



**ARISTON**  
The home of sustainable comfort



# Heat pumps catalogue

HOT WATER

HEATING

RENEWABLE





# The home of **sustainable comfort**

As a **leading specialist** in heating and water-heating with over 90 years of history, Ariston understands well the challenges in creating practical and high-performance products and systems that guarantee exceptional levels of comfort and efficiency. That is why it has set itself a new mission – **to give more homes access to sustainable comfort solutions** using less energy and effort.

To this end, it has further strengthened its commitment to delivering **high-quality, renewable and energy-efficient solutions** that can simplify and improve the quality of home life while empowering people to live more sustainably.

By successfully combining its global reach with an in-depth focus on the needs of the different markets where it has a presence, Ariston prides itself in being the home of sustainable comfort: a reference brand trusted worldwide by millions of families and industry professionals longing for advanced thermal comfort solutions that **not only are easy to use and maintain but also use as little energy as possible**.

# Our story, driven by your needs

Ariston's continuous growth has been fueled by its commitment to provide people with reliable and highly-efficient comfort solutions to improve and enjoy life at home.

Each step of the way we have been driven by the existing and emerging needs of our customers, and our solutions have been conceived with their lifestyle in mind.



**'30s**

**Foundation**

Aristide Merloni founds "Industrie Merloni" company in the Marche Region of Italy, and starts the production of weighing scales.

**'80s**

**Heating**

We consolidate our market leadership in water heating and the production of boilers begins.



**'60s**

**Water heating**

The Ariston brand is launched and the production of electric water heaters begins.



## ► '90s

### **Global** expansion

With the launch in China and Russia, we begin to evolve into a global brand.



## ► '10s

### **Ariston** Comfort Challenge

With this mission, Ariston proved the ability of its products to guarantee exceptional performance, durability and efficiency's levels in every condition, even where it seems impossible. It was a huge challenge, but it was just the beginning.

## ► '00s

### **Renewable** technologies

We successfully develop and launch our new model in heat pump, which marks our development into innovative and sustainable heating technology.



## ► '20s

### **The home of** sustainable comfort

We strengthen our commitment to providing our end-users with products that generate heating and hot water in the most efficient and renewable way possible. A tangible sign of our dedication to respecting everything that surrounds us.

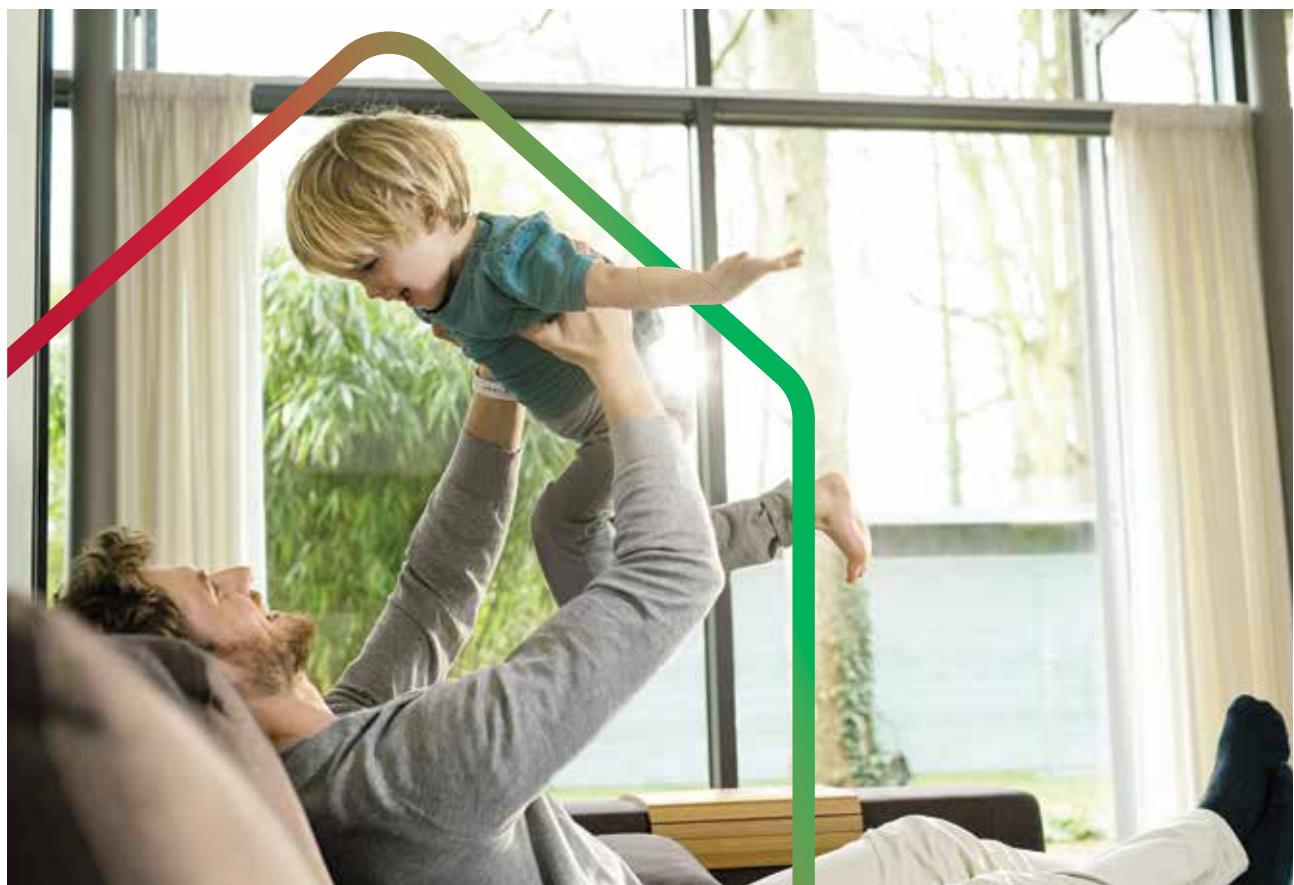


# Why choose Ariston?

## We are a global **thermal comfort specialist**

Standing out as **global leader in heating and water-heating with more than 90 years of expertise**, Ariston boasts an extensive product and service portfolio equally focused on the provision of renewable and high-efficiency heating and hot water solutions. With its

proven ability to meet the local needs of every country where it has a presence, our company is **trusted and welcomed by millions of families around the world**, while also being the **preferred choice for thousands of professionals**.



# We are masters of renewable and high-efficiency solutions

Sustainable comfort lies at the heart of our company and our commitment is to provide our customers with products and systems that **generate heating and hot water in the most efficient and renewable way possible**, whatever their energy source. Choosing Ariston means gaining access to a broad and comprehensive range of high-performance and easy-to-use solutions that not only will play a significant role in the reduction of energy bills, but also represent the perfect upgrade for a more sustainable home thanks to **smart connectivity and the latest technologies** being developed for environmentally-friendly heating and water heating.



Wide offer in last generation **heat pumps for heating and hot water and solar**

## 2.5%

of revenues invested annually in R&D with growing focus on renewable products\*

Efficient

## hybrid systems

tailored for every need

## 79%

of turnover from innovative products (younger than 5 years)\*

### Commitment to frontier R&D

(Hydrogen, gas absorption heat pump, demand-response, natural refrigerants)

### Connectivity in all Heating and Water Heating segments

\*The data refer to Ariston group, worldwide portfolio of solutions.

## We are dedicated to enduring quality

Our products and solutions are made to last, so are of the highest quality. We achieve this by using the best components and materials available and through rigorous checks taking place before, during and after production. For maximum serenity, **every product we sell comes with a solid warranty**. But not only that; anyone purchasing one of our products can be reassured there will always be a point of contact available to deal with anything. **High standards of quality apply to all our processes and functions:** our facilities are involved in a continuous performance and quality monitoring process, constantly improving every aspect of manufacture, plant maintenance and distribution logistics.



**100%**  
checked and tested  
products

**>95%**  
of our products require  
no technical interventions  
in their first 5 years of service\*

High-quality  
**after-sales  
service**  
always available

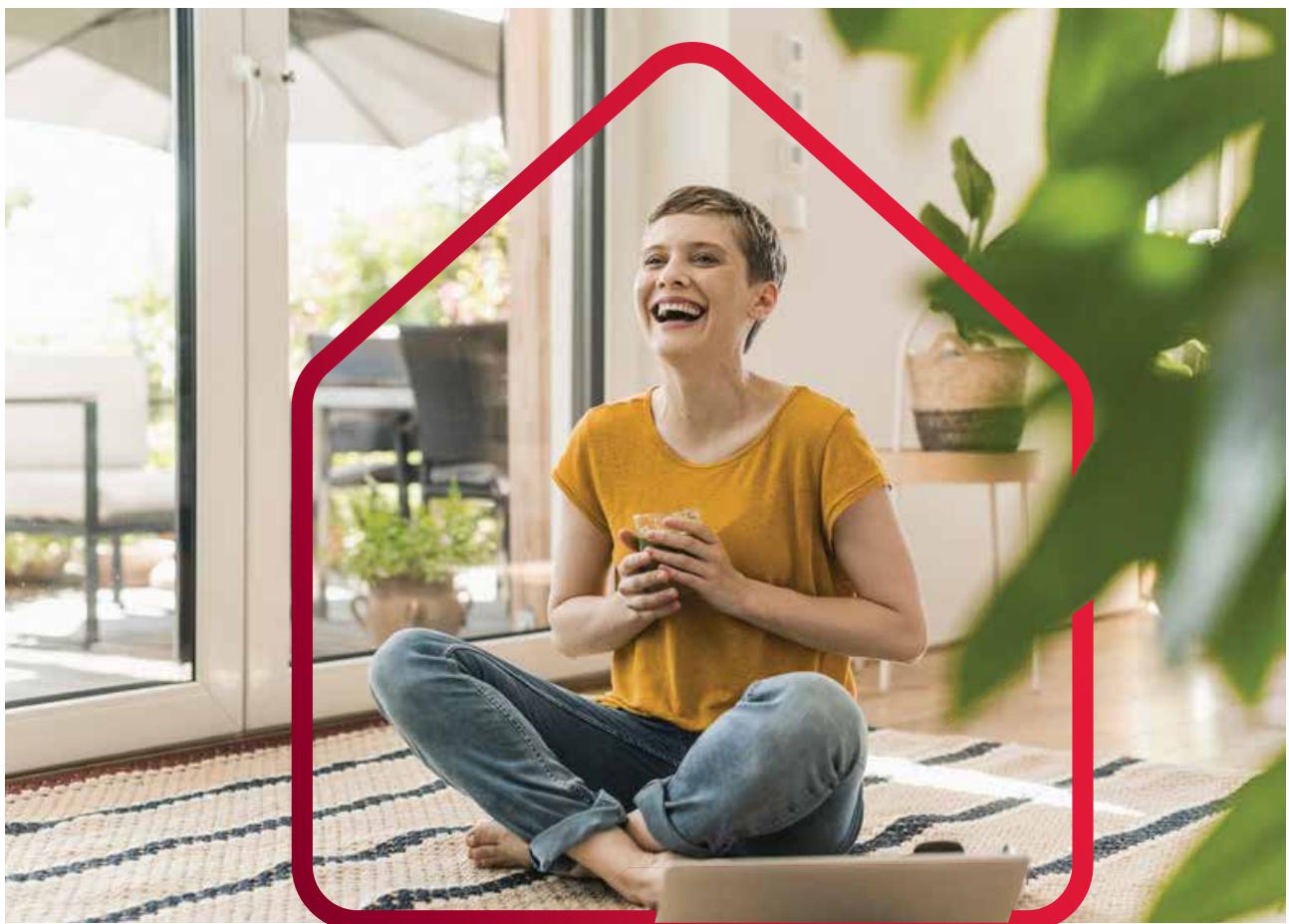
Effective  
**warranty**  
guarantees

\*The data refer to Ariston group, worldwide portfolio of solutions.

# We are champions of **home and planet**

Italian in origin, since its founding in 1930 Ariston has been synonymous with innovation and sustainability and has been **driven by the mission to make every home a haven of comfort** – while maintaining a strong focus on the environment. As a leading global brand, we now feel at home

in almost every part of the world. And because we see **the world as the home we all share**, we develop products and solutions that represent an accessible and effective way for anyone to improve and enjoy life at home while making more responsible and energy-conscious choices.



# Believe in sustainability

Our purpose is to provide **everyone, in every corner of the world, with high-quality heating and water heating solutions, while protecting the environment.**

To this end, we have placed energy efficiency and technologies using energy from renewable sources at the centre of our sustainable growth strategy, thus acting consistently with the sustainable

development goals endorsed by the General Assembly of the United Nations.

This commitment is reflected in the effort we invest in developing efficient and sustainable products, solutions and processes that can make a decisive contribution to reducing energy consumption and environmental impact without sacrificing comfort.



# SUSTAINABLE DEVELOPMENT GOALS



The economic, social and environmental impacts generated through Ariston Thermo Group's operations contribute towards 9 of the 17 sustainable development goals, including:

## **Sustainable cities and communities**

Ariston Thermo Group's commitment to energy-efficient solutions will enable citizens to use clean energy to its fullest potential. Replacing low-efficiency products with Ariston's new high-efficiency technologies will allow to curb carbon dioxide emissions by more than 3,4 Mln tons by 2022\*.

## **Responsible consumption and production**

All of our production plants around the world are at the centre of Ariston Thermo Group's energy efficiency plan. This consists in a long-term strategy that in 2019 allowed the Group to achieve a remarkable result: over 10,000 tons of CO<sub>2</sub> equivalent avoided thanks to the energy efficiency of the production processes.

## **Climate action**

During 2019 the Ariston Comfort Zone, a modular house equipped with Ariston's most advanced and efficient technology, enabled a group of researchers from the University of Copenhagen tasked with studying how climate change is affecting the Arctic ecosystem to conduct 22 new studies.

**Connected services**

## **Enjoy seamless connectivity**

Ariston's product range includes a variety of Wi-Fi enabled solutions dedicated to comfort.

Designed to deliver always-on connectivity, our hot water and heating systems can be controlled remotely using a smartphone or through all main smart home platforms\*.

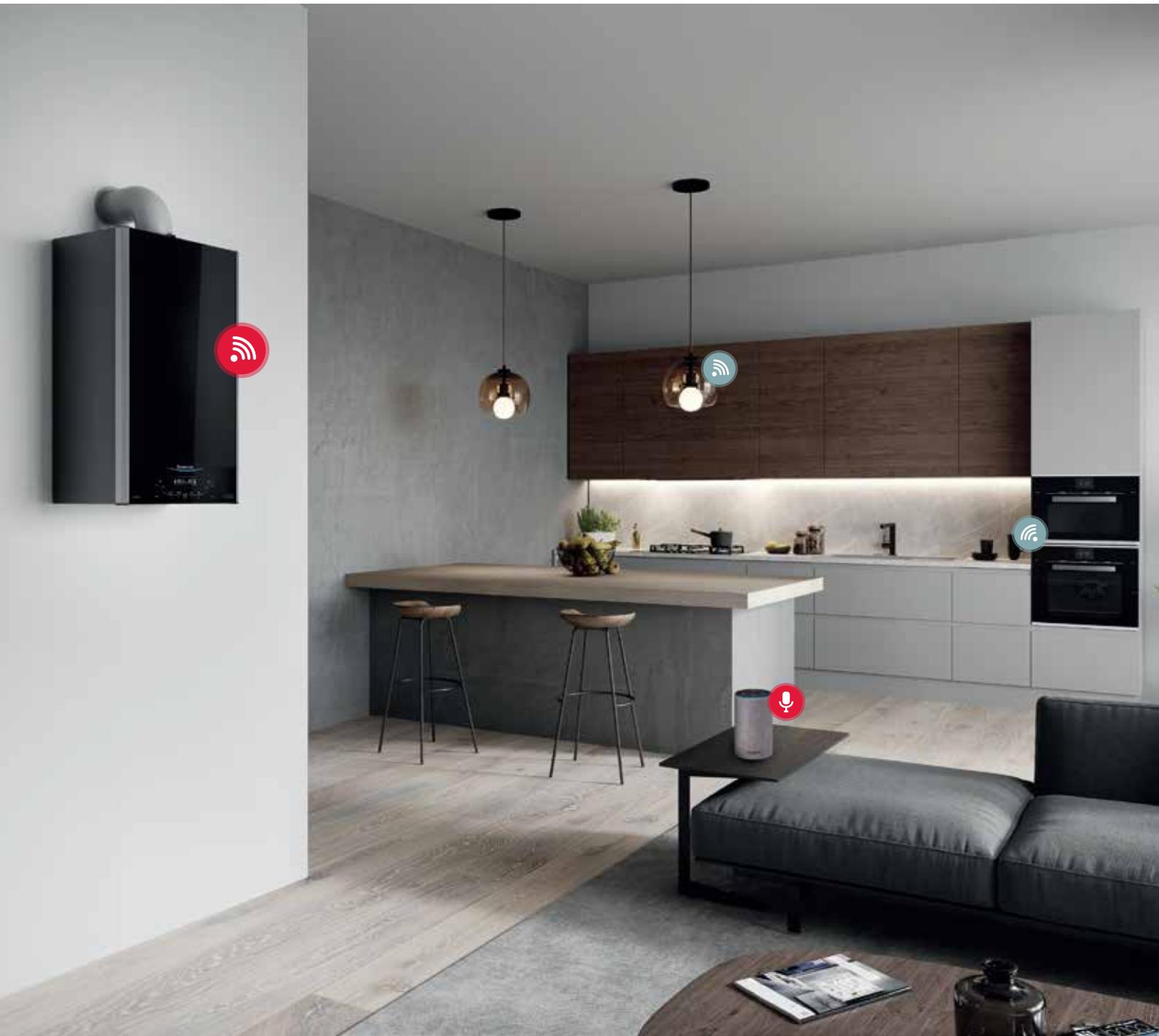
### **The key to your smart home**

Ariston products, together with other home appliances, will help you bring your smart home project to life. The advantages of having a connected home are many, and there will be many more in the years to come. Look for the products compatible with Ariston NET & Aqua Ariston NET to benefit from all of them, both now and in the future. Regardless of your lifestyle, managing your personal comfort has never been more natural.

/ Ariston NET App for connected heating products

/ Aqua Ariston NET App for connected water heaters

\*Voice control & Apple/Amazon/Google integration are available for selected heating products.  
Refer to product pages for the details on the compatibility.





## Aqua Ariston NET

# Give yourself a warm welcome home



AQUA ARISTON NET

Management and control of your water heating system have never been easier and more comfortable. Aqua Ariston NET App connects you with your water heater wherever you are, thus ensuring always-on comfort, up to 25%\* energy savings and total peace of mind. Hot water is always available whenever you want, to let you enjoy a relaxing shower after a long day outside.

### With Aqua Ariston NET, the possibilities are endless:

- / Set and manage your water temperature.
- / Receive a real time notification when your shower is ready.
- / Schedule weekly shower needs for all your family.
- / Change working mode (ECO, I-memory, etc.).
- / Monitor your consumption pattern to save up to 25% on energy bills every year.
- / Check out energy-saving tips for a more responsible and eco-friendly use of your water heater.
- / In case of system failure, get alerts providing an error description of the problem to facilitate technical assistance.

\* Estimated saving up to 25% on daily basis, compared to Ariston standard mechanical products.



## Pre-Sales and After-Sales technical support

# Our services

We are always at your side In all phases of the realization of a project.

From the design of a plant, to the construction of the system itself and even after commissioning, a team of Ariston specialists is constantly available to provide support and assistance.

### Pre-Sales

A team of technicians and engineers offer their support and their experience in the design of key-on-hand solutions, providing them with products, designs and maintenance services.

### Technical Consultancy Center

The Technical Consultancy Center provides every day specialist consultancy and timely responses on the technical characteristics of installations.

The technical team is the right interlocutor with whom interface for design and maintenance of complex plants.

### After-Sales

Our qualified Service Network provides technical support for startup, maintenance, troubleshooting and repair interventions, by remote and on field as well.

Our mission is to deliver high level of service, through solid know-how and quality of genuine spare parts, in order to ensure the Ariston products performance, long term reliability and make them exceed the Customer expectations.

ERP

# Are you up-to-date with the new regulations?



Since 26 September 2015, the new European Union regulations define minimum efficiency and energy labelling requirements for boilers, heat pumps, micro-cogeneration, water heaters and hot water tanks.

On 26 September 2018 have been introduced new limits of NOx emissions, in addition to the efficiency limits already in force. The NOx limits have been applied to products placed on the market starting from 26 September 2018. Products purchased before that date and already in retail outlets or distribution warehouses can continue to be sold and installed, even though they do not comply with the new requirements.

**26.09.2015**



A++ (space heating) / A (water heating)



Compulsory labelling on space heating and water heating products (energy class)

**2017**



A+  
introduced for domestic hot water production

**26.09.2018**



New limits for NOx emissions < 56 mg/kWh (for gas fuels)

**26.09.2019**

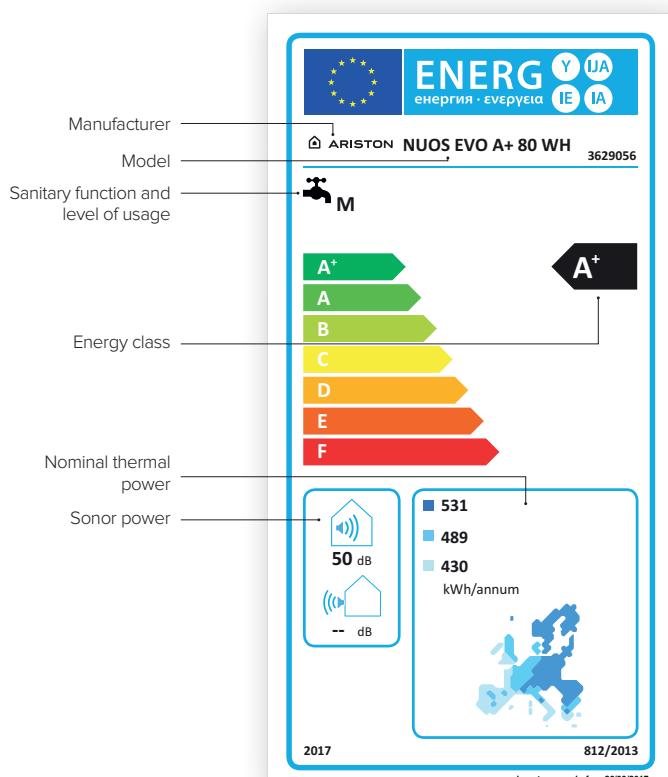


A+++  
introduced for space heating



Minimum performance requirements for space heating and domestic hot water production

**DISCOVER THE LOW NO<sub>x</sub>- EMISSION RANGE INSIDE THE CATALOGUE**



Energy label of a boiler

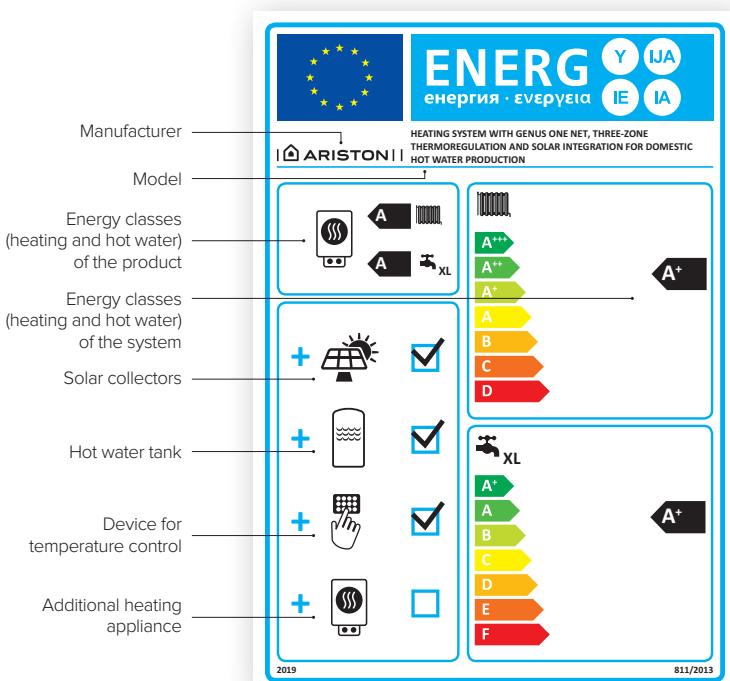
## Product label

There are different labels, depending on the type of product and service guaranteed.

The efficiency classes A, A+ and A++ indicate the products with higher performance.

**There are two different classifications for the heating and water production services; for products which can provide both services, labels must show both the classifications.**

In addition to the energy class, the labels display information to help consumers choosing the most efficient products with less environmental impact (power consumption in different weather areas noise, etc...).



Energy label of a combi boiler

## System label

All devices for which it is proposed (or expected) a combination with predefined devices, must have a second label, in addition to the product label and technical documentation, advertising and promotional materials showing its performance.

Who sells these systems will be responsible for defining the achieved performance (through an automatic algorithm) and inform his client.

# In this catalogue



## Heat pump water heaters

- 36 / Nuos Evo A+ Wh
- 38 / Nuos Plus Wi-Fi
- 40 / Nuos Plus S2 Wifi WH
- 42 / Nuos Primo
- 44 / Nuos Primo HC
- 48 / Nuos Split WH
- 50 / Nuos Split Inverter Wi-Fi WH
- 52 / Nuos Split Inverter Wi-Fi FS
- 56 / Nuos Range Accessories



## Commercial Heat pump water heaters

- 66 / AR-6PM HX MT  
AR-10PM HX MT
- 68 / AR-20PTP HX MT  
AR-40PTP HX MT
- 70 / AR-20STP HX MT  
AR-50STP HX MT
- 72 / AR-6SM HX MT  
AR-8SM HX MT  
AR-12SM HX MT
- 74 / AR-40WTP HX  
AR-80W TP HX  
AR-160WTP HX

Equivalent Capacity value mentioned in this catalogue identifies a product category.  
Storage volume is specified in technical documents included in the product.



Ariston's integrated renewable systems are designed to meet any hot water demand, while ensuring low energy consumption by absorbing the heat from outside air. With their cost-effective and environmentally-friendly operation, they represent the perfect upgrade for a more sustainable home.

► Nuos range

Equivalent Capacity value mentioned in this catalogue identifies a product category. Storage volume is specified in technical documents included in the product.

## Nuos range

Fully customizable for saving energy up to 80%\*



NUOS EVO A+



NUOS PLUS Wi-Fi



NUOS PRIMO



NUOS PRIMO HC

## Maximum efficiency for domestic water heating

Ariston has chosen to privilege innovation with high-efficiency products that ensure savings on the energy bill.

The Ariston research activities have yielded the NUOS range of heat pump water heaters: effective products capable of guaranteeing hot water for any need, they minimise electricity consumption as they absorb heat directly from the outside air.

\* Compared to traditional electric storage water heaters



**NUOS SPLIT INVERTER Wi-Fi WH**

**NUOS SPLIT INVERTER Wi-Fi FS**

**NUOS SPLIT**

## Renewable as an opportunity

The extensive range of NUOS products adapt to any need to constantly guarantee the lowest energy consumption.

The various models available can be installed in place of conventional electric water heaters, to integrate existing generators and on new buildings in combination with photovoltaic or solar heating systems.



Thanks to the **Aqua Ariston NET** app, the **Nuos Split Inverter Wi-Fi** and **Nuos Plus Wi-Fi** products are connected to guarantee the utmost level of comfort and serenity for your customers:

- / Remote control of the product to programme the temperature and usage times
- / Energy consumption monitoring

# **Heat pump Technology**

# **Unparalleled energy efficiency**

# **comes from the air**

The renewable heat pump technology used by Nuos **converts heat from the air into energy for domestic hot water**, guaranteeing up to 80% energy saving\*(A)(B) compared to traditional electric storage water heaters.

The modulating power provided by **the Inverter Technology (B)** and **the electronic expansion valve installed in the refrigerant circuit allow to reach a temperature of up to 62°C** with the most efficient COP in the market, with short heating-up time and low noise. For added efficiency, Nuos can be conveniently coupled with other heat generators (solar or boiler) (A) and photovoltaic panels(A)(B). Moreover, all top models boast energy class A+.



\*Compared to traditional electric  
(A) Only Nuos Plus Wi-Fi  
(B) Only Nuos Split Inverter Wi-Fi



**Different Working modes**

## **Choose your best comfort**

The product has different **working modes and advanced programmes** to give you total control of your tailor-made comfort. Available on all top-of-the-range models, the Silent mode ensures quiet operation at all times. For extra comfort, Nuos Plus boasts the shortest water heating time in the category\*.

\* According to EN 16147 regulation

**Exclusive technologies**

# **Unrivalled performance and lifetime reliability**

The long lifespan and durable performance of the Nuos range are ensured by the exclusive Ariston technologies. **The enamelled or steatite heating elements offer thorough protection against the build-up of limescale, whereas the active anode optimally prevents tank corrosion.** The dedicated sanitary hot water compressor and the hydrophilic coated evaporator enable the product to withstand extreme temperatures.

As evidence of the long-lasting quality of each model, the tank is coupled with a 5-year warranty and the components have a 2-year warranty.

**Top quality tested**

# **Built for your utmost comfort**

Every detail of Nuos water heaters is **strictly tested at each stage of the production line**.

Raw materials, components, enamelling, water and refrigerant leakages, electrical security system and functionality are thoroughly checked to ensure top quality, efficiency and energy saving. Field testing in real domestic environments around the world has been conducted to assess the quality, efficiency and performance of the entire range.



(A) Only Nuos Plus Wi-Fi  
(B) Only Nuos Split Inverter Wi-Fi



**Smart** connectivity

**Control Nuos from  
anywhere**





**Italian** design

**Unique combination  
of technology  
and style**

## Flexible installation

# Customized solutions for all needs

Mono-block or split type, all Nuos models come with specific accessories for all types of installation requirements and can easily fit into spaces where traditional water heaters can't.

For split installation, the internal and external units can be installed 20 meters far for each other and with a 10-meter height difference.

## Hi-tech display

# More than user-friendly

The high definition LCD segment display available on all Nuos models allows to easily set and control your water heater.

The LCD screen with touch controls provides more intuitive interaction and easier water temperature management. (A)(B)



LCD display with full text  
and intuitive menu

(A) Only Nuos Plus Wi-Fi  
(B) Only Nuos Split Inverter Wi-Fi

# Nuos range:

## Comparing technologies

The **Monobloc** heat pump water heaters have the refrigerant gas circuit hermetically sealed inside them. They can be installed by merely creating air ducts besides the plumbing connections.

### Nuos Plus Wi-Fi

#### Technological excellence

- / **Air filter:** slows down clogging of the heat exchange coil and can be removed from above, for easier maintenance
- / **Air circuit:** patented architecture to reduce noise and heat dispersal
- / **Photovoltaic:** can be integrated with a photovoltaic system to exploit entirely renewable energy



**3h41min\***

THE LOWEST HEATING  
TIME ON THE MARKET\*



**80%**

ENERGY SAVING COMPARED  
TO A CONVENTIONAL  
ELECTRIC WATER HEATER  
WITH THE SAME CAPACITY



**3,62**  
COP\*\*



**1** / Fan

**2** / PCB & HMI

**3** / Evaporator

**4** / Compressor

**5** / Primary coil

**6** / Secondary coil

**7** / Wrapped condenser

**8** / Electrical kit

\* Data refers to Nuos Plus Wi-Fi 200 with 14°C air T (EN16147)

\*\* Data refers to Nuos Plus Wi-Fi 250 with 14°C air T (EN16147)

**Split** heat pump water heaters consist of an outdoor unit where the thermodynamic cycle takes place and an indoor unit in which the refrigerant gas/domestic hot water heat exchange takes place. They ensure the utmost installation flexibility, low bulk and silent operation.

## Nuos Split Inverter Wi-Fi

### Maximum distance between outdoor and indoor unit

/ **Photovoltaic**: can be integrated with a photovoltaic system to exploit entirely renewable energy

/ **DC inverter technology**: the outdoor unit is equipped with DC Inverter technology: the water temperature is kept constant by reducing the ON/OFF cycles.



1 / Fan

2 / Display touch

3 / Evaporator

4 / Compressor Inverter DC

5 / Wrapped condenser

6 / Electrical kit

\*\*\* Data refers to NUOS SPLIT INVERTER Wi-Fi 270 with 14°C air T (EN 16147)

# Heat pump technology

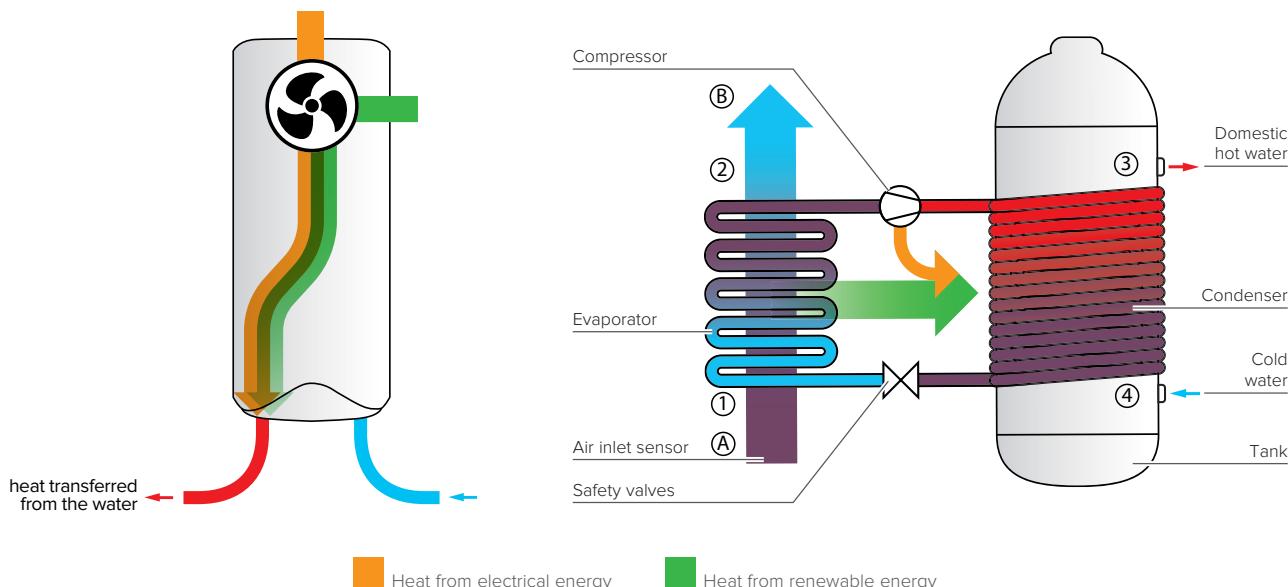
Nuos range uses a **thermodynamic cycle** to heat the water inside the storage tank through the air sucked by the thermal group inverting the heat natural flow. A refrigerant fluid (R134A), through status changes, compression and expansion cycles, withdraws the heat in the air at low temperature and gives it to domestic water at a higher temperature.

This is the reverse mechanism to the one used in refrigerators. The product electric consumption is only the one necessary to let the fan (that captures the air) and the compressor (that allows the refrigerant fluid to circulate in the system) work.

## Nuos energy Formula

$$100 = 25 + 75$$

HOT WATER      ELECTRICAL ENERGY      AIR HEAT



## Thermodynamic cycle

**A-B** / External air is aspirated inside the heat pump thanks to a fan; when passing through the fins of the evaporator, the air gives its heat and lose 10°C approx. Finally it is expelled.

**1-2** / The refrigerant fluid goes through the evaporator and absorbs the heat given by the air. During this process it changes its physical status and evaporate, keeping temperature and pressure almost constant.(0°C ; 5 bar).

**2-3** / The refrigerant fluid crosses the compressor and experiences a pressure rising which involves an increase of temperature. At the end of the process the fluid is overheated vapor and its temperature and pressure are 70°C and 20 bar respectively.

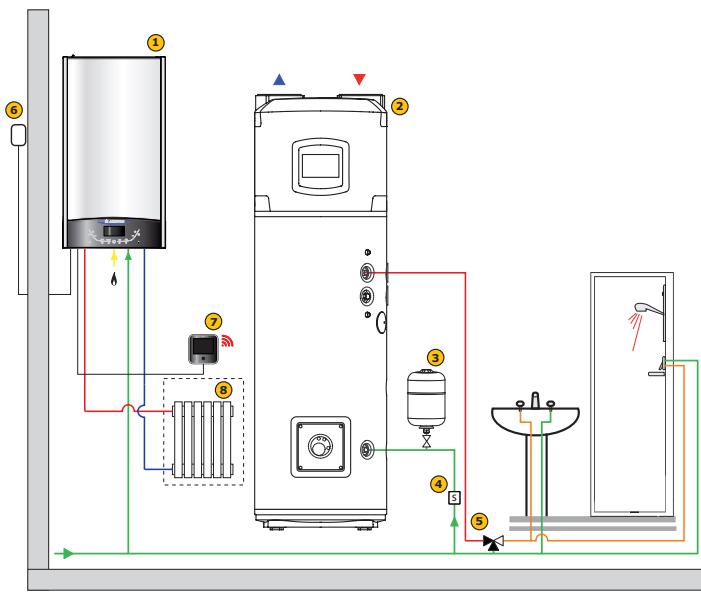
**3-4** / Within the condenser, the refrigerant fluid gives its heat to the water which warms up. By doing this, the refrigerant condensate at constant pressure (20 bar) and then experiences a significant reduction of temperature. (70 → 40°C).

**4-1** / The refrigerant fluid passes through the lamination valve, suddenly loose both pressure and temperature and partially evaporate thus returning to the initial conditions of temperature and pressure. (40→0°C; 5 bar). The thermodynamical cycle can now start over.

## Single-family solutions

Domestic hot water from renewable source with heat pump water heater

Heating with condensing wall-hung boiler



Legend

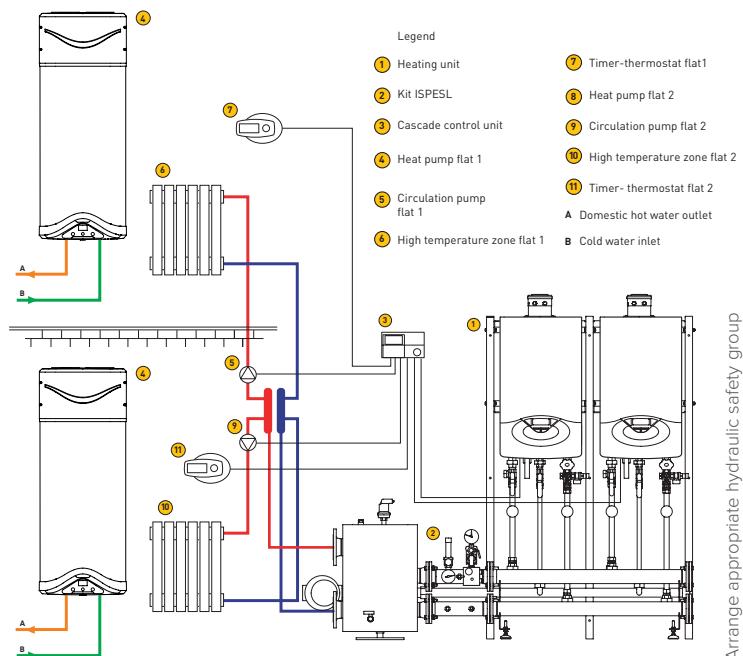
- (1) Wall-Hung Boiler
- (2) Heat Pump Water Heater Nuos
- (3) Expansion Vessel
- (4) Safety group
- (5) Domestic hot water Mixing valve
- (6) External probe
- (7) Room sensor Cube S NET
- (8) Heating zone



## Multi-family solutions

Domestic hot water from renewable source with individual wall-hung heat pump water heater

Centralized heating system with condensing boilers



Legend

- (1) Heating unit
- (2) Kit ISPESL
- (3) Cascade control unit
- (4) Heat pump flat 1
- (5) Circulation pump flat 1
- (6) High temperature zone flat 1
- (7) Timer-thermostat flat 1
- (8) Heat pump flat 2
- (9) Circulation pump flat 2
- (10) High temperature zone flat 2
- (11) Timer-thermostat flat 2
- A Domestic hot water outlet
- B Cold water inlet

Arrange appropriate hydraulic safety group



# Monoblock heat pump water heater



|   | NUOS EVO A+ WH   |         |         | NUOS PLUS Wi-Fi                              |         |         |              |
|---|--|---------|---------|--|---------|---------|--------------|
|   | 80   | 110     | 150     | 200  | 250     | 250 SYS | 250 TWIN SYS |
| ENERGY CLASS  | A+   | A+      | A+      | A+   | A+      | A+      | A+           |
| TAPPING PROFILE   | M  | M       | L       | L  | XL      | XL      | XL           |
| TYPE  | Monoblock  |         |         | Monoblock                                    |         |         |              |
| INTERNAL UNIT ASSEMBLY                                      | Wall-hung  |         |         | Floor standing                               |         |         |              |
| OPERATING RANGE AIR (°C)                                    | -5/42  |         |         | -10/42                                       |         |         |              |
| MAX WATER TEMPERATURE (WITH/ WITHOUT HEATING ELEMENTS) (°C) | 62/75  |         |         | 62/75  |         |         |              |
| COP*  | 2,83   | 2,75    | 3,15    | 3,27   | 3,62    | 3,62    | 3,62         |
| SEASONAL EFFICIENCY %*                                      | 117  | 114     | 129     | 136,7  | 147,9   | 147,9   | 147,9        |
| HEATING TIME IN HEAT PUMP (hh:mm)*                          | 04:38  | 06:04   | 08:56   | 03:41  | 04:37   | 04:37   | 04:37        |
| INTEGRATED HEATING ELEMENTS (kW)                            | 1,2  |         |         | 1,0+1,5                                      |         |         |              |
| INTEGRATED COILS  | -  |         |         | -  | -       | 1       | 2            |
| SOUND POWER (dB)  | 50   |         |         | 55   |         |         |              |
| OPERATING MODES   | Green, Boost, Boost 2, Auto, Program, Voyage, Antilegionella |         |         | Green, Comfort, Fast, i-memory, HC-HP, Boost |         |         |              |
| SILENCE FUNCTION  | Yes  |         |         | Yes  |         |         |              |
| PHOTOVOLTAIC FUNCTION                                       | -  |         |         | Yes  |         |         |              |
| EDF FUNCTION  | -  |         |         | Yes  |         |         |              |
| CODE  | 3629056  | 3629057 | 3629074 | 3069775                                      | 3069776 | 3069777 | 3069778      |
| PAGE  | 36   |         |         | 38   |         |         |              |



| NUOS PRIMO                                  |                      | NUOS PRIMO HC                               |                      |                      |
|---|----------------------|---|----------------------|----------------------|
| 80  | 100                  | 200   | 240                  | 240 SYS              |
| A   | A                    | A   | A                    | A                    |
| M   | M                    | L   | XL                   | XL                   |
| Monoblock                                   |                      | Monoblock                                   |                      |                      |
| Wall-hung                                   |                      | Floor standing                              |                      |                      |
| 10/40                                       |                      | -5/42                                       |                      |                      |
| 55/75                                       |                      | 55/75                                       |                      |                      |
| 2,32<br>(Air T 20°C)                        | 2,17<br>(Air T 20°C) | 2,85<br>(Air T 20°C)                        | 3,15<br>(Air T 20°C) | 3,06<br>(Air T 20°C) |
| 96  | 90                   | 115   | 129                  | 125                  |
| 05:20                                       | 06:36                | 06:19                                       | 07:59                | 07:57                |
| 1,2   |                      | 2,0   |                      |                      |
| -   |                      | -   | -                    | 1                    |
| 54  |                      | 53  |                      |                      |
| Green, Boost, Auto, Program, Antilegionella |                      | Green, Boost, Auto, Program, Antilegionella |                      |                      |
| -   |                      | -   |                      |                      |
| -   |                      | Yes   |                      |                      |
| -   |                      | Yes   |                      |                      |
| 3623238                                     | 3623239              | 3069653                                     | 3069654              | 3069655              |
| 42  |                      | 44  |                      |                      |

\* Air temperature 14°C, water temperature from 10°C or 15°C to set point.

# Nuos Evo A+ WH



**Top of the range wall-hung heat pump for domestic hot water production in A+ class**

- / High performances and sustainability: environmental friendly heat pump mode to achieve 62°C.
- / Security and durability: Condenser wrapped around titanium enamelled steel boiler, not immersed in water.

Energy Class



## Features

- / Operating range in heat pump mode with air temperature from -5 to 42°C
- / Active anode Protech + magnesium anode
- / Low noise in silent mode
- / LCD display
- / Modes: green, auto, boost, boost 2, holiday and antilegionella modes
- / Product intended for indoor installation



## TECHNICAL DATA

|  |          | 80                           | 110         | 150         |
|--|----------|------------------------------|-------------|-------------|
| COP <sup>(A)</sup>   |          | 2,83                         | 2,75        | 3,15        |
| COP <sup>(B)</sup>   |          | 2,6                          | 2,5         | 2,9         |
| Heating time <sup>(A)</sup>                                | hh:mm    | 04:38                        | 06:04       | 08:56       |
| Min/max air temperature                                    | °C       | -5/42                        | -5/42       | -5/42       |
| Max water temperature heat pump only mode                  | °C       | 62/75                        | 62/75       | 62/75       |
| Sound power <sup>(D)</sup>                                 | dB(A)    | 50                           | 50          | 50          |
| Average electrical power consumption in heat pump mode     | W        | 250                          | 250         | 250         |
| Max electrical power consumption in heat pump mode         | W        | 350                          | 350         | 350         |
| Max Qty of domestic hot water at 40°C <sup>(B)</sup>       | l        | 85                           | 128         | 182         |
| Nominal storage tank capacity                              | l        | 80                           | 110         | 147         |
| Max operating pressure                                     | bar      | 8                            | 8           | 8           |
| Voltage/Max. power consumption                             | V/W      | 220- 240 single - phase/1550 |             |             |
| Heating element power                                      | W        | 1200                         | 1200        | 1200        |
| Standard air flow rate                                     | m³/h     | 100-200                      | 100-200     | 100-200     |
| Min volume of the installation room                        | m³/h     | 20                           | 20          | 20          |
| Empty weight   | kg       | 50                           | 55          | 61          |
| Electrical system protection grade                         |          | IP24                         | IP24        | IP24        |
| Insulation thickness                                       | mm       | 41                           | 41          | 41          |
| Water connections diameter                                 | ,        | 1/2 M 1/2 M                  | 1/2 M 1/2 M | 1/2 M 1/2 M |
|  |          | 1/2 M                        | 1/2 M       | 1/2 M       |
| Min Temperature of storage tank room                       | °C       | 1                            | 1           | 1           |
| Heat dispersion (Pes) <sup>(B)</sup>                       | W        | 12                           | 16          | 20          |
| Available static pressure                                  | Pa       | 65                           | 65          | 65          |
| Annual energy consumption (average climate) <sup>(C)</sup> | kWh/year | 479                          | 495         | 858         |
| Seasonal efficiency <sup>(C)</sup>                         | %        | 107,1                        | 103,8       | 119,3       |

## F-GAS DATA

|                    |        |        |        |
|--------------------|--------|--------|--------|
| Refrigerant type   | R-134a | R-134a | R-134a |
| Refrigerant charge | g      | 500    | 550    |
| GWP                |        | 1430   | 1430   |
| CO2 equivalents    | t      | 0,715  | 0,787  |

## CODE

|                 |         |         |         |
|-----------------|---------|---------|---------|
|                 | 3629056 | 3629057 | 3629074 |
| Energy class    | A+      | A+      | A+      |
| Tapping profile | M       | M       | L       |

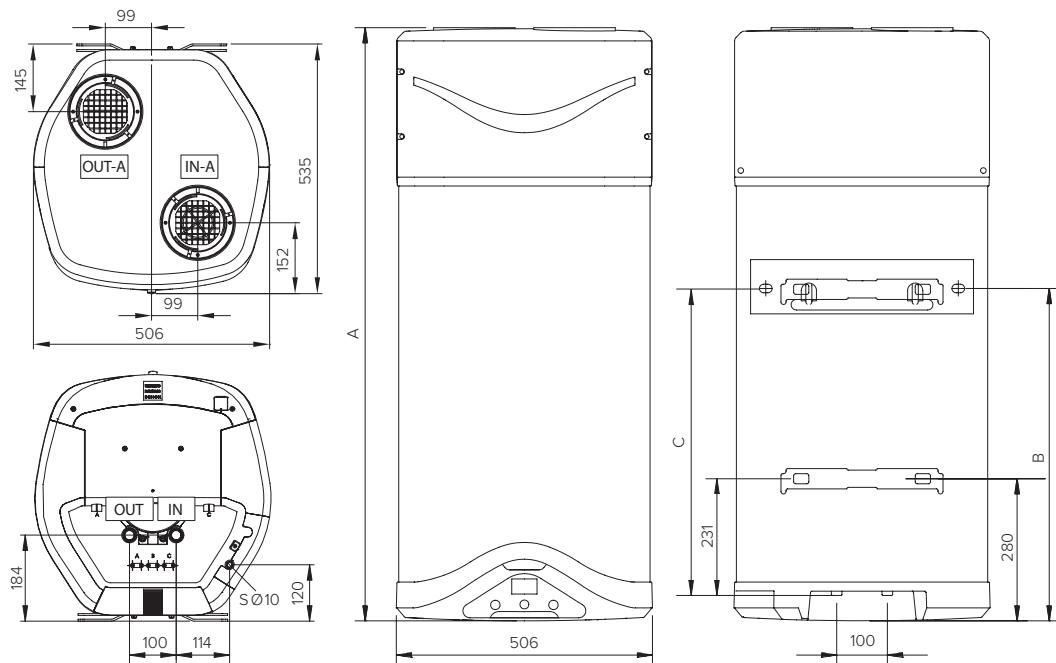
The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



ANTI-FREEZING



| DIMENSIONS | 80   | 110  | 150  |
|------------|------|------|------|
| A mm       | 1171 | 1398 | 1654 |
| B mm       | 656  | 874  | 1139 |
| C mm       | 607  | 825  | 1090 |

**KEY**

S \ condensate drain Ø10mm  
IN \ cold water inlet G 1/2"  
OUT \ hot water outlet G 1/2"

# Nuos Plus Wi-Fi



**Top of the range floor-standing heat pump for domestic hot water production in A+ class, with connectivity.**

- / Full comfort with lowest heating time on market\* and superior COP.
- / Simplified control via smartphone with Aqua Ariston NET app.
- / High performances and sustainability: environmental friendly heat pump mode to achieve 62°C.

Energy Class



## Features

- / Full compatibility with R513A refrigerant gas
- / Integrated photovoltaic function
- / BusbridgeNET® compatible
- / One or two coils and sensors slot to integrate solar thermal, boiler or biomass
- / Active anode Protech + magnesium anode
- / Dual power stellite electrical heating elements
- / Low noise in silent mode
- / LCD display
- / Modes: green, comfort, fast, boost, i-memory, HC-HP, holiday
- / Time scheduling
- / Antilegionella
- / Product intended for indoor installation
- / 100% designed and developed in Italy

\* Check if local product code is enabled for connectivity.

| TECHNICAL DATA                                     | 200      | 250          | 250<br>SYS   | 250<br>TWIN SYS |
|--|----------|--------------|--------------|-----------------|
| COP (A)  | 3,27     | 3,62         | 3,62         | 3,62            |
| COP (B)  | 3,1      | 3,35         | 3,14         | 3,21            |
| Heating time (A)                                   | hh:mm    | 03:41        | 04:37        | 04:37           |
| Min/max air temperature                            | °C       | -10/42       | -10/42       | -10/42          |
| Max water temperature heat pump only mode          | °C       | 62/75        | 62/75        | 62/75           |
| Sound power (C)                                    | dB(A)    | 55           | 55           | 55              |
| Sound power (silent mode) (C)                      | dB(A)    | 51           | 51           | 51              |
| Max electrical power consumption in heat pump mode | W        | 900          | 900          | 900             |
| Nominal storage tank capacity                      | l        | 200          | 250          | 245             |
| Max operating pressure                             | bar      | 6            | 6            | 6               |
| Voltage/Max. power consumption                     | V/W      | 220-240/2500 | 220-240/2500 | 220-240/2500    |
| Heating element power                              | W        | 1500 + 1000  | 1500 + 1000  | 1500 + 1000     |
| Standard air flow rate                             | m³/h     | 650          | 650          | 650             |
| Min volume of the installation room (E)            | m³       | 30           | 30           | 30              |
| Empty weight                                       | kg       | 90           | 95           | 115             |
| Electrical system protection grade                 |          | IPX4         | IPX4         | IPX4            |
| Insulation thickness                               | mm       | 50           | 50           | 50              |
| Water connections diameter                         | "        | G 3/4 M      | G 3/4 M      | G 3/4 M         |
| Min Temperature of storage tank room               | °C       | 1            | 1            | 1               |
| Heating bottom circuit exchange surface            | m²       | -            | -            | 0,65            |
| Heating top circuit exchange surface               | m²       | -            | -            | 0,65            |
| Heat dispersion (Pes) (B)                          | W        | 21           | 22           | 23              |
| Available static pressure                          | Pa       | 230          | 230          | 230             |
| Annual energy consumption (average climate) (C)    | kWh/year | 790          | 1215         | 1299            |
| Seasonal efficiency (C)                            | %        | 130          | 138          | 129             |
| V40 (Qty of mixed DHW at 40°C) (C)                 | l        | 256          | 336          | 333             |

## F-GAS DATA

|                    |       |       |       |       |
|--------------------|-------|-------|-------|-------|
| Refrigerant type   | R134a | R134a | R134a | R134a |
| Refrigerant charge | g     | 1300  | 1300  | 1300  |
| GWP                |       | 1430  | 1430  | 1430  |
| CO2 equivalents    | t     | 1,859 | 1,859 | 1,859 |

## CODE

|                 |         |         |         |         |
|-----------------|---------|---------|---------|---------|
|                 | 3069775 | 3069776 | 3069777 | 3069778 |
| Energy class    | A+      | A+      | A+      | A+      |
| Tapping profile | L       | XL      | XL      | XL      |

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.

(A) Values obtained with 14°C outdoor air temperature and 87% relative humidity, 10°C inlet water temperature and 55°C set temperature (EN 16147). Ducted product Ø150 rigid.

(B) Values obtained with outdoor air temperature of 7°C and relative humidity of 87%, inlet water temperature of 10°C and temperature set at 55°C (as per the provisions in EN 16147 and CDC 103-15/C-2018). Ducted product Ø200 mm.

(C) Values obtained with outdoor air temperature of 7°C and relative humidity of 87%, inlet water temperature of 10°C and temperature set at 55°C (as per the provisions of 2014/C 207/03 - transitional methods of measurement and calculation). Ducted product Ø200 mm

(D) Values obtained from the average of the results as per the provisions in EN 12102-2. Ducted product Ø200 mm.

(E) Value that guarantees the correct operation and easy maintenance with non-ducted products. The correct operation of the product is nevertheless guaranteed up to a minimum height of 2.090 m



SYSTEM MANAGEMENT



INTEGRATION WITH PHOTOVOLTAIC SYSTEM



ENERGY EFFICIENT



ANTI-CORROSION



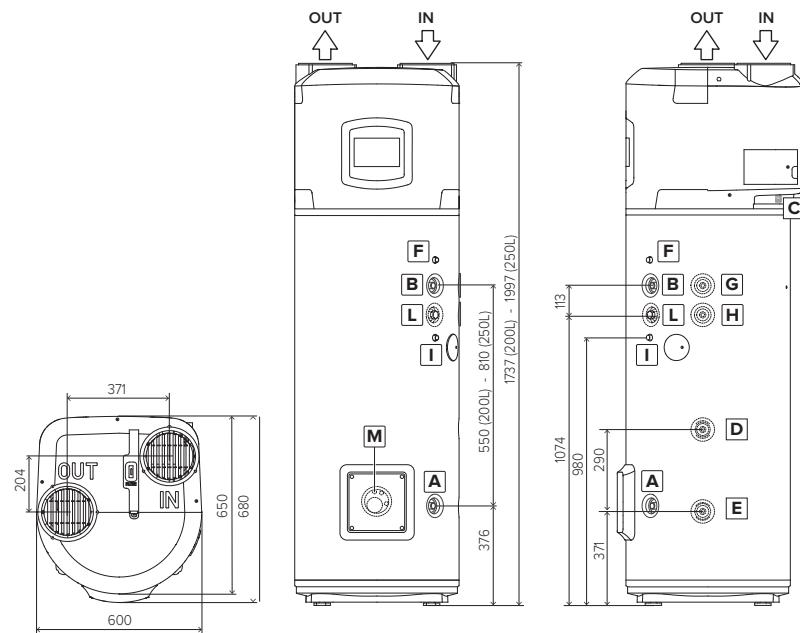
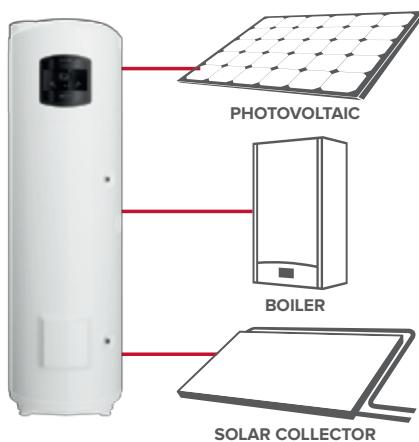
ANTI-LEGIONELLA



ANTI-FREEZING



SOLAR INTEGRATION



**NUOS PLUS Wi-Fi** PHOTOVOLTAIC  
200 / 250 BOILER

**NUOS PLUS Wi-Fi** PHOTOVOLTAIC  
250 SYS BOILER  
SOLAR COLLECTOR

**NUOS PLUS Wi-Fi** PHOTOVOLTAIC  
250 TWIN SYS BOILER  
SOLAR COLLECTOR

#### KEY

- A \ Pipe Ø ¾" cold water inlet
- B \ Pipe Ø ¾" hot water outlet
- C \ Condensate drainage connection Ø14mm
- D \ Pipe Ø ¾" auxiliary circuit inlet (SYS and TWIN SYS versions only)
- E \ Pipe Ø ¾" auxiliary circuit outlet (SYS and TWIN SYS versions only)
- F \ Sheath for upper sensor (S3) (SYS and TWIN SYS versions only)
- G \ Pipe Ø ¾" auxiliary circuit inlet (TWIN SYS version only)
- H \ Pipe Ø ¾" auxiliary circuit outlet (TWIN SYS version only)
- I \ Sheath for upper sensor (S4) (TWIN SYS version only)
- L \ Pipe Ø ¾" for recycling circuit (SYS and TWIN SYS versions only)
- M \ Sheath for lower sensor (S2) (SYS and TWIN SYS versions only)

# Nuos Plus S2 Wifi WH



**Top of the range wall-hung heat pump for domestic hot water production in A+ class**

- / A+ Energy Class and High and competitive COP
- / Much lower heating time
- / Hot water production up to 60° C in HP only
- / Extended air working range (from -10°C to 42° C)
- / R290 - Low GWP refrigerant (GWP=3)
- / Photovoltaic connection
- / SuperSilent

Energy Class



## Features

- / Wi-Fi embedded for remote control
- / Bus Bridge Net for System Integration
- / Friendly touch-buttons interface with new HMI
- / New working modes to meet all customer needs
- / Compact installation & easy access for inspection
- / Active Anode & Magnesium Anode
- / Pressure and temperature sensors and switches
- / Enameled immerse heating element
- / 1-to-1 diagnostics

## TECHNICAL DATA

80

110

150



|                          |       | 80                 | 110                | 150                |
|--------------------------|-------|--------------------|--------------------|--------------------|
| REFRIGERANT              |       | R290               | R290               | R290               |
| CHARGE                   | kg    | 0,150              | 0,150              | 0,150              |
| CAPACITY                 | l     | 80                 | 110                | 150                |
| LOAD PROFILE             | M     | M                  | M                  | L                  |
| TMAX (HP/HF)             | °C    | 60/75              | 60/75              | 60/75              |
| AVERAGE HP POWER         | W     | 280                | 280                | 280                |
| MAX HP POWER             | W     | 350                | 350                | 350                |
| HE POWER                 | W     | 1200               | 1200               | 1200               |
| HEATING TIME             | h:mm  | 03:53              | 05:50              | 09:14              |
| COP(2°) EN 16147- ErP    |       | 2,08(M)            | 2,20(M)            | 2,22(L)            |
| COP(7°C) EN 16147 - ErP  | -     | 2,77(M)            | 2,74(M)            | 2,88(L)            |
| COP(14°C) EN 16147 - ErP | -     | 2,99(M)            | 3(M)               | 3,18 (L)           |
| COP (14°C) - Spain       | -     | 3,2 (M)            | 3,1 (M)            | 3,35(L)            |
| AIR WORKING RANGE        | °C    | -10/42             | -10/42             | -10/42             |
| AVAIL STATIC PRESSURE    | Pa    | 74                 | 74                 | 74                 |
| PV FUNCTION              |       | Yes                | yes                | yes                |
| WI-FI                    |       | Yes                | yes                | yes                |
| I-MEMORY                 |       | Yes                | yes                | yes                |
| SMART                    |       | Yes                | yes                | yes                |
| TIME SCHEDULING          |       | Yes                | yes                | yes                |
| SOUND POWER (ERP)        | dB(A) | 45                 | 45                 | 45                 |
| HEATING ELEMENT          |       | Enamelled Immerse  | Enamelled Immerse  | Enamelled Immerse  |
| ANODE                    |       | Active + Magnesium | Active + Magnesium | Active + Magnesium |
| ENERGY LABEL             |       | A+                 | A+                 | A+                 |

## CODE



3629145 3629146 3629147

Energy class

A+

A+

A+

Tapping profile

M

M

L

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.

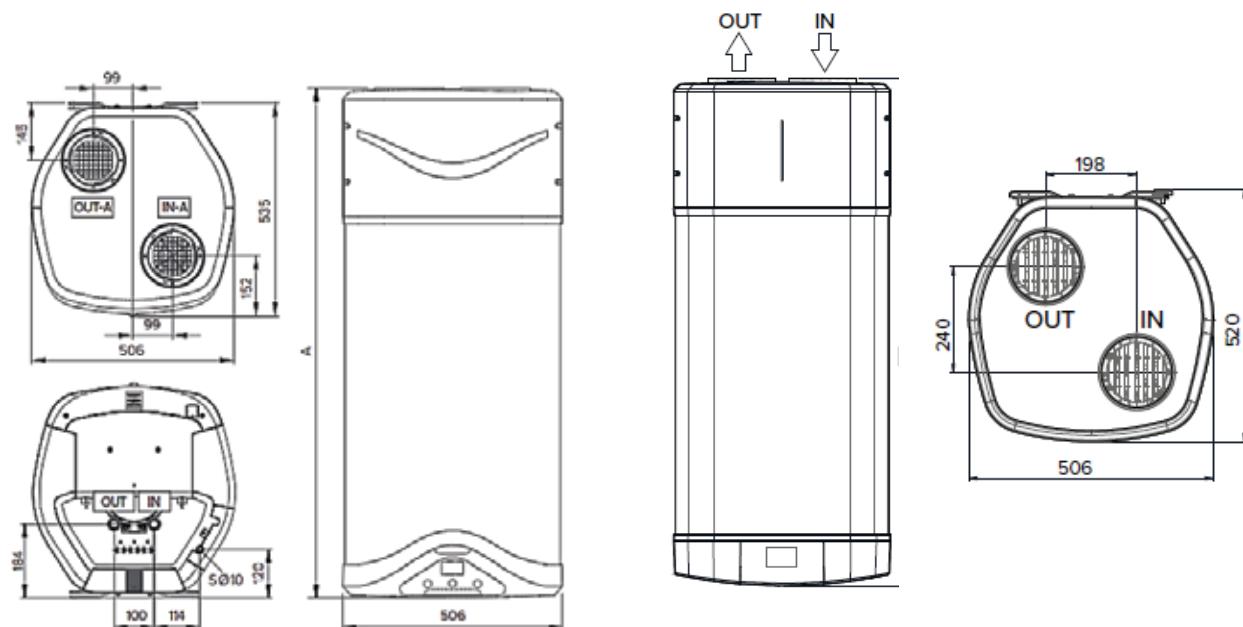
\*HEATING TIME: Values obtained with outdoor air temperature of 7°C, inlet water temperature of 10°C up to Tset (as per the provisions in EN 16147 and CDC 103-15/C-2018). Ducted product O150 mm.



ANTI-FREEZING



|        | <i>in mm</i> | 150L | 110L | 80L |
|--------|--------------|------|------|-----|
| Height | 1659         | 1403 | 1176 |     |
| Lenght | 506          | 506  | 506  |     |
| Width  | 520          | 520  | 520  |     |

**KEY**

S \ condensate drain Ø10mm  
 IN \ cold water inlet G 1/2"  
 OUT \ hot water outlet G 1/2"

# Nuos Primo



## Wall-hung heat pump for domestic hot water production

- / High performances and sustainability: environmental friendly heat pump mode to achieve 55°C.
- / Security and durability: Condenser wrapped around titanium enamelled steel boiler, not immersed in water.

Energy Class



### Features

- / Operating range in heat pump mode with air temperature from 10 to 40°C
- / Anti corrosion magnesium anode
- / LED display
- / Modes: green, auto, boost, program
- / Antilegionella
- / Product intended for indoor installation

### TECHNICAL DATA



|  |          | 80                          | 100   |
|--|----------|-----------------------------|-------|
| COP <sup>(A)</sup>   |          | 2,32                        | 2,17  |
| Heating time <sup>(A)</sup>                                | hh:mm    | 05:20                       | 06:36 |
| Min/max air temperature                                    | °C       | 10/40                       | 10/40 |
| Max water temperature heat pump only mode                  | °C       | 55                          | 55    |
| Sound power <sup>(C)</sup>                                 | dB(A)    | 54                          | 54    |
| Average electrical power consumption in heat pump mode     | W        | 250                         | 250   |
| Max Qty of domestic hot water at 40°C <sup>(B)</sup>       | l        | 91                          | 117   |
| Nominal storage tank capacity                              | l        | 80                          | 100   |
| Max operating pressure                                     | bar      | 8                           | 8     |
| Voltage/Max. power consumption                             | V/W      | 220-240 single-phase / 1550 |       |
| Heating element power                                      | W        | 1200                        | 1200  |
| Standard air flow rate                                     | m³/h     | 170                         | 170   |
| Min volume of the installation room                        | m³       | 20                          | 20    |
| Empty weight   | kg       | 45                          | 49    |
| Electrical system protection grade                         |          | IP24                        | IP24  |
| Insulation thickness                                       | mm       | 31                          | 31    |
| Water connections diameter                                 | "        | 1/2 M                       | 1/2 M |
| Min Temperature of storage tank room                       | °C       | 1                           | 1     |
| Heat dispersion (Pes) <sup>(A)</sup>                       | W        | 17                          | 20    |
| Available static pressure                                  | Pa       | 65                          | 65    |
| Annual energy consumption (average climate) <sup>(B)</sup> | kWh/year | 533                         | 567   |
| Seasonal efficiency <sup>(B)</sup>                         | %        | 96,4                        | 90,6  |

### F-GAS DATA

|                    |       |       |
|--------------------|-------|-------|
| Refrigerant type   | R134a | R134a |
| Refrigerant charge | g     | 380   |
| GWP                |       | 1430  |
| CO2 equivalents    | t     | 0,543 |

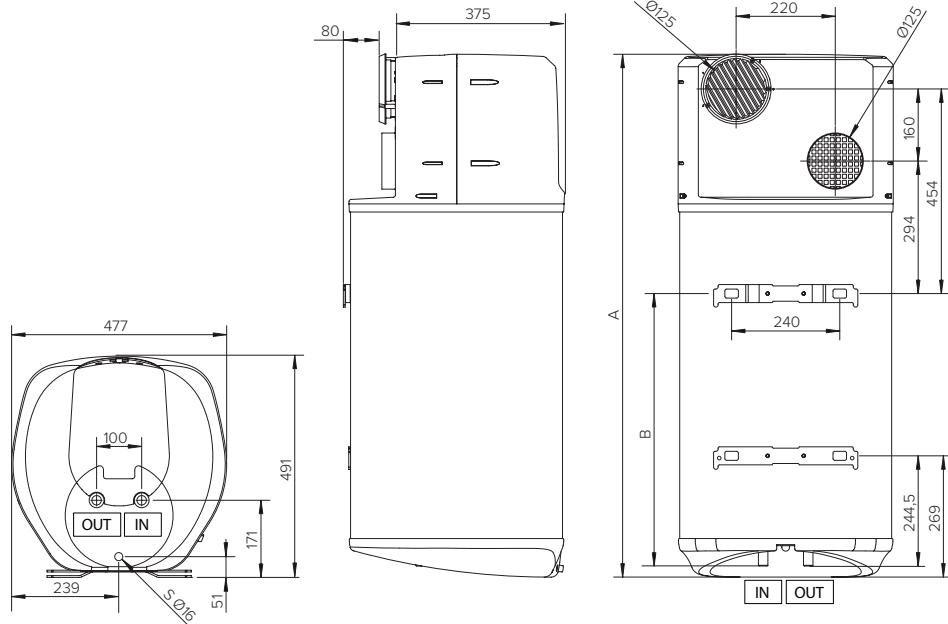
### CODE

|                 |         |         |
|-----------------|---------|---------|
|                 | 3623238 | 3623239 |
| Energy class    | A       | A       |
| Tapping profile | M       | M       |

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



| Dimensions | 80    | 100   |
|------------|-------|-------|
| A mm       | 1160  | 1304  |
| B mm       | 604,5 | 748,5 |


**KEY**

- IN \ Cold water inlet G 1/2"  
 OUT \ Hot water outlet G 1/2"  
 S \ Condensate drain

# Nuos Primo HC



## Floor-standing heat pump for domestic hot water production

/ High performances and sustainability:  
environmental friendly heat pump mode to  
achieve 55°C.

Energy Class



### Features

- / Operating range in heat pump mode with air temperature from -5 to 42°C
- / Coils and sensors slot to integrate solar thermal or boiler (240 SYS)
- / Active anode Protech + magnesium anode
- / LCD display
- / Modes: green, auto, boost, program
- / Antilegionella
- / Product intended for indoor installation



<sup>(a)</sup> Values obtained with external air temperature of 20°C and relative humidity at 37%, inlet water temperature of 10°C and set temperature of 52°C (according to the provisions set forth in EN 16147). Product not ducted.

<sup>(b)</sup> Values obtained with external air temperature of 7°C and relative humidity at 87%, inlet water temperature of 10°C and set temperature of 52°C (according to the provisions set forth in EN 16147). Rigid Ø200 ducted product

<sup>(c)</sup> Values obtained with external air temperature of 7°C and relative humidity at 87%, inlet water temperature of 10°C and set temperature of 52°C (according to the provisions set forth in 2014/C 207/03 - transitional methods of measurement and calculation). Rigid Ø200 ducted product.

<sup>(d)</sup> Values obtained from average results of three tests carried out with external air temperature of 7°C and relative humidity at 87%, inlet water temperature of 10°C and temperature set according to the provisions set forth in 2014/C 207/03 - transitional methods of measurement and calculation. Rigid Ø200 ducted product.

<sup>(e)</sup> Value that ensures correct operation and eases maintenance if the product is not ducted.

|  | TECHNICAL DATA | 200          | 240          | 240 SYS      |
|--|----------------|--------------|--------------|--------------|
| COP <sup>(a)</sup>   |                | 2,85         | 3,15         | 3,06         |
| COP <sup>(b)</sup>   |                | 2,71         | 2,86         | 2,77         |
| Heating time <sup>(b)</sup>                                | hh:mm          | 06:19        | 07:59        | 07:57        |
| Min/max air temperature                                    | °C             | -5/42        | -5/42        | -5/42        |
| Max water temperature heat pump only mode                  | °C             | 55/75        | 55/75        | 55/75        |
| Sound power <sup>(d)</sup>                                 | dBA            | 53           | 53           | 53           |
| Average electrical power consumption in heat pump mode     | W              | 500          | 500          | 500          |
| Nominal storage tank capacity                              | l              | 202          | 244          | 239          |
| Max operating pressure                                     | bar            | 6            | 6            | 6            |
| Voltage/Max. power consumption                             | V/W            | 220-230/2750 | 220-230/2750 | 220-230/2750 |
| Heating element power                                      | W              | 2000         | 2000         | 2000         |
| Standard air flow rate                                     | m3/h           | 400          | 400          | 400          |
| Min volume of the installation room <sup>(e)</sup>         | m3             | 20           | 20           | 20           |
| Empty weight   | kg             | 87           | 92           | 107          |
| Electrical system protection grade                         |                | IP24         | IP24         | IP24         |
| Insulation thickness                                       | mm             | 35           | 35           | 35           |
| Water connections diameter                                 | "              | G 3/4 M      | G 3/4 M      | G 3/4 M      |
| Min Temperature of storage tank room                       | °C             | 1            | 1            | 1            |
| Heat exchanger surface area                                | m <sup>2</sup> | -            | -            | 0,65         |
| Heat dispersion (Pes) <sup>(b)</sup>                       | W              | 28           | 34           | 35           |
| Available static pressure                                  | Pa             | 55           | 55           | 55           |
| Annual energy consumption (average climate) <sup>(c)</sup> | kWh/year       | 912          | 1425         | 1470         |
| Seasonal efficiency <sup>(c)</sup>                         | %              | 112,3        | 117,6        | 114          |
| V40 (Qty of mixed DHW at 40°C) <sup>(c)</sup>              | l              | 247          | 323          | 313          |

### F-GAS DATA

|                             |        |        |        |
|-----------------------------|--------|--------|--------|
| Refrigerant type            | R-134a | R-134a | R-134a |
| Refrigerant charge          | g      | 900    | 900    |
| GWP                         |        | 1430   | 1430   |
| CO <sub>2</sub> equivalents | t      | 1,29   | 1,29   |

### CODE

|                 |         |         |         |
|-----------------|---------|---------|---------|
|                 | 3069653 | 3069654 | 3069655 |
| Energy class    | A       | A       | A       |
| Tapping profile | L       | XL      | XL      |

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



INTEGRATION  
WITH PHOTOVOLTAIC  
SYSTEM



PRO  
FESSIONAL  
TECH



ANTI-CORROSION



ANTI-LEGIONELLA



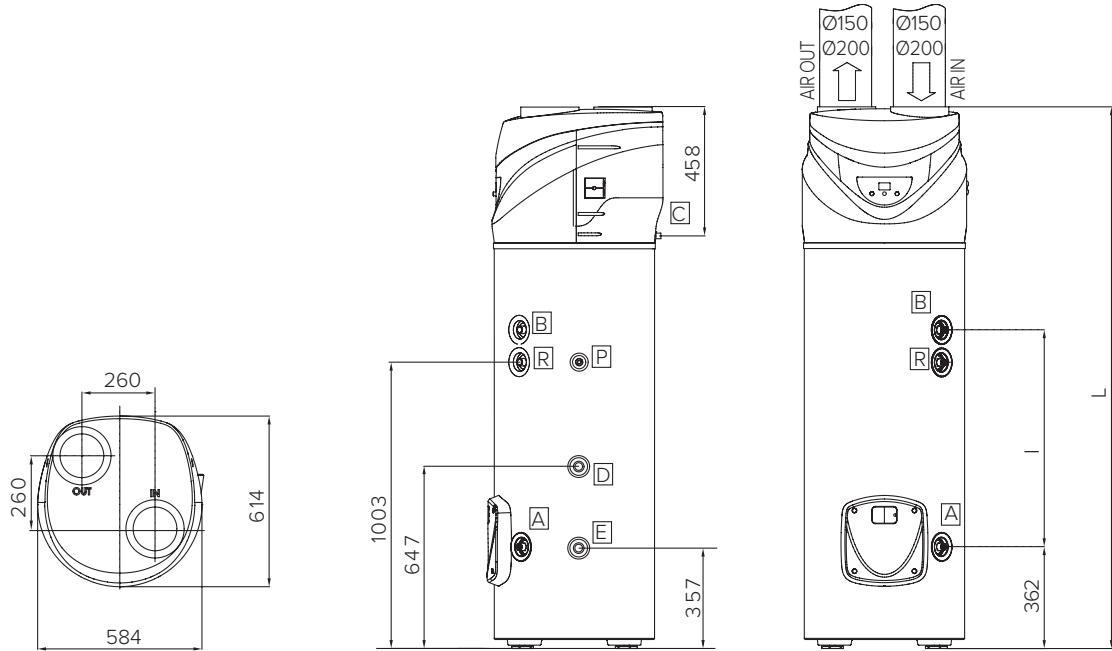
ANTI-FREEZING



SOLAR  
INTEGRATION



| Dimensions | 200  | 240 (SYS) |
|------------|------|-----------|
| I mm       | 551  | 771       |
| L mm       | 1706 | 1926      |



#### KEY

- A \ Pipe Ø ¾" cold water inlet
- B \ Pipe Ø ¾" hot water outlet
- C \ Condensate discharge connection Ø ½" F
- D \ Pipe Ø ¾" coil inlet (240 SYS)
- E \ Pipe Ø ¾" coil outlet (240 SYS)
- P \ Probe socket (240 SYS)
- R \ Ricircle Ø ¾" (240 SYS)

# Split system heat pump Water Heater



| NUOS SPLIT WH   |                              |         |
|---|------------------------------|---------|
|   | 80                           | 110     |
| ENERGY CLASS  | A                            | A       |
| TAPPING PROFILE   | M                            | M       |
| TYPE  | split                        |         |
| CONNECTIVITY  | -                            |         |
| INTERNAL UNIT ASSEMBLY                                      | Wall-hung                    |         |
| OPERATING RANGE AIR (°C)                                    | -5/42                        |         |
| MAX WATER TEMPERATURE (WITH/ WITHOUT HEATING ELEMENTS) (°C) | 62/75                        |         |
| COP*  | 2,4                          | 2,37    |
| SEASONAL EFFICIENCY %*                                      | 99,9                         | 99,4    |
| HEATING TIME IN HEAT PUMP (hh:mm)*                          | 02:39                        | 03:49   |
| INTEGRATED HEATING ELEMENTS (kW)                            | 1,2                          |         |
| INTEGRATED COILS  | -                            |         |
| SOUND POWER (dB)  | U.I. 15 U.E. 57              |         |
| OPERATING MODES   | Boost, Boost 2, Auto, Voyage |         |
| SILENCE FUNCTION  | -                            |         |
| PHOTOVOLTAIC FUNCTION                                       | -                            |         |
| CODE  | 3623242                      | 3623243 |
| PAGE  | 46                           |         |

\* Air temperature 14°C, water temperature from 10°C or 15°C to set point.



| NUOS SPLIT INVERTER Wi-Fi WH                   |         | NUOS SPLIT INVERTER Wi-Fi FS                   |
|--|---------|--|
| 150*   | 200*    | 270*   |
| A+   | A+      | A+   |
| L  | L       | XL   |
| split  |         | split  |
| integrated                                     |         | integrated                                     |
| Wall-hung                                      |         | Floor standing                                 |
| -10/42   |         | -10/42   |
| 62/75  |         | 62/75  |
| 3,65   | 3,62    | 3,84   |
| 150  | 149     | 157  |
| 03:36  | 04:52   | 06:39  |
| 1,0 + 1,5                                      |         | 1,0 + 1,5                                      |
| -  |         | -  |
| U.I. 15 U.E. 56                                |         | U.I. 15 U.E. 56                                |
| Green, Comfort, Fast, Boost, i-Memory, Holiday |         | Green, Comfort, Fast, Boost, i-Memory, Holiday |
| Yes  |         | yes  |
| Yes  |         | yes  |
| 3069755  | 3069756 | 3069757  |
| 48   |         | 50   |

# Nuos Split WH



## Split Wall-hung heat pump for domestic hot water production

- / High performances and sustainability: environmental friendly heat pump mode to achieve 62°C.
- / Security and durability: Condenser wrapped around titanium enamelled steel boiler, not immersed in water.

Energy Class



### Features

- / Operating range in heat pump mode with air temperature from -5 to 42°C
- / Active anode Protech + magnesium anode
- / Low noise outdoor unit
- / LCD display
- / Modes: auto, boost, boost 2, voyage
- / Antilegionella
- / Tank intended for indoor installation



### TECHNICAL DATA

|  | 80        | 110          |
|--|-----------|--------------|
| COP <sup>(A)</sup>   | 2,4       | 2,37         |
| COP <sup>(B)</sup>   | 2,04      | 2,03         |
| Heating time <sup>(A)</sup>                                | hh:mm     | 02:39        |
| Min/max air temperature                                    | °C        | -5/42        |
| Max water temperature heat pump only mode                  | °C        | 62/75        |
| Sound power U.I. <sup>(D)</sup>                            | dB(A)     | 15           |
| Sound power U.E. <sup>(D)</sup>                            | dB(A)     | 57           |
| Average electrical power consumption in heat pump mode     | W         | 510          |
| Nominal storage tank capacity                              | l         | 80           |
| Max operating pressure                                     | bar       | 8            |
| Voltage/Max. power consumption                             | V/W       | 220-240/1950 |
| Heating element power                                      | W         | 1200         |
| Empty weight   | kg        | 32           |
| Electrical system protection grade                         | IP        | IP24         |
| Insulation thickness                                       | mm        | 41           |
| Water connections diameter                                 | "         | 1/2 M        |
| Min Temperature of storage tank room                       | °C        | 1            |
| Heat dispersion (Pes) <sup>(B)</sup>                       | W         | 20           |
| Annual energy consumption (average climate) <sup>(C)</sup> | kWh/year  | 606          |
| Seasonal efficiency <sup>(C)</sup>                         | %         | 85           |
| V40 (Qty of mixed DHW at 40°C) <sup>(C)</sup>              | l         | 99           |
| <b>OUTDOOR UNIT</b>  |           |              |
| Refrigerant circuit connections diameter                   | 1/4 - 3/8 | 1/4 - 3/8    |
| Empty weight   | kg        | 27           |
| Standard air flow rate                                     | m³/h      | 1100         |
| Max pressure in the refrigerating circuit (Low p side)     | bar       | 12           |
| Max pressure in refrigerating circuit (High p side)        | bar       | 27           |
| Electrical system protection grade                         | IP        | IP24         |
| Max distance between storage tank and outdoor unit         | m         | 8            |
| Max diff in level between storage tank and outdoor unit    | m         | 3            |

### F-GAS DATA

|                    |        |        |
|--------------------|--------|--------|
| Refrigerant type   | R-134a | R-134a |
| Refrigerant charge | g      | 700    |
| GWP                |        | 1430   |
| CO2 equivalents    | t      | 1,001  |

### CODE (storage tank + outdoor unit)

|                   |         |         |
|-------------------|---------|---------|
|                   | 3623242 | 3623243 |
| Energy class      | A       | A       |
| Tapping profile   | M       | M       |
| Storage tank code | 3623244 | 3623245 |
| Outdoor unit code | 3623246 | 3623246 |

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.

ENERGY  
EFFICIENTPRO  
FESSIONAL  
TECH

ANTI-LEGIONELLA



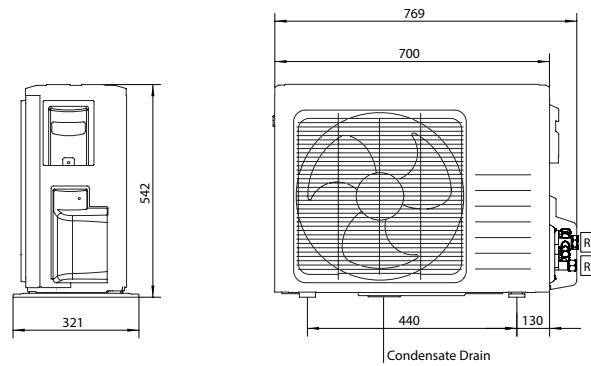
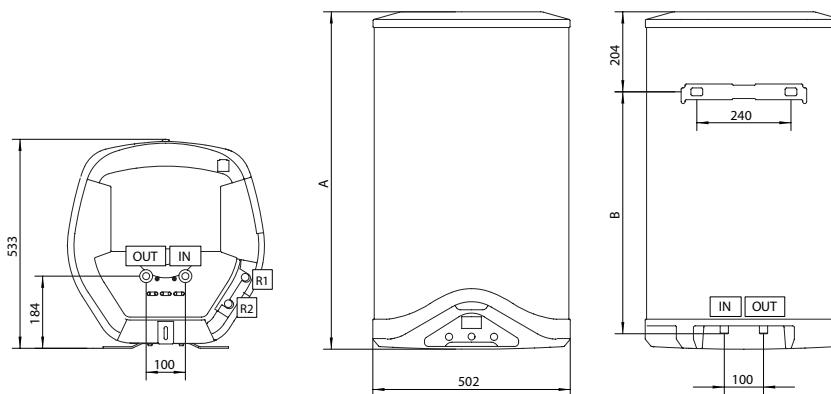
ANTI-FREEZING



SUPER SILENT



| Dimensions | 80  | 110  |
|------------|-----|------|
| A mm       | 860 | 1085 |
| B mm       | 617 | 842  |

**KEY**

IN \ Cold water inlet G 1/2"  
 OUT \ Hot water outlet G 1/2"

A \ Gas inlet G 1/4"  
 B \ Gas outlet G 3/8"

# Nuos Split Inverter Wi-Fi WH



**Split Wall-hung heat pump for domestic hot water production with inverter technology and connectivity**

- / Simplified control via smartphone with Aqua Ariston NET app
- / High performances and sustainability: environmental friendly heat pump mode to achieve 62°C.
- / Security and durability: Condenser wrapped around titanium enamelled steel boiler, not immersed in water.

Energy Class



## Features

- / Operating range in heat pump mode with air temperature from -10 to 42°C
- / Active anode Protech + magnesium anode
- / Dual power stearite electrical heating element
- / Photovoltaic function
- / Low noise outdoor unit
- / LCD touch display
- / Modes: green, comfort, fast, boost, i-memory, holiday
- / Time scheduling
- / Antilegionella
- / Various modes
- / Tank intended for indoor installation

\* Check if local product code is enabled for connectivity

## TECHNICAL DATA

150 200

|  |          |              |
|--|----------|--------------|
| COP (A)  | 3,65     | 3,62         |
| COP (B)  | 3,25     | 3,25         |
| Heating time (A)                                       | hh:mm    | 03:36        |
| Min/max air temperature                                | °C       | -10/42       |
| Max water temperature heat pump only mode              | °C       | 62/75        |
| Sound power U.I. (D)                                   | dBA(A)   | 15           |
| Sound power U.E. (D)                                   | dBA(A)   | 56           |
| Average electrical power consumption in heat pump mode | W        | 700          |
| Nominal storage tank capacity                          | l        | 150          |
| Max operating pressure                                 | bar      | 6            |
| Voltage/Max. power consumption                         | V/W      | 220-240/2500 |
| Heating element power                                  | W        | 1500 + 1000  |
| Empty weight   | kg       | 60           |
| Electrical system protection grade                     | IP       | IP24         |
| Insulation thickness                                   | mm       | 55           |
| Water connections diameter                             | "        | G 3/4 M      |
| Min Temperature of storage tank room                   | °C       | 1            |
| Heat dispersion (Pes) (B)                              | W        | 17           |
| Annual energy consumption (average climate) (C)        | kWh/year | 766          |
| Seasonal efficiency (C)                                | %        | 133,6        |
| V40 (Qty of mixed DHW at 40°C) (C)                     | l        | 182          |
|  |          | 253          |

## OUTDOOR UNIT

|   |                      |                             |
|---|----------------------|-----------------------------|
| Refrigerant circuit connections diameter                              | 1/4 & 3/8 flare type | 1/4 & 3/8 flare type        |
| Empty weight  | kg                   | 32                          |
| Standard air flow rate  | m³/h                 | 1300                        |
| Max pressure in the refrigerating circuit (Low p side)                | bar                  | 12                          |
| Max pressure in refrigerating circuit (High p side)                   | bar                  | 27                          |
| Electrical system protection grade                                    | IP                   | IP4X/IP24                   |
| Max distance between storage tank and outdoor unit (with/without gas) | m                    | 12/20                       |
| Max diff in level between storage tank and outdoor unit               | m                    | 10 positive/10 negative (E) |
| Addition of gas required  | g/m                  |                             |
| Min diff in level between storage tank and indoor unit                | m²                   | 2                           |
|   |                      | 2                           |

## F-GAS DATA

|                    |       |       |
|--------------------|-------|-------|
| Refrigerant type   | R134a | R134a |
| Refrigerant charge | g     | 1100  |
| GWP                |       | 1430  |
| CO2 equivalents    | t     | 1,573 |

## CODE (storage tank + outdoor unit)

|                   |         |         |
|-------------------|---------|---------|
|                   | 3069755 | 3069756 |
| Energy class      | A+      | A+      |
| Tapping profile   | L       | L       |
| Storage tank code | 3069749 | 3069750 |
| Outdoor unit code | 3629070 | 3629070 |

The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



INVERTER

ENERGY  
EFFICIENT

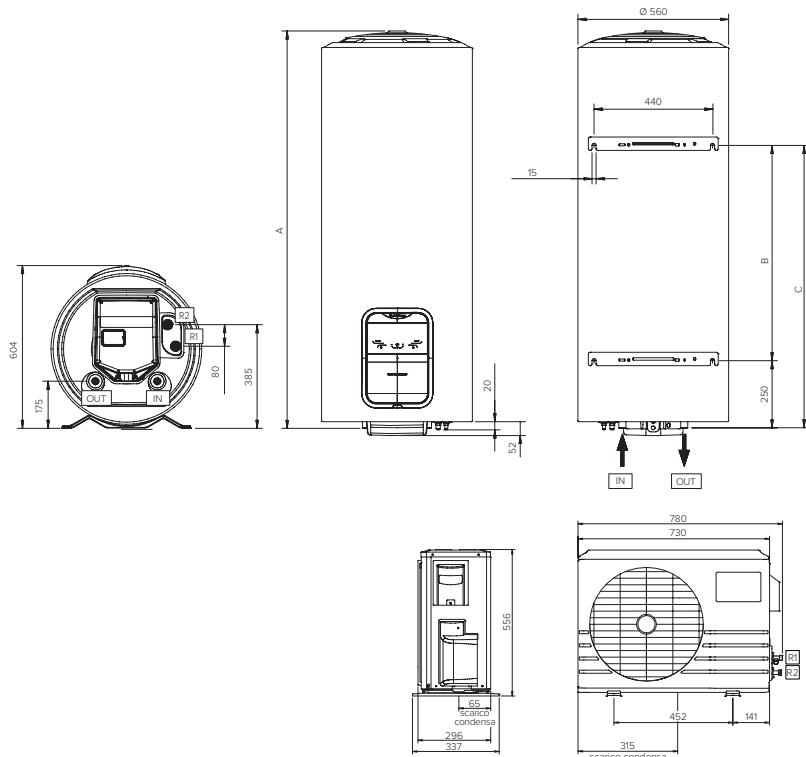
ANTI-CORROSION



SUPER SILENT

INTEGRATION WITH  
PHOTOVOLTAIC  
SYSTEM

| Dimensions | 150  | 200  |
|------------|------|------|
| A mm       | 1150 | 1476 |
| B mm       | 500  | 800  |
| C mm       | 750  | 1050 |



In case of a weak wall, the tripod support must be used. Code : 3078042

# Nuos Split Inverter Wi-Fi FS

**Split floor standing heat pump for domestic hot water production with inverter technology and connectivity**



- / Simplified control via smartphone with Aqua Ariston NET app
- / High performances and sustainability: environmental friendly heat pump mode to achieve 62°C.
- / Security and durability: Condenser wrapped around titanium enamelled steel boiler, not immersed in water.

Energy Class



## Features

- / Operating range in heat pump mode with air temperature from -10 to 42°C
- / Active anode Protech + magnesium anode
- / Dual power stearite electrical heating element
- / Photovoltaic function
- / Low noise outdoor unit
- / LCD touch display
- / Modes: green, comfort, fast, boost, i- memory, holiday
- / Time scheduling
- / Antilegionella
- / Various modes
- / Tank intended for indoor installation

\* Check if local product code is enabled for connectivity

## TECHNICAL DATA

270



|  |                  |
|--|------------------|
| COP(A)   | 3,84             |
| COP(B)   | 3,53             |
| Heating time(A)  | 06:39            |
| Min/max air temperature                                | °C               |
| Max water temperature heat pump only mode              | °C               |
| Sound power U.I.(D)                                    | dB(A) 15         |
| Sound power U.E.(D)                                    | dB(A) 56         |
| Average electrical power consumption in heat pump mode | W 700            |
| Nominal storage tank capacity                          | l 270            |
| Max operating pressure                                 | bar 6            |
| Voltage/Max. power consumption                         | V/W 220-240/2500 |
| Heating element power                                  | W 1500 + 1000    |
| Empty weight   | kg 76            |
| Electrical system protection grade                     | IP 24            |
| Insulation thickness                                   | mm 50            |
| Water connections diameter                             | "                |
| Min Temperature of storage tank room                   | °C 1             |
| Heat dispersion (Pes)(B)                               | W 22             |
| Annual energy consumption (average climate)(C)         | kWh/year 1160    |
| Seasonal efficiency(C)                                 | % 144,4          |

## OUTDOOR UNIT

|   |  |
|---|--|
| Refrigerant circuit connections diameter                              | 1/4 & 3/8 flare type                     |
| Empty weight  | kg 32                                    |
| Standard air flow rate  | m³/h 1300                                |
| Max pressure in the refrigerating circuit (Low p side)                | bar 12                                   |
| Max pressure in refrigerating circuit (High p side)                   | bar 27                                   |
| Electrical system protection grade                                    | IP 24                                    |
| Max distance between storage tank and outdoor unit (with/without gas) | m 12/20                                  |
| Max diff in level between storage tank and outdoor unit               | m 10 positive/10 negative <sup>(E)</sup> |
| Addition of gas required  | g/m 25                                   |
| Min diff in level between storage tank and indoor unit                | 2  |

## F-GAS DATA

|                    |         |
|--------------------|---------|
| Refrigerant type   | R134a   |
| Refrigerant charge | g 1100  |
| GWP                | t 1430  |
| CO2 equivalents    | t 1,573 |

## CODE (storage tank + outdoor unit)

|                   |         |
|-------------------|---------|
|                   | 3069757 |
| Energy class      | A+      |
| Tapping profile   | XL      |
| Storage tank code | 3069751 |
| Outdoor unit code | 3629070 |

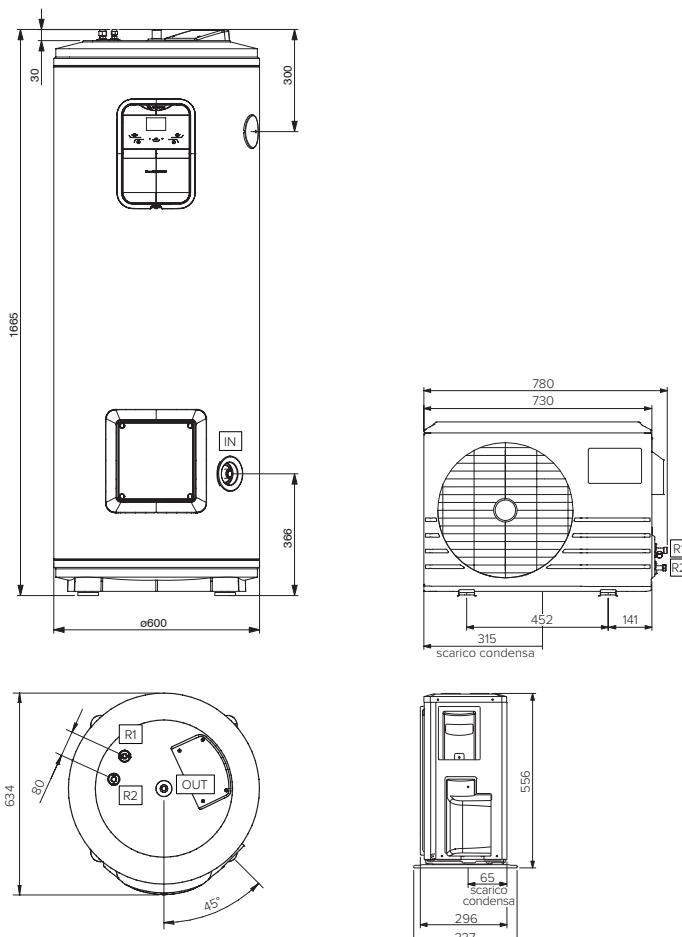
The capacity indicated in this catalogue identifies the product category. The effective capacity of the product is given in the relevant technical documentation provided with the product.



INVERTER

ENERGY  
EFFICIENTPRO  
FESSIONAL  
TECH

SUPER SILENT

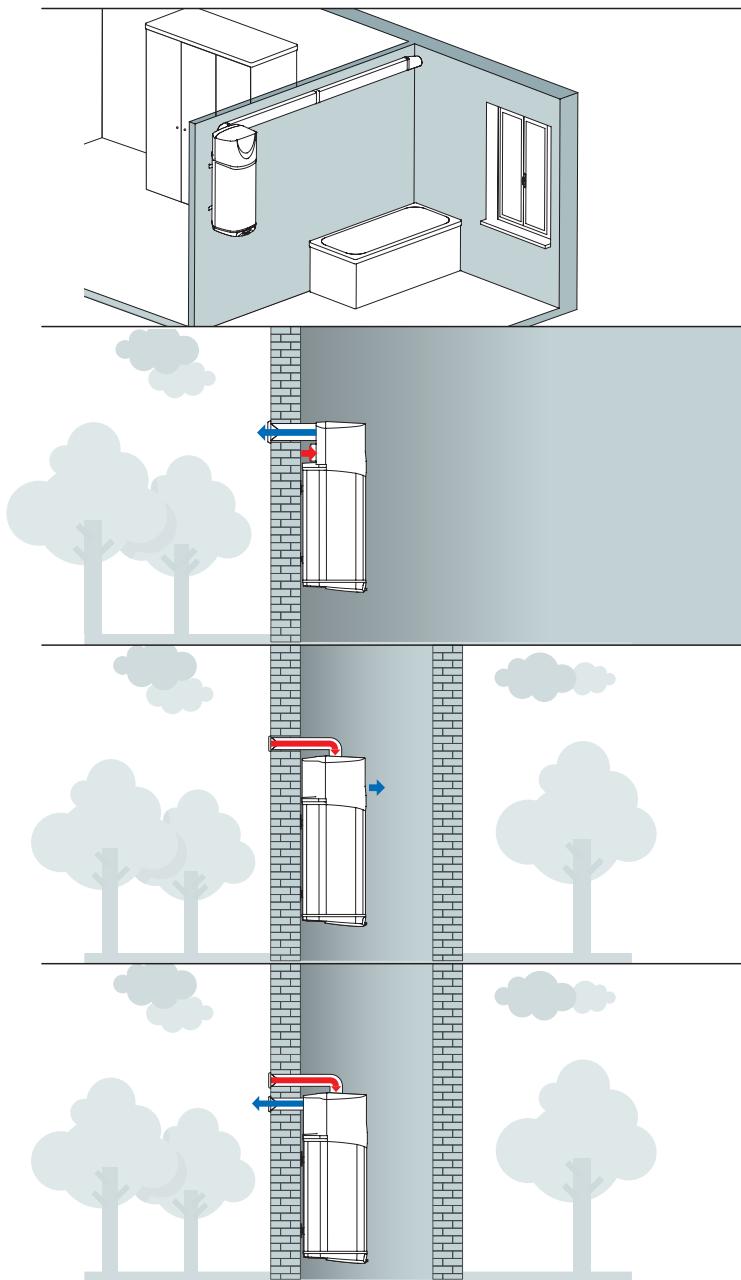
INTEGRATION WITH  
PHOTOVOLTAIC  
SYSTEM

# Monoblock models: air canalization options

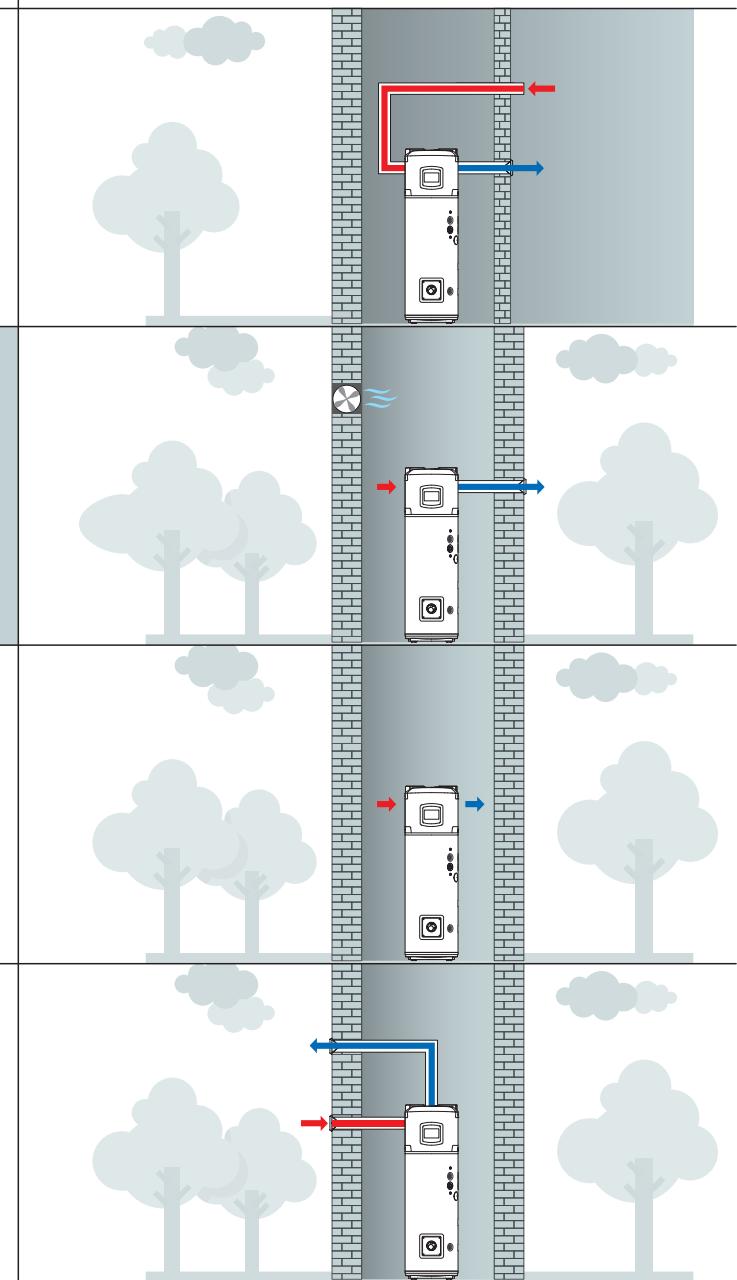
The air can be ducted both on the inlet and on the outlet sides to channel the flow appropriately according to the various situations.

The NUOS range features numerous air accessories to fulfill any installation requirements.

**WALL-HUNG MONOBLOCK  
NUOS EVO A+, NUOS PRIMO**



**FLOOR-STANDING MONOBLOCK  
NUOS PLUS Wi-Fi, NUOS PRIMO HC**

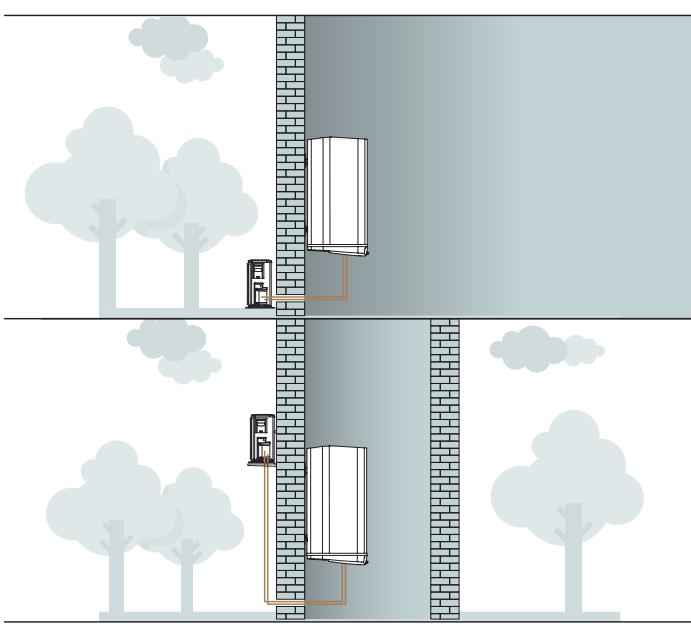


Maximum duct linear lenght of 10 m (duct ø 125 mm)  
(NUOS PRIMO) e 12m (NUOS EVO A+)

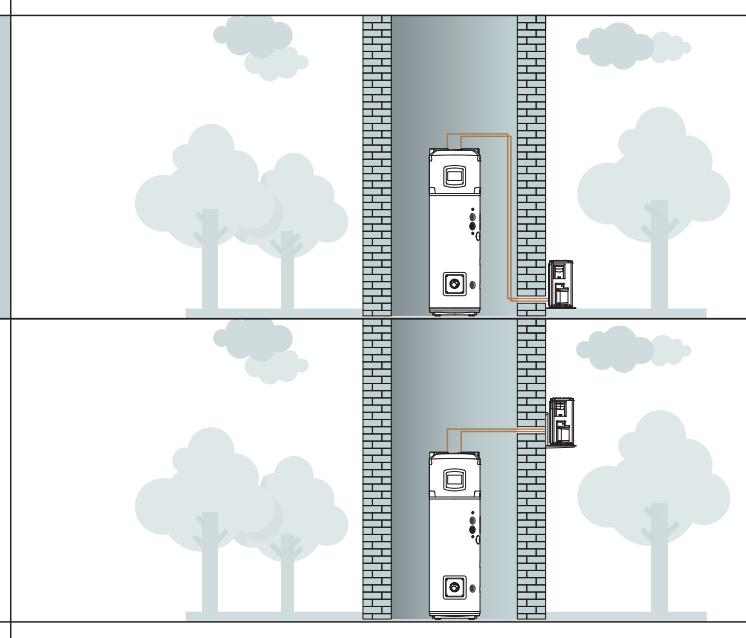
Maximum linear duct lenght of 14m (duct ø 150mm) and 45 m (duct ø 200mm) (NUOS PLUS Wi-Fi) e 8m (NUOS PRIMO HC)

# Split models: installation options

**WALL-HUNG SPLIT 80-110 WH,  
NUOS SPLIT INVERTER Wi-Fi 150-200 WH**



**FLOOR-STANDING SPLIT  
NUOS SPLIT INVERTER Wi-Fi 270 FS**



#### For NUOS SPLIT 80-110 WH:

- Max. linear distance 8 m between the storage tank and the external unit.
- Max. height difference 3 m between the storage tank and the external unit.

#### For NUOS SPLIT INVERTER Wi-Fi 150-200-270 models:

- It is possible to add a refrigerant gas. In this case, the maximum distance between the indoor and outdoor units goes from 12 to 20 m
- Maximum linear distance of 12 m between the storage tank and the outdoor unit with the refrigerant charge supplied as a standard feature
  - Minimum distance equal to 2 m
- Maximum height difference between the two units equal to 10 m (positive)\* or 10 m (negative)\*\*

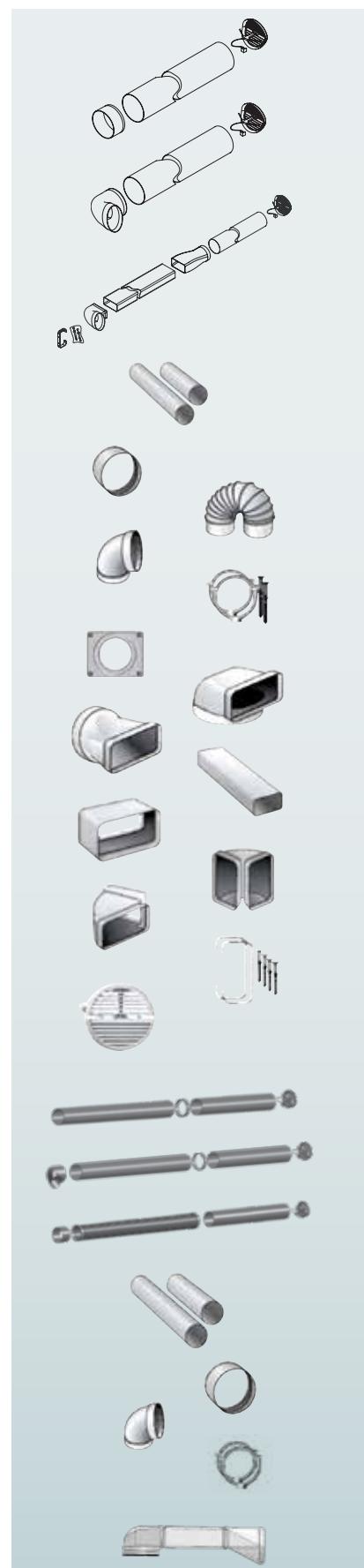
\* Positive: outdoor unit at a level below that of the indoor unit.

\*\* Negative: outdoor unit at a level higher than that of the indoor unit.

In case of a negative difference, mount a trap every 4 m of height difference. For further information, please consult the instruction manual.

# Nuos range accessories

| Canalization ø 125 mm   | Code    | EVO A+ | SPLIT 80-110 | SPLIT INV. Wi-Fi | PRIMO | PRIMO HC | PLUS Wi-Fi |
|---|---------|--------|--------------|------------------|-------|----------|------------|
| <b>PERIMETER WALL NUOS AIR KIT</b><br>Kit made by: ABS connection for pipe ø 125mm; 1 m.l. PVC round pipe ø 125 mm and flexible grates with ø 186 mm springs and hole from ø100 to 160 mm; 15mm thickness.  | 3208052 |        |              |                  | ●     |          |            |
| <b>PERIMETER WALL NUOS AIR KIT</b><br>Kit made by: ABS elbow for pipe ø 125 mm; 1 m.l. PVC round pipe ø 125 mm and flexible grates with ø 186 mm springs and hole from ø 100 mm to 160 mm; 15 mm thickness.   | 3208092 | ●      |              |                  |       |          |            |
| <b>INNER WALL NUOS AIR KIT</b><br>Kit made by: ABS vertical elbow from ø 125 mm to rectangular mm 150x70; 1,5 m.l. PVC rectangular pipe 150x70 mm; ABS horizontal connection from ø 125 mm to rectangular 150x170 mm; 1 m.l. PVC round pipe ø 125 mm; flexible grates with ø 186 mm springs and hole from ø 100 to 160 mm; 15 mm thickness and 2 wall brackets for pipe 150 x 70 mm with screws 5 x 45 and nylon plugs. | 3208053 | ●      |              |                  | ●     |          |            |
| PVC pipe ø125 mm and 1,5 m.l. length  | 3208036 | ●      |              |                  | ●     |          |            |
| PVC pipe ø125 mm and 1,5 m.l. length  | 3208037 | ●      |              |                  | ●     |          |            |
| ABS connection for ø 125 mm round pipe  | 3208038 | ●      |              |                  | ●     |          |            |
| Flexible connection ø 125 mm  | 3208039 | ●      |              |                  | ●     |          |            |
| ABS 90° elbow f.f. ø 125 mm   | 3208040 | ●      |              |                  | ●     |          |            |
| Wall brackets for pipe ø 125 mm with screws 5x45 and nylon plugs  | 3208041 | ●      |              |                  | ●     |          |            |
| ABS cover 190x160 mm for round pipes ø 100- 125   | 3208049 | ●      |              |                  | ●     |          |            |
| ABS vertical elbow from ø 125 mm to rectangular 150x70 mm   | 3208042 | ●      |              |                  | ●     |          |            |
| ABS horizontal connection from Ø 125 mm to rectangular 150x70 mm  | 3208043 | ●      |              |                  | ●     |          |            |
| PVC rectangular pipe 150x70mm and 1,5m.l. length  | 3208044 | ●      |              |                  | ●     |          |            |
| ABS connection for rectangular pipe 150x70 mm   | 3208045 | ●      |              |                  | ●     |          |            |
| ABS vertical elbow for rectangular pipe 150 x 70 mm   | 3208046 | ●      |              |                  | ●     |          |            |
| ABS horizontal elbow for rectangular pipe 150 x 70 mm   | 3208047 | ●      |              |                  | ●     |          |            |
| 2 wall brackets for pipe 150 x 70 mm with screws 5 x 45 and nylon plugs   | 3208048 | ●      |              |                  | ●     |          |            |
| Flexible grates with ø 186 mm springs, hole from ø 100 to 160 mm, 15 mm thickness   | 3208050 | ●      |              |                  | ●     | ●        | ●          |
| Canalization ø150 mm  | Code    | EVO A+ | SPLIT 80-110 | SPLIT INV. Wi-Fi | PRIMO | PRIMO HC | PLUS Wi-Fi |
| <b>AIR KIT WITH RIGID PIPE Ø150 (2,5M)</b><br>The kit consists of flexible grate with springs, two rigid pipes (1 and 1,5 m) and a connector.   | 3208061 |        |              |                  |       | ●        | ●          |
| <b>AIR KIT WITH RIGID PIPE Ø150 (2,5M)</b><br>The kit consists of flexible grate with springs, two rigid pipes (1 and 1,5 m), a connector and an elbow.   | 3208093 | ●      |              |                  |       |          |            |
| <b>AIR KIT WITH RIGID PIPE Ø150 (2,5M)</b><br>The kit consists of flexible grate with springs, two rigid pipes (1 and 1,5 m), a connector and an elbow.   | 3208062 |        |              |                  |       | ●        | ●          |
| Pipe ø150 1 m   | 3208063 | ●      |              |                  |       | ●        | ●          |
| Pipe ø150 1,5 m   | 3208064 | ●      |              |                  |       | ●        | ●          |
| Pipe ø150 0,1m  | 3208065 | ●      |              |                  |       | ●        | ●          |
| Connection ø150   | 3208066 | ●      |              |                  |       | ●        | ●          |
| 90° elbow ø150  | 3208067 | ●      |              |                  |       | ●        | ●          |
| 2 wall brackets for pipe ø150   | 3208068 | ●      |              |                  |       | ●        | ●          |
| Flexible pipe ø150 1 m  | 3208069 | ●      |              |                  |       | ●        | ●          |



|  |             |               |                     |                         |              |                 |                   |
|--|-------------|---------------|---------------------|-------------------------|--------------|-----------------|-------------------|
| Air duct kit for low ceilings (2 pcs)  | 3078167     |               |                     |                         |              | •               |                   |
| <b>Insulated canalization ø160 mm</b>  | <b>Code</b> | <b>EVO A+</b> | <b>SPLIT 80-110</b> | <b>SPLIT INV. Wi-Fi</b> | <b>PRIMO</b> | <b>PRIMO HC</b> | <b>PLUS Wi-Fi</b> |
| INSULATED CANALIZATION KIT<br>Insulated canalization kit Ø 160mm.<br>Expanded polyethylene insulation. Consisting of:<br>- 4 insulated pipes Ø 160mm 1m<br>- 2 insulated wall pipes Ø 160mm 0.5m<br>- 2 90° insulated elbow bends Ø 160mm<br>- 4 joints Ø 160mm<br>- 2 grids for insulated pipes Ø 160mm | 3078088     |               |                     |                         |              |                 | •                 |
| Insulated pipe 1m Ø 160mm  | 3078090     |               |                     |                         |              |                 | •                 |
| Insulated pipe 0,5m Ø 160mm  | 3078091     |               |                     |                         |              |                 | •                 |
| Insulated pipe 0,5m Ø 160mm  | 3078089     |               |                     |                         |              |                 | •                 |
| Insulated joint Ø 160  | 3078093     |               |                     |                         |              |                 | •                 |
| Insulated 90 ° elbow bend Ø 160  | 3078092     |               |                     |                         |              |                 | •                 |
| Grid for insulated pipes Ø 160   | 3078094     |               |                     |                         |              |                 | •                 |
| <b>Canalization ø200 mm</b>  | <b>Code</b> | <b>EVO A+</b> | <b>SPLIT 80-110</b> | <b>SPLIT INV. Wi-Fi</b> | <b>PRIMO</b> | <b>PRIMO HC</b> | <b>PLUS Wi-Fi</b> |
| AIR KIT WITH RIGID PIPE Ø200<br>The kit consists of flexible grate with springs, two rigid pipes (1 and 2 m) and a connector.  | 3208071     |               |                     |                         |              | •               | •                 |
| Pipe ø200 1m   | 3208072     |               |                     |                         |              | •               | •                 |
| Pipe ø200 2m   | 3208073     |               |                     |                         |              | •               | •                 |
| Connection ø200  | 3208074     |               |                     |                         |              | •               | •                 |
| 90° elbow ø200   | 3208075     |               |                     |                         |              | •               | •                 |
| 45° elbow ø200   | 3208076     |               |                     |                         |              | •               | •                 |
| 2 wall brackets for pipe ø200  | 3208077     |               |                     |                         |              | •               | •                 |
| Flexible grate with springs ø165-200   | 3208078     |               |                     |                         |              | •               | •                 |
| Silencer ø200  | 3208085     |               |                     |                         |              | •               | •                 |
| <b>Installation accessories</b>  | <b>Code</b> | <b>EVO A+</b> | <b>SPLIT 80-110</b> | <b>SPLIT INV. Wi-Fi</b> | <b>PRIMO</b> | <b>PRIMO HC</b> | <b>PLUS Wi-Fi</b> |
| Safety hydraulic group ½"  | 877084      | •             | •                   |                         | •            |                 |                   |
| Safety hydraulic group ¾"  | 877085      |               |                     | •                       |              | •               | •                 |
| Siphon 1"  | 877086      | •             | •                   | •                       | •            | •               | •                 |
| External unit wall support   | 704101      |               | •                   | •                       |              |                 |                   |
| External unit floor support  | 3380020     |               | •                   | •                       |              |                 |                   |
| Tripod support   | 3078042     |               |                     | (150-200)               |              |                 |                   |



# New Heat Pump Commercial





Ariston commercial heat pumpe water heaters provide flexible and powerful solutions for applications requiring huge water quantity.

- AR Series - Air To Water
- AR Series - Swimming Pool
- AR Series - Water To Water

# SELECTED PROJECT

## MAX ONE HOTEL BALIKPAPAN COMMERCIAL HEAT PUMP

- 116 Rooms
- 3 SPA
- Heat Pump 21 kW 2 units
- Storage tank 2000 liter



## SUVARNA GOLF - HALIM COMMERCIAL HEAT PUMP

- 78 Rooms
- Heat Pump 45 kW 2 units
- Storage tank 3000 liter 2 Units

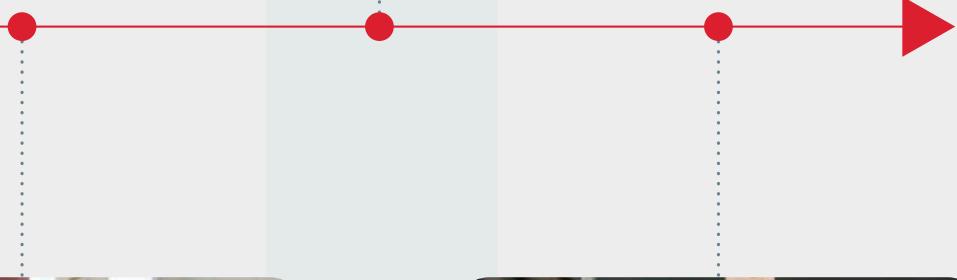


## LOTUS MAS COMMERCIAL HEAT PUMP

- CIP process
- Heat Pump 21 kW 1 units
- Storage tank 1000 liter 1 Units
- Heating element backup up to 90°C

## **RESIDENTIAL HOUSE SWIMMING POOL HEAT PUMP**

- Heat Pump 20 kW
- Swimming pool area 70 m<sup>3</sup>



## **RESIDENTIAL HOUSE SWIMMING POOL HEAT PUMP**

- Heat Pump 6 kW
- Swimming pool area 15 m<sup>3</sup>

## **LUXURY PRIVATE VILLA SWIMMING POOL HEAT PUMP**

- Heat Pump 50 kW 2 units
- Swimming pool area 200 m<sup>3</sup>

# COMMERCIAL PRODUCT RANGE



**Flexible** installation

## Customized solutions for all needs

AR-Series heat pumps come with more complete ranges and constantly guarantee the lowest energy consumption. There are various range models of heat pumps: Commercial air to water swimming pool heat pump and commercial water to water

Unique combination  
of technology  
and style

## COMMERCIAL AIR TO WATER



### Efficiency

- COP > 4
- Copeland compressor (for highest powers)
- Patented tube in shell heat exchange
- R410a ecological refrigerant gas
- Electronic expansion valve

### Ease of

- Friendly HMI with multi-function display
- Water pump embedded (AR-6PM)
- Ready for Modbus RS485

### Safety

- Pressure and temperature sensors and switches
- Defrosting system thanks to a special valve
- Over-current and over-temperature protection

### Comfort

- Hot water up to 60°C
- Fan blade with special «low noise» shape

## COMMERCIAL SWIMMING POOL



### Efficiency

- COP up to more than 5
- Scroll or Rotary compressor
- R410a, ecological refrigerant gas
- Dual coil titanium heat exchanger, corrosion-proof
- Electronic expansion valve

### Ease of use

- Friendly HMI with multi-function display
- Ready for Modbus RS485

### Safety & reliability

- Pressure and temperature sensors and switches
- Defrosting system thanks to a special valve
- Over-current and over-temperature protection

### Comfort

- Hot water up to 45°C
- Cooling mode available up to 8°C
- Fan blade with special «low noise» shape

## COMMERCIAL WATER TO WATER



### Efficiency

- COP > 4
- Copeland compressor
- R134a, ecological refrigerant gas
- Patented tube in shell heat exchanger

### Ease of use

- Friendly interface with LCD display
- Integration with chilled systems
- Compact design and flexible installation
- Ready for Modbus RS485

### Safety & reliability

- Pressure and temperature sensors and switches
- Over-current and over-temperature protection

### Comfort

- Water temperature up to 80°C
- Low noise

# HEAT PUMP TECHNOLOGY

Heat pump commercial uses a thermodynamic cycle to heat the water through the air sucked by the thermal group inverting the heat natural flow. A refrigerant fluid (R134A & R410A), through status changes, compression and expansion cycles, withdraws the heat in the air at low temperature and gives it to domestic water at a higher temperature. This is the reverse mechanism to the one used in refrigerators.

The product electric consumption is only the one necessary to let the fan (that captures the air) and the compressor (that allows the refrigerant fluid to circulate in the system) work.

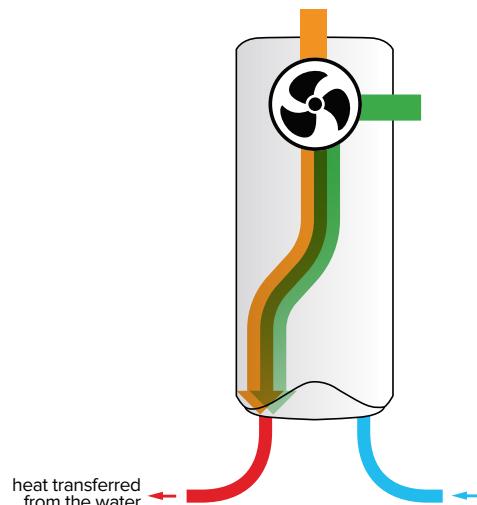
## NUOS ENERGY FORMULA

$$100 = 25 + 75$$

HOT WATER

ELECTRICAL ENERGY

AIR HEAT



## THERMODYNAMIC CYCLE

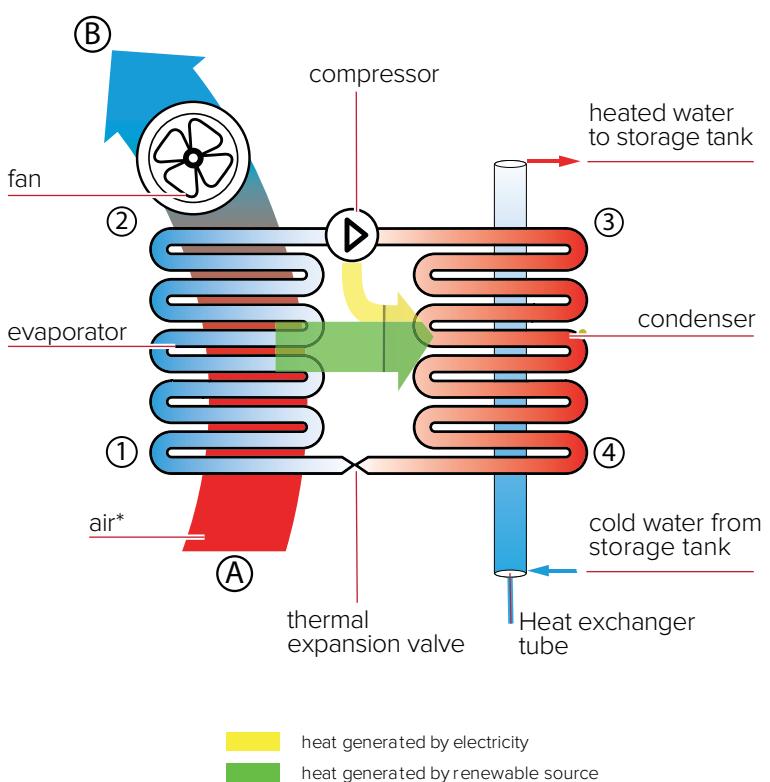
**A-B** External air is aspirated inside the heat pump thanks to a fan; when passing through the fins of the evaporator, the air gives its heat and lose 10°C approx. Finally it is expelled.

**1-2** The refrigerant fluid goes through the evaporator and absorbs the heat given by the air. During this process it changes its physical status and evaporate, keeping temperature and pressure almost constant. (0°C ; 5 bar).

**2-3** The refrigerant fluid crosses the compressor and experiences a pressure rising which involves an increase of temperature. At the end of the process the fluid is overheated vapor and its temperature and pressure are 70°C and 20 bar respectively.

**3-4** Within the condenser, the refrigerant fluid gives its heat to the water which warms up. By doing this, the refrigerant condensate at constant pressure (20 bar) and then experiences a significant reduction of temperature. (70 → 40°C).

**4-1** The refrigerant fluid passes through the lamination valve, suddenly loose both pressure and temperature and partially evaporate thus returning to the initial conditions of temperature and pressure. (40 → 0°C; 5 bar). The thermodynamical cycle can now start over.



# **RENEWABLE ENERGY**

The biggest innovation are usually hidden in what surrounds us everyday. Air, for example, is rich in heat, a free and renewable energy directly coming from the sun. AR-Series manages to extract this clean energy from the air and to use it to heat water. In this way, the electric consumption decreases and your comfort is guaranteed while the environment is protected.

## **EXCLUSIVE TECHNOLOGIES EFFICIENT PRODUCT HIGHER COP**

Heat pump only uses 1/3 of the electric energy necessary to heat water compared to a traditional water heater. The C.O.P. (Coefficient Of Performance) defines the efficiency of the heat pump through the ratio between the energy obtained and the energy given. This parameter is high above one, showing a great advantage in using AR-SERIES. For every 100 units of heat given to the water, only 30 units of electric energy are required while the other 70 units are freely taken from the air.

## **VARIOUS MODELS FLEXIBLE INSTALLATION RANGE**

AR-Series has a wide range of installation scheme based on the customers needs. Starting from hot water for shower and swimming pools.

Beside that, applied ecological technology results in one more positive aspects: air outgoing from the heat pump aid the natural ventilation of the room and increase air quality producing a pleasant refreshing and dehumidifying effect.

# Technical Data

## AR-SERIES



**AR-SERIES - AIR TO WATER**

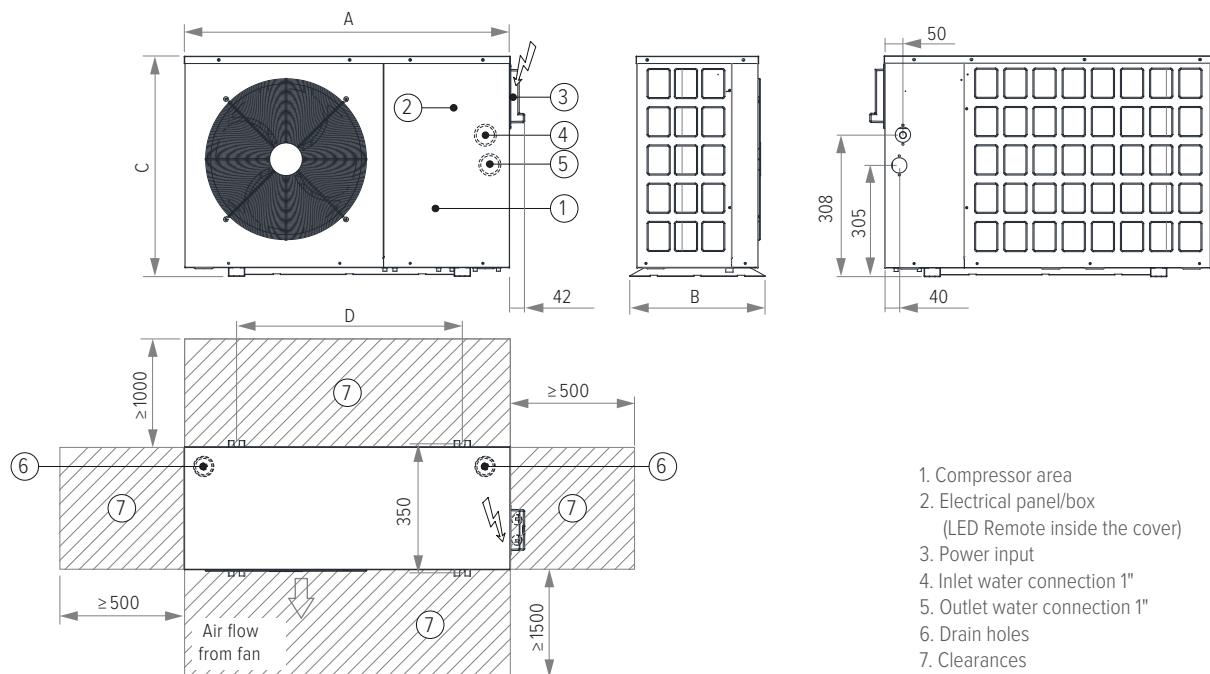
| Technical data         |       | AR-6PM HX MT    | AR-10PM HX MT               |
|------------------------|-------|-----------------|-----------------------------|
| Code                   |       | 3629138         | 3629139                     |
| Heating Capacity       | kW    | 6.80            | 11.6                        |
| Power input            | kW    | 1.65            | 2.49                        |
| COP*                   |       | 4.12            | 4.66                        |
| Hot water volume       | L/H   | 142             | 250                         |
| Max. power input       | kW    | 2               | 3.68                        |
| Max. Running current   | A     | 10.5            | 17.1                        |
| Voltage                | V     | 200~240         | 200~240                     |
| Phase                  |       | Single          | Single                      |
| Frequency              | Hz    | 50              | 50                          |
| Max. water temperature | °C    | 60              | 60                          |
| Operation tem. range   | °C    | -7~45           | -7~45                       |
| Compressor type        |       | Rotary          | Rotary                      |
| Compressor quantity    | unit  | 1               | 1                           |
| Refrigerant type       |       | R410            | R410                        |
| Refrigerant charge     | gram  | -               | -                           |
| Circulation pump       | m³/h  | Available       | -                           |
| Water flow rate        | m³/h  | 1.2             | 2                           |
| Water pressure drop    | kpa   | 36              | 65                          |
| Water connection       | Inch  | 1               | 1                           |
| Fan quantity           | unit  | 1               | 1                           |
| Fan motor input        | watt  | 36              | 85                          |
| Air volume             | m³/h  | -               | 4000                        |
| Noise                  | dB(A) | 59              | 54                          |
| Display                |       | LED             | LED - colorful touch screen |
| Gross wieght           | Kg    | 79              | 105                         |
| Net wieght             | Kg    | 69              | 94                          |
| Box dimension          | mm    | 955 x 410 x 760 | 1020 x 500 x 950            |
| Net dimension          | mm    | 936 x 375 x 605 | 960 x 470 x 910             |

Testing condition : ambient tempererature 20/15 °C, water circulation from 15 to 55 °C.

# Dimensions AR-SERIES

AR-6PM HX MT

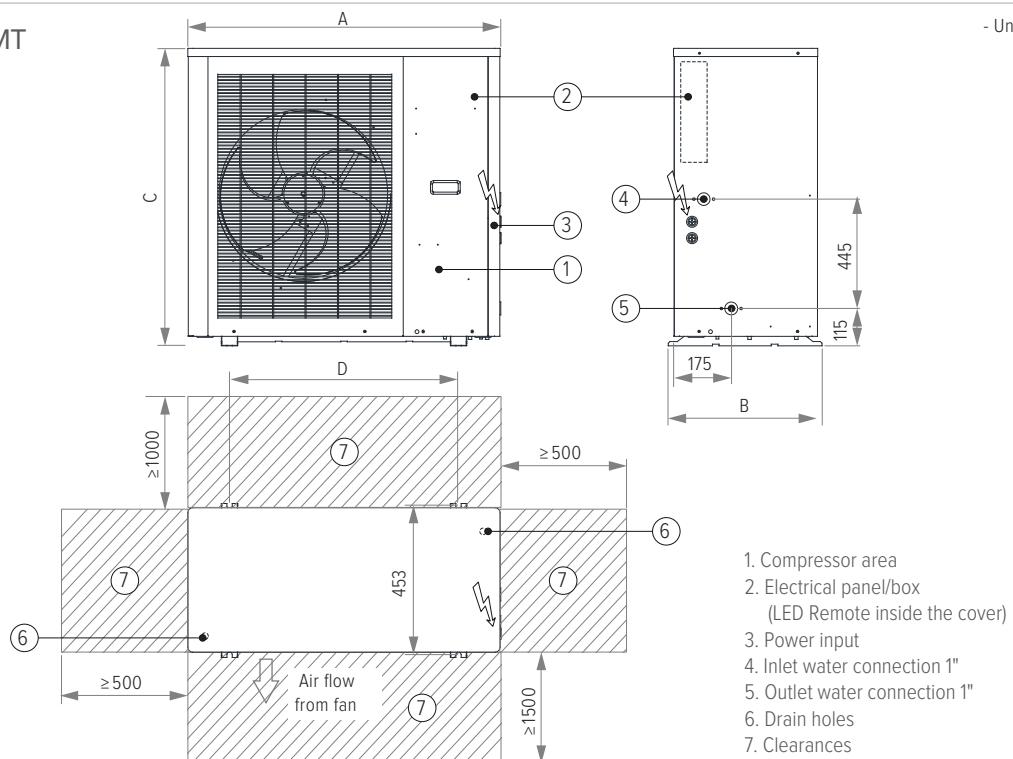
- Unit in mm



1. Compressor area
2. Electrical panel/box  
(LED Remote inside the cover)
3. Power input
4. Inlet water connection 1"
5. Outlet water connection 1"
6. Drain holes
7. Clearances

AR-10PM HX MT

- Unit in mm



1. Compressor area
2. Electrical panel/box  
(LED Remote inside the cover)
3. Power input
4. Inlet water connection 1"
5. Outlet water connection 1"
6. Drain holes
7. Clearances

## AR- SERIES - COMMERCIAL AIR TO WATER

## AR-6PM HX MT

## AR-10PM HX MT

| Size       |    |     |     |
|------------|----|-----|-----|
| Length (A) | mm | 896 | 960 |
| Width (B)  | mm | 372 | 470 |
| Height (C) | mm | 605 | 910 |
| D          | mm | 621 | 700 |

# Technical Data

## AR-SERIES



AR-SERIES - AIR TO WATER

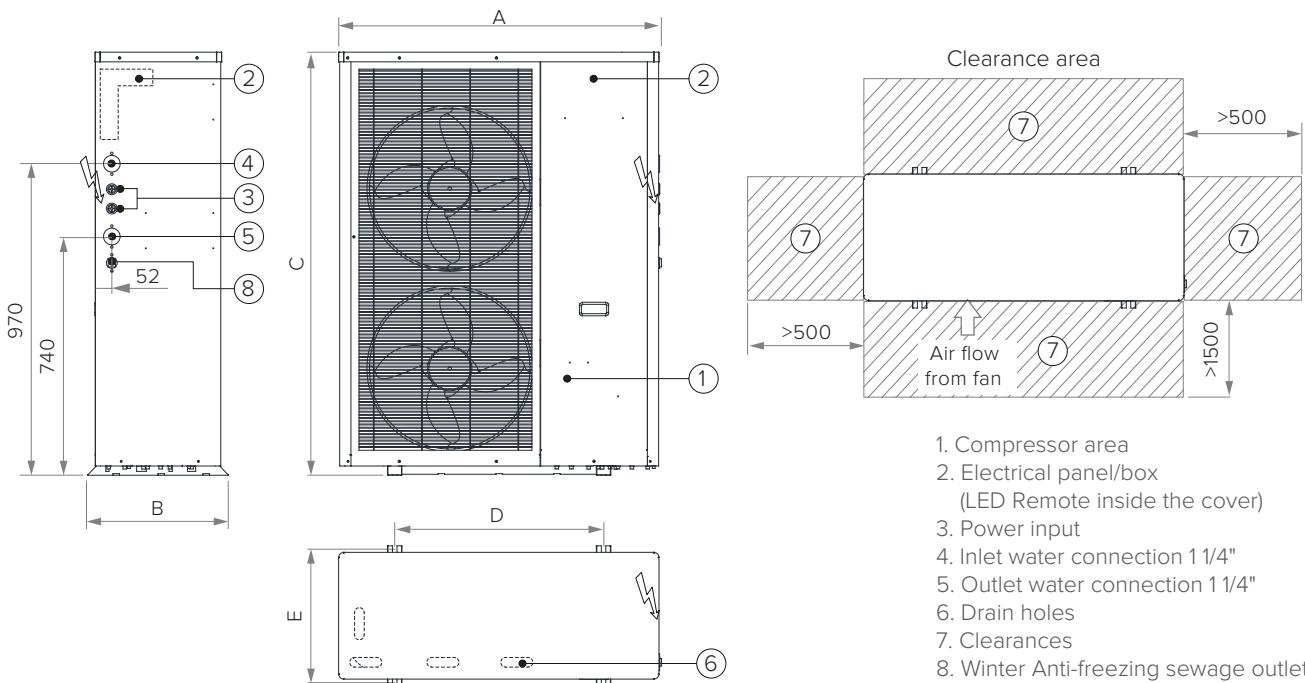
| Technical data         |       | AR-20PTP HX MT              | AR-40PTP HX MT              |
|------------------------|-------|-----------------------------|-----------------------------|
| Code                   |       | 3629140                     | 3629141                     |
| Heating Capacity       | kW    | 23                          | 48                          |
| Power input            | kW    | 4.84                        | 9.97                        |
| COP*                   |       | 4.75                        | 4.81                        |
| Hot water volume       | L/H   | 494                         | 1031                        |
| Max. power input       | kW    | 6.9                         | 14.3                        |
| Max. Running current   | A     | 11.5                        | 24.2                        |
| Voltage                | V     | 380~415                     | 380~415                     |
| Phase                  |       | Three                       | Three                       |
| Frequency              | Hz    | 50                          | 50                          |
| Max. water temperature | °C    | 60                          | 60                          |
| Operation tem. range   | °C    | -15 ~43                     | -15 ~43                     |
| Compressor type        |       | Scroll                      | Scroll                      |
| Compressor quantity    | unit  | 2                           | 2                           |
| Refrigerant type       |       | R410                        | R410                        |
| Refrigerant charge     | gram  | -                           | -                           |
| Circulation pump       | m³/h  | -                           | -                           |
| Water flow rate        | m³/h  | 4                           | 8.3                         |
| Water pressure drop    | kpa   | 129                         | 110                         |
| Water connection       | Inch  | 1 1/4                       | 1 1/2                       |
| Fan quantity           | unit  | 2                           | 2                           |
| Fan motor input        | watt  | 75 x 2                      | 200 x2                      |
| Air volume             | m³/h  | 3340 x 2                    | 5500 x 2                    |
| Noise                  | dB(A) | 56                          | 61                          |
| Display                |       | LED - colorful touch screen | LED - colorful touch screen |
| Gross wieght           | Kg    | 163                         | 391                         |
| Net wieght             | Kg    | 154                         | 350                         |
| Box dimension          | mm    | 1070 x 450 x 1445           | 1830 x 880 x 1900           |
| Net dimension          | mm    | 1000 x 395 x 1215           | 1700 x 800 x 1735           |

Testing condition : ambient tempererature 20/15°C, water circulation from 15 to 55°C.

# Dimensions AR-SERIES

AR-20PTP HX MT

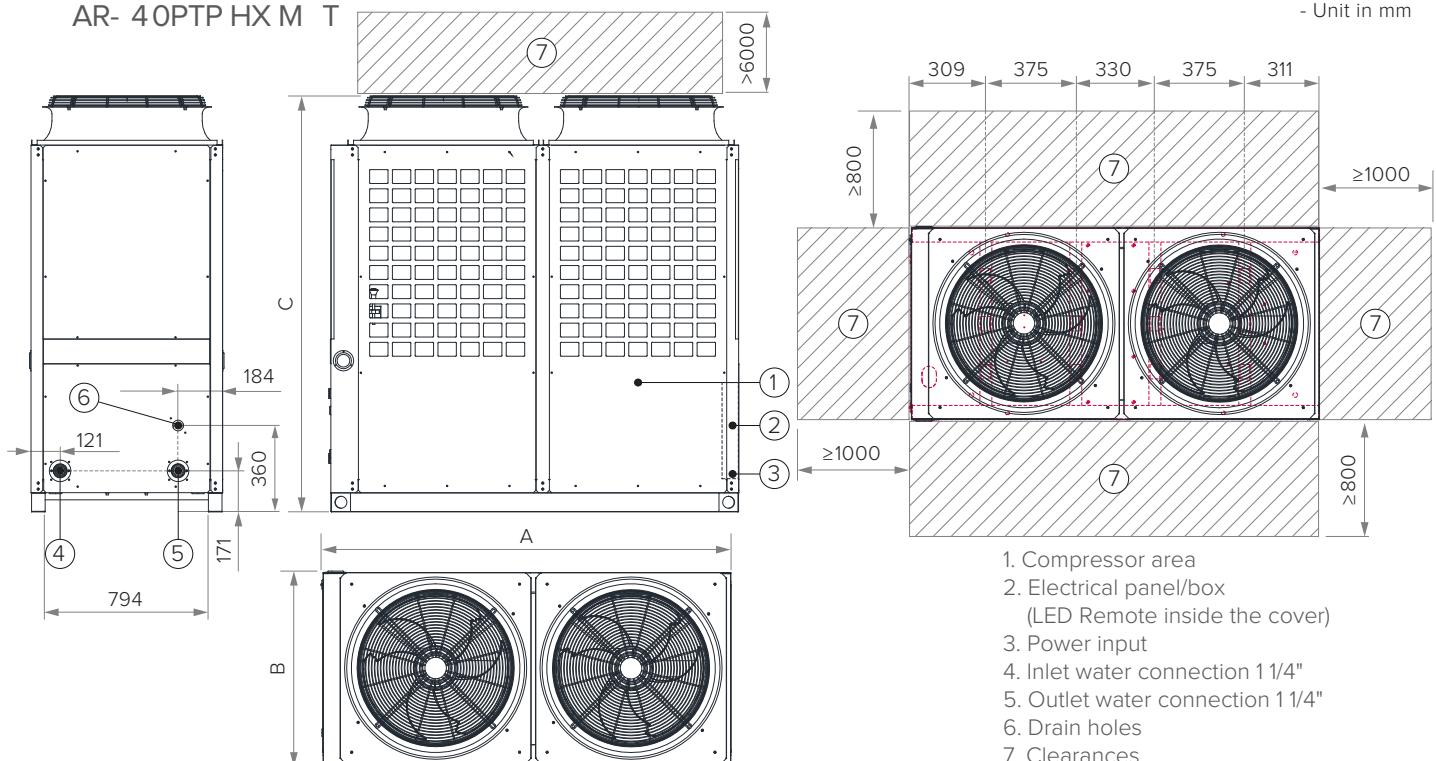
- Unit in mm



1. Compressor area
2. Electrical panel/box  
(LED Remote inside the cover)
3. Power input
4. Inlet water connection 1 1/4"
5. Outlet water connection 1 1/4"
6. Drain holes
7. Clearances
8. Winter Anti-freezing sewage outlet

AR- 40PTP HX M T

- Unit in mm



1. Compressor area
2. Electrical panel/box  
(LED Remote inside the cover)
3. Power input
4. Inlet water connection 1 1/4"
5. Outlet water connection 1 1/4"
6. Drain holes
7. Clearances

AR- SERIES - COMMERCIAL AIR TO WATER

AR-20PTP HX MT

AR-40STP HX MT

Size

|            |    |      |      |
|------------|----|------|------|
| Length (A) | mm | 1000 | 1700 |
| Width (B)  | mm | 440  | 800  |
| Height (C) | mm | 1315 | 1735 |
| D          | mm | 650  | -    |
| E          | mm | 397  | -    |

# Technical Data AR- SERIES



**AR-SERIES - AIR TO WATER**

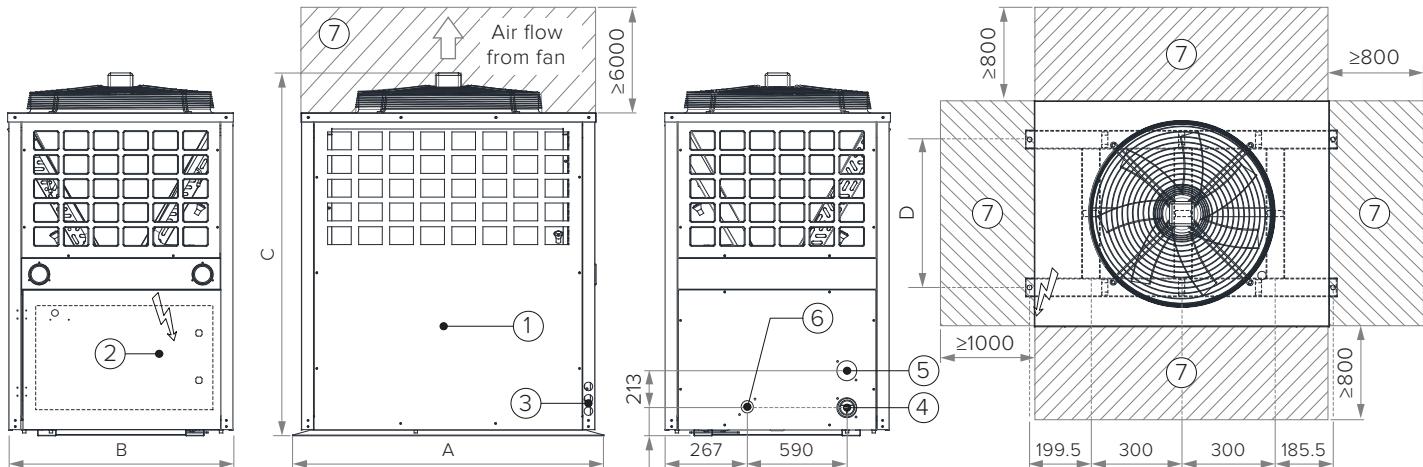
| Technical data         |       | AR-20STP HX MT     | AR-50STP HX MT     |
|------------------------|-------|--------------------|--------------------|
| Code                   |       | 3629136            | 3629137            |
| Heating Capacity       | kW    | 24                 | 47                 |
| Power input            | kW    | 4.77               | 9.3                |
| COP*                   |       | 5.03               | 5.05               |
| Max. power input       | kW    | 5.72               | 11.2               |
| Max. Running current   | A     | 11.2               | 19.3               |
| Voltage                | V     | 380                | 380                |
| Phase                  |       | Three              | Three              |
| Frequency              | Hz    | 50                 | 50                 |
| Max. water temperature | °C    | -                  | -                  |
| Operation tem. range   | °C    | -                  | -                  |
| Compressor type        |       | Scroll             | Scroll             |
| Compressor quantity    | unit  | 1                  | 2                  |
| Refrigerant type       |       | R410               | R410a              |
| Refrigerant charge     | Kg    | 2.7                | 2 x 2.4            |
| Water flow rate        | m³/h  | 9                  | 15                 |
| Fan quantity           | Units | 1                  | 2                  |
| Fan motor input        | Watt  | 120                | 2 x 200            |
| Water connection       | Inch  | 1 1/2              | 2                  |
| Noise                  | unit  | 58                 | 61                 |
| Display                | watt  | LED - touch screen | LED - touch screen |
| Gross wieght           | Kg    | 185                | 295                |
| Net wieght             | Kg    | 146                | 260                |
| Box dimension          | mm    | 1070 x 780 x 1350  | 1520 x 790 x 1340  |
| Net dimension          | mm    | 1015 x 75 x 1130   | 1464 x 735 x 1340  |

Testing condition : ambient tempererature 27 °C / 24.3°C, inlet water 26 °C.

\*According to IEC/EN 60335-1

# Dimensions AR-SERIES

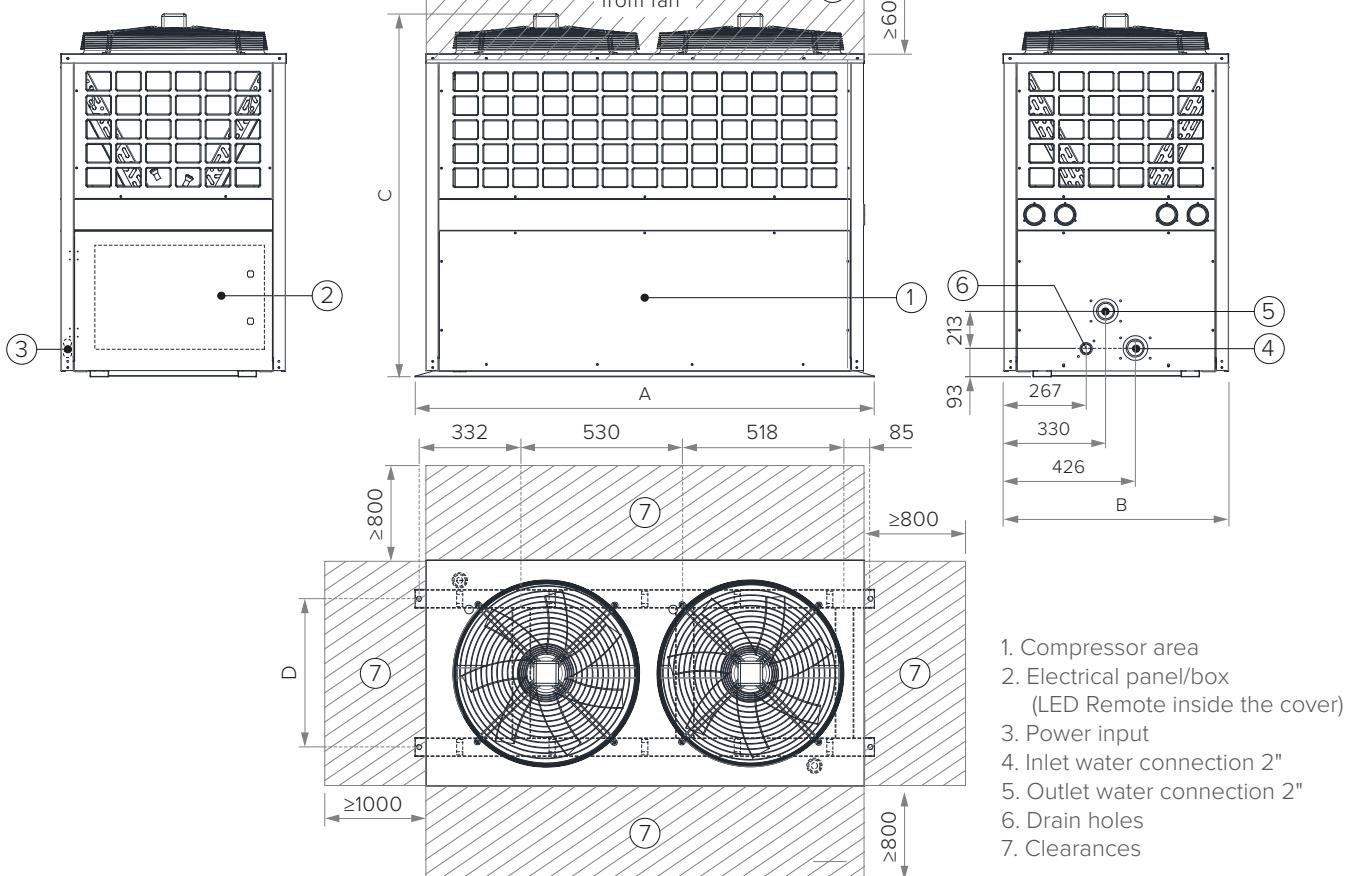
## AR-20STP HX MT



1. Compressor area
2. Electrical panel/box  
(LED Remote inside the cover)
3. Power input

4. Inlet water connection 1 1/2"
5. Outlet water connection 1 1/2"
6. Drain holes
7. Clearances

## AR-50STP HX MT



1. Compressor area
2. Electrical panel/box  
(LED Remote inside the cover)
3. Power input
4. Inlet water connection 2"
5. Outlet water connection 2"
6. Drain holes
7. Clearances

## AR- SERIES - COMMERCIAL AIR TO WATER

## AR-20STP HX MT

## AR-50STP HX MT

### Size

| Length (A) | mm | 1015 | 1490 |
|------------|----|------|------|
| Width (B)  | mm | 735  | 728  |
| Height (C) | mm | 1130 | 1130 |
| D          | mm | 480  | 480  |

# Technical Data AR-SERIES



**AR-SERIES - SWIMMING POOL**

| Technical data         |       | AR-6SM HX MT       | AR-8SM HX MT       | AR-12SM HX MT      |
|------------------------|-------|--------------------|--------------------|--------------------|
| Code                   |       | 3629133            | 3629134            | 3629135            |
| Heating Capacity       | kW    | 5.95               | 8.47               | 11.6               |
| Power input            | kW    | 1.04               | 1.45               | 1.98               |
| COP*                   |       | 4.44               | 5.84               | 5.85               |
| Max. power input       | kW    | 1.34               | 2.01               | 2.65               |
| Max. Running current   | A     | 5.86 / 6.1         | 8.93               | 11.8               |
| Voltage                | V     | 230                | 230                | 230                |
| Phase                  |       | Single             | Single             | Single             |
| Frequency              | Hz    | 50                 | 50                 | 50                 |
| Max. water temperature | °C    | -                  | -                  | -                  |
| Operation tem. range   | °C    | -                  | -                  | -                  |
| Compressor type        |       | Rotary             | Rotary             | Rotary             |
| Compressor quantity    | unit  | 1                  | 1                  | 1                  |
| Refrigerant type       |       | R410               | R410               | R410               |
| Refrigerant charge     | Kg    | 0.55               | 0.8                | 1                  |
| Water flow rate        | m³/h  | 2.3                | 3                  | 4.5                |
| Fan quantity           | Units | 1                  | 1                  | 1                  |
| Fan motor input        | Watt  | 90                 | 90                 | 120                |
| Water connection       | Inch  | 1 1/2              | 1 1/2              | 1 1/2              |
| Noise                  | unit  | 50                 | 52                 | 54                 |
| Display                | watt  | LED - touch screen | LED - touch screen | LED - touch screen |
| Gross wieght           | Kg    | 44                 | 62                 | 67                 |
| Net wieght             | Kg    | 39                 | 56                 | 58                 |
| Box dimension          | mm    | 846 x 330 x 590    | 1040 x 415 x 615   | 1040 x 415 x 615   |
| Net dimension          | mm    | 765 x 280 x 600    | 765 x 280 x 600    | 765 x 280 x 600    |

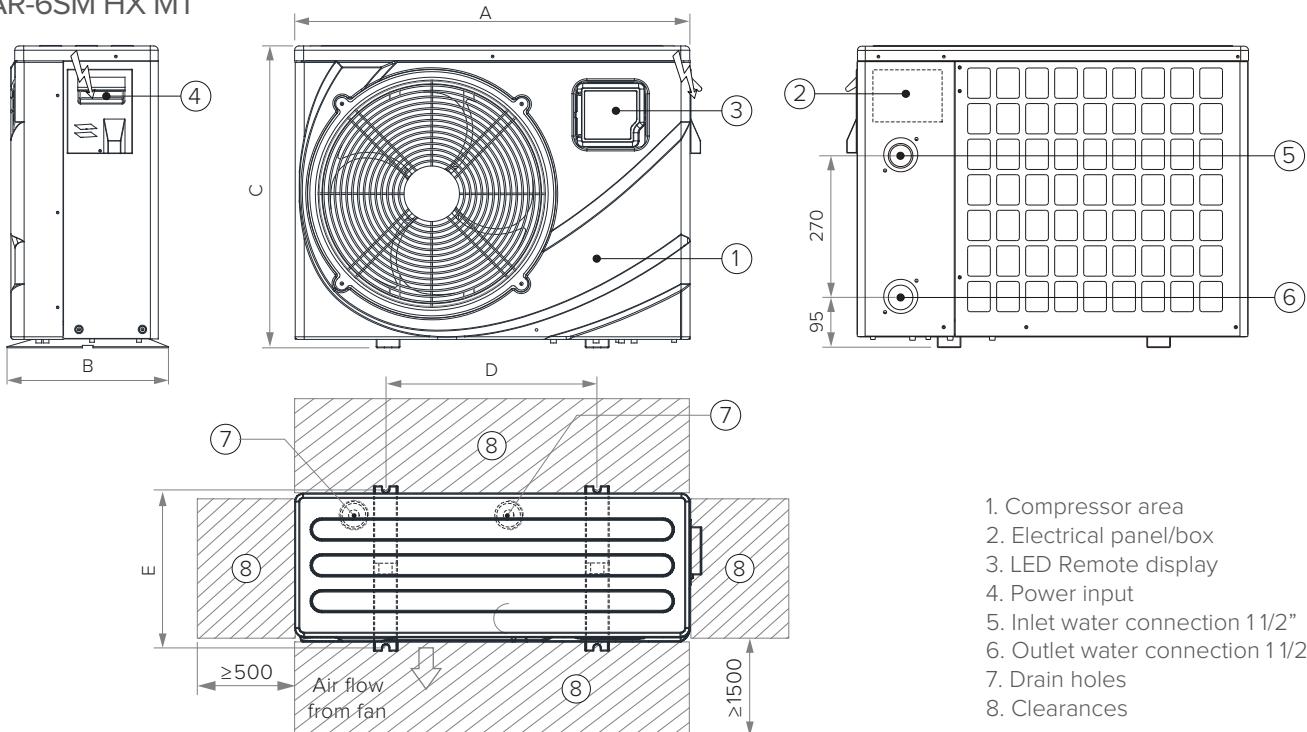
Testing condition : ambient tempereture 27 °C / 24.3°C, inlet water 26 °C.

\*According to IEC/EN 60335-1

# Dimensions AR-SERIES

AR-6SM HX MT

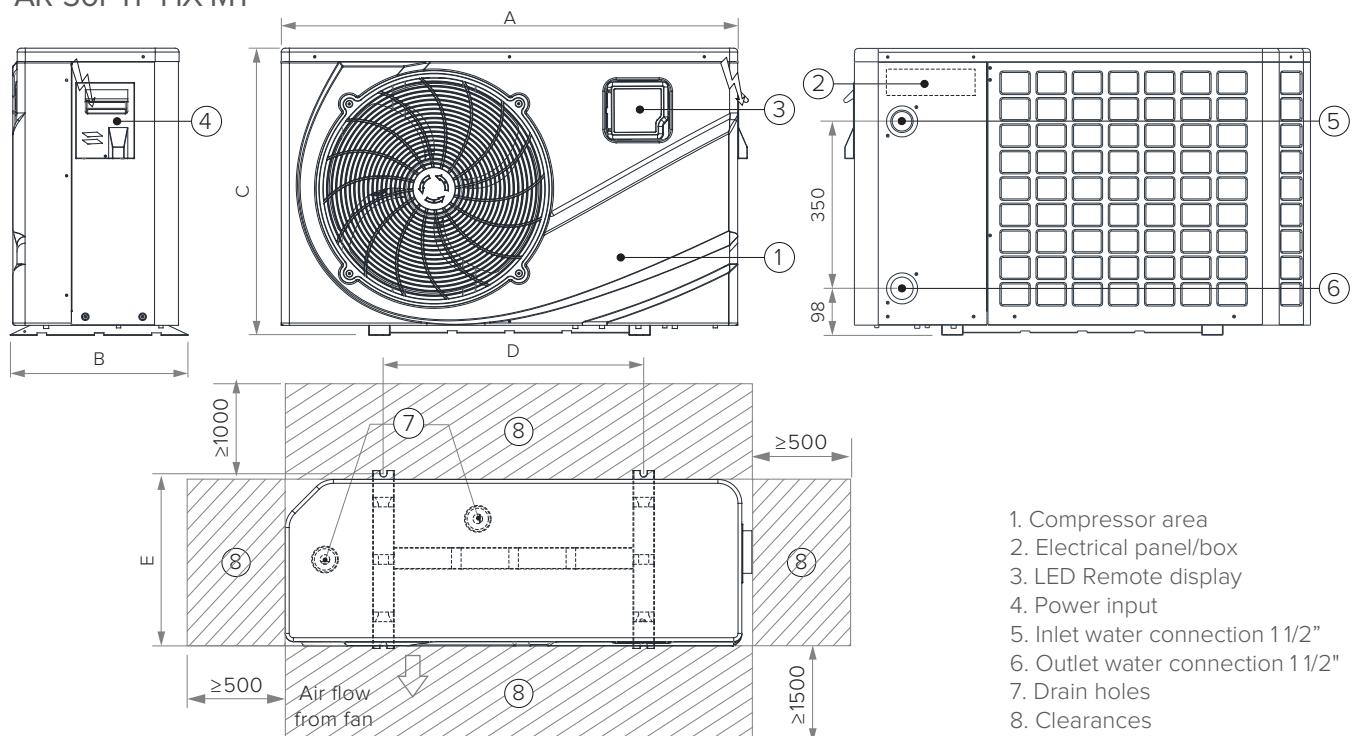
- Unit in mm



1. Compressor area
2. Electrical panel/box
3. LED Remote display
4. Power input
5. Inlet water connection 1 1/2"
6. Outlet water connection 1 1/2"
7. Drain holes
8. Clearances

AR-50PTP HX MT

- Unit in mm



1. Compressor area
2. Electrical panel/box
3. LED Remote display
4. Power input
5. Inlet water connection 1 1/2"
6. Outlet water connection 1 1/2"
7. Drain holes
8. Clearances

AR- SERIES - COMMERCIAL AIR TO WATER

AR-6SM HX MT

AR-8SM HX MT

AR-12SM HX MT

## Size

| Length (A) | mm | 765 | 956 | 956 |
|------------|----|-----|-----|-----|
| Width (B)  | mm | 305 | 372 | 372 |
| Height (C) | mm | 580 | 600 | 600 |
| D          | mm | 400 | 545 | 545 |
| E          | mm | 280 | 360 | 360 |

# Technical Data AR-SERIES



NEW Heat Max Water Source Heat Pump Water Heaters

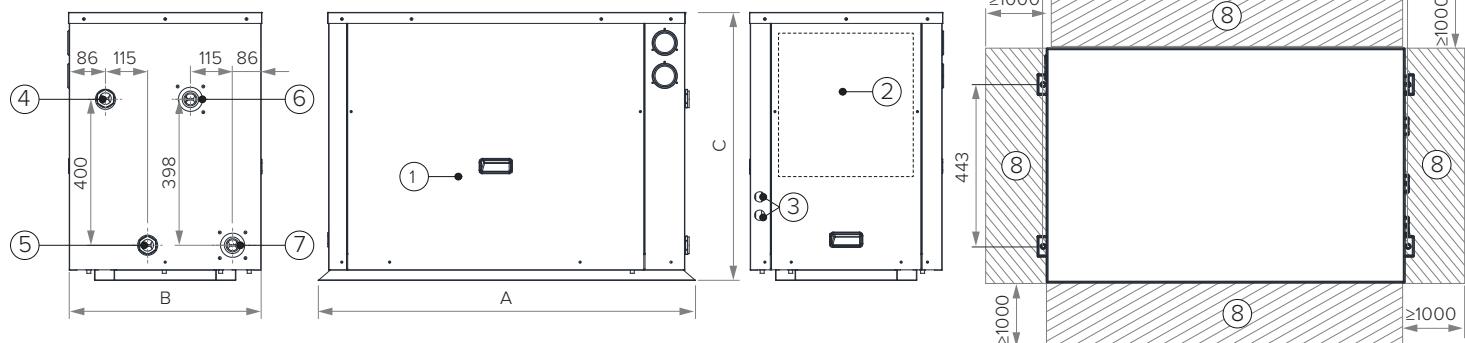
| Technical data             |                          | AR-40WTP HX  | AR-80WTP HX   | AR-160WTP HX   |
|----------------------------|--------------------------|--|---------------|----------------|
| *Heating Capacity          | kW                       | 40.0   | 80.0          | 160.0          |
| *Cooling Capacity          | kW                       | 30.0   | 60.0          | 120.0          |
| *Power Input               | kW                       | 8.5  | 17.0          | 34.0           |
| *COP                       | W                        | 4.71   | 4.71          | 4.71           |
| *EER                       | W                        | 3.53   | 3.53          | 3.53           |
| **Heating Capacity         | kW                       | 34.4   | 68.5          | 137.6          |
| **Cooling Capacity         | kW                       | 26.0   | 52.1          | 104.1          |
| **Power Input              | kW                       | 8.0  | 18.0          | 32.0           |
| **COP                      | W                        | 4.30   | 4.30          | 4.30           |
| **EER                      | W                        | 3.25   | 3.25          | 3.25           |
| Max. Power Input           | kW                       | 14.8   | 29.2          | 58.4           |
| Max. Running Current       | A                        | 27   | 54            | 108            |
| Power Supply               | V/Ph/Hz                  | 380V~415V/3N~/50Hz                                       |               |                |
| Compressor Type            | /                        | Copeland ZW150KBE-TFP-522 Scroll Compressor              |               |                |
| Compressor Quantity        | /                        | 1  | 2             | 4              |
| *Evaporator                | Type                     | PHNIX Patented Tube in Shell Heat Exchanger              |               |                |
|                            | Water Flow(m³/h)         | 4.5  | 9.0           | 18.0           |
|                            | Water pressure drop(kPa) | 45.0   | 40.0          | 37.0           |
|                            | Water Connection         | DN40   | DN65          | DN80           |
| *Condenser                 | Type                     | PHNIX Patented Tube in Shell Heat Exchanger              |               |                |
|                            | Water Flow(m³/h)         | 6.0  | 12.0          | 24.0           |
|                            | Water pressure drop(kPa) | 75.0   | 70.0          | 66.0           |
|                            | Water Connection         | DN40   | DN65          | DN80           |
| Noise                      | dB(A)                    | 65.0   | 68            | 69             |
| Refrigerant                | /                        | R134a  |               |                |
| Controller                 | /                        | PHNIX Controller   |               |                |
| Display                    | /                        | 5 Inch Colorful Touch Display                            |               |                |
| Max.Outlet Water Temp.     | °C                       | 80   |               |                |
| Cabinet                    | /                        | Eco-friendly Galvanized Metal/Stainless Steel for option |               |                |
| Net Weight                 | kg                       | 202  | 441           | 836            |
| Net Dimensions(L/W/H)      | mm                       | 1030*640*730   | 1172*900*1365 | 1600*1130*1500 |
| Shipping Dimensions(L/W/H) | mm                       | 1130*710*910   | 1360*960*1520 | 1790*1210*1670 |

\*Testing Condition Evaporator Side inlet/outlet:25/20°C; Condenser Side inlet/outlet:50/55°C

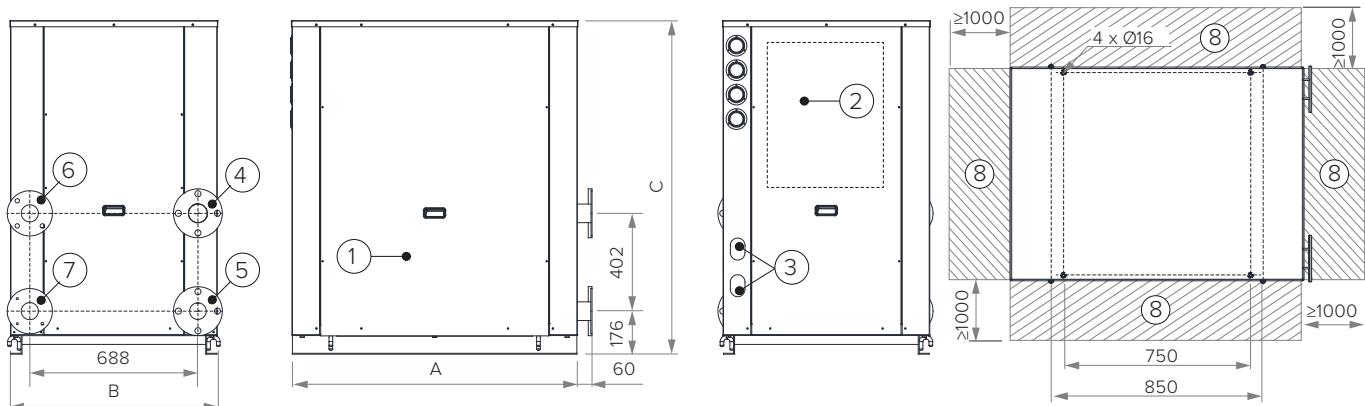
\*\*Testing Condition Evaporator Side inlet/outlet:20/15°C; Condenser Side inlet/outlet: 50/55°C

# Dimensions AR-SERIES

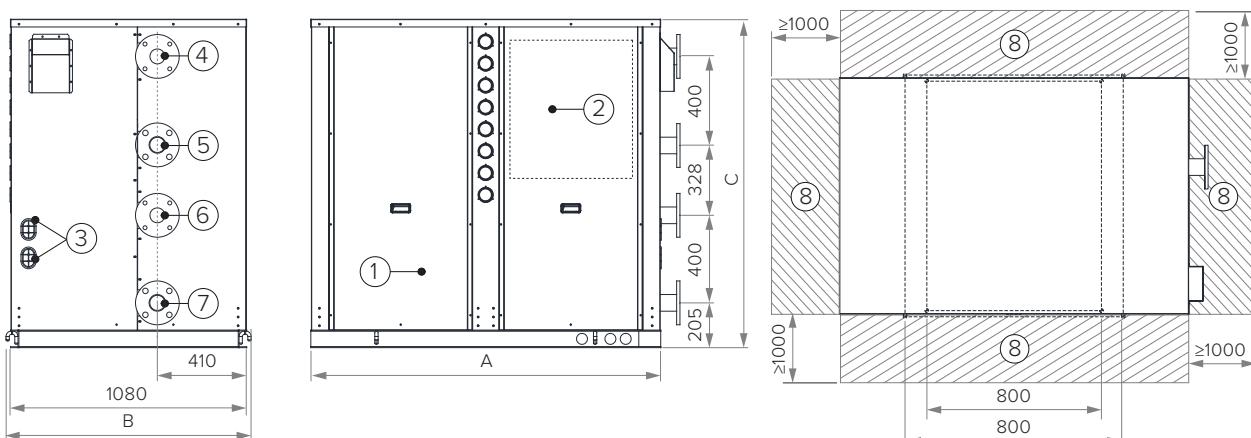
AR-40WTP HX MT



AR-80WTP HX MT



AR-160WTP HX MT



1. Compressor area
2. Electrical panel/box
3. Power input
4. Heat water outlet
5. Heat water inlet
6. Cold water inlet
7. Cold water outlet

5. Heat water inlet
6. Cold water inlet
7. Cold water outlet
8. Clearances

AR-SERIES - COMMERCIAL AIR TO WATER

AR-40WTP HX MT

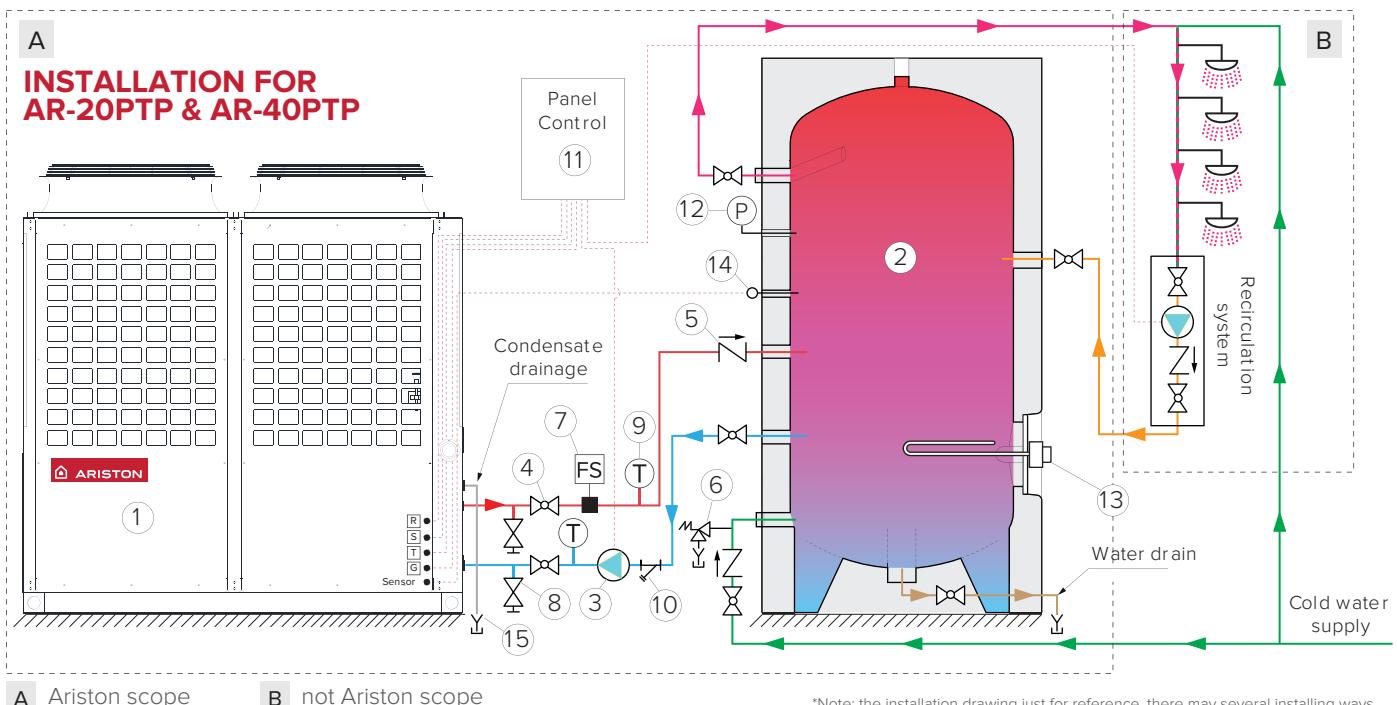
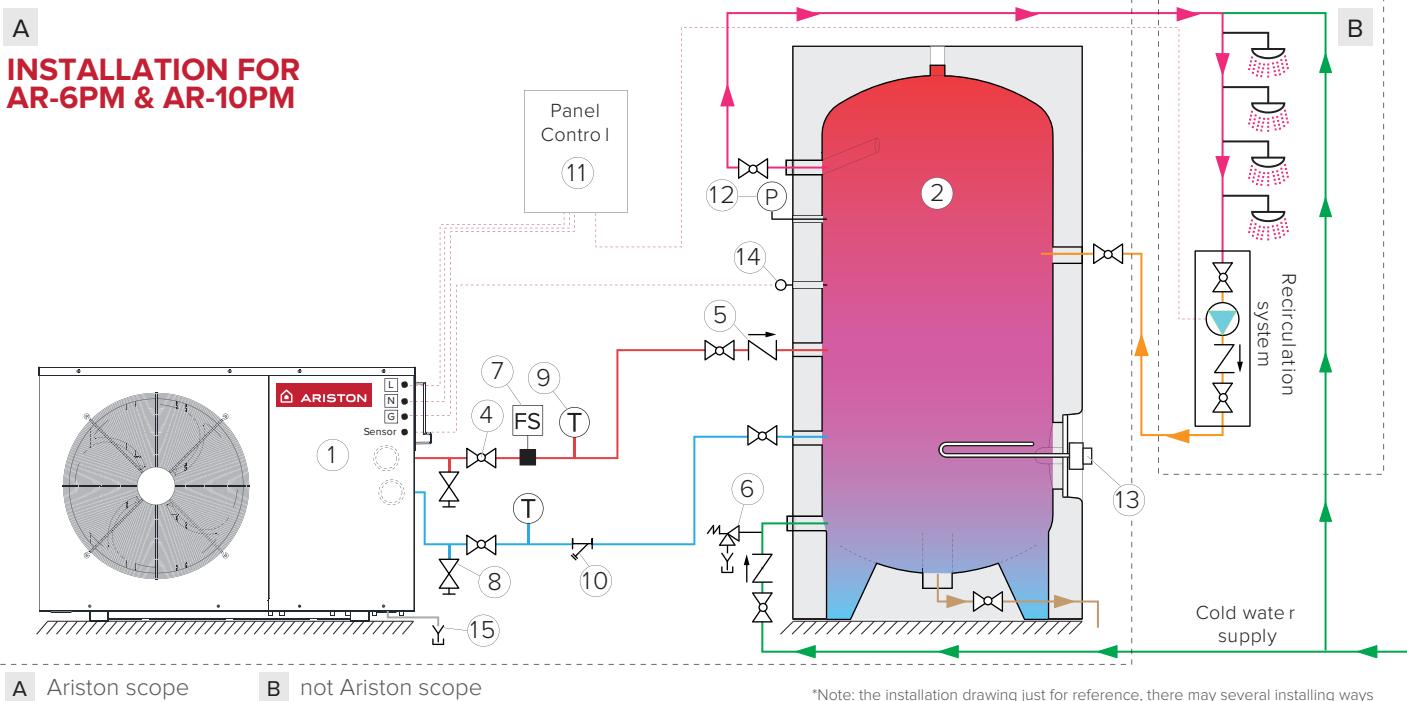
AR-80WTP HX MT

AR-160WTP HX MT

Size

| Length (A) | mm | 973 | 1172 | 1600 |
|------------|----|-----|------|------|
| Width (B)  | mm | 524 | 900  | 1130 |
| Height (C) | mm | 730 | 1365 | 1500 |

# Installation Schemes



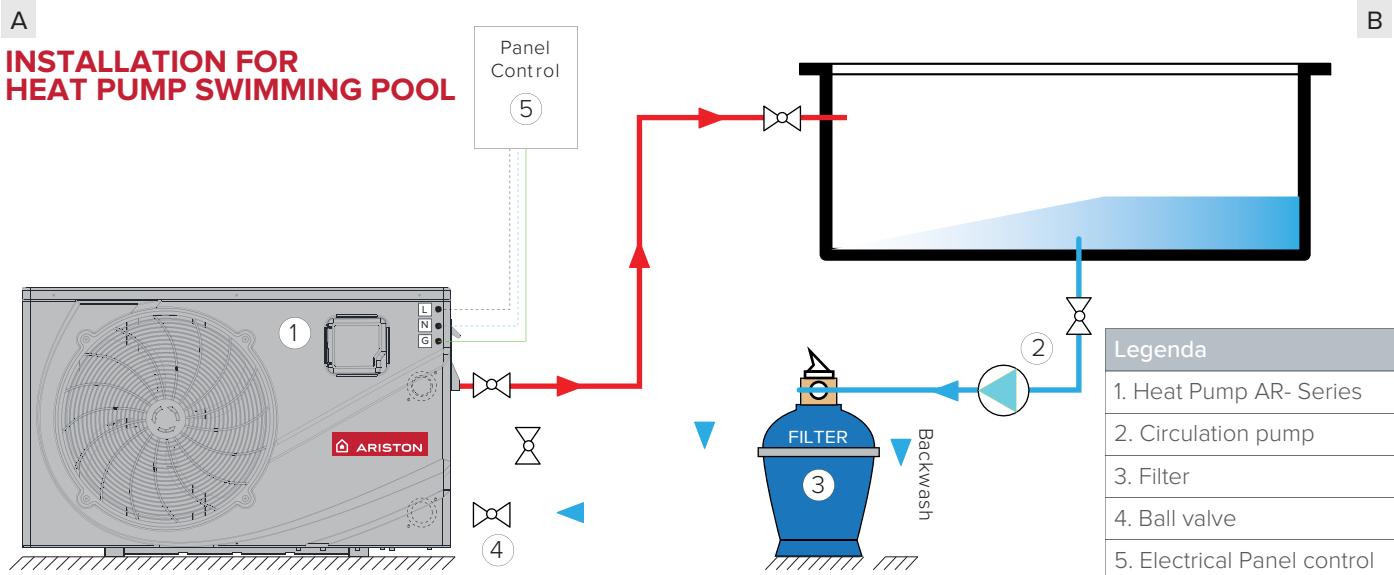
## Legenda

|   |    |                              |     |                            |
|---|----|------------------------------|-----|----------------------------|
| Cold water supply                             | 1. | Heat Pump AR-Series          | 9.  | Thermometer                |
| Hot water supply                              | 2. | Storage tank (Ariston/Local) | 10. | Y-Strainer                 |
| Hot water shower (mixing)                     | 3. | Circulation pump             | 11. | Electric panel control     |
| Cold water circulation from tank to heat pump | 4. | Ball valve                   | 12. | Pressure gauge             |
| Hot water circulation from heat pump to tank  | 5. | Check valve/One way valve    | 13. | Heating element (optional) |
| Recirculation                                 | 6. | Safety valve                 | 14. | Hot water sensor           |
| Condensate drain                              | 7. | Flow switch                  | 15. | Drainage                   |
| Water drain (tank)                            | 8. | Drain & maintenance valve    |     |                            |

# Installation Schemes

A

## INSTALLATION FOR HEAT PUMP SWIMMING POOL

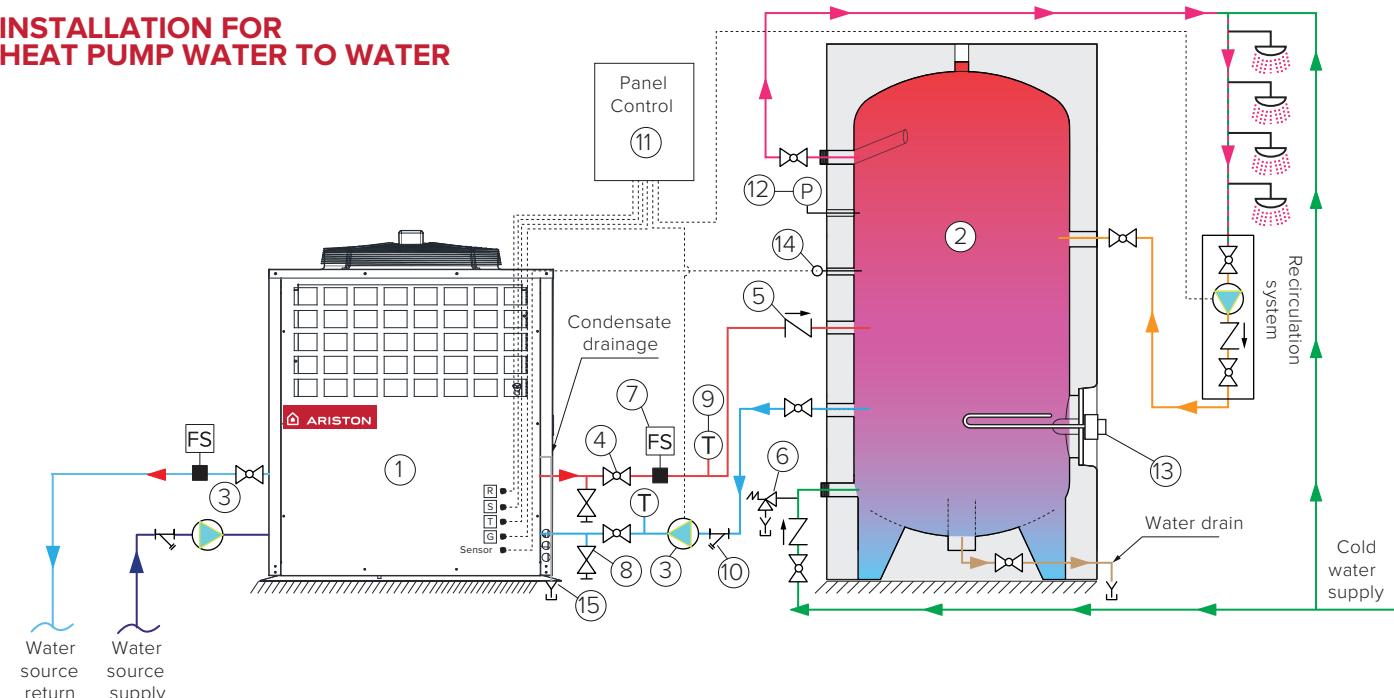


A Ariston scope

B not Ariston scope

\*Note: the installation drawing just for reference, there may several installing ways.  
for other models (AR-20STP/AR-50STP), the installation is more or less the same, only the power source is different.

## INSTALLATION FOR HEAT PUMP WATER TO WATER



\*Note: the installation drawing just for reference, there may several installing ways.

\*Note: the installation drawing just for reference, there may several installing ways.

### Legenda

|   |                                 |                                |
|---|---------------------------------|--------------------------------|
| Cold water supply                             | 1. Heat Pump AR-Series          | 9. Thermometer                 |
| Hot water supply                              | 2. Storage tank (Ariston/Local) | 10. Y-Strainer                 |
| Hot water shower (mixing)                     | 3. Circulation pump             | 11. Electric panel control     |
| Cold water circulation from tank to heat pump | 4. Ball valve                   | 12. Pressure gauge             |
| Hot water circulation from heat pump to tank  | 5. Check valve/One way valve    | 13. Heating element (optional) |
| Recirculation                                 | 6. Safety valve                 | 14. Hot water sensor           |
| Condensate drain                              | 7. Flow switch                  | 15. Drainage                   |
| Water drain (tank)                            | 8. Drain & maintenance valve    |                                |



**ARISTON SERVICE**

## **ARISTON PROVIDE THE BEST SERVICE FOR CUSTOMERS**

Visit our site to get information about products, features, advantages and dimensions of our products.

The service network that is spread in various big cities in Indonesia is the main form of our service to our loyal customers.

### **Ariston Service Network**

|               |            |           |              |               |               |
|---------------|------------|-----------|--------------|---------------|---------------|
| ❖ Jabodetabek | ❖ Bangka   | ❖ Jember  | ❖ Manado     | ❖ Samarinda   | ❖ Yogyakarta  |
| ❖ Bandung     | ❖ Blitar   | ❖ Kediri  | ❖ Medan      | ❖ Pontianak   | ❖ Garut       |
| ❖ Batam       | ❖ Cirebon  | ❖ Lampung | ❖ Pekanbaru  | ❖ Semarang    | ❖ Tasikmalaya |
| ❖ Balikpapan  | ❖ Cianjur  | ❖ Makasar | ❖ Padang     | ❖ Solo        | ❖ Mojokerto   |
| ❖ Banjarmasin | ❖ Denpasar | ❖ Malang  | ❖ Palembang  | ❖ Surabaya    | ❖ Palu        |
| ❖ Banyuwangi  | ❖ Jambi    | ❖ Madiun  | ❖ Purwokerto | ❖ Tasikmalaya | ❖ Kendari     |





CALL CENTER  
 **1500986**



## After-sales service



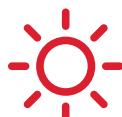
### First class service

Ariston service model is designed to offer efficiency and professionalism to all its customers.



### Genuine Ariston spare parts

All Ariston spare parts are built and tested to guarantee the best possible quality and the reliability of your Ariston product. Using genuine Ariston spare parts and components is the only way to keep your system at its best, fulfilling legal and warranty requirements.



### Maximum peace of mind

Ariston gives you the assurance of long-term product quality and safety, and in case of any potential problem it ensures that everything will be dealt with quickly and professionally.

Look up the closest service center at [ariston.com](http://ariston.com)

# How to read the symbols

The icons have been designed to facilitate the reading of the features of each product. Ariston makes it possible, from the very beginning, to quickly and easily identify performance levels, understand the different ranges and evaluate purchasing criteria.

In short, users can familiarise themselves with each machine without becoming confused or wasting time, in line with the Ariston philosophy of always offering the customer - and the professional technician - a service which is clear and easy to use.



## SUPER SILENT

Silent functioning, respectful of the quiet of your everyday life



## ENERGY EFFICIENT

Better exploitation of energy and renewable sources, enhanced performance



## ITALIAN DESIGN

The elegant aesthetics is designed in collaboration with Italian designers, an attention to details that dares to be shown off



## SYSTEM MANAGEMENT

Manage all Ariston products connected in system thanks to BusBridgeNet® technology



## MADE IN EUROPE

Made in Europe



## ANTI-CORROSION

Longer durability and high performance thanks to the anti-corrosion Pro-tech technology



## EASY INSTALLATION

Installation time and process optimized in cooperation with experts and professionals



## SOLAR INTEGRATION

It can be connected in system with Ariston solar-sourced products



## MADE IN ITALY

Made in Italy



## AG+ COATING

AG+ cartridge technology with antibacterial capability that actively stop the proliferation of E-Coli, Salmonella, Legionella, Mould Fungi & More.



### EASY INSPECTION

Large inspection flange for an easier access to the internal components of the products



### OUTDOOR INSTALLATION

Designed to be safely installed outside, resistant to all kinds of weather



### COMPACT SIZE

Compact design with reduced dimensions for an easy fit at your home



### EASY MAINTENANCE

Frontal access to all main components



### ECO EVO FUNCTION

Automatic setting of its functioning based on your habits and needs of hot water



### ANTI-LEGIONELLA

Automatic water heating cycle to prevent bacterial growth



### ANTI-FREEZING

Works at cold temperature



### INVERTER TECHNOLOGY

Frequency modulation of the external unit compressor



### SOLAR KEYMARK

Compliant with European quality certification for solar systems



### ELECTRONIC TEMPERATURE MANAGEMENT

Electronic control panel for easier, more intuitive operation.



### TITANIUM PLUS

Longer durability and resistance to corrosion thanks to the Titanium enameling of the water tank



### INTEGRATION WITH PHOTOVOLTAIC SYSTEM

Connection with photovoltaic systems



## Wi-Fi

Smart Connectivity - Aqua Ariston Net App



## WATER PLUS

It keeps the incoming cold water at the bottom of the tank to ensure reduced mixing with stored hot water



## ABSOLUTE SAFETY SYSTEM

It is a set of functions preserving the good functioning of the product in case of energy or water failures



## INCOLOY ENAMELED HEATING ELEMENT

It is corrosion resistant and reduces limescale



## TITAN SHIELD

It is an anti-corrosion and rust-resistant protective technology which prevents the surface from corroding even when it is in contact with warm water



## DIGIT DISPLAY

Easy interaction and easy temperature management thanks to the advanced hi-tech digit display



## LED DISPLAY

Simple and intuitive multifunction LED display



## DOUBLE SAFETY THERMOSTAT

In case of malfunctioning, the precise thermostat blocks heating cycle before reaching too high temperature



## HIGH EFFICIENCY INSULATION

Premium and robust environmental-friendly insulation material made up of Cyclopentane



## DISPLAY ECO

Frontal led control panel with smart thermometer



## SHOWER READY

It shows when enough water has been heated for a shower



## i-MEMORY

Function that learns your habits and chooses accordingly the best option between utilizing the renewable energy of the heat pump, and activating the heating element



## DRY HEATING ELEMENT

The heating element is not in direct contact with water for long lasting durability and limescale protection



## SAFETY PACKAGE

Set of functions preserving the good functioning of the product in case of energy or water failures



## HAIL-PROOF

Hail-resistant thick glass



## STABLE TEMPERATURE

Outlet temperature remains stable even in the case of flow rate variation



## IP25 WATERPROOF

The TOP level in water protection guarantees a safety installation in shower box



## CONSTANT TEMPERATURE

Hot water and constant temperature right when you need them, in every condition and regardless of any external factor (water flow, water's original temperature)



## SINGLE POINT

It is corrosion resistant and reduces limescale



## MULTI POINT

Can supply more water points at the same time (pressurized)



## FLAT

Low depth for space saving and easy fitting at your home



## ELECTRONIC TEMPERATURE MANAGEMENT

Electronic thermostat ensures an increase of energy saving and prevents scalding thanks to anti-overheating features.



## POWER AND TEMPERATURE MANAGEMENT

Flow regulation knob plus temperature regulation knob and 4 steps axial regulation power to set the desired energy consume



## MUTIPOSITION

Flexible installation, vertical or horizontal position



## PERFORMANCE PLUS

Enhanced performance thanks to the high quality material selection to increase heat absorption and limit heat dispersion



## EXTERNAL TEMPERATURE REGULATION

## EXTERNAL POWER REGULATION

Easy setting of the temperature/power, thanks to the external controller



# After-sales service



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[ariston.com](http://ariston.com)