12,7)          | 1/4 (6,35) / 1/2 (12,7) | 1/4 (6,35) / 5/8 (15,88) | 1/4 (6,35) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out)      |                         | m               | 3 - 15 / 5                       | 3 - 15 / 5              | 3 - 30 / 20              | 3 - 30 / 20              |
| Pipe length for additional gas / Additional gas amount |                         | m / g/m         | 10 / 20                          | 10 / 20                 | 10 / 30                  | 10 / 30                  |
| Operation range  | Outdoor ambient         | °C              | -20 ~ +35                        | -20 ~ +35               | -20 ~ +35                | -20 ~ +35                |
| Water outlet   | Heating / Cooling       | °C              | 20 - 55 / 5 - 20                 | 20 - 55 / 5 - 20        | 20 - 55 / 5 - 20         | 20 - 55 / 5 - 20         |

Remark to energy efficiency class: These indications are based on the official ErP regulations (EU regulations N° 811/2013, EN 14511 and EN 14825) for heat pumps, which is officially binding from September 2015. Efficiency classes marked with \* would meet the new regulations from September 2019 to a classification as A+++ - I) System label with controller. Tentative data.



**Aquarea H Generation High Performance**  
Bi-Bloc Single Phase.  
Heating and Cooling - SDC

|  |                         |                 | Three Phase (power to indoor) |                            |                            |
|--|-------------------------|-----------------|-------------------------------|----------------------------|----------------------------|
| Kit  |                         |                 | KIT-WC09H3E8 <sup>1)</sup>    | KIT-WC12H9E8 <sup>1)</sup> | KIT-WC16H9E8 <sup>1)</sup> |
| Heating capacity at +7°C (heating water at 35°C)       | kW                      |                 | 9,00                          | 12,00                      | 16,00                      |
| COP at +7°C (heating water at 35°C)                    | W/W                     |                 | 4,84                          | 4,14                       | 4,28                       |
| Cooling capacity at 35°C (cooling water at 7/12°C)     | kW                      |                 | 7,00                          | 10,00                      | 12,20                      |
| EER at 35°C (cooling water at 7/12°C)                  | W/W                     |                 | 3,17                          | 2,81                       | 2,56                       |
| Energy Efficiency Class at 35°C / at 55°C              |                         |                 | A++ / A+                      | A++ / A+                   | A+ / A                     |
| Indoor unit  |                         |                 | WH-SDC09H3E8                  | WH-SDC12H9E8               | WH-SDC16H9E8               |
| Sound pressure level                                   | Heating / Cooling       | dB(A)           | 28 / 28                       | 28 / 28                    | 28 / 28                    |
| Dimensions / Weight                                    | H x W x D               | mm / kg         | 892 x 500 x 340 / 44          | 892 x 500 x 340 / 44       | 892 x 500 x 340 / 44       |
| Pump   | Number of speeds        |                 | Variable Speed                | Variable Speed             | Variable Speed             |
|  | Input power (Min / Max) | W               | 32 / 102                      | 34 / 110                   | 30 / 105                   |
| Capacity of integrated electric heater                 |                         | kW              | 3                             | 3                          | 3                          |
| Recommended Fuse                                       |                         | A               | 15 / 30                       | 15 / 30                    | 15 / 30                    |
| Recommended cable size, supply 1 & 2                   |                         | mm <sup>2</sup> | 3 x 1,5 / 3 x 1,5             | 3 x 1,5 / 3 x 1,5          | 3 x 1,5 / 3 x 1,5          |
| Outdoor unit   |                         |                 | WH-UD09HE8                    | WH-UD12HE8                 | WH-UD16HE8                 |
| Sound pressure level                                   | Heating / Cooling       | dB(A)           | 51 / 49                       | 52 / 50                    | 55 / 54                    |
| Sound power level                                      | Heating / Cooling       | dB              | - / -                         | - / -                      | - / -                      |
| Dimensions / Weight                                    | H x W x D               | mm / kg         | 1.340 x 900 x 320 / 108       | 1.340 x 900 x 320 / 108    | 1.340 x 900 x 320 / 108    |
| Refrigerant (R410A)                                    |                         | kg              | 2,55                          | 2,55                       | 2,55                       |
| Pipe diameter  | Liquid / Gas            | Inch (mm)       | 3/8 (9,52) / 5/8 (15,88)      | 3/8 (9,52) / 5/8 (15,88)   | 3/8 (9,52) / 5/8 (15,88)   |
| Pipe length range / Elevation difference (in/out)      |                         | m               | 3 - 30 / 20                   | 3 - 30 / 20                | 3 - 30 / 20                |
| Pipe length for additional gas / Additional gas amount |                         | m / g/m         | 10 / 50                       | 10 / 50                    | 10 / 50                    |
| Operation range  | Outdoor ambient         | °C              | -20 ~ +35                     | -20 ~ +35                  | -20 ~ +35                  |
| Water outlet   | Heating / Cooling       | °C              | 20 - 55 / 5 - 20              | 20 - 55 / 5 - 20           | 20 - 55 / 5 - 20           |

1) Available in December 2016.



**Aquarea H Generation High Performance**  
Bi-Bloc Three Phase.  
Heating and Cooling - SDC

|  |                         |                 | Three Phase (power to indoor) |                             |                             | Three Phase. New Super Quiet outdoor unit |                           |                           |
|--|-------------------------|-----------------|-------------------------------|-----------------------------|-----------------------------|---|---------------------------|---------------------------|
| Kit  |                         |                 | KIT-WXC09H3E8 <sup>1)</sup>   | KIT-WXC12H9E8 <sup>1)</sup> | KIT-WXC16H9E8 <sup>1)</sup> | KIT-WQC09H3E8                             | KIT-WQC12H9E8             | KIT-WQC16H9E8             |
| Heating capacity at +7°C (heating water at 35°C)       | kW                      |                 | 9,00                          | 12,00                       | 16,00                       | 9,00                                      | 12,00                     | 16,00                     |
| COP at +7°C (heating water at 35°C)                    | W/W                     |                 | 4,84                          | 4,74                        | 4,28                        | 4,84                                      | 4,14                      | 4,28                      |
| Cooling capacity at 35°C (cooling water at 7°C)        | kW                      |                 | 7,00                          | 10,00                       | 12,20                       | 7,00                                      | 10,00                     | 12,20                     |
| EER at 35°C (cooling water at 7°C)                     | W/W                     |                 | 3,17                          | 2,81                        | 2,57                        | 3,17                                      | 2,81                      | 2,56                      |
| Energy Efficiency Class at 35°C / at 55°C              |                         |                 | A++ / A+                      | A++ / A+                    | A++ / A+                    | A++ / A+                                  | A++ / A+                  | A++ / A+                  |
| Indoor unit  |                         |                 | WH-SXC09H3E8                  | WH-SXC12H9E8                | WH-SXC16H9E8                | WH-SXC09H3E8                              | WH-SXC12H9E8              | WH-SXC16H9E8              |
| Sound pressure level                                   | Heating / Cooling       | dB(A)           | 28 / 28                       | 28 / 28                     | 28 / 28                     | 28 / 28                                   | 28 / 28                   | 28 / 28                   |
| Dimensions / Weight*                                   | H x W x D               | mm / kg         | 892 x 500 x 340 / 44          | 892 x 500 x 340 / 44        | 892 x 500 x 340 / 44        | 892 x 500 x 340 / 44                      | 892 x 500 x 340 / 44      | 892 x 500 x 340 / 44      |
| Pump   | Number of speeds        |                 | Variable Speed                | Variable Speed              | Variable Speed              | Variable Speed                            | Variable Speed            | Variable Speed            |
|  | Input power (Min / Max) | W               | 32 / 102                      | 34 / 110                    | 30 / 105                    | 32 / 102                                  | 34 / 110                  | 30 / 105                  |
| Capacity of integrated electric heater                 |                         | kW              | 3                             | 3                           | 3                           | 3   | 3                         |                           |
| Recommended Fuse                                       |                         | A               | 15 / 30                       | 15 / 30                     | 15 / 30                     | 15 / 30                                   | 15 / 30                   |                           |
| Recommended cable size, supply 1 & 2                   |                         | mm <sup>2</sup> | 3 x 1,5 / 3 x 1,5             | 3 x 1,5 / 3 x 1,5           | 3 x 1,5 / 3 x 1,5           | 3 x 1,5 / 3 x 1,5                         | 3 x 1,5 / 3 x 1,5         |                           |
| Outdoor unit   |                         |                 | WH-UX09HE8                    | WH-UX12HE8                  | WH-UX16HE8                  | WH-UQ09HE8                                | WH-UQ12HE8                | WH-UQ16HE8                |
| Sound pressure level                                   | Heating / Cooling       | dB(A)           | 51 / 49                       | 52 / 50                     | 55 / 54                     | Pending data                              | Pending data              | Pending data              |
| Sound power level                                      | Heating / Cooling       | dB              | - / -                         | - / -                       | - / -                       | - / -                                     | - / -                     | - / -                     |
| Dimensions / Weight                                    | H x W x D               | mm / kg         | 1.340 x 900 x 320 / 109       | 1.340 x 900 x 320 / 109     | 1.340 x 900 x 320 / 119     | 1.410 x 1.283 x 320 / 147                 | 1.410 x 1.283 x 320 / 147 | 1.410 x 1.283 x 320 / 147 |
| Refrigerant (R410A)                                    |                         | kg              | 2,85                          | 2,85                        | 2,90                        | 1,45                                      | 2,10                      | 2,10                      |
| 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)  | 3/8 (9,52) / 5/8 (15,88)  |
| Pipe length range / Elevation difference (in/out)      |                         | m               | 3 - 30 / 20                   | 3 - 30 / 20                 | 3 - 30 / 20                 | 3 - 30 / 20                               | 3 - 30 / 20               | 3 - 30 / 20               |
| Pipe length for additional gas / Additional gas amount |                         | m / g/m         | 10 / 50                       | 10 / 50                     | 10 / 50                     | 10 / 50                                   | 10 / 50                   | 10 / 50                   |
| Operation range  | Outdoor ambient         | °C              | -20 ~ +35                     | -20 ~ +35                   | -20 ~ +35                   | -20 ~ +35                                 | -20 ~ +35                 | -20 ~ +35                 |
| Water outlet   | Heating / Cooling       | °C              | 20 - 60 / 5 - 20              | 20 - 60 / 5 - 20            | 20 - 60 / 5 - 20            | 20 - 60 / 5 - 20                          | 20 - 60 / 5 - 20          | 20 - 60 / 5 - 20          |

1) Available in May 2017. \* Tentative values.

COP classification is at 230V only in accordance with EU directive 2003/32/EC. 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). Performance in agreement with EN14511.



**Aquarea H Generation T-CAP**  
Bi-Bloc Three Phase.  
Heating and Cooling - SXC



**Aquarea High Performance**  
Bi-Bloc Single Phase / Three Phase. Heating and Cooling - SDC

| Kit  |                         |           | Single Phase (power to indoor) |                          | Three Phase (power to indoor) |                          |                          |
|--|-------------------------|-----------|--------------------------------|--------------------------|-------------------------------|--------------------------|--------------------------|
|  |                         |           | KIT-WC12F6E5                   | KIT-WC16F6E5             | KIT-WC09F3E8                  | KIT-WC12F9E8             | KIT-WC16F9E8             |
| Heating capacity at +7°C (heating water at 35°C)       | kW                      |           | 12,0                           | 16,00                    | 9,00                          | 12,00                    | 16,00                    |
| COP at +7°C (heating water at 35°C)                    | W/W                     |           | 4,74                           | 4,28                     | 4,84                          | 4,74                     | 4,28                     |
| Cooling capacity at 35°C (cooling water at 7/12°C)     | kW                      |           | 10,00                          | 12,20                    | 7,00                          | 10,00                    | 12,20                    |
| EER at 35°C (cooling water at 7/12°C)                  | W/W                     |           | 2,81                           | 2,56                     | 3,17                          | 2,85                     | 2,57                     |
| Energy Efficiency Class at 35°C / at 55°C              |                         |           | ◀A++ / A++                     | ◀A++ / A++               | ◀A++ / A++                    | ◀A++ / A++               | ◀A++ / A++               |
| <b>Indoor unit</b>                                     |                         |           | <b>WH-SDC12F6E5</b>            | <b>WH-SDC16F6E5</b>      | <b>WH-SDC09F3E8</b>           | <b>WH-SDC12F9E8</b>      | <b>WH-SDC16F9E8</b>      |
| Sound pressure level                                   | Heating / Cooling       | dB(A)     | 33 / 33                        | 33 / 33                  | 33 / 33                       | 33 / 33                  | 33 / 33                  |
| Dimensions / Weight                                    | H x W x D               | mm / kg   | 892 x 502 x 353 / 45           | 892 x 502 x 353 / 46     | 892 x 502 x 353 / 46          | 892 x 502 x 353 / 46     | 892 x 502 x 353 / 47     |
| Pump   | Number of speeds        |           | 7                              | 7                        | 7                             | 7                        | 7                        |
|  | Input power (Min / Max) | W         | 34 / 110                       | 30 / 105                 | 32 / 102                      | 34 / 110                 | 30 / 105                 |
| Capacity of integrated electric heater                 |                         | kW        | 6                              | 6                        | 3                             | 9                        | 9                        |
| Recommended Fuse                                       |                         | A         | 30 / 30                        | 30 / 30                  | 16 / 16                       | 16 / 16                  | 16 / 16                  |
| Recommended cable size, supply 1 & 2                   |                         | mm²       | 3 x 4,0 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        |
| <b>Outdoor unit</b>                                    |                         |           | <b>WH-UD12FE5</b>              | <b>WH-UD16FE5</b>        | <b>WH-UD09FE8</b>             | <b>WH-UD12FE8</b>        | <b>WH-UD16FE8</b>        |
| Sound pressure level                                   | Heating / Cooling       | dB(A)     | 52 / 50                        | 55 / 54                  | 51 / 49                       | 52 / 50                  | 55 / 54                  |
| Sound power level                                      | Heating / Cooling       | dB        | 67 / 68                        | 70 / 72                  | 66 / 67                       | 67 / 68                  | 70 / 72                  |
| Dimensions / Weight                                    | H x W x D               | mm / kg   | 1.340 x 900 x 320 / 101        | 1.340 x 900 x 320 / 101  | 1.340 x 900 x 320 / 108       | 1.340 x 900 x 320 / 108  | 1.340 x 900 x 320 / 108  |
| Refrigerant (R410A)                                    |                         | kg        | 2,55                           | 2,55                     | 2,55                          | 2,55                     | 2,55                     |
| Pipe diameter  | Liquid / Gas            | Inch (mm) | 3/8 (9,52) / 5/8 (15,88)       | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88)      | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out)      |                         | m         | 3 - 30 / 20                    | 3 - 30 / 20              | 3 - 30 / 20                   | 3 - 30 / 20              | 3 - 30 / 20              |
| Pipe length for additional gas / Additional gas amount |                         | m / g/m   | 10 / 50                        | 10 / 50                  | 10 / 50                       | 10 / 50                  | 10 / 50                  |
| Operation range  | Outdoor ambient         | °C        | -20 ~ +35                      | -20 ~ +35                | -20 ~ +35                     | -20 ~ +35                | -20 ~ +35                |
| Water outlet   | Heating / Cooling       | °C        | 25 - 55 / 5 - 20               | 25 - 55 / 5 - 20         | 25 - 55 / 5 - 20              | 25 - 55 / 5 - 20         | 25 - 55 / 5 - 20         |



**Aquarea T-CAP**  
Bi-Bloc Single Phase / Three Phase. Heating and Cooling - SXC

| Kit  |                         |           | Single Phase (power to indoor) |                          | Three Phase (power to indoor) |                          |                          |                          |
|--|-------------------------|-----------|--------------------------------|--------------------------|-------------------------------|--------------------------|--------------------------|--------------------------|
|  |                         |           | KIT-WXC09F3E5                  | KIT-WXC12F6E5            | KIT-WXC09F3E8                 | KIT-WXC09F9E8            | KIT-WXC12F9E8            | KIT-WXC16F9E8            |
| Heating capacity at +7°C (heating water at 35°C)       | kW                      |           | 9,00                           | 12,00                    | 9,00                          | 9,00                     | 12,00                    | 16,00                    |
| COP at +7°C (heating water at 35°C)                    | W/W                     |           | 4,84                           | 4,74                     | 4,84                          | 4,84                     | 4,74                     | 4,28                     |
| Cooling capacity at 35°C (cooling water at 7°C)        | kW                      |           | 7,00                           | 10,00                    | 7,00                          | 7,00                     | 10,00                    | 12,20                    |
| EER at 35°C (cooling water at 7°C)                     | W/W                     |           | 3,17                           | 2,81                     | 3,17                          | 3,17                     | 2,81                     | 2,57                     |
| Energy Efficiency Class at 35°C / at 55°C              |                         |           | ◀A++ / A++                     | ◀A++ / A++               | ◀A++ / A++                    | ◀A++ / A++               | ◀A++ / A++               | ◀A++ / A++               |
| <b>Indoor unit</b>                                     |                         |           | <b>WH-SXC09F3E5</b>            | <b>WH-SXC12F6E5</b>      | <b>WH-SXC09F3E8</b>           | <b>WH-SXC09F9E8</b>      | <b>WH-SXC12F9E8</b>      | <b>WH-SXC16F9E8</b>      |
| Sound pressure level                                   | Heating / Cooling       | dB(A)     | 33 / 33                        | 33 / 33                  | 33 / 33                       | 33 / 33                  | 33 / 33                  | 33 / 33                  |
| Dimensions / Weight                                    | H x W x D               | mm / kg   | 892 x 502 x 353 / 44           | 892 x 502 x 353 / 45     | 892 x 502 x 353 / 45          | 892 x 502 x 353 / 45     | 892 x 502 x 353 / 46     | 892 x 502 x 353 / 52     |
| Pump   | Number of speeds        |           | 7                              | 7                        | 7                             | 7                        | 7                        | 7                        |
|  | Input power (Min / Max) | W         | 32 / 102                       | 34 / 110                 | 32 / 102                      | 32 / 102                 | 34 / 110                 | 30 / 105                 |
| Capacity of integrated electric heater                 |                         | kW        | 3                              | 6                        | 3                             | 9                        | 9                        |                          |
| Recommended Fuse                                       |                         | A         | 30 / 30                        | 30 / 30                  | 16 / 16                       | 16 / 16                  | 16 / 16                  |                          |
| Recommended cable size, supply 1 & 2                   |                         | 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        | 5 x 1,5 / 5 x 1,5        |
| <b>Outdoor unit</b>                                    |                         |           | <b>WH-UX09FE5</b>              | <b>WH-UX12FE5</b>        | <b>WH-UX09FE8</b>             | <b>WH-UX09FE8</b>        | <b>WH-UX12FE8</b>        | <b>WH-UX16FE8</b>        |
| Sound pressure level                                   | Heating / Cooling       | dB(A)     | 51 / 49                        | 52 / 50                  | 51 / 49                       | 51 / 49                  | 52 / 50                  | 55 / 54                  |
| Sound power level                                      | Heating / Cooling       | dB        | 66 / 67                        | 67 / 68                  | 66 / 67                       | 66 / 67                  | 67 / 68                  | 70 / 71                  |
| Dimensions / Weight                                    | H x W x D               | mm / kg   | 1.340 x 900 x 320 / 101        | 1.340 x 900 x 320 / 101  | 1.340 x 900 x 320 / 109       | 1.340 x 900 x 320 / 109  | 1.340 x 900 x 320 / 109  | 1.340 x 900 x 320 / 119  |
| Refrigerant (R410A)                                    |                         | kg        | 2,85                           | 2,85                     | 2,85                          | 2,85                     | 2,85                     | 2,90                     |
| 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) | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out)      |                         | m         | 3 - 30 / 20                    | 3 - 30 / 20              | 3 - 30 / 20                   | 3 - 30 / 20              | 3 - 30 / 20              | 3 - 30 / 20              |
| Pipe length for additional gas / Additional gas amount |                         | m / g/m   | 10 / 50                        | 10 / 50                  | 10 / 50                       | 10 / 50                  | 10 / 50                  | 10 / 50                  |
| Operation range  | Outdoor ambient         | °C        | -20 ~ +35                      | -20 ~ +35                | -20 ~ +35                     | -20 ~ +35                | -20 ~ +35                | -20 ~ +35                |
| Water outlet   | Heating / Cooling       | °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         |



**Aquarea HT**  
Bi-Bloc Single Phase / Three Phase. Heating Only - SHF

| Kit  |                         |           | Single Phase (power to indoor) |                          | Three Phase (power to indoor) |                          |
|--|-------------------------|-----------|--------------------------------|--------------------------|-------------------------------|--------------------------|
|  |                         |           | KIT-WHF09F3E5                  | KIT-WHF12F6E5            | KIT-WHF09F3E8                 | KIT-WHF12F9E8            |
| Heating capacity at +7°C (heating water at 35°C)       | kW                      |           | 9,00                           | 12,00                    | 9,00                          | 12,00                    |
| COP at +7°C (heating water at 35°C)                    | W/W                     |           | 4,64                           | 4,46                     | 4,64                          | 4,46                     |
| Heating capacity at +7°C (heating water at 65°C)       | kW                      |           | 9,00                           | 12,00                    | 9,00                          | 12,00                    |
| COP at +7°C (heating water at 65°C)                    | W/W                     |           | 2,27                           | 2,22                     | 2,29                          | 2,22                     |
| Energy Efficiency Class at 35°C / at 55°C              |                         |           | ◀A++ / A++                     | ◀A++ / A++               | ◀A++ / A++                    | ◀A++ / A++               |
| <b>Indoor unit</b>                                     |                         |           | <b>WH-SHF09F3E5</b>            | <b>WH-SHF12F6E5</b>      | <b>WH-SHF09F3E8</b>           | <b>WH-SHF12F9E8</b>      |
| Sound pressure level                                   |                         | dB(A)     | 33                             | 33                       | 33                            | 33                       |
| Dimensions / Weight                                    | H x W x D               | mm / kg   | 892 x 502 x 353 / 46           | 892 x 502 x 353 / 47     | 892 x 502 x 353 / 47          | 892 x 502 x 353 / 48     |
| Pump   | Number of speeds        |           | 7                              | 7                        | 7                             | 7                        |
|  | Input power (Min / Max) | W         | 38 / 100                       | 40 / 106                 | 38 / 100                      | 40 / 106                 |
| Capacity of integrated electric heater                 |                         | kW        | 3                              | 6                        | 3                             | 9                        |
| Recommended Fuse                                       |                         | A         | 30 / 30                        | 30 / 30                  | 30 / 16                       | 30 / 16                  |
| Recommended cable size, supply 1 & 2                   |                         | 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        |
| <b>Outdoor unit</b>                                    |                         |           | <b>WH-UH09FE5</b>              | <b>WH-UH12FE5</b>        | <b>WH-UH09FE8</b>             | <b>WH-UH12FE8</b>        |
| Sound pressure level                                   |                         | dB(A)     | 51                             | 52                       | 51                            | 52                       |
| Sound power level                                      |                         | dB        | 66                             | 67                       | 66                            | 67                       |
| Dimensions / Weight                                    | H x W x D               | mm / kg   | 1.340 x 900 x 320 / 104        | 1.340 x 900 x 320 / 104  | 1.340 x 900 x 320 / 110       | 1.340 x 900 x 320 / 110  |
| Refrigerant (R407C)                                    |                         | kg        | 2,90                           | 2,90                     | 2,90                          | 2,90                     |
| Pipe diameter  | Liquid / Gas            | Inch (mm) | 3/8 (9,52) / 5/8 (15,88)       | 3/8 (9,52) / 5/8 (15,88) | 3/8 (9,52) / 5/8 (15,88)      | 3/8 (9,52) / 5/8 (15,88) |
| Pipe length range / Elevation difference (in/out)      |                         | m         | 3 - 30 / 20                    | 3 - 30 / 20              | 3 - 30 / 20                   | 3 - 30 / 20              |
| Pipe length for additional gas / Additional gas amount |                         | m / g/m   | 10 / 70                        | 10 / 70                  | 10 / 70                       | 10 / 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                  |



**Aquarea G Generation High Performance Mono-Bloc Single Phase. Heating and Cooling - MDC**

| Outdoor unit                                     |                         | Single Phase Heating and Cooling |                          |                          |                          |                           |          |
|--|-------------------------|----------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|----------|
|  |                         | WH-MDC05F3E5                     | WH-MDC06G3E5             | WH-MDC09G3E5             | WH-MDC12G6E5             | WH-MDC16G6E5              |          |
| Heating capacity at +7°C (heating water at 35°C) | kW                      | 5,00                             | 6,00                     | 9,00                     | 12,00                    | 16,00                     |          |
| COP at +7°C (heating water at 35°C)              | W/W                     | 5,08                             | 4,46                     | 4,15                     | 4,74                     | 4,28                      |          |
| Cooling capacity at 35°C (cooling water at 7°C)  | kW                      | 4,50                             | 5,50                     | 7,00                     | 10,00                    | 12,20                     |          |
| EER at 35°C (cooling water at 7°C)               | W/W                     | 3,33                             | 2,74                     | 2,44                     | 2,81                     | 2,56                      |          |
| Energy Efficiency Class at 35°C / at 55°C        |                         | ◀A++ / ◀A++                      | ◀A++ / ◀A++              | ◀A++ / ◀A++              | ◀A++ / ◀A++              | ◀A++ / ◀A++               |          |
| Sound pressure level                             | Heating / Cooling       | dB(A)                            | 49 / 47                  | 49 / 47                  | 51 / 49                  | 52 / 50                   |          |
| Sound power level                                | Heating / Cooling       | dB                               | 65 / 65                  | 65 / 65                  | 69 / 67                  | 69 / 68                   |          |
| Dimensions / Weight                              | H x W x D               | mm / kg                          | 865 x 1.283 x 320 / 107  | 865 x 1.283 x 320 / 112  | 865 x 1.283 x 320 / 112  | 1.410 x 1.283 x 320 / 147 |          |
| Refrigerant (R410A)                              |                         | kg                               | 1,42                     | 1,45                     | 1,45                     | 2,10                      |          |
| Pump   | Number of speeds        |                                  | 7                        | 7                        | 7                        | 7                         |          |
|  | Input power (Min / Max) | W                                | 34 / 96                  | 36 / 100                 | 39 / 108                 | 34 / 110                  | 38 / 120 |
| Capacity of integrated electric heater           |                         | kW                               | 3                        | 3                        | 3                        | 6                         |          |
| Input Power                                      | Heating                 | kW                               | 0,985                    | 1,34                     | 2,17                     | 2,53                      | 3,74     |
|  | Cooling                 | kW                               | 1,35                     | 2,01                     | 2,87                     | 3,56                      | 4,76     |
| Running and Starting current                     | Heating                 | A                                | 4,5                      | 6,1                      | 9,9                      | 11,7                      | 17,3     |
|  | Cooling                 | A                                | 6,1                      | 9,3                      | 13,0                     | 16,5                      | 22,0     |
| Current 1  | A                       | 19,5                             | 20,5                     | 22,9                     | 24,0                     | 26,0                      |          |
| Current 2  | A                       | 13,0                             | 13,0                     | 13,0                     | 26,0                     | 26,0                      |          |
| Recommended Fuse                                 | A                       | 30 / 15                          |                          | 30 / 16                  | 30 / 30                  | 30 / 30                   |          |
| Recommended cable size, supply 1 & 2             | mm <sup>2</sup>         | 3 x 4,0 or 6,0 / 3 x 4,0         | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0  |          |
| Operation range                                  | Outdoor ambient         | °C                               | -20 ~ +35                | -20 ~ +35                | -20 ~ +35                | -20 ~ +35                 |          |
| Water outlet                                     | Heating / Cooling       | °C                               | 20 ~ 55 / 5 ~ 20         | 20 ~ 55 / 5 ~ 20         | 20 ~ 55 / 5 ~ 20         | 25 ~ 55 / 5 ~ 20          |          |

COP classification is at 230V only in accordance with EU directive 2003/32/EC. 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). Performance in agreement with EN14511. Authorized service partner or Authorized installer can enable the cooling mode through a special operation via the remote controller on site.



**Aquarea G Generation T-CAP Mono-Bloc Single Phase / Three Phase. Heating and Cooling - MXC**

| Outdoor unit                                     |                         | Single Phase             |                           | Three Phase               |                           |                           |          |
|--|-------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|----------|
|  |                         | WH-MXC09G3E5             | WH-MXC12G6E5              | WH-MXC09G3E8              | WH-MXC12G9E8              | WH-MXC16G9E8              |          |
| Heating capacity at +7°C (heating water at 35°C) | kW                      | 9,00                     | 12,00                     | 9,00                      | 12,00                     | 16,00                     |          |
| COP at +7°C (heating water at 35°C)              | W/W                     | 4,84                     | 4,74                      | 4,84                      | 4,74                      | 4,28                      |          |
| Cooling capacity at 35°C (cooling water at 7°C)  | kW                      | 7,00                     | 10,00                     | 7,00                      | 10,00                     | 12,20                     |          |
| EER at 35°C (cooling water at 7°C)               | W/W                     | 3,17                     | 2,81                      | 3,17                      | 2,81                      | 2,56                      |          |
| Energy Efficiency Class at 35°C / at 55°C        |                         | ◀A++ / ◀A++              | ◀A++ / ◀A++               | ◀A++ / ◀A++               | ◀A++ / ◀A++               | ◀A++ / ◀A++               |          |
| Sound pressure level                             | Heating / Cooling       | dB(A)                    | 51 / 49                   | 52 / 50                   | 51 / 49                   | 52 / 50                   |          |
| Sound power level                                | Heating / Cooling       | dB                       | 68 / 67                   | 69 / 68                   | 68 / 67                   | 69 / 68                   |          |
| Dimensions / Weight                              | H x W x D               | mm / kg                  | 1.410 x 1.283 x 320 / 148 | 1.410 x 1.283 x 320 / 148 | 1.410 x 1.283 x 320 / 155 | 1.410 x 1.283 x 320 / 155 |          |
| Refrigerant (R410A)                              |                         | kg                       | 2,30                      | 2,30                      | 2,30                      | 2,30                      |          |
| Pump   | Number of speeds        |                          | 7                         | 7                         | 7                         | 7                         |          |
|  | Input power (Min / Max) | W                        | 32 / 102                  | 34 / 110                  | 32 / 102                  | 34 / 110                  | 38 / 120 |
| Capacity of integrated electric heater           |                         | kW                       | 3                         | 6                         | 3                         | 9                         |          |
| Input Power                                      | Heating                 | kW                       | 1,86                      | 2,53                      | 1,86                      | 2,53                      | 3,74     |
|  | Cooling                 | kW                       | 2,21                      | 3,56                      | 2,21                      | 3,56                      | 4,76     |
| Running and Starting current                     | Heating                 | A                        | 8,6                       | 11,7                      | 2,8                       | 3,8                       | 5,7      |
|  | Cooling                 | A                        | 10,2                      | 16,5                      | 3,4                       | 5,3                       | 7,2      |
| Current 1  | A                       | 25,0                     | 29,0                      | 14,7                      | 11,9                      | 15,5                      |          |
| Current 2  | A                       | 13,0                     | 26,0                      | 13,0                      | 13,0                      | 13,0                      |          |
| Recommended Fuse                                 | A                       | 30 / 30                  | 30 / 30                   | 16 / 16                   | 16 / 16                   | 16 / 16                   |          |
| Recommended cable size, supply 1 & 2             | mm <sup>2</sup>         | 3 x 4,0 or 6,0 / 3 x 4,0 | 3 x 4,0 or 6,0 / 3 x 4,0  | 5 x 1,5 / 3 x 1,5         | 5 x 1,5 / 5 x 1,5         | 5 x 1,5 / 5 x 1,5         |          |
| Operation range                                  | Outdoor ambient         | °C                       | -20 ~ +35                 | -20 ~ +35                 | -20 ~ +35                 | -20 ~ +35                 |          |
| Water outlet                                     | Heating / Cooling       | °C                       | 25 ~ 55 / 5 ~ 20          | 25 ~ 55 / 5 ~ 20          | 25 ~ 55 / 5 ~ 20          | 25 ~ 55 / 5 ~ 20          |          |

COP classification is at 230V only in accordance with EU directive 2003/32/EC. 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). Performance in agreement with EN14511.



**Aquarea G Generation HT Mono-Bloc Single Phase / Three Phase. Heating Only - MHF**

| Outdoor unit                                     |                         | Single Phase    |                          | Three Phase              |                     |
|--|-------------------------|-----------------|--------------------------|--------------------------|---------------------|
|  |                         | WH-MHF09G3E5    | WH-MHF12G6E5             | WH-MHF09G3E8             | WH-MHF12G9E8        |
| Heating capacity at +7°C (heating water at 35°C) | kW                      | 9,00            | 12,00                    | 9,00                     | 12,00               |
| COP at +7°C (heating water at 35°C)              | W/W                     | 4,64            | 4,46                     | 4,64                     | 4,46                |
| Heating capacity at +7°C (heating water at 65°C) | kW                      | 9,00            | 12,00                    | 9,00                     | 12,00               |
| COP at +7°C (heating water at 65°C)              | W/W                     | 2,27            | 2,22                     | 2,29                     | 2,22                |
| Energy Efficiency Class at 35°C / at 55°C        |                         | ◀A++ / ◀A++     | ◀A++ / ◀A++              | ◀A++ / ◀A++              | ◀A++ / ◀A++         |
| Sound pressure level                             |                         | dB(A)           | 51                       | 52                       | 51                  |
| Sound power level                                |                         | dB              | 68                       | 69                       | 68                  |
| Dimensions                                       | H x W x D               | mm              | 1.410 x 1.283 x 320      | 1.410 x 1.283 x 320      | 1.410 x 1.283 x 320 |
| Weight   |                         | kg              | 151                      | 151                      | 162                 |
| Refrigerant (R407C)                              |                         | kg              | 1,92                     | 1,92                     | 2,22                |
| Pump   | Number of speeds        |                 | 7                        | 7                        | 7                   |
|  | Input power (Min / Max) | W               | —                        | —                        | —                   |
| Capacity of integrated electric heater           |                         | kW              | 3                        | 6                        | 3                   |
| Input Power                                      |                         | kW              | 1,94                     | 2,69                     | 1,94                |
| Running and Starting current                     |                         | A               | 9,3                      | 12,8                     | 3,0                 |
| Current 1  |                         | A               | 28,5                     | 29,0                     | 14,5                |
| Current 2  |                         | A               | 13,0                     | 26,0                     | 13,0                |
| Recommended Fuse                                 |                         | A               | 30 / 30                  | 30 / 30                  | 16 / 16             |
| Recommended cable size, supply 1 & 2             |                         | mm <sup>2</sup> | 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   |
| Operation range                                  | Outdoor ambient         | °C              | -20 ~ +35                | -20 ~ +35                | -20 ~ +35           |
| Water outlet                                     |                         | °C              | 25 ~ 65                  | 25 ~ 65                  | 25 ~ 65             |

COP classification is at 230V only in accordance with EU directive 2003/32/EC. 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). Performance in agreement with EN14511.





Aquarea DHW

| Model Reference  | Floor standing at -7°C* |                   |                   | Wall mounted      |                      |                      |
|--|-------------------------|-------------------|-------------------|-------------------|----------------------|----------------------|
|  | PAW-DHWM200A            | PAW-DHWM300A      | PAW-DHWM300AE     | PAW-DHWM80ZNT     | PAW-DHWM100ZNT       | PAW-DHWM120ZNT       |
| Voltage / Frequency  | V / Hz                  | 230 / 50          | 230 / 50          | 230 / 50          | 230 / 50             | 230 / 50             |
| Volume   | L                       | 208               | 295               | 276               | 80                   | 120                  |
| Nominal electrical power                                     | W                       | 490               | 490               | 490               | 250                  | 250                  |
| Energy consumption by chosen cycle A7 / W10-55 <sup>1</sup>  | kWh                     | 4,05              | 5,77              | 5,96              | 2,45                 | 2,35                 |
| Energy consumption by chosen cycle A15 / W10-55 <sup>2</sup> | kWh                     | 3,95              | 5,65              | 5,75              | 2,04                 | 2,05                 |
| COP DHW (A7 / W10-55) EN 16147 <sup>1</sup>                  |                         | 3,00              | 3,33              | 3,30              | 2,65                 | 2,63                 |
| COP DHW (A15 / W10-55) EN 16147 <sup>2</sup>                 |                         | 3,07              | 3,39              | 3,38              | 3,10                 | 3,10                 |
| Energy Efficiency Class                                      |                         | A                 | A                 | A                 | A                    | A                    |
| Standby power input according to EN16147                     | W                       | 28                | 18                | 20                | 19                   | 20                   |
| Sound power / Sound Pressure on 1m                           | dB / dB(A)              | - / 58            | - / 58            | - / 58            | 51,0 / 39,5          | 51,0 / 39,5          |
| Refrigerant  |                         | R134a             | R134a             | R134a             | R134a                | R134a                |
| Quantity of refrigerant                                      | g                       | 1.100             | 1.100             | 1.100             | 540                  | 540                  |
| Operating range - air temperature                            | °C                      | -7 / +35          | -7 / +35          | -7 / +35          | -7 / +35             | -7 / +35             |
| Height / with air ducts                                      | mm                      | 1.540 x 670 x 690 | 1.960 x 670 x 690 | 1.960 x 670 x 690 | 1.197 x 506 x 533    | 1.342 x 506 x 533    |
| Connections to the water supply network                      |                         | G1                | G1                | G1                | G 1/2                | G 1/2                |
| Maximum power consumption without heater / with heater       | W                       | 490 / 2.490       | 490 / 2.490       | 490 / 2.490       | - / 2.350            | - / 2.350            |
| Number of electrical heaters x power                         | W                       | 2 x 1.000         | 2 x 1.000         | 2 x 1.000         | 2 x 1.000            | 2 x 1.000            |
| 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)             |
| Heating with heat pump Min / Max                             | °C                      | 55 / 65           | 55 / 65           | 55 / 65           | 55 / -               | 55 / -               |
| Heating with electrical heater                               | °C                      | 75                | 75                | 75                | 75                   | 75                   |
| Dimensions of air ducts                                      | mm / m                  | Ø160 / -          | Ø160 / -          | Ø160 / -          | 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             |

<sup>1</sup> 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. <sup>2</sup> 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. <sup>3</sup> Normal fan speed 60%, higher fan speed - special setting on 80%.  
\* When connected as pressurised, use of safety valve is mandatory.



Aquarea Air Radiators

|                          |                   | PAW-AAIR-200    |           |      |      |           | PAW-AAIR-700    |           |       |           |       | PAW-AAIR-900      |           |       |       |       |
|--------------------------|-------------------|-----------------|-----------|------|------|-----------|-----------------|-----------|-------|-----------|-------|-------------------|-----------|-------|-------|-------|
|                          |                   | Super Min       | Min       | Med  | Max  | Super Min | Min             | Med       | Max   | Super Min | Min   | Med               | Max       |       |       |       |
| Total heating capacity   | W                 | 138             | 160       | 217  | 470  | 570       | 223             | 360       | 708   | 1.032     | 1.188 | 273               | 475       | 886   | 1.420 | 1.703 |
| 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   |
|                          | m <sup>3</sup> /h | 28              | 37        | 55   | 113  | 162       | 44              | 84        | 155   | 252       | 320   | 54                | 110       | 248   | 367   | 461   |
| 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   |
|                          |                   | 2               | 5         | 7    | 9    | 13        | 3               | 9         | 14    | 18        | 22    | 3                 | 11        | 16    | 20    | 24    |
| Maximum input power      | W                 |                 |           |      |      |           |                 |           |       |           |       |                   |           |       |       |       |
| Sound pressure level     | 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  |
| Dimensions (H x W x D)   | mm                | 579 x 735 x 129 |           |      |      |           | 579 x 935 x 129 |           |       |           |       | 579 x 1.135 x 129 |           |       |       |       |
| Weight                   | kg                | 17              |           |      |      |           | 20              |           |       |           |       | 23                |           |       |       |       |
| 3 ways valve included    |                   | Yes             |           |      |      |           | Yes             |           |       |           |       | Yes               |           |       |       |       |
| Touch screen thermostat  |                   | Yes             |           |      |      |           | Yes             |           |       |           |       | Yes               |           |       |       |       |



Tanks

| Model                                  |                | Stainless Steel Tank |                 | Enamelled Tank  |                 |                 | Enamelled high efficiency Tank |                | Enamelled 2 coils Tank (for bivalent Solar + HP) |
|--|----------------|----------------------|-----------------|-----------------|-----------------|-----------------|--------------------------------|----------------|--|
|  |                | WH-TD20E3E5          | WH-TD30E3E5-1   | PAW-TG20C1E3STD | PAW-TG30C1E3STD | PAW-TG40C1E3STD | PAW-TG20C1E3HI                 | PAW-TG30C1E3HI |  |
| Water volume                           | L              | 200                  | 300             | 185             | 285             | 396             | 190                            | 284            | 284  |
| Maximum water temperature              | °C             | 75                   | 75              | 95              | 95              | 95              | 95                             | 95             | 95   |
| Dimensions   Height / Diameter         | mm             | 1.150 / 580          | 1.600 / 580     | 1.507 / 580     | 1.565 / 680     | 1.888 / 760     | 1.648 / 680                    | 1.417 / 760    | 1.417 / 760                                      |
| Weight / filled with water             | kg             | 49 / -               | 65 / -          | 97 / 282        | 140 / 425       | 171 / 567       | 115 / 305                      | 128 / 412      | 134 / 418  |
| Electric heater                        | kW             | 3                    | 3               | 3               | 3               | 3               | 3                              | 3              | 3  |
| Power supply                           | V              | 230                  | 230             | 230             | 230             | 230             | 230                            | 230            | 230  |
| Material inside tank                   |                | Stainless steel      | Stainless steel | Enamelled       | Enamelled       | Enamelled       | Enamelled                      | Enamelled      | Enamelled  |
| Exchange surface                       | m <sup>2</sup> | 1,4                  | 1,8             | 2,0             | 2,5             | 6,1             | 2,3                            | 3,4            | 2,4 (for HP) +1,0 (for solar or boiler)          |
| Energy loss at 65°C <sup>1</sup>       | kWh/24h        | 1,9                  | 2,3             | 1,6             | 2,1             | 1,7             | 1,4                            | 1,6            | 1,6  |
| 3 Way valve included                   |                | Yes                  | Yes             | Yes             | Yes             | Yes             | Yes                            | Yes            | Yes  |
| 20 m temperature sensor cable included |                | Yes                  | Yes             | Yes             | Yes             | Yes             | Yes                            | Yes            | Yes  |
| Heat up time                           | Valuation      | ★★★★                 | ★★★★            | ★★★★            | ★★★★            | ★★★★            | ★★★★                           | ★★★★           | ★★★★   |
| Energy losses                          | Valuation      | ★★★★                 | ★★★★            | ★★★★            | ★★★★            | ★★★★            | ★★★★                           | ★★★★           | ★★★★   |
| Energy Efficiency Class                |                | C                    | C               | C               | C               | B               | B                              | B              | B  |
| Warranty                               |                | 10 years             | 10 years        | 2 years         | 2 years         | 2 years         | 2 years                        | 2 years        | 2 years  |
| Maintenance required                   |                | No                   | No              | Yearly          | Yearly          | Yearly          | Yearly                         | Yearly         | Yearly   |

<sup>1</sup> Insulated tested under EN12897. Includes proportional 3-way valve and control thermostat.

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heating & cooling solutions



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

