

HEAT PUMPS & RENEWABLE ENERGY SOLUTIONS

2017-18

- AIR-TO-WATER HEAT PUMPS
- HYBRID HEAT PUMPS
- GROUND SOURCE HEAT PUMPS
- FAN COILS



+
more
thermal
comfort

—
less
energy
losses

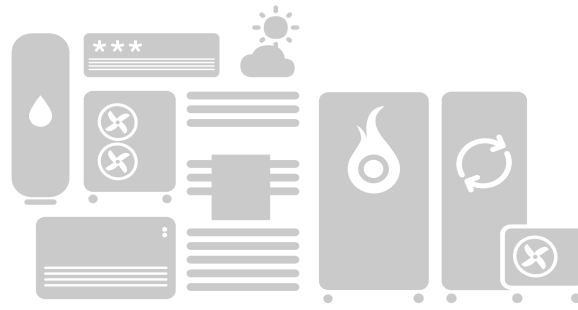




A BRAND OF GROUPE ATLANTIC

Water heating, air heating, air conditioning and ventilation, GROUPE ATLANTIC develops high-performance solutions that are both competitive and environmentally-friendly. Distributed in over 70 countries, they are designed for individual homes, collective housing, offices, shops, schools, airports, hospitals and all other commercial buildings.

Thermal
Comfort
for all



- 14 strategic and leading brands
- 6500 employees, including 2900 outside of France
- 20 industrial sites: 10 in France and 10 in several other countries
- €1.5 bn in turnover, 38% of which is generated outside of France
- 4% of turnover allocated to R&D



www.groupe-atlantic.com



ATLANTIC - WORLDWIDE EXPERT IN THERMAL COMFORT SOLUTIONS

Atlantic is a **multi-energy brand** manufacturing heating, water heating and ventilation solutions for residential and commercial markets across the globe. It aims at constantly **strengthening its customers' satisfaction** by increasing and **improving its product portfolio**, as well as **getting closer to its customers**.

To this end, Atlantic has succeeded in improving and completing its water heating solutions to comply with new European environmental standards, and offers a coherent **range of water heaters from 10 L to 3000 L**. It also keeps focusing its **R&D investments** on developing new **eco-friendly solutions for heating and water heating**.

With this new extended and improved offer, customers benefit from Atlantic's latest technology and energy-savings solutions.

Latest key facts:

- 2017 Factory opening in Georgia for electric water heaters manufacturing
- 2016 Opening of a representative office in Dubai
Creation of German subsidiary Austria Email GmbH
- 2015 Factory opening in France for heat pumps and boilers manufacturing
Acquisition of a UK market leader for wall mounted condensing gas boiler and commercial gas boiler
- 2014 Factory opening in Thailand for electric water heaters manufacturing

Atlantic products portfolio: the broadest choice for the customer's benefit



Atlantic factories around the world







- 10 industrial sites in France
- 10 industrial sites abroad preserving French know-how

To learn more about Atlantic, visit our website www.atlantic-comfort.com



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Alfea Extensa 



Alfea Extensa Duo 



Alfea Excellia 



Alfea Excellia Duo 



Alfea Hybrid Duo
Oil Low NOx



Alfea Hybrid Duo
Gas / Gas R



Loria



Loria Duo

GROUND SOURCE HEAT PUMPS

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Atlantic Geolia

FAN COILS CONNECTED WITH HEAT PUMPS

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Panama Access

ATLANTIC HEAT PUMPS



Split air-to-water heat pumps



| | | | | |
|------------------------------------|-------------------------|-------------------------|-----------------|-----------------|
| 4 kW | S | S | | |
| 5 kW | | | S | S |
| 6 kW | S | S | S | S |
| 7/8/9 kW | S | S | S | S |
| 10-11 kW | S | S | S | S |
| 13-14 kW | | | | |
| 16-17 kW | | | | |
| 2 heating zones | Optional | Optional | Optional | Optional |
| Domestic hot water | Optional | Standard supply | Optional | Standard supply |
| Cooling | Optional | Optional | Optional | Optional |
| Boiler connection | – | – | Optional | Optional |
| Electric back-up heating | Standard supply | Standard supply | Standard supply | Standard supply |
| Energy class heating (35°C / 55°C) | Up to A+++ / A++ | Up to A+++ / A++ | A++ / A+ | A++ / A+ |
| Energy class DHW | – | A+ | – | A+ |

* Depending on models

** Depending on models and types of collectors

S Single - phase 230 V

T Three - phase 400 V

Split air-to-water heat pumps

Ground source heat pumps



| | Alfea Excellia Qi 60°C | Alfea Excellia Duo Qi 60°C | Alfea Hybrid Duo Oil Low NOx 80°C | Alfea Hybrid Duo Gas/ Gas R 80°C | Atlantic Geolia 60°C** |
|------------------------------------|----------------------------------|----------------------------------|--------------------------------------|-------------------------------------|---------------------------|
| 4 kW | | | | | |
| 5 kW | | | | | S |
| 6 kW | | | | S | |
| 7/8/9 kW | | | | S | S |
| 10-11 kW | S T | S T | S T | S T | S |
| 13-14 kW | S T | S T | S T | S T | T |
| 16-17 kW | T | T | T | T | T |
| 2 heating zones | Optional | Optional | Optional | Optional | Optional |
| Domestic hot water | Optional | Standard supply | Optional | Standard supply | Optional |
| Cooling | Optional | Optional | Optional | Optional* | Optional |
| Boiler connection | Optional | Optional | Optional | Optional | Optional |
| Electric back-up heating | Standard supply | Standard supply | Standard supply | Standard supply | Standard supply |
| Energy class heating (35°C / 55°C) | A ⁺⁺ / A ⁺ | A ⁺⁺ / A ⁺ | - / A ⁺ | - / A ⁺ | Up to A ⁺⁺ |
| Energy class DHW | - | A | A | B | - |

ATLANTIC GUIDES YOU

▶ What is ErP?

The acronym ErP stands for Energy related Products. It is linked to the Ecodesign directive of the European Union, which defines minimum efficiency requirements for energy-related products such as water heaters, heat pumps, boilers and solar water heaters.

▶ Why is it important?

Energy savings and environmental protection will be the main challenges for the European Union for years to come. In this matter, as some heating and water heating products can be very energy-consuming, the goal of the new European directive, also called the 20-20-20 target, is to:

- **Decrease CO² emissions by 20%**
- **Reduce the use of primary energy by 20%**
- **Increase renewable energy share by 20% by 2020**

Ultimately, regarding heating and water heating products, the result of these new standards will be an annual energy saving in Europe of around 56 Mtoe (Million tonnes of oil equivalent) by 2020. It represents roughly 20% of France's total annual primary energy consumption.*

▶ Two requirements for energy-related products

Ecodesign Directive

Ecodesign defines the acceptable energy efficiency levels, as well as environmental requirements for energy-related products. Therefore, heating and water heating products must comply with all Ecodesign requirements in order to get the CE mark and be sold within the European Union market.

Energy Labelling Directive

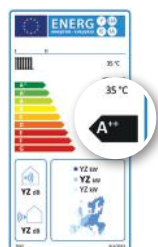
Well known to the end-user of white goods, energy efficiency labels (product labels) became mandatory for heating and water heating products, within the European Union market, since September 2015.

These products must have energy efficiency labels to inform end-users about their real performance (energy consumption, noise level and other product-specific information).

▶ What's new in 2017

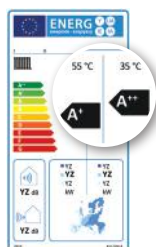
Since September 26th, 2015, new performance criteria (seasonal energy efficiency and energy efficiency class) are applied on all heating products, including heat pumps.

This regulation distinguishes two heat pump types:



Low temperature

For heat pumps that cannot reach **55 °C**, seasonal efficiency is indicated only at **35 °C**.



Average / High temperature

For heat pumps working at **55 °C**, seasonal efficiency must be indicated at **55 °C**.

Performance criteria for these two heat pump types evolve from September 2017: for low temperature heat pumps, requested energy efficiency will be 125% (instead of 115%); for average/high temperature heat pumps, requested energy efficiency will be 110% (instead of 100%).

*According to the European Commission website.

THROUGH ErP REGULATIONS

▶ What is the product label?

Products energy efficiency labels are mandatory for all energy-related products which fall under the ErP regulations, including heat pumps, water heaters, boilers, etc.

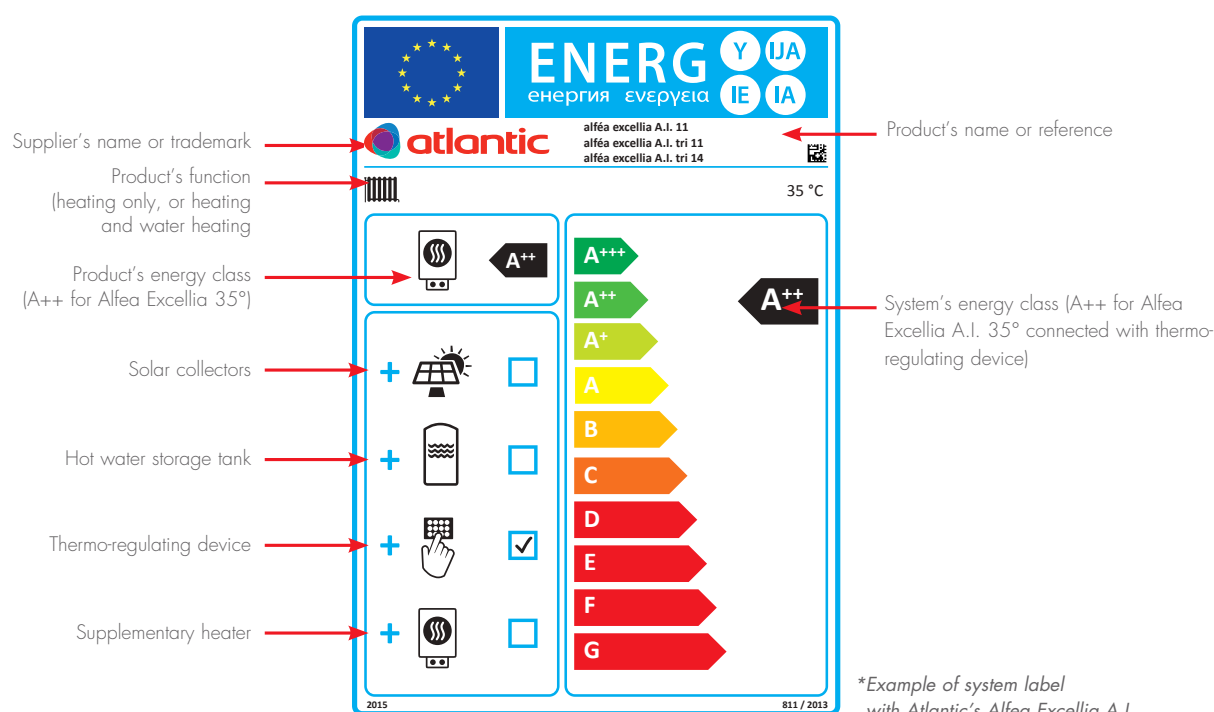
There are different product labels, depending on the product's function.

In particular, product labels for heat pumps and boilers are different from those for electric water heaters. Due to the higher performance of these products, product labels for heat pumps and boilers have two more energy classes (**A⁺** and **A⁺⁺**), in addition to basic energy classes (from A to G) which are common for all products. Moreover, the product label for heat pumps has a seasonal energy efficiency indicator for different climate areas, in order to give a full picture of the product's energy efficiency.

▶ What is the system label?

Due to the new European directive, all products intended to be connected in systems need to be provided with a system label, also called a package label.

The system label shows the system's performance, in addition to the product's performance. In system labels, **A⁺**, **A⁺⁺** and **A⁺⁺⁺** classes indicate products with the highest performances.



As an expert in heating and water heating, thermal insulation and temperature control, Atlantic welcomes and actively supports ErP regulation. **Therefore, all Atlantic heat pumps and renewable energy water heaters are highly performant in terms of energy efficiency and environmental protection (up to A+++)!**

You can find detailed information about Atlantic products energy classification on product pages of this catalogue and in the ErP section of our website

www.atlantic-comfort.com

AIR-TO-WATER HEAT PUMPS

ALFEA RANGE: LEADING HEAT PUMPS DESIGNED AND MADE IN FRANCE



Alfea is a split air-to-water heat pump range, composed by an outdoor Inverter unit connected with an indoor hydraulic module by a refrigerant connection. Calories absorbed in outdoor air go through these units to ensure heating and, for dedicated models, domestic hot water (DHW) production.

▶ ATLANTIC TECHNOLOGIES



A dedicated hydraulic conception for improved performances

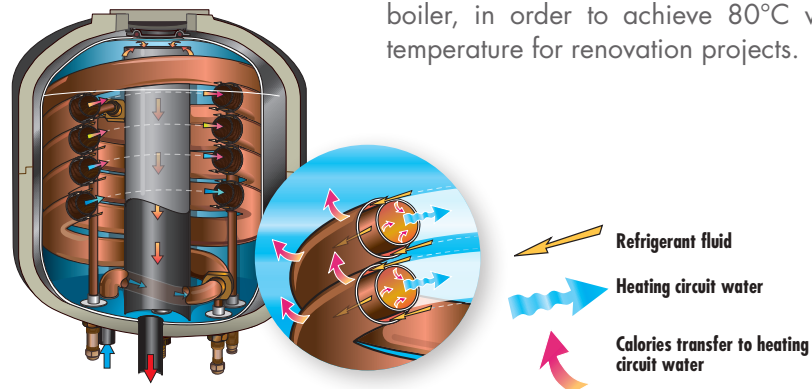
The Alfea range benefits from a coaxial heat exchanger, a technology developed and patented by Atlantic to maximise the heat pump performance.

The coaxial heat exchanger is immersed in a buffer tank allowing its functioning without any filter tap or water flow controller, which makes Alfea heat pump a reliable and efficient solution.



Hybrid technology: Atlantic latest innovation for maximised comfort and savings!

Atlantic is the first manufacturer to commercialise heat pump integrated with oil-fired boiler; it develops Hybrid Oil and Gas solutions allowing heating and DHW production by integrating heat pump and boiler, in order to achieve 80°C working temperature for renovation projects.



AVERAGE TEMPERATURE

55 °C

HIGH PERFORMANCE

60 °C

ALFEA EXTENSA Qi
ALFEA EXTENSA DUO Qi

Simplicity and performance
Low temperature solution for all projects



ALFEA EXCELLIA Qi
ALFEA EXCELLIA DUO Qi

High performance
High performance solution for renovation projects



ALFEA RANGE

Performances

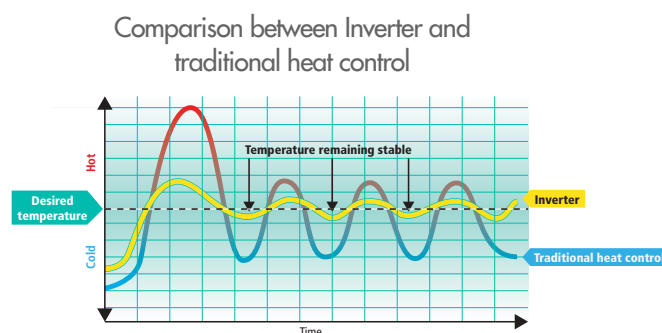
- 55°C average temperature solutions, 60°C high performance solutions, 80°C hybrid solutions
- COP of up to 4,52
- Full Inverter regulation
- Low energy consumption circulation pump
- ErP-Best: up to A++

Adaptability

- Perfect solution for new build or renovation projects, with or without DHW production
- Easy installation and maintenance
- Accessories kit allowing to meet all specific requests

An optimised control to maximise savings

The Inverter control adapts its power supply according to outside temperature in order to provide the exact amount of energy for a constant and economical heat.



▶ MORE BENEFITS WITH ALFEA A.I. RANGE

Connectivity

- Compatible with Cozytouch due to integrated IO-Homecontrol® protocol, allowing heat pump remote piloting through a smartphone or a tablet



Atlantic regulator

NAVISTEM 400S

- Easy Start: quick heat pump setting
- Simplified use with intuitive interface
- User-friendly menu adapting to the user's choice of settings



Available on

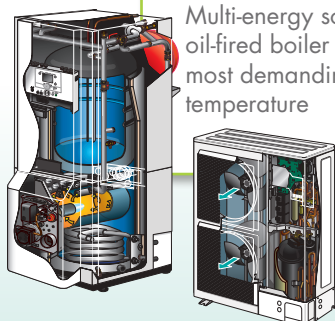
HYBRIDS

80°C

ALFEA HYBRID DUO OILLOWNOx

High temperature

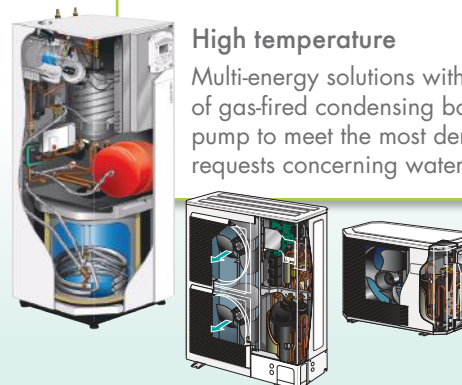
Multi-energy solutions with combination of oil-fired boiler and heat pump to meet the most demanding requests concerning water temperature



ALFEA HYBRID DUO GAS ALFEA HYBRID DUO GAS R

High temperature

Multi-energy solutions with combination of gas-fired condensing boiler and heat pump to meet the most demanding requests concerning water temperature



ALFEA EXTENSA

Split air-to-water heat pump for improved performances
Average temperature solution for all projects



Indoor hydraulic module



Outdoor Inverter unit



Product

- COP up to 4.52 (+7°C / +35°C)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive interface and simplified use
- **NAVISTEM 400S** regulator
- Integrated 16L buffer tank
- Patented coaxial heat exchanger
- Inverter regulation
- Possibility to manage an electric radiator heating zone from the heat pump control panel (option)
- Possibility of remote piloting through a smartphone or a tablet, thanks to the Cozytouch compatibility

DESCRIPTION

- Suitable for new build and renovation
- 4 models: 5 to 10 kW - single-phase
- Performing heat pump working with outside temperature from -20°C to +35°C
- Average temperature heating (max. 55°C)

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play kit)
- Cooling kit
- Separated hot water tank
- Boiler connection kit
- Room sensor

SUPPLIES

Indoor hydraulic module

- Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter, etc
- Electric back-up heater*

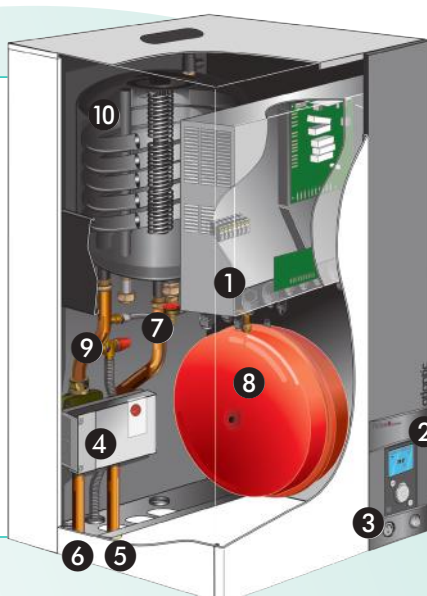
Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor

*Models without electric back-up available

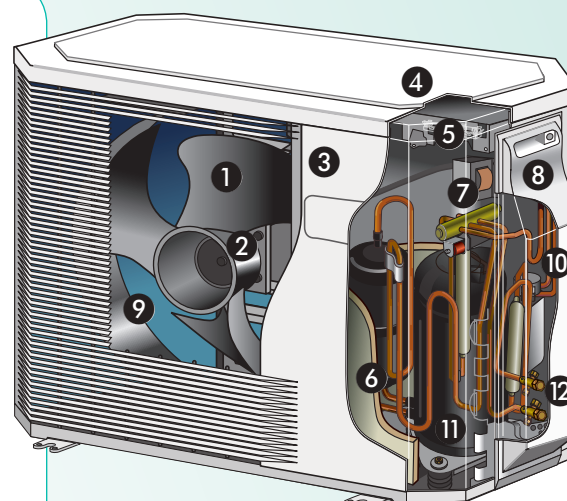
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Manometer
- 4 Low consumption circulation pump
- 5 Heating flow
- 6 Heating return
- 7 Refrigerant connections
- 8 Expansion vessel
- 9 Safety valve
- 10 Coaxial heat exchanger



OUTDOOR INVERTER UNIT

- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connection terminals (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10 Electronic expansion valve
- 11 Noise and temperature insulated "Inverter" compressor
- 12 Refrigerating connection valves (flared connectors) with protective cover



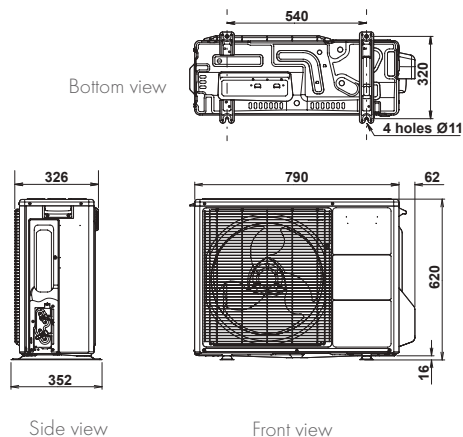
TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | ALFEA EXTENSA A.I. 5 | ALFEA EXTENSA A.I. 6 | ALFEA EXTENSA A.I. 8 | ALFEA EXTENSA A.I. 10 |
|--|-------|----------------------|----------------------|----------------------|-----------------------|
| REFRIGERANT | | R410A | R410A | R410A | R410A |
| MAIN CHARACTERISTICS | | | | | |
| Heating capacity +7°C/+35°C - Underfloor Heating | kW | 4.50 | 6.00 | 7.50 | 10.00 |
| COP +7°C/+35°C - Underfloor Heating | | 4.52 | 4.26 | 4.08 | 4.02 |
| Heating capacity -7°C/+35°C - Underfloor Heating | kW | 4.10 | 4.60 | 5.70 | 7.40 |
| COP -7°C/+35°C - Underfloor Heating | | 2.79 | 2.64 | 2.56 | 2.49 |
| Heating capacity +7°C/+45°C - Low T°radiators | kW | 4.50 | 5.10 | 6.20 | 8.27 |
| COP +7°C/+45°C - Low T°radiators | | 3.44 | 3.40 | 3.32 | 3.27 |
| Heating capacity -7°C/+45°C - Low T°radiators | kW | 4.10 | 4.45 | 5.05 | 7.40 |
| COP -7°C/+45°C - Low T°radiator | | 2.20 | 2.18 | 2.04 | 2.00 |
| Heating capacity +7°C/+55°C - Radiators | kW | 4.50 | 4.50 | 5.00 | 7.00 |
| COP +7°C/+55°C - Radiators | | 2.51 | 2.51 | 2.58 | 2.45 |
| Heating capacity -7°C/+55°C - Radiators | kW | 3.70 | 3.85 | 5.20 | 7.00 |
| COP -7°C/+55°C - Radiators | | 1.68 | 1.65 | 1.56 | 1.69 |
| Additional electric back-up heater | kW | 3 | 3 | 3 | 3 |
| ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS | | | | | |
| Energy class - Heating (35°C/55°C) | - | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Thermal power (35°C/55°C) | kW | 4 / 4 | 5 / 5 | 7 / 6 | 8 / 8 |
| Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor | % | 171 / 117 | 171 / 117 | 158 / 120 | 157 / 115 |
| Seasonal energy efficiency - Heating (35°C/55°C) | % | 169 / 115 | 169 / 115 | 156 / 118 | 155 / 113 |
| Annual energy consumption - Heating (35°C/55°C) | kWh | 2160 / 3027 | 2505 / 3180 | 3375 / 3886 | 4415 / 5415 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB(A) | 46 / 63 | 46 / 63 | 46 / 69 | 46 / 69 |
| INDOOR HYDRAULIC MODULE | | | | | |
| Noise level ⁽²⁾ | dB(A) | 39 | 39 | 39 | 39 |
| Net weight/filled weight ⁽³⁾ | kg | 46 / 62 | 46 / 62 | 46 / 62 | 46 / 62 |
| Power supply | | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz |
| OUTDOOR UNIT | | | | | |
| Noise level ⁽⁴⁾ | dB(A) | 41 | 41 | 47 | 47 |
| Operating weight | kg | 41 | 41 | 42 | 60 |
| REFRIGERANT CHARACTERISTICS | | | | | |
| Min./max. length | m | 5 / 30 | 5 / 30 | 5 / 30 | 5 / 30 |
| Max. difference in height | m | 20 | 20 | 20 | 20 |
| R410A factory load | g | 1100 | 1100 | 1400 | 1800 |
| Quantity of refrigerant in tons of CO ₂ equivalent | t | 2 | 2 | 3 | 4 |

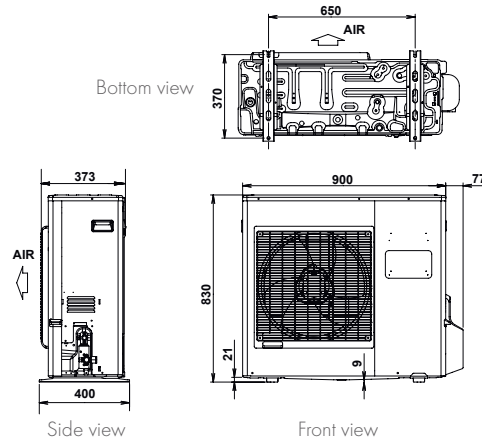
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP, 1,5 m height, open field, directivity 2. (3) Models with electric back-up. - (4) Acoustic pressure at 5m from HP, 1,5 m height, open field, directivity 2.

DIMENSIONS (MM)

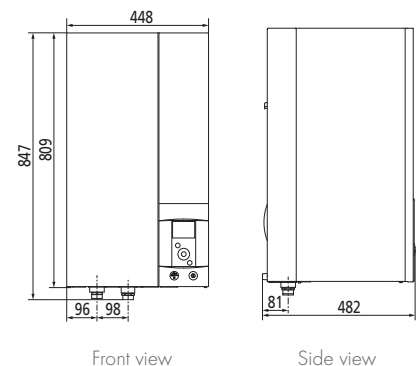
**Outdoor Inverter unit
Alfea Extensa A.I. 5, 6 and 8**



**Outdoor Inverter unit
Alfea Extensa A.I. 10**



**Indoor hydraulic
module**

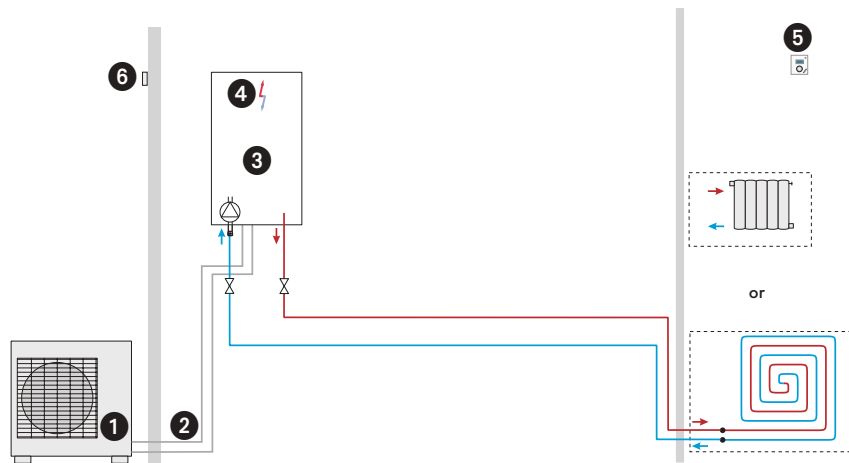


ALFEA EXTENSA

Installation schematics

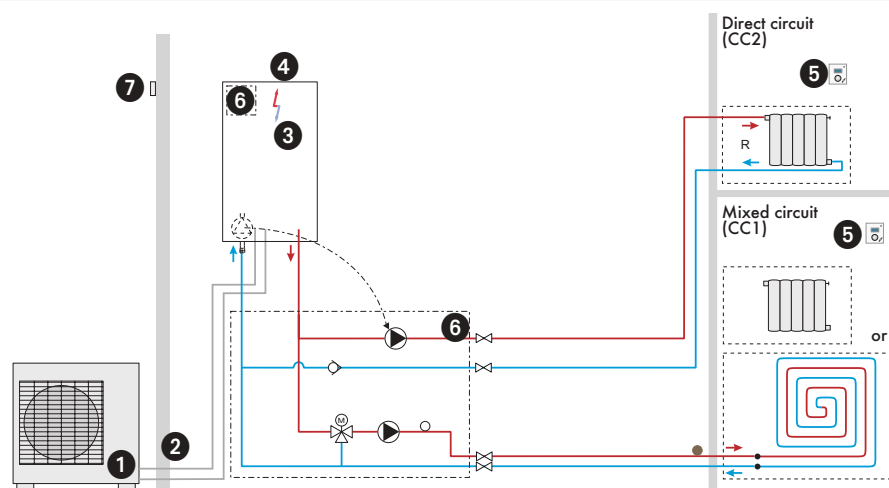
ALFEA EXTENSA A.I.: 1 HEATING ZONE

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Electric back-up heater
- ❺ Room sensor*
- ❻ Outdoor sensor



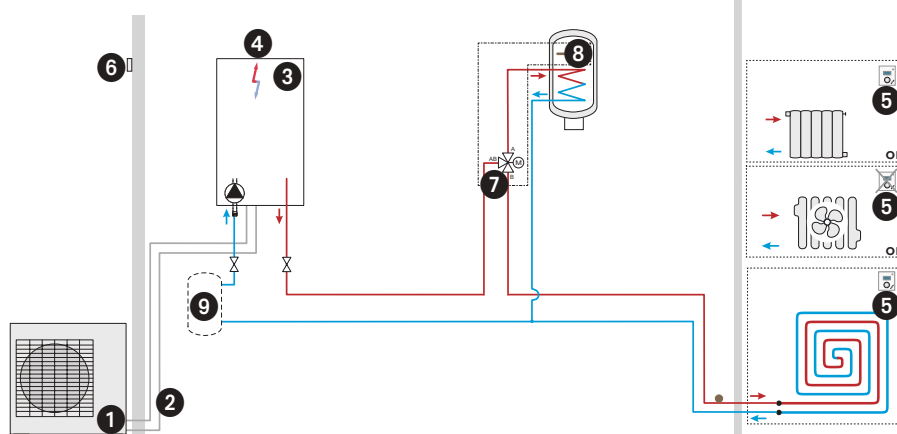
ALFEA EXTENSA A.I.: 2 HEATING ZONES

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Electric back-up heater
- ❺ Room sensor*
- ❻ 2 zones kit*
- ❼ Outdoor sensor



ALFEA EXTENSA A.I.: 1 HEATING ZONE + WATER TANK

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Electric back-up heater
- ❺ Room sensor*
- ❻ Outdoor sensor
- ❼ DHW kit*
- ❽ Water tank*
- ❾ Buffer tank**



*Option - **Depending on type of heating devices and volume of water in heating zone

ALFEA EXTENSA DUO

Split air-to-water heat pump for improved performances (heating + DHW)
Average temperature solution for all projects



Indoor hydraulic module



Outdoor Inverter unit



Product

- Integrated DHW storage tank (190L)
- COP up to 4.52 (+7°C / +35°C)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive interface and simplified use
- **NAVISTEM 400S** regulator
- Integrated 16L buffer tank
- Patented coaxial heat exchanger
- Inverter regulation
- Possibility to manage an electric radiator heating zone from the heat pump control panel (option)
- Possibility of remote piloting through a smartphone or a tablet, thanks to the Cozytouch compatibility

DESCRIPTION

- Suitable for new build and renovation
- 4 models: 5 to 10 kW - single-phase
- Heating and DHW integrated
- Performing heat pump working with outside temperature from -20°C to +35°C
- Average temperature heating (max. 55°C)

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play)
- Cooling kit
- Boiler connection kit
- Room sensor

SUPPLIES

Indoor hydraulic module

- DHW storage tank integrated (190L)
- Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter, etc.
- Electric back-up heater*

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor

*Models without electric back-up available

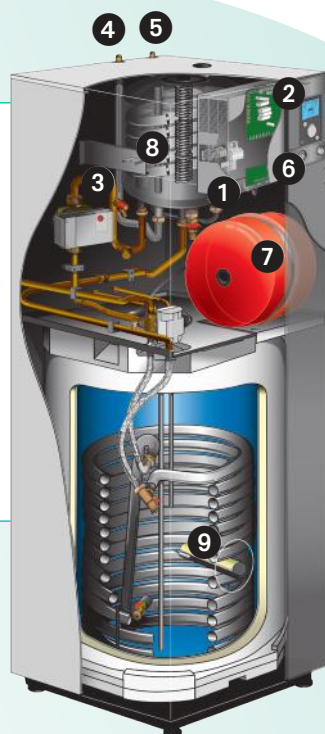


Energy class

| | | |
|--------------------------|-------------------------|----------------|
| 35 °C A ⁺⁺ | 55 °C A ⁺ | A ⁺ |
|--------------------------|-------------------------|----------------|

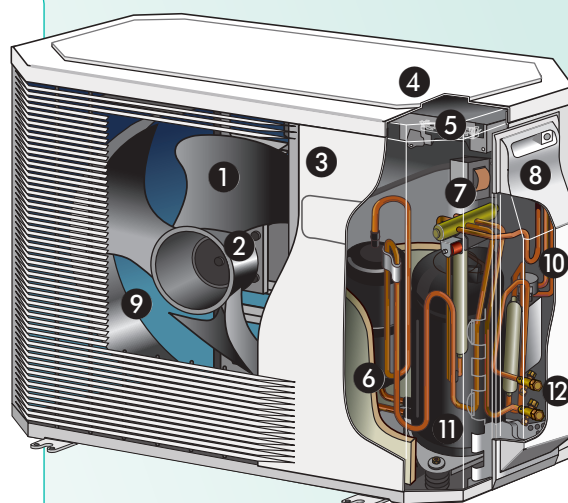
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Low consumption circulation pump
- 4 "Gas" refrigeration connection
- 5 "Liquid" refrigeration connection
- 6 Manometer
- 7 Expansion vessel
- 8 Coaxial heat exchanger
- 9 DHW electric back-ups



OUTDOOR INVERTER UNIT

- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connection terminal blocks (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10 Electronic expansion valve
- 11 Noise and temperature insulated "Inverter" compressor
- 12 Refrigerating connection valves (flared connectors) with protective cover



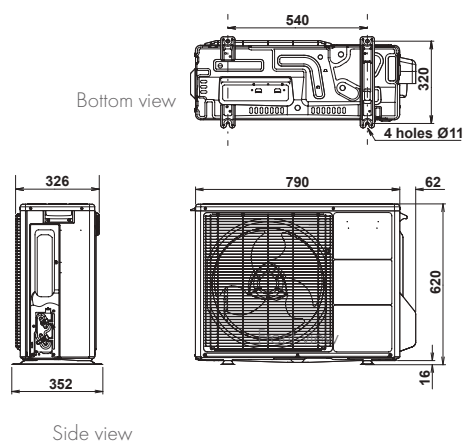
TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | ALFEA EXTENSA DUO A.I. 5 | ALFEA EXTENSA DUO A.I. 6 | ALFEA EXTENSA DUO A.I. 8 | ALFEA EXTENSA DUO A.I. 10 |
|--|-------|--------------------------|--------------------------|--------------------------|---------------------------|
| REFRIGERANT | | R410A | R410A | R410A | R410A |
| MAIN CHARACTERISTICS | | | | | |
| Heating capacity +7°C/+35°C - Underfloor Heating | kW | 4.50 | 6.00 | 7.50 | 10.00 |
| COP +7°C/+35°C - Underfloor Heating | | 4.52 | 4.26 | 4.08 | 4.02 |
| Heating capacity -7°C/+35°C - Underfloor Heating | kW | 4.10 | 4.60 | 5.70 | 7.40 |
| COP -7°C/+35°C - Underfloor Heating | | 2.79 | 2.64 | 2.56 | 2.49 |
| Heating capacity +7°C/+45°C - Low T°radiators | kW | 4.50 | 5.10 | 6.20 | 8.27 |
| COP +7°C/+45°C - Low T°radiators | | 3.44 | 3.40 | 3.32 | 3.27 |
| Heating capacity -7°C/+45°C - Low T°radiators | kW | 4.10 | 4.45 | 5.05 | 7.40 |
| COP -7°C/+45°C - Low T°radiator | | 2.20 | 2.18 | 2.04 | 2.00 |
| Heating capacity +7°C/+55°C - Radiators | kW | 4.50 | 4.50 | 5.00 | 7.00 |
| COP +7°C/+55°C - Radiators | | 2.51 | 2.51 | 2.58 | 2.45 |
| Heating capacity -7°C/+55°C - Radiators | kW | 3.70 | 3.85 | 5.20 | 7.00 |
| COP -7°C/+55°C - Radiators | | 1.68 | 1.65 | 1.56 | 1.69 |
| Additional electric back-up heater | kW | 3 | 3 | 3 | 3 |
| ErP ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS | | | | | |
| Energy class - Heating (35°C/55°C) | - | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Thermal power (35°C/55°C) | kW | 4 / 4 | 5 / 5 | 7 / 6 | 8 / 8 |
| Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor | % | 171 / 117 | 171 / 117 | 158 / 120 | 157 / 115 |
| Seasonal energy efficiency - Heating (35°C/55°C) | % | 169 / 115 | 169 / 115 | 156 / 118 | 155/113 |
| Annual energy consumption - Heating (35°C/55°C) | kWh | 2160 / 3027 | 2505 / 3180 | 3375 / 3886 | 4415 / 5415 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB(A) | 46 / 63 | 46 / 63 | 46 / 69 | 46 / 69 |
| Declared load profile - DHW | - | L | L | L | L |
| Energy class - DHW | - | A+ | A+ | A+ | A+ |
| Annual energy consumption - DHW | kWh | 880 | 880 | 880 | 880 |
| Seasonal energy efficiency (%) - DHW | % | 120 | 120 | 120 | 120 |
| INDOOR HYDRAULIC MODULE | | | | | |
| Noise level ⁽²⁾ | dB(A) | 39 | 39 | 39 | 39 |
| Net weight/filled weight ⁽³⁾ | kg | 152 / 373 | 152 / 373 | 152 / 373 | 152 / 373 |
| Power supply | | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz | 230V / 50Hz |
| OUTDOOR UNIT | | | | | |
| Noise level ⁽⁴⁾ | dB(A) | 41 | 41 | 47 | 47 |
| Operating weight | kg | 41 | 41 | 42 | 60 |
| REFRIGERANT CHARACTERISTICS | | | | | |
| Min./max. length | m | 5 / 30 | 5 / 30 | 5 / 30 | 5 / 30 |
| Max. difference in height | m | 20 | 20 | 20 | 20 |
| R410A factory load | g | 1100 | 1100 | 1400 | 1800 |
| Quantity of refrigerant in tons of CO ₂ equivalent | t | 2 | 2 | 3 | 4 |

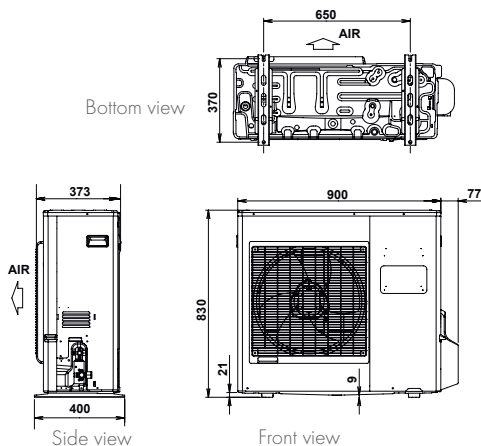
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP, 1,5 m height, open field, directivity 2. - (3) Models with electric back-up. - (4) Acoustic pressure at 5m from HP, 1,5 m height, open field, directivity 2.

DIMENSIONS (MM)

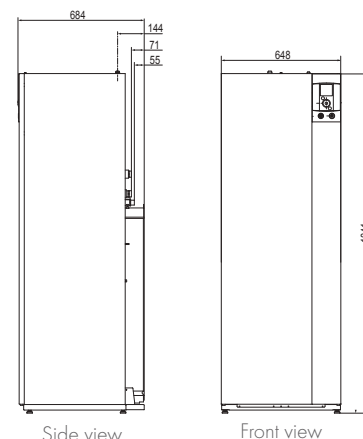
**Outdoor Inverter unit
Alfea Extensa Duo A.I. 5, 6 and 8**



**Outdoor Inverter unit
Alfea Extensa Duo A.I. 10**



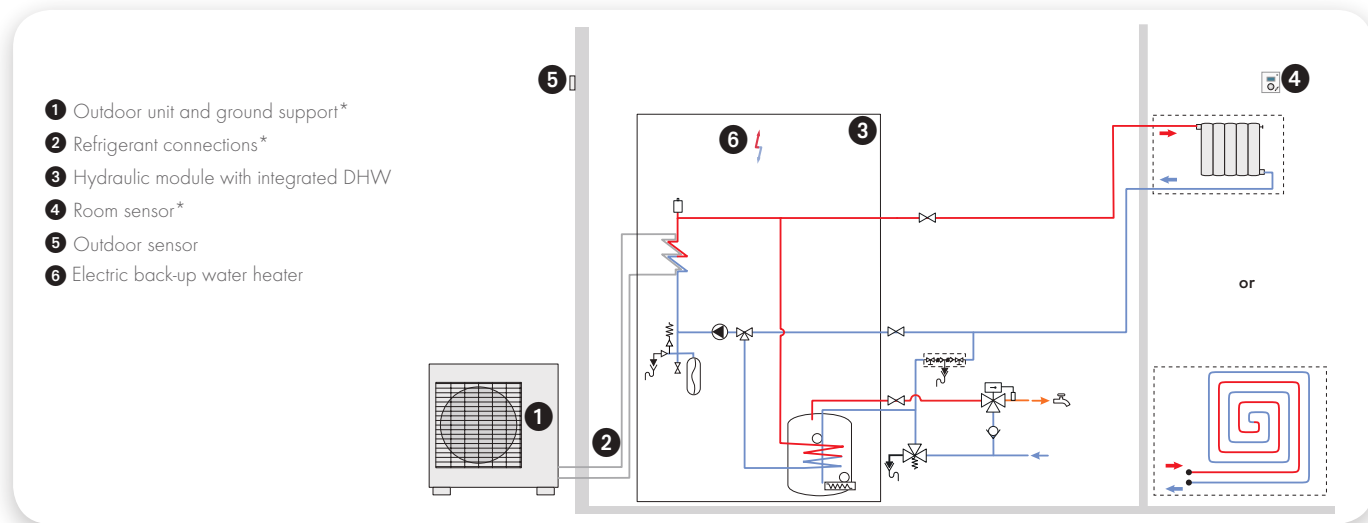
**Indoor hydraulic
module**



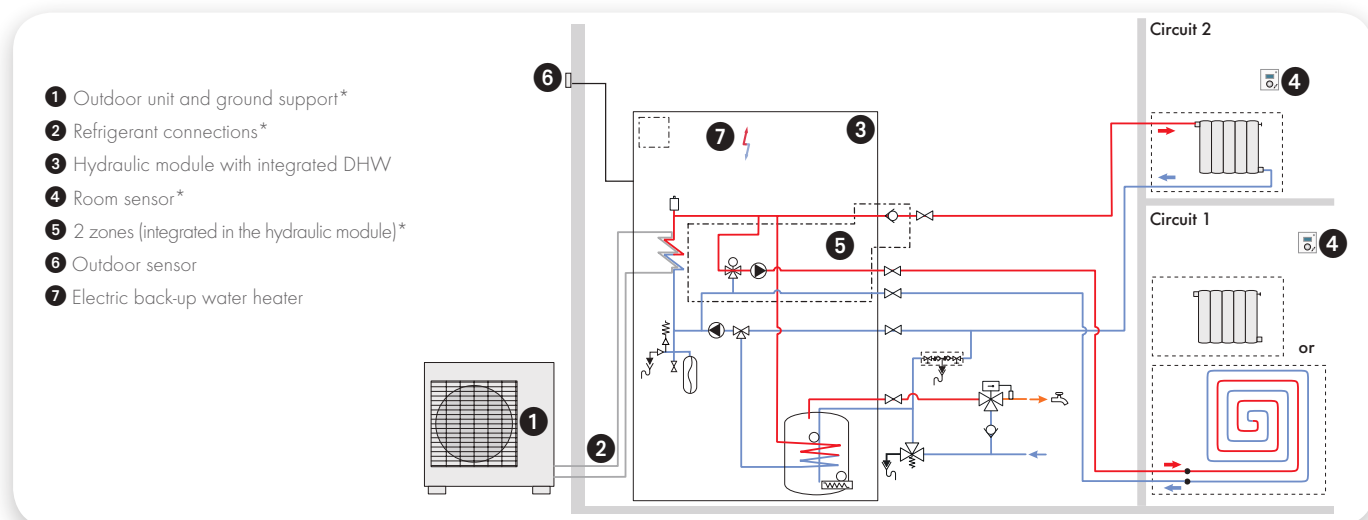
ALFEA EXTENSA DUO

Installation schematics

ALFEA EXTENSA DUO A.I.: 1 HEATING ZONE



ALFEA EXTENSA DUO A.I.: 2 HEATING ZONES



*Option

ALFEA EXCELLIA

Split air-to-water heat pump for improved performances
High performance solution for large houses and/or cold climate



Indoor hydraulic module



Outdoor Inverter unit



Product

- COP up to 4.3 (+7°C / +35°C)
- Compatible with all kinds of heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive interface and simplified use
- **NAVISTEM 400S** regulator
- Perfect solution for high heating demand
- Integrated 16L buffer tank
- Patented coaxial heat exchanger
- Inverter regulation
- Possibility to manage an electric radiator heating zone from the heat pump control panel (option)
- Possibility of remote piloting through a smartphone or a tablet, thanks to the Cozytouch compatibility

DESCRIPTION

- Suitable for new build and renovation
- 2 models: 11 and 14 kW - single-phase
- 3 models: 11, 14 and 16kW - three-phase
- Heating only
- Performing heat pump working with outside temperature from -25°C to +35°C
- Working temperature of 60°C, down to -20°C outside temperature

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play kit)
- Cooling kit
- Separated hot water tank
- Boiler connection kit
- Room sensor

SUPPLIES

Indoor hydraulic module

- Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Expansion vessel, valve, etc.
- Electric panel and terminal blocks
- Electric back-up heater*

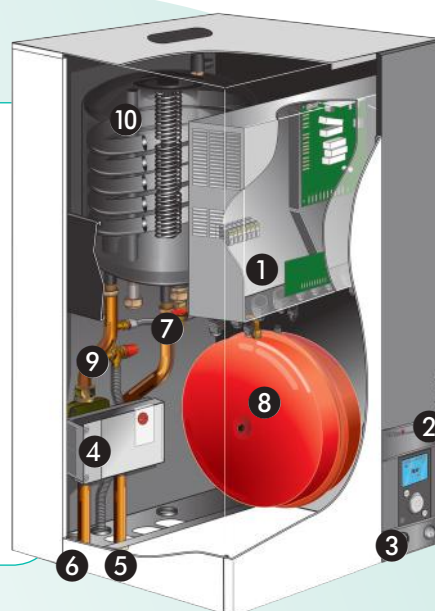
Outdoor Inverter unit

- Refrigerant circuit uses liquid reinjection technology during compression phase (R410A)
- Twin Rotary compressor
- Double fan

*Models without electric back-up available

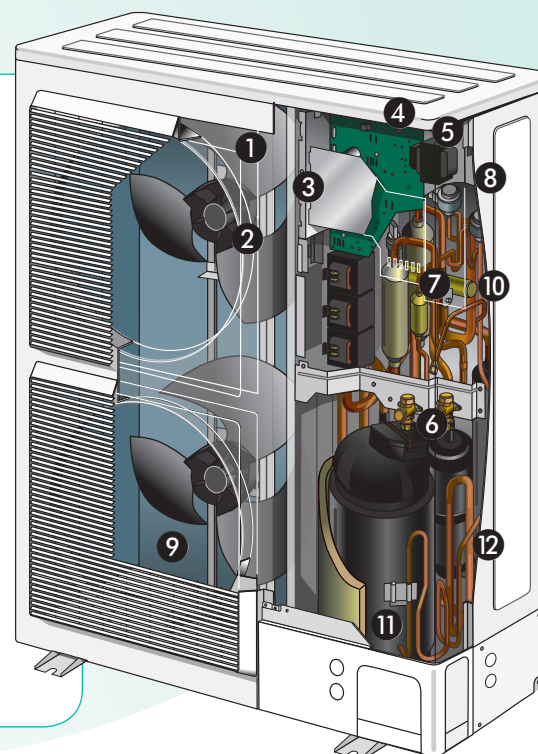
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Manometer
- 4 Low consumption circulation pump
- 5 Heating flow
- 6 Heating return
- 7 Refrigerant connections
- 8 Expansion vessel
- 9 Safety valve
- 10 Coaxial heat exchanger



OUTDOOR INVERTER UNIT

- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connection terminal blocks (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10 Electronic expansion valve
- 11 Noise and temperature insulated "Inverter" compressor
- 12 Refrigerating connection valves (flared connectors) with protective cover



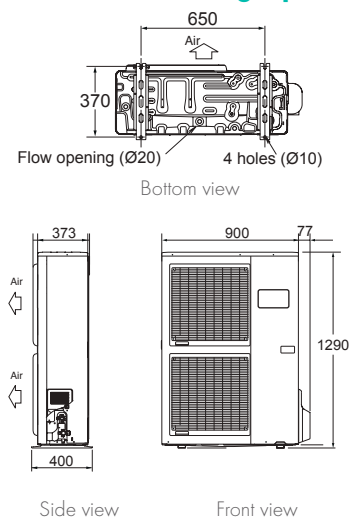
TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | ALFEA EXCELLIA A.I. 11 | ALFEA EXCELLIA A.I. 14 | ALFEA EXCELLIA A.I. TRI 11 | ALFEA EXCELLIA A.I. TRI 14 | ALFEA EXCELLIA A.I. TRI 16 |
|--|--------|---------------------------|---------------------------|-------------------------------|-------------------------------|-------------------------------|
| REFRIGERANT | | R410A | R410A | R410A | R410A | R410A |
| MAIN CHARACTERISTICS | | | | | | |
| Heating capacity +7°C/+35°C – Underfloor Heating | kW | 10.80 | 13.50 | 10.80 | 13.00 | 15.17 |
| COP +7°C/+35°C - Underfloor Heating | | 4.25 | 4.18 | 4.30 | 4.18 | 4.10 |
| Heating capacity -7°C/+35°C – Underfloor Heating | kW | 10.38 | 11.54 | 10.38 | 12.20 | 12.98 |
| COP -7°C/+35°C - Underfloor Heating | | 2.40 | 2.27 | 2.43 | 2.38 | 2.40 |
| Heating capacity +7°C/+45°C – Low T°radiators | kW | 9.05 | 11.32 | 9.90 | 12.10 | 12.75 |
| COP +7°C/+45°C – Low T°radiators | | 3.21 | 3.07 | 3.32 | 3.20 | 3.21 |
| Heating capacity -7°C/+45°C – Low T°radiators | kW | 9.16 | 11.41 | 9.98 | 10.70 | 12.95 |
| COP -7°C/+45°C – Low T°radiator | | 2.00 | 1.93 | 2.16 | 2.08 | 2.03 |
| Heating capacity +7°C/+55°C – Radiators | kW | 7.59 | 9.48 | 9.29 | 10.60 | 12.24 |
| COP +7°C/+55°C – Radiators | | 2.47 | 2.40 | 2.64 | 2.41 | 2.48 |
| Heating capacity -7°C/+55°C – Radiators | kW | 7.57 | 9.20 | 9.27 | 10.10 | 12.00 |
| COP -7°C/+55°C – Radiators | | 1.66 | 1.81 | 1.82 | 1.79 | 1.74 |
| Additional adjustable electric back-up heater | kW | 6 | 6 | 9 | 9 | 9 |
| ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS | | | | | | |
| Energy class - Heating (35°C/55°C) | - | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Rated heat output (35°C/55°C) | kW | 11 / 9 | 13 / 11 | 11 / 9 | 13 / 11 | 14 / 13 |
| Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor | % | 153 / 114 | 150 / 115 | 156 / 114 | 152 / 119 | 151 / 119 |
| Seasonal energy efficiency - Heating (35°C/55°C) | % | 151 / 112 | 148 / 113 | 154 / 112 | 150 / 117 | 149 / 117 |
| Annual energy consumption - Heating (35°C/55°C) | kWh | 6062 / 6623 | 6824 / 8041 | 5930 / 6669 | 6738 / 7803 | 7408 / 9062 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB(A) | 46 / 69 | 46 / 69 | 46 / 68 | 46 / 69 | 46 / 69 |
| INDOOR HYDRAULIC MODULE | | | | | | |
| Noise level ⁽²⁾ | dB(A) | 39 | 39 | 39 | 39 | 39 |
| Net weight/filled weight ⁽³⁾ | kg | 46 / 62 | 46 / 62 | 46 / 62 | 46 / 62 | 46 / 62 |
| Power supply | | 230 V / 50 Hz | 230 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz |
| OUTDOOR UNIT | | | | | | |
| Noise level ⁽⁴⁾ | dB (A) | 47 | 47 | 46 | 47 | 47 |
| Operating weight | kg | 92 | 92 | 99 | 99 | 99 |
| REFRIGERANT CHARACTERISTICS | | | | | | |
| Min./max. length | m | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 |
| Max. difference in height | m | 15 | 15 | 15 | 15 | 15 |
| R410A factory load | g | 2500 | 2500 | 2500 | 2500 | 2500 |
| Quantity of refrigerant in tons of CO ₂ equivalent | t | 5 | 5 | 5 | 5 | 5 |

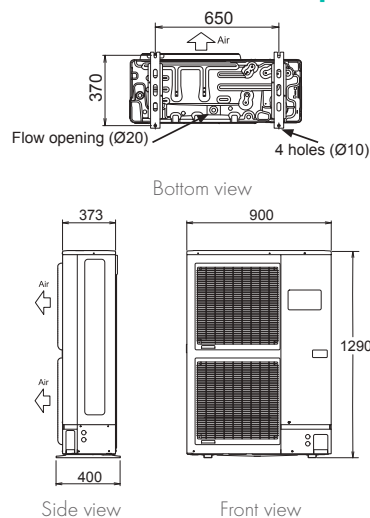
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DIMENSIONS (MM)

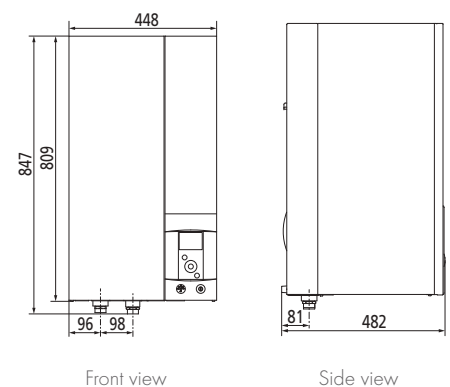
Outdoor Inverter unit Alfea Excellia A.I. 11 and 14 single-phase



Outdoor Inverter unit Alfea Excellia A.I. 11, 14 and 16 three-phase



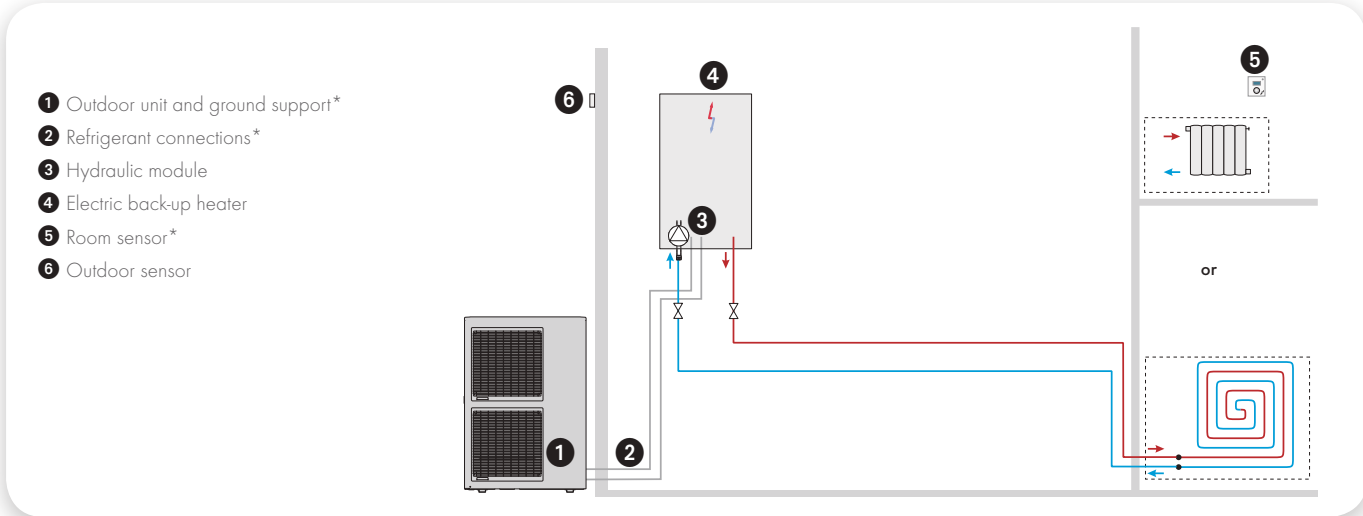
Indoor hydraulic module



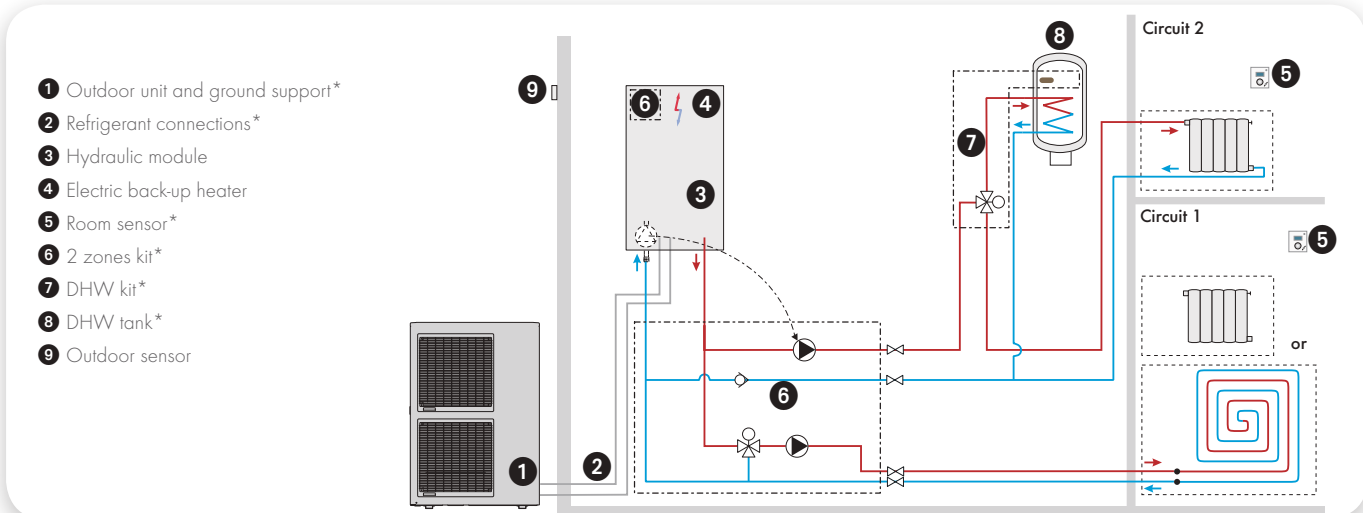
ALFEA EXCELLIA

Installation schematics

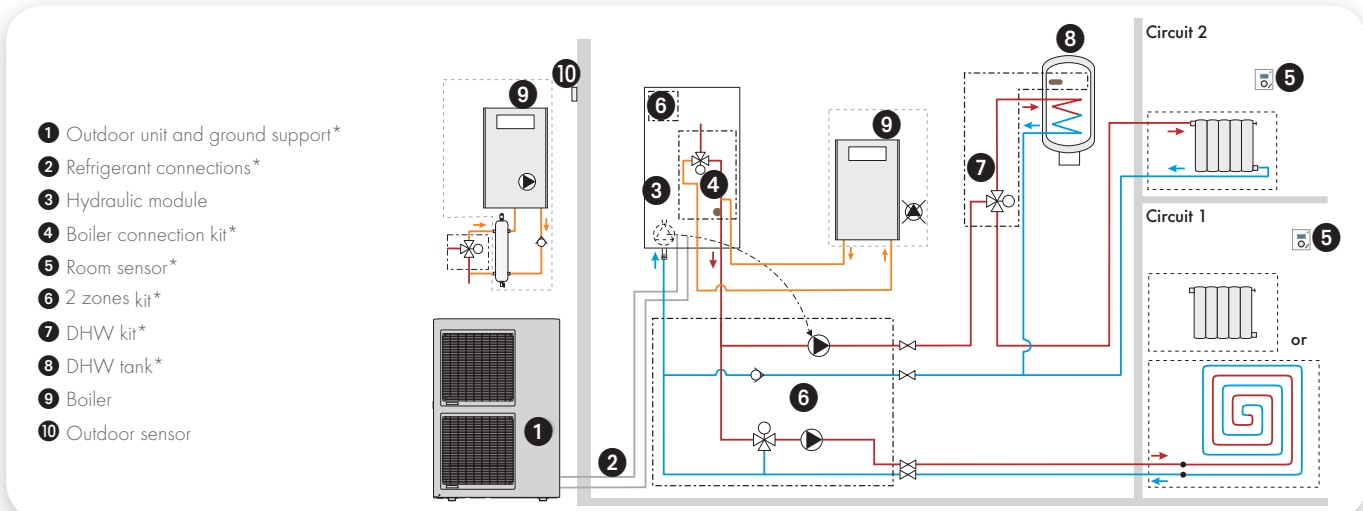
ALFEA EXCELLIA A.I.: 1 HEATING ZONE



ALFEA EXCELLIA A.I.: 2 HEATING ZONES AND DHW PRODUCTION



ALFEA EXCELLIA A.I. CONNECTED TO BOILER: 2 HEATING ZONES + DHW PRODUCTION



*Option

ALFEA EXCELLIA DUO

Split air-to-water heat pump for improved performances (heating + DHW)
High performance solution for large houses and/or cold climate



Indoor hydraulic module



Outdoor Inverter unit

Product

- Integrated DHW storage tank (190L)
- COP up to 4.3 (+7°C / +35°C)
- Compatible with all kinds of heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive interface and simplified use
- **NAVISTEM 400S** regulator
- Perfect solution for high heating demand
- Integrated 16L buffer tank
- Patented coaxial heat exchanger
- Inverter regulation
- Possibility to manage an electric radiator heating zone from the heat pump control panel (option)
- Possibility of remote piloting through a smartphone or a tablet, thanks to the Cozytouch compatibility

DESCRIPTION

- Suitable for new build and renovation
- 2 models: 11 and 14 kW - single-phase
- 3 models: 11, 14 and 16 kW - three-phase
- Heating and DHW integrated
- Performing heat pump working with outside temperature from -25°C to +35°C
- Working temperature of 60°C, down to -20°C outside temperature

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play)
- Cooling kit
- Boiler connection kit
- Room sensor

SUPPLIES

Indoor hydraulic module

- DHW storage tank integrated (190L)
- Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Expansion vessel, pressure meter, etc.
- Outdoor sensor
- Electric back-up heater*

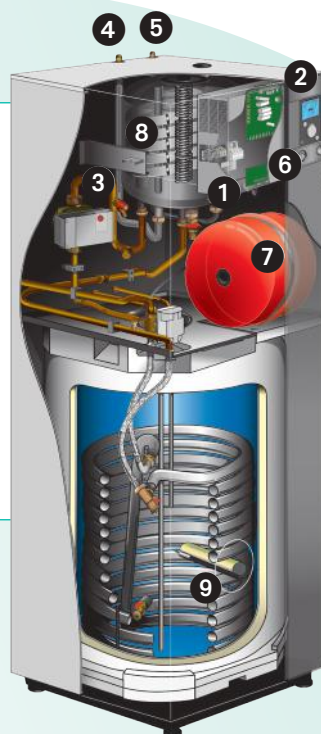
Outdoor Inverter unit

- Refrigerant circuit with liquid reinjection technology during compression phase (R410A)
- Double fan
- Full Inverter control

*Models without electric back-up available

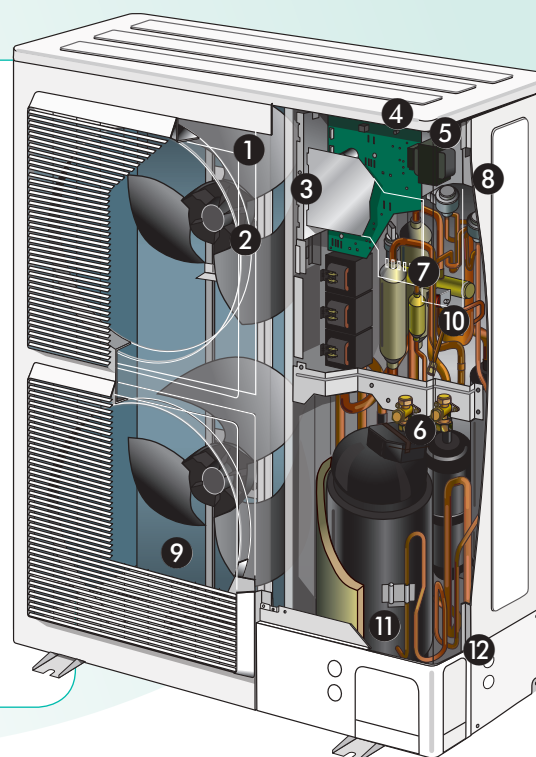
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Low consumption circulation pump
- 4 "Gas" refrigeration connection
- 5 "Liquid" refrigeration connection
- 6 Manometer
- 7 Expansion vessel
- 8 Coaxial heat exchanger
- 9 DHW electric back-ups



OUTDOOR INVERTER UNIT

- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connection terminal blocks (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10 Electronic expansion valve
- 11 Noise and temperature insulated "Inverter" compressor
- 12 Refrigerating connection valves (flared connectors) with protective cover



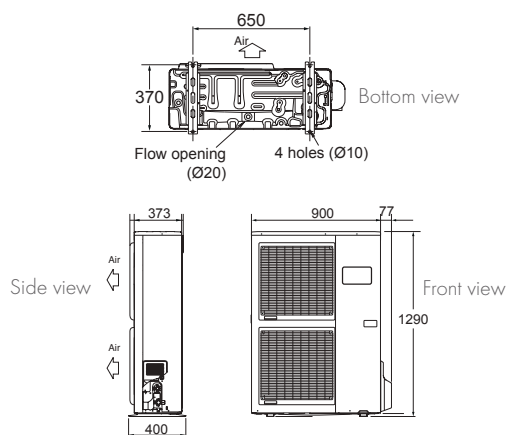
TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | ALFEA EXCELLIA DUO A.I. 11 | ALFEA EXCELLIA DUO A.I. 14 | ALFEA EXCELLIA DUO A.I. TRI 11 | ALFEA EXCELLIA DUO A.I. TRI 14 | ALFEA EXCELLIA DUO A.I. TRI 16 |
|--|-------|----------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|
| REFRIGERANT | | R410A | R410A | R410A | R410A | R410A |
| MAIN CHARACTERISTICS | | | | | | |
| Heating capacity +7°C/+35°C – Underfloor Heating | kW | 10.80 | 13.50 | 10.80 | 13.00 | 15.17 |
| COP +7°C/+35°C - Underfloor Heating | | 4.25 | 4.18 | 4.30 | 4.18 | 4.10 |
| Heating capacity -7°C/+35°C – Underfloor Heating | kW | 10.38 | 11.54 | 10.38 | 12.20 | 12.98 |
| COP -7°C/+35°C - Underfloor Heating | | 2.40 | 2.27 | 2.43 | 2.38 | 2.40 |
| Heating capacity +7°C/+45°C – Low T°radiators | kW | 9.05 | 11.32 | 9.90 | 12.10 | 12.75 |
| COP +7°C/+45°C – Low T°radiators | | 3.21 | 3.07 | 3.32 | 3.20 | 3.21 |
| Heating capacity -7°C/+45°C – Low T°radiators | kW | 9.16 | 11.41 | 9.98 | 10.70 | 12.95 |
| COP -7°C/+45°C – Low T°radiator | | 2.00 | 1.93 | 2.16 | 2.08 | 2.03 |
| Heating capacity +7°C/+55°C - Radiators | kW | 7.59 | 9.48 | 9.29 | 10.60 | 12.24 |
| COP +7°C/+55°C – Radiators | | 2.47 | 2.40 | 2.64 | 2.41 | 2.48 |
| Heating capacity -7°C/+55°C – Radiators | kW | 7.57 | 9.20 | 9.27 | 10.10 | 12.00 |
| COP -7°C/+55°C – Radiators | | 1.66 | 1.81 | 1.82 | 1.79 | 1.74 |
| Additional electric back-up heater | kW | 6 | 6 | 9 | 9 | 9 |
| ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS | | | | | | |
| Energy class - Heating (35°C/55°C) | - | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ | A++ / A+ |
| Rated heat output (35°C/55°C) | kW | 11 / 9 | 13 / 11 | 11 / 9 | 13 / 11 | 14 / 13 |
| Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor | % | 153 / 114 | 150 / 115 | 156 / 114 | 152 / 119 | 151 / 119 |
| Seasonal energy efficiency - Heating (35°C/55°C) | % | 151 / 112 | 148 / 113 | 154 / 112 | 150 / 117 | 149 / 117 |
| Annual energy consumption - Heating (35°C/55°C) | kWh | 6062 / 6623 | 6824 / 8041 | 5930 / 6669 | 6738 / 7803 | 7408 / 9062 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB(A) | 46 / 69 | 46 / 69 | 46 / 68 | 46 / 69 | 46 / 69 |
| Declared load profile - DHW | - | L | L | L | L | L |
| Energy class - DHW | - | A | A | A | A | A |
| Annual water heating energy consumption | kWh | 1166 | 1166 | 1166 | 1166 | 1166 |
| Seasonal water heating energy efficiency (%) | % | 88 | 88 | 88 | 88 | 88 |
| INDOOR HYDRAULIC MODULE | | | | | | |
| Noise level ⁽²⁾ | dB(A) | 39 | 39 | 39 | 39 | 39 |
| Net weight/filled weight ⁽³⁾ | kg | 155 / 373 | 155 / 373 | 155 / 373 | 155 / 373 | 155 / 373 |
| Power supply | | 230 V / 50 Hz | 230 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz |
| OUTDOOR UNIT | | | | | | |
| Noise level ⁽⁴⁾ | dB(A) | 47 | 47 | 46 | 47 | 47 |
| Operating weight | kg | 92 | 92 | 99 | 99 | 99 |
| REFRIGERANT CHARACTERISTICS | | | | | | |
| Min./max. length | m | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 |
| Max. difference in height | m | 15 | 15 | 15 | 15 | 15 |
| R410A factory load | g | 2500 | 2500 | 2500 | 2500 | 2500 |
| Quantity of refrigerant in tons of CO ₂ equivalent | t | 5 | 5 | 5 | 5 | 5 |

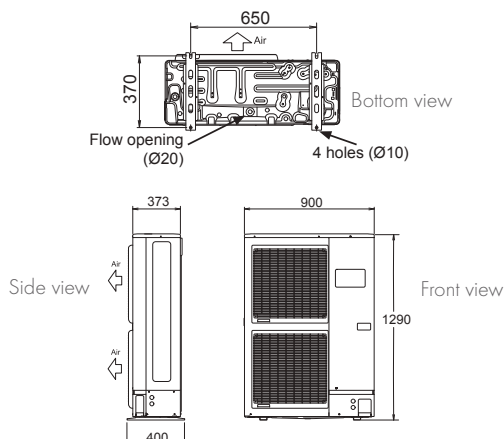
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP, 1,5 m height, open field, directivity 2. - (3) Models with electric back-up. - (4) Acoustic pressure at 5m from HP, 1,5 m height, open field, directivity 2.

DIMENSIONS (MM)

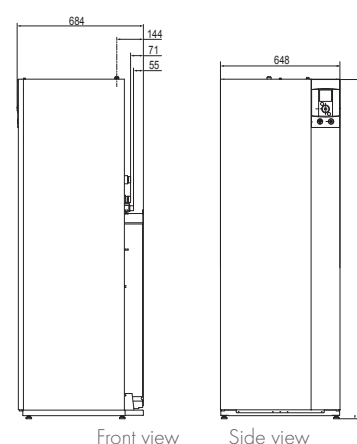
Outdoor Inverter unit Alfea Excellia Duo A.I. 11 and 14 single-phase



Outdoor Inverter unit Alfea Excellia Duo A.I. 11, 14 and 16 three-phases



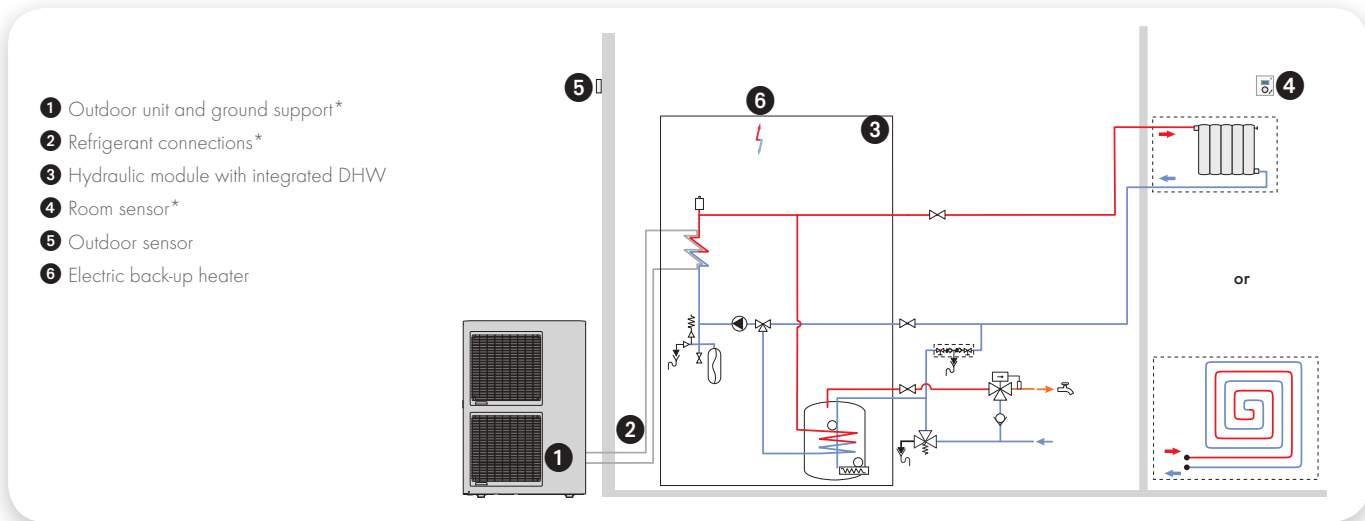
Indoor hydraulic module



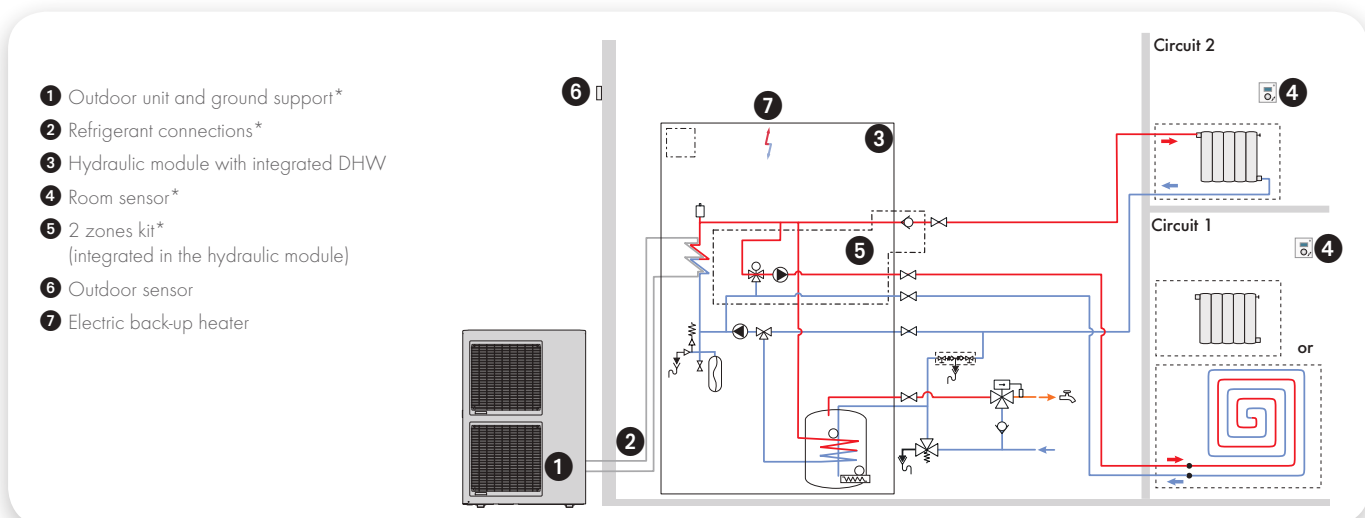
ALFEA EXCELLIA DUO

Installation schematics

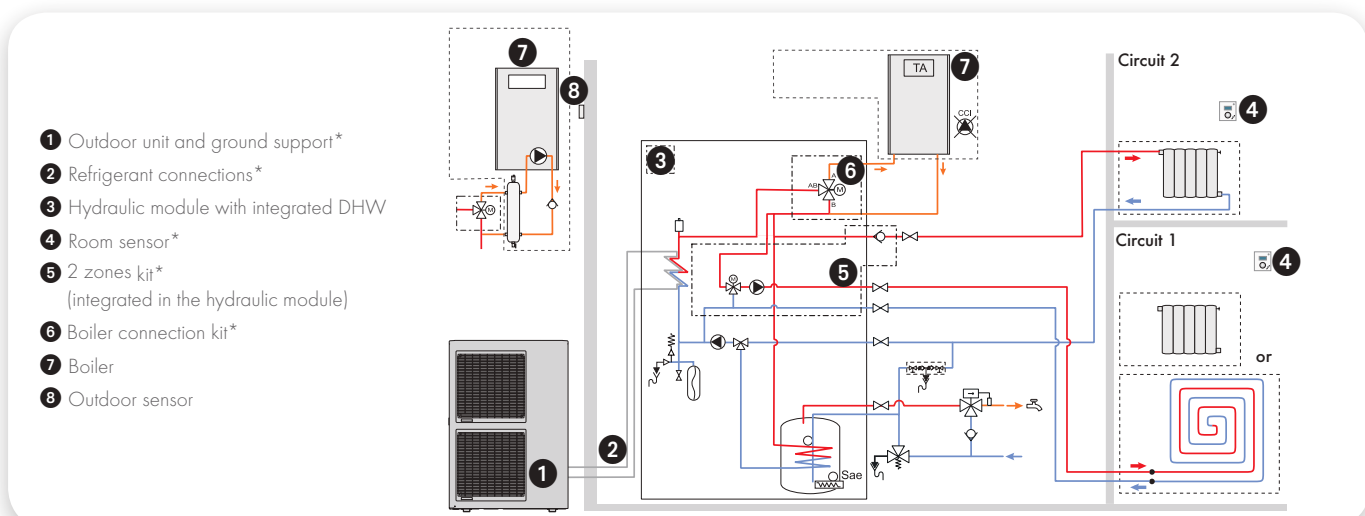
ALFEA EXCELLIA DUO A.I.: 1 HEATING ZONE



ALFEA EXCELLIA DUO A.I.: 2 HEATING ZONES



ALFEA EXCELLIA DUO A.I. CONNECTED TO BOILER: BACK-UP AND 2 HEATING ZONES



*Option

ALFEA HYBRID DUO OIL LOW NOX

Split air-to-water heat pump with built-in oil burner (heating + DHW)
Hybrid heat pump solution for renovation projects



Indoor hydraulic module



Outdoor Inverter unit



Product

- Built-in 25 kW low NOx oil burner (<80 mg/kWh)
- Integrated 125L stainless steel DHW tank
- High temperature solution (80°C) for renovation projects
- Ergonomic control: outdoor sensor control (standard supply) and programmable indoor temperature
- **NAVISTEM 200S** regulator
- COP up to 4.08 (+7°C / +35°C)
- Patented coaxial heat exchanger
- Inverter regulation
- Low energy consumption circulation pump
- Easy installation and maintenance : hinged heating element access panel, accessible components, maintenance platform integrated in burner

DESCRIPTION

- Replacement of existing oil boiler
- 4 models: 11 to 14kW – single-phase (chimney/flue)
- 6 models: 11 to 16kW – three-phase (chimney/flue)
- Heating and DHW integrated
- 1 or 2 heating zones
- Performing heat pump working with outside temperature from -25°C to +35°C

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play kit)
- Room sensor

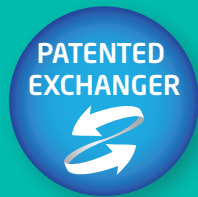
SUPPLIES

Indoor hydraulic module

- Fully integrated system with coaxial exchanger and oil exchanger
- 125L stainless steel DHW tank
- Built-in 25 kW low NOx oil burner (<80 mg/kWh)
- Heat circulation pump
- Expansion vessel, valve, pressure meter
- Outdoor sensor
- Motorised mixing valve

Outdoor Inverter unit

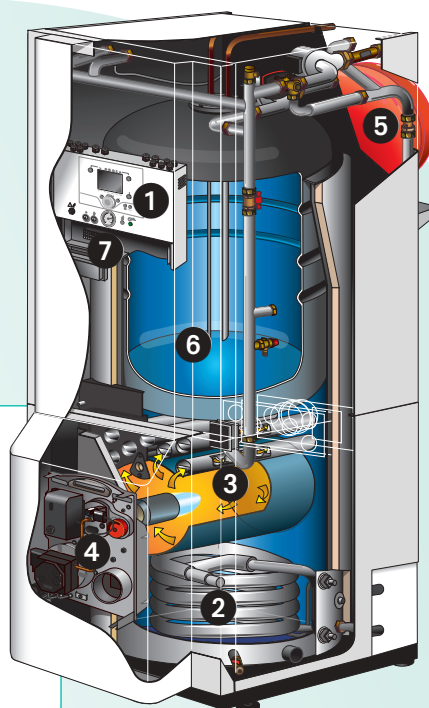
- Outdoor Inverter unit with Twin Rotary compressor



Energy class

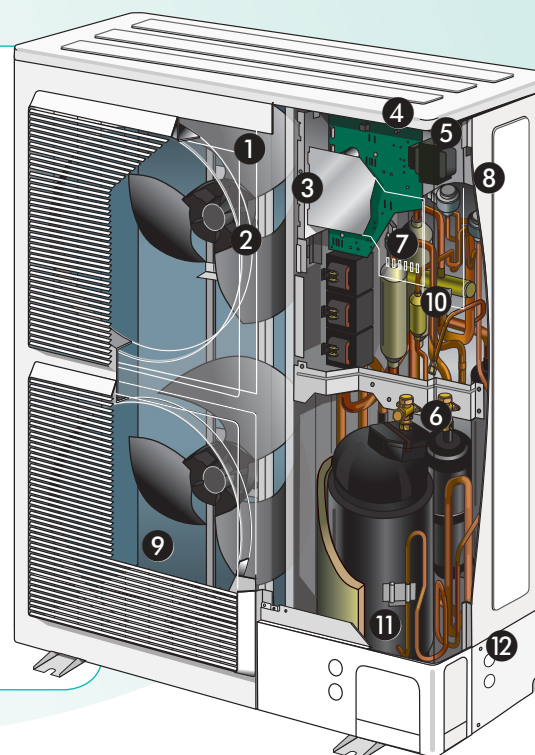
| | |
|-----------------|-------|
| 55 °C A+ | A |
|-----------------|-------|

INDOOR HYDRAULIC MODULE



- 1 Control panel
- 2 Coaxial heat exchanger
- 3 Heating element
- 4 Oil burner
- 5 Heating expansion vessel
- 6 Hot water tank
- 7 Electric distribution board

OUTDOOR INVERTER UNIT



- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connection terminal blocks (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10 Electronic expansion valve
- 11 Noise and temperature insulated "Inverter" compressor
- 12 Refrigerating connection valves (flared connectors) with protective cover

TECHNICAL CHARACTERISTICS AND PERFORMANCES

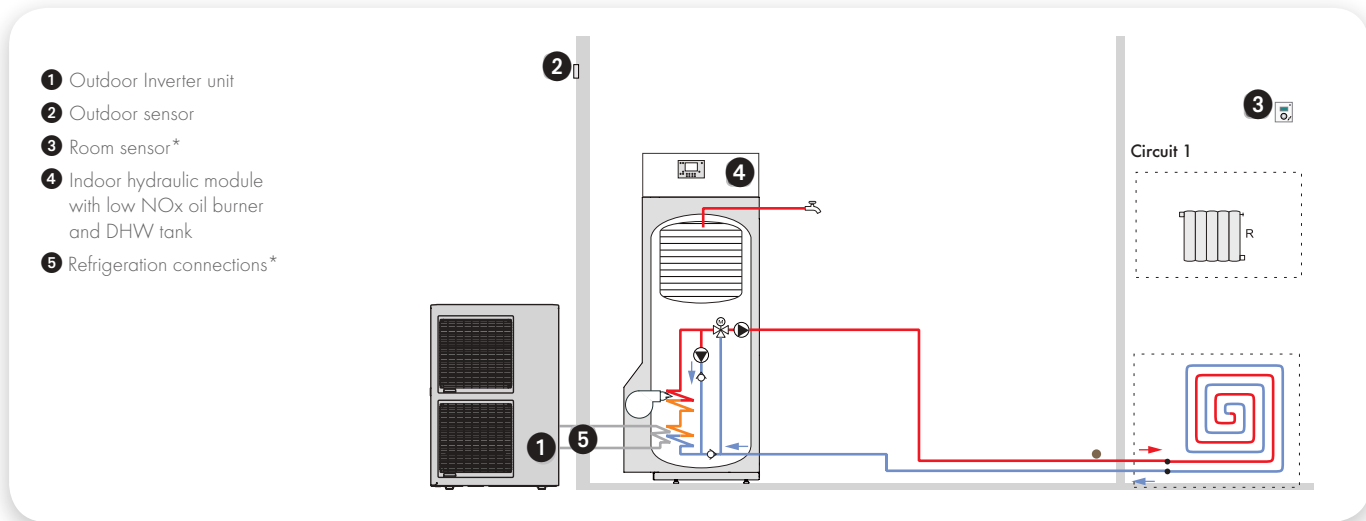
| | UNIT | ALFEA HYBRID DUO OIL LOW NO _x 11 | ALFEA HYBRID DUO OIL LOW NO _x 14+ | ALFEA HYBRID DUO OIL LOW NO _x TRI 11 | ALFEA HYBRID DUO OIL LOW NO _x TRI 14 | ALFEA HYBRID DUO OIL LOW NO _x TRI 16 |
|---|--------|---|--|---|---|---|
| | | R410A | R410A | R410A | R410A | R410A |
| REFRIGERANT | | | | | | |
| MAIN CHARACTERISTICS | | | | | | |
| Heating capacity +7°C/+35°C - Underfloor Heating | kW | 10.30 | 13.50 | 10.60 | 13.25 | 14.89 |
| COP +7°C/+35°C | - | 3.95 | 3.80 | 3.90 | 4.08 | 3.96 |
| Heating capacity -7°C/+35°C - Underfloor Heating | kW | 10.10 | 11.22 | 9.75 | 13.00 | 13.50 |
| COP -7°C /+35°C | - | 2.56 | 2.4 | 2.65 | 2.51 | 2.5 |
| Heating capacity +7°C/+45°C - Low T° radiators | kW | 9.05 | 11.32 | 10.10 | 12.60 | 13.00 |
| COP +7°C/+55°C | - | 3.21 | 3.07 | 3.36 | 3.31 | 3.25 |
| Heating capacity -7°C/+45°C - Low T° radiators | kW | 8.33 | 10.41 | 8.66 | 12.5 | 13 |
| COP -7°C/+45°C | - | 2.06 | 1.99 | 2.14 | 2.08 | 2.04 |
| Nominal thermal power of oil back-up | kW | 25 | 25 | 25 | 25 | 25 |
| ErP ENERGY EFFICIENCY CHARACTERISTICS - HEATING - AVERAGE CLIMAT | | | | | | |
| Energy class - Heating (55°C) | - | A+ | A+ | A+ | A+ | A+ |
| Thermal power - heat pump (55°C) | kW | 10 | 13 | 11 | 13 | 14 |
| Seasonal energy efficiency - Heating (55°C) with outdoor sensor | % | 113 | 113 | 118 | 116 | 115 |
| Seasonal energy efficiency - Heating (55°C) | % | 111 | 111 | 116 | 114 | 113 |
| Annual energy consumption - Heating (55°C) | kWh | 7266 | 8806 | 7424 | 8896 | 9734 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB(A) | 44 / 69 | 44 / 70 | 44 / 68 | 44 / 68 | 44 / 69 |
| ErP ENERGY EFFICIENCY CHARACTERISTICS - DHW - AVERAGE CLIMAT | | | | | | |
| Declared load profile | - | M | M | M | M | M |
| Energy class - DHW | - | A | A | A | A | A |
| Annual energy consumption - DHW | kWh | 616 | 616 | 616 | 616 | 616 |
| Seasonal energy efficiency (%) - DHW | % | 82 | 82 | 82 | 82 | 82 |
| INDOOR HYDRAULIC MODULE | | | | | | |
| Noise level on Thermodynamic mode ⁽²⁾ | dB(A) | 36 | 36 | 36 | 36 | 36 |
| Dim. chimney version h x w x d | mm | 1711x670x1075 | 1711x670x1075 | 1711x670x1075 | 1711x670x1075 | 1711x670x1075 |
| Dim. room sealed system version h x w x d | mm | 1711x670x1206 | 1711x670x1206 | 1711x670x1206 | 1711x670x1206 | 1711x670x1206 |
| Net weight/filled weight | kg | 215 / 482 | 215 / 482 | 215 / 482 | 215 / 482 | 215 / 482 |
| HYDRAULIC CHARACTERISTICS | | | | | | |
| Combustion chamber capacity | L | 142 | 142 | 142 | 142 | 142 |
| Max working pressure | bar | 3 | 3 | 3 | 3 | 3 |
| Expansion vessel capacity | L | 18 | 18 | 18 | 18 | 18 |
| ELECTRICAL CONNECTIONS | | | | | | |
| Power supply | V / Hz | 230 V / 50 Hz | 230 V / 50 Hz | 230 V / 50 Hz | 230 V / 50 Hz | 230 V / 50 Hz |
| Standby mode consumption | W | 5 | 5 | 5 | 5 | 5 |
| HYDRAULIC CONNECTIONS | | | | | | |
| Ø Heating circ. inlet and outlet | " - mm | 1 / 26x34 | 1 / 26x34 | 1 / 26x34 | 1 / 26x34 | 1 / 26x34 |
| Ø DHW circ. inlet and outlet (male thread) | " - mm | 3/4 / 20x27 | 3/4 / 20x27 | 3/4 / 20x27 | 3/4 / 20x27 | 3/4 / 20x27 |
| CHIMNEY CONNECTION | | | | | | |
| Ø Chimney inlet and outlet | m | 125 / 139 | 125 / 139 | 125 / 139 | 125 / 139 | 125 / 139 |
| Burner optimum depression | Pa | 15 | 15 | 15 | 15 | 15 |
| ROOM SEALED SYSTEM CONNECTION DEPENDING ON MODEL | | | | | | |
| Ø Pipe | mm | 80 / 125 | 80 / 125 | 80 / 125 | 80 / 125 | 80 / 125 |
| OPERATING RANGE | | | | | | |
| Min./max. hot/cold outdoor temperature (heat pump) | °C | -25 / +35 | -25 / +35 | -25 / +35 | -25 / +35 | -25 / +35 |
| Heating flow water max T° | °C | 80 | 80 | 80 | 80 | 80 |
| Max water T°(heat pump) | °C | 60 | 60 | 60 | 60 | 60 |
| OUTDOOR UNIT | | | | | | |
| Noise level ⁽³⁾ | dB(A) | 46 | 47 | 46 | 47 | 48 |
| Operating weight | kg | 92 | 92 | 99 | 99 | 99 |
| Power supply | V / Hz | 230 V / 50 Hz | 230 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz |
| REFRIGERANT CHARACTERISTICS | | | | | | |
| R410A factory load | g | 2500 | 2500 | 2500 | 2500 | 2500 |
| Quantity of refrigerant in tons of CO ₂ equivalent | - | 5 | 5 | 5 | 5 | 5 |
| Min./max. length | m | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 |
| Max. difference in height | m | 15 | 15 | 15 | 15 | 15 |
| Volume of tank | L | 125 | 125 | 125 | 125 | 125 |

(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment - (2) Acoustic pressure at 1m from HP, 1,5 m height, open field, directivity 2. - (3)Acoustic pressure at 5m from HP, 1,5 m height, open field, directivity 2.

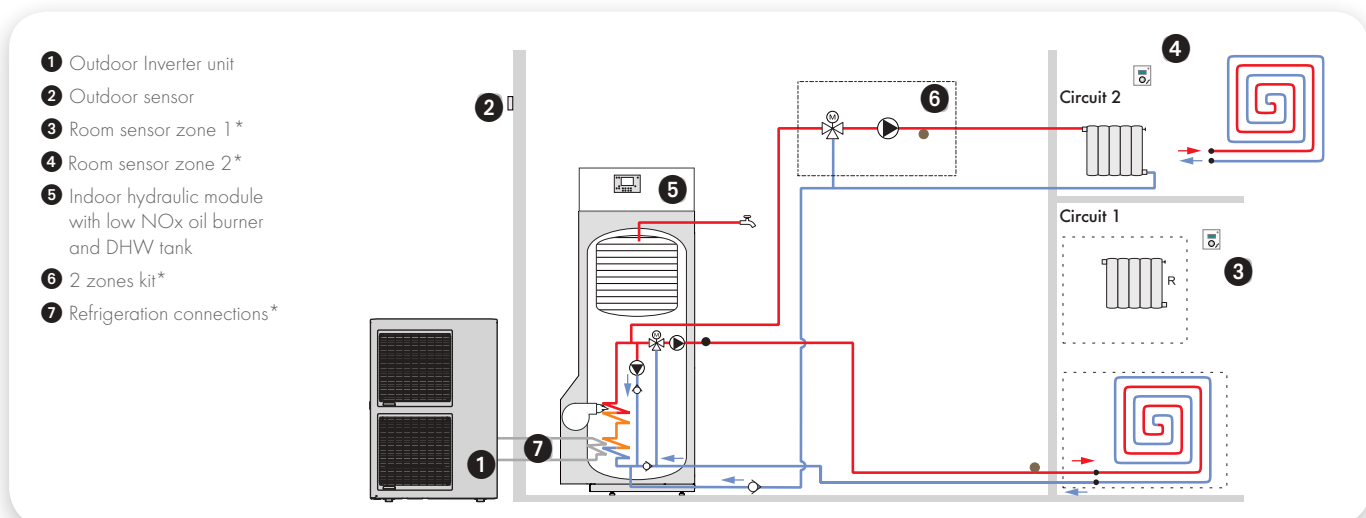
ALFEA HYBRID DUO OIL LOW NOX

Installation schematics

ALFEA HYBRID DUO OIL LOW NOX: 1 HEATING ZONE



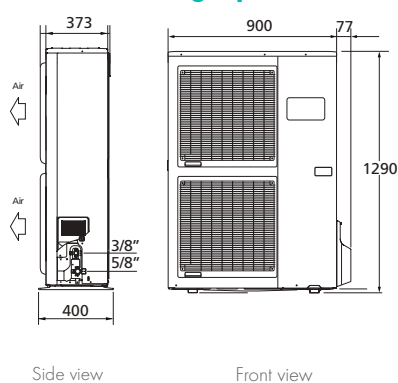
ALFEA HYBRID DUO OIL LOW NOX: 2 HEATING ZONES



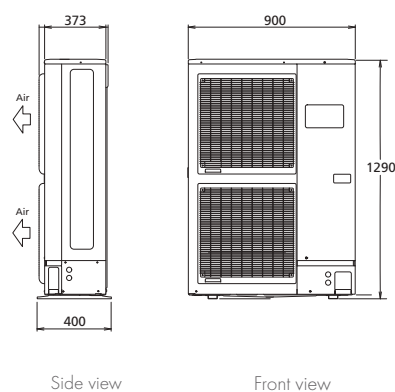
*Option

DIMENSIONS (MM)

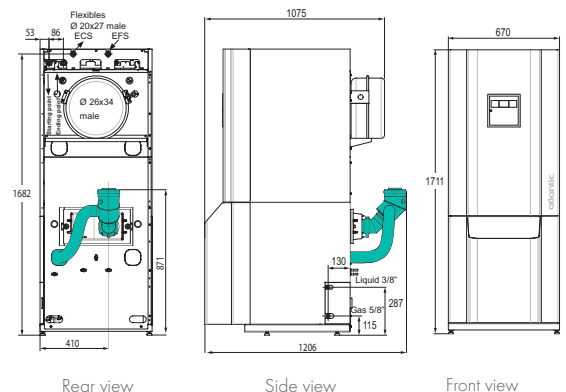
Outdoor Inverter unit Alfea Hybrid Duo Oil Low NOx 11 and 14 single-phase



Outdoor Inverter unit Alfea Hybrid Duo Oil Low NOx 11, 14, 16 three-phase



Indoor hydraulic module



ALFEA HYBRID DUO GAS / GAS R

Split air-to-water heat pump with built-in gas burner (heating + DHW)
Hybrid heat pump solution for renovation projects



Indoor hydraulic module



Outdoor Inverter unit
6 and 8kW



Outdoor Inverter unit
11, 14 and 16kW



Product

- Condensing and modulating gas generator
- Included 120L enamelled steel DHW storage tank
- High temperature solution (80°C) for renovation projects
- COP up to 4.37 (+7°C/+35°C)
- Ergonomic control: outdoor sensor control (standard supply) and programmable indoor temperature
- **NAVISTEM 200S** regulator
- Improved heat pump performance at low temperature
- Easy installation and maintenance : hinged heating element access panel, accessible components, maintenance platform integrated in burner
- Patented coaxial heat exchanger
- Inverter regulation
- Low energy consumption circulation pump
- **Innovation with Alfea Hybrid Duo Gas R models:** cooling mode & new control option allowing energy cost input to optimise heating with more energy savings

DESCRIPTION

- Replacement of existing gas boiler
- 4 models: 6, 8, 11 and 14kW – single-phase
- 3 models: 11, 14 and 16kW – three-phase
- Heating and DHW integrated
- Performing heat pump working with outside temperature from -25°C to +35°C
- 1 or 2 heating zones
- Control: new feature allowing energy cost input to optimise heating with more energy savings*
- Cooling mode*

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play kit)
- Boiler connection kit
- Cooling kit*
- Room sensor

SUPPLIES

Indoor hydraulic module

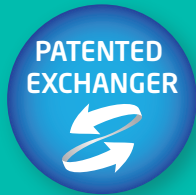
- Coaxial exchanger
- Condensing boiler, 24kW supplied with propane option (natural gas diaphragm supplied)

- 120L glass-lined steel hot water tank with ACI protection
- Low energy consumption circulation pump
- Expansion vessel, valve, pressure meter
- Outdoor sensor
- Motorised mixing valve

Outdoor Inverter unit

- Outdoor Inverter unit with Twin Rotary compressor

* Available for Alfea Hybrid Duo Gas R models



Energy class

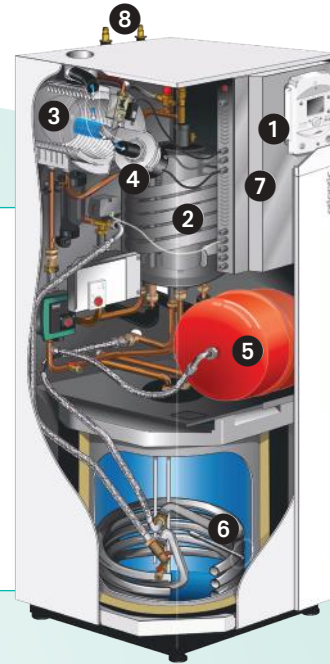


55 °C



INDOOR HYDRAULIC MODULE

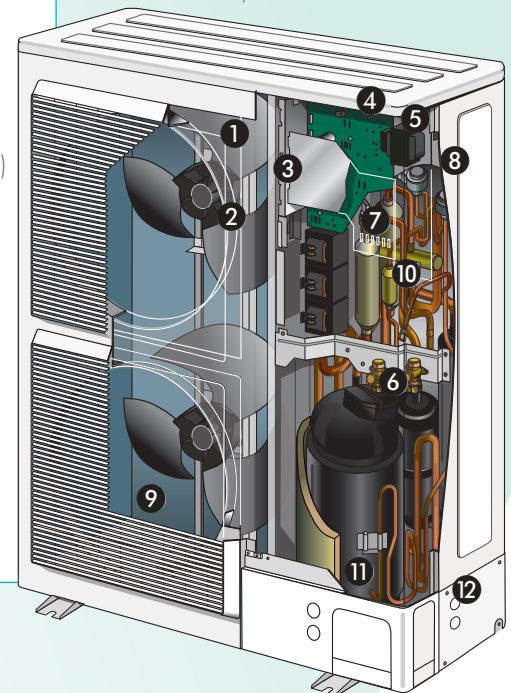
- 1 Control panel
- 2 Coaxial heat exchanger
- 3 Gas condensing unit
- 4 Gas burner
- 5 Heating expansion vessel
- 6 Hot water tank
- 7 Electric distribution board
- 8 Refrigerant connections



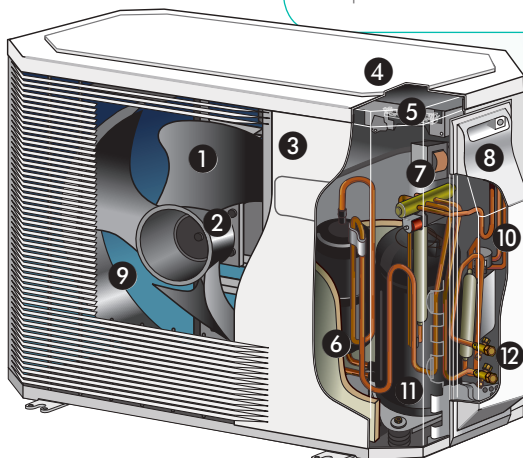
OUTDOOR INVERTER UNIT

- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connector terminal blocks (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10 Electronic expansion valve
- 11 Noise and temperature insulated "Inverter" compressor
- 12 Refrigerating connection valves (flared connectors) with protective cover

Outdoor Inverter unit
11, 14 and 16kW



Outdoor Inverter unit
6 and 8kW



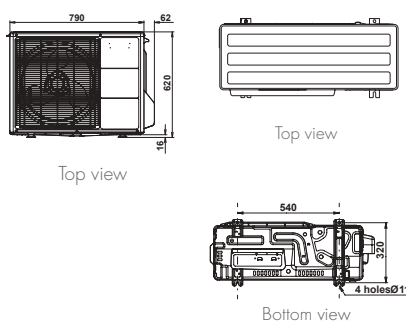
TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | ALFEA HYBRID DUO GAS R 6 | ALFEA HYBRID DUO GAS R 8 | ALFEA HYBRID DUO GAS 11 | ALFEA HYBRID DUO GAS 14 | ALFEA HYBRID DUO GAS TRI 11 | ALFEA HYBRID DUO GAS TRI 14 | ALFEA HYBRID DUO GAS TRI 16 |
|---|--------|--------------------------|--------------------------|-------------------------|-------------------------|-----------------------------|-----------------------------|-----------------------------|
| THERMODYNAMIC PERFORMANCE | | | | | | | | |
| Heating capacity +7°C/+35°C – Underfloor Heating | kW | 5.90 | 7.50 | 10.89 | 13.24 | 10.80 | 13.00 | 15.17 |
| COP +7°C/35°C - Underfloor Heating | - | 4.37 | 4.08 | 4.29 | 4.05 | 4.12 | 4.18 | 4.10 |
| Heating capacity -7°C/+35°C – Underfloor Heating | kW | 4.13 | 5.42 | 11.13 | 11.86 | 10.80 | 12.20 | 12.98 |
| COP -7°C/+35°C - Underfloor Heating | - | 2.60 | 2.47 | 2.71 | 2.48 | 2.52 | 2.38 | 2.28 |
| Heating capacity +7°C/+45°C – Low T°radiators | kW | 5.39 | 6.20 | 9.37 | 11.84 | 9.70 | 12.10 | 12.75 |
| COP +7°C/45°C – Low T°radiators | - | 3.33 | 3.32 | 3.30 | 3.24 | 3.15 | 3.20 | 3.21 |
| Heating capacity -7°C/+45°C – Low T°radiators | kW | 3.84 | 5.05 | 9.36 | 10.89 | 8.89 | 10.7 | 12.5 |
| COP -7°C/+45°C – Low T°radiator | - | 2.04 | 2.04 | 2.19 | 2.21 | 2.05 | 2.08 | 2.03 |
| CONDENSING GAS BACK-UP BURNER PERFORMANCES | | | | | | | | |
| Class according to efficiency directive 92/42/CEE | - | Condensation | Condensation | Condensation | Condensation | Condensation | Condensation | Condensation |
| Gas type | - | Natural/Propane | Natural/Propane | Natural/Propane | Natural/Propane | Natural/Propane | Natural/Propane | Natural/Propane |
| Charge 30 % - return water T° 30°C | % | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 | 109.3 |
| Heating power range | kW | 5.5 to 24 | 5.5 to 24 | 5.5 to 24 | 5.5 to 24 | 5.5 to 24 | 5.5 to 24 | 5.5 to 24 |
| Indoor module tank capacity | L | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| Expansion vessel capacity | L | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| ErP ENERGY EFFICIENCY & ACOUSTIC VALUES | | | | | | | | |
| Energy class - Heating (55°C) | - | A+ | A+ | A+ | A+ | A+ | A+ | A+ |
| Rated heat output (55°C) Pac | kW | 5 | 6 | 9 | 11 | 9 | 11 | 13 |
| Seasonal energy efficiency - Heating (55°C) with outdoor sensor | % | 117 | 120 | 114 | 115 | 114 | 119 | 119 |
| Seasonal energy efficiency - Heating (55°C) | % | 115 | 118 | 112 | 113 | 112 | 117 | 117 |
| Annual energy consumption - Heating (55°C) | kWh | 3180 | 3836 | 6841 | 8041 | 6669 | 7803 | 9062 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB (A) | 46 / 63 | 46 / 69 | 46 / 69 | 46 / 70 | 46 / 66 | 46 / 68 | 46 / 69 |
| ErP DHW ENERGY EFFICIENCY | | | | | | | | |
| Declared load profile | - | XXL | XXL | XXL | XXL | XXL | XXL | XXL |
| Energy class - DHW | - | B | B | B | B | B | B | B |
| Seasonal energy efficiency (%) - DHW | kWh | 6446 | 6446 | 6446 | 6446 | 6446 | 6446 | 6446 |
| Seasonal energy efficiency (%) - DHW | % | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| DHW flow according to regulation EN 13203 | L/mn | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| DHW tank capacity | L | 120 | 120 | 120 | 120 | 120 | 120 | 120 |
| BALANCE FLUE CONNECTION (VERTICAL AND HORIZONTAL) | | | | | | | | |
| Ø Smoke tubes/ air sucking (C13,C33) | mm | 80 / 125 | 80 / 125 | 80 / 125 | 80 / 125 | 80 / 125 | 80 / 125 | 80 / 125 |
| Ø Smoke tubes (C53) | mm | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| CHIMNEY CONNECTION | | | | | | | | |
| Ø Smoke tubes | mm | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| INDOOR HYDRAULIC MODULE | | | | | | | | |
| Noise level ⁽²⁾ | dB (A) | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| Dimensions h x w x d | mm | 1800x598x647 | 1800x598x647 | 1800x598x647 | 1800x598x647 | 1800x598x647 | 1800x598x647 | 1800x598x647 |
| Operating weight | kg | 135 / 278 | 135 / 278 | 135 / 278 | 135 / 278 | 135 / 278 | 135 / 278 | 135 / 278 |
| OUTDOOR UNIT | | | | | | | | |
| Noise level ⁽³⁾ | dB(A) | 41 | 47 | 47 | 48 | 44 | 46 | 47 |
| Operating weight | kg | 41 | 42 | 92 | 92 | 99 | 99 | 99 |
| Power supply | V / Hz | 230 V / 50 Hz | 230 V / 50 Hz | 230 V / 50 Hz | 230 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz | 400 V / 50 Hz |
| REFRIGERANT CHARACTERISTICS | | | | | | | | |
| Min./max. length | m | 5 / 30 | 5 / 30 | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 | 5 / 20 |
| Max. difference in height | m | 20 | 20 | 15 | 15 | 15 | 15 | 15 |
| Refrigerant | - | R410A | R410A | R410A | R410A | R410A | R410A | R410A |
| R410A factory load | g | 1100 | 1400 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Quantity of refrigerant in tons of CO ² equivalent | - | 2 | 3 | 5 | 5 | 5 | 5 | 5 |

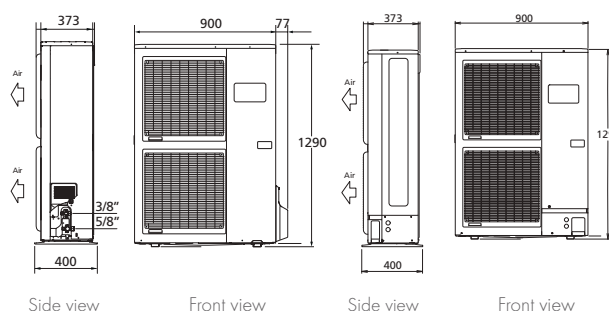
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP, 1,5 m height, directivity 2 - (3) Acoustic pressure at 1m from HP, 5 m height, directivity 2

DIMENSIONS (MM)

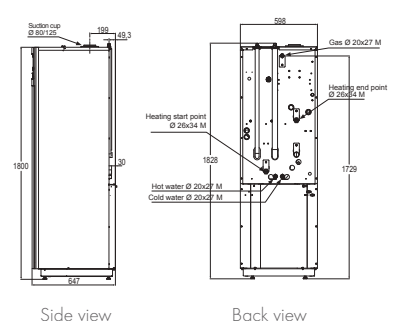
Outdoor Inverter unit Alfea Hybrid Duo Gas R6, R8



Outdoor Inverter unit Alfea Hybrid Duo Gas 11, 14kW single-phase and 11, 14, 16kW three-phase



Indoor hydraulic module

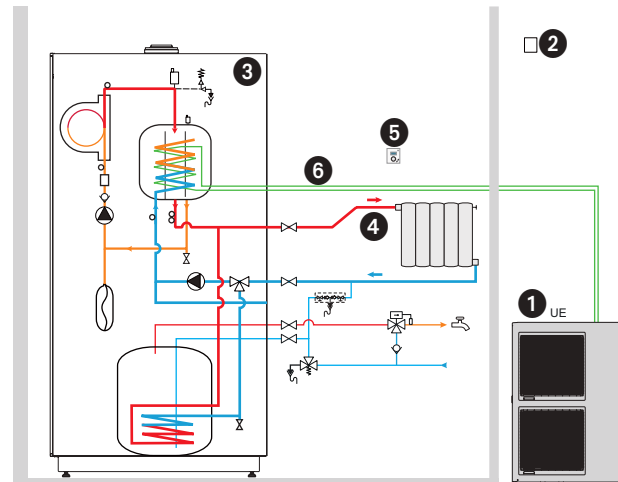


ALFEA HYBRID DUO GAS / GAS R

Installation schematics

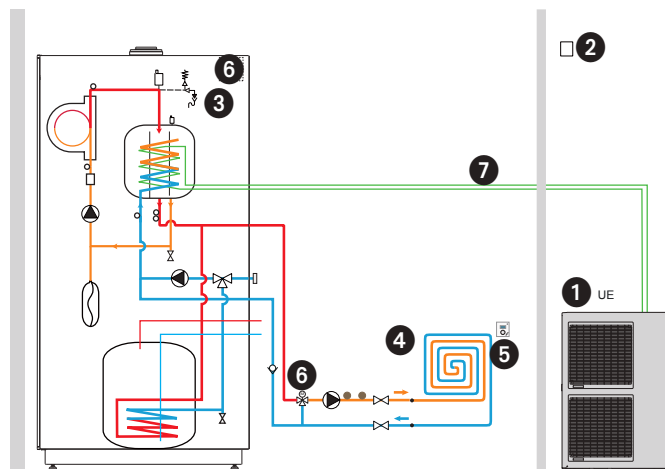
ALFEA HYBRID DUO GAS: 1 HEATING ZONE

- ❶ Outdoor Inverter unit
- ❷ Outdoor sensor
- ❸ Indoor hydraulic module with back-up boiler and DHW tank
- ❹ Radiators
- ❺ Room sensor*
- ❻ Refrigeration connections*



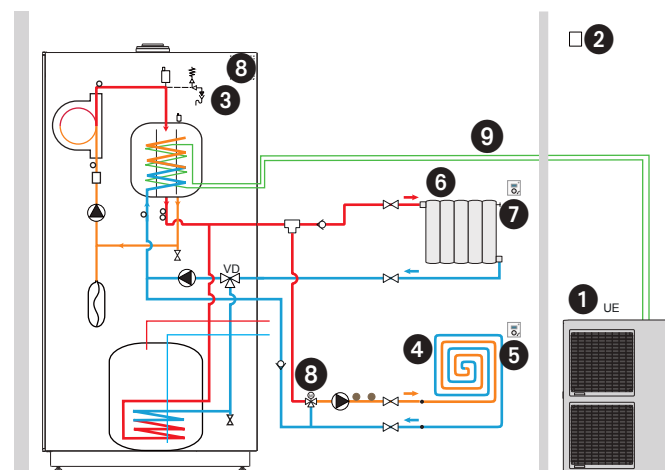
ALFEA HYBRID DUO GAS: 1 HEATING ZONE - UNDERFLOOR HEATING

- ❶ Outdoor Inverter unit
- ❷ Outdoor sensor
- ❸ Indoor hydraulic module with back-up boiler and DHW tank
- ❹ Underfloor heating
- ❺ Room sensor*
- ❻ 2 zones kit or floor heating*
- ❼ Refrigeration connections*



ALFEA HYBRID DUO GAS: 2 HEATING ZONES (RADIATOR + UNDERFLOOR HEATING)

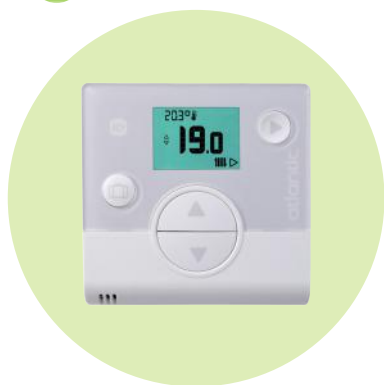
- ❶ Outdoor Inverter unit
- ❷ Outdoor sensor
- ❸ Indoor hydraulic module with back-up boiler and DHW tank
- ❹ Underfloor heating
- ❺ Room sensor zone 1*
- ❻ Radiators
- ❼ Room sensor zone 2*
- ❽ 2 zones kit or underfloor heating*
- ❾ Refrigeration connections*



*Option

ALFEA RANGE ACCESSORIES

▶ ROOM SENSOR UNIT NAVILINK A59 NEW



Product

- Indoor temperature and operating mode display
- Possibility of set temperature modification
- Easy management of Absence and Vacation modes

DESCRIPTION

- Power supply by wire or by battery
- Indoor temperature measurement
- Main functions control: ambient temperature and operating modes settings

▶ ROOM SENSORS NAVILINK A75 / A78 NEW



Navilink A75

Navilink A78

Product

- Indoor temperature and operating mode display
- Possibility of set temperature modification
- Easy management of Absence and Vacation modes
- Possibility of hourly programming
- Energy consumption indicator

DESCRIPTION

- Power supply by wire (A75) or by battery (A78)
- Indoor temperature measurement
- All end-user functions of **NAVISTEM 400S** control unit

▶ DOMESTIC HOT WATER TANK MILEO / MILEO+



Product

- DHW kit allowing quick connection between DHW tank and heat pump
- 2 ranges:
 - standard (Mileo)
 - thermodynamique optimisation (Mileo+)

DESCRIPTION

- DHW storage tank range
- 160 to 500L tanks
- Glass-lined steel tank
- Electric back-up heater 3.3 kW supplied as standard

▶ 2 ZONES KIT



2 zones kit for single service heat pump

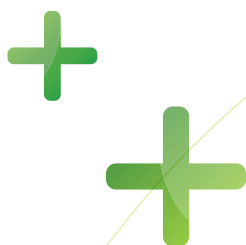
Product

- 2 zones kit for dual service heat pump (except Alfea Hybrid Duo Gas)
- Integrated low consumption circulation pump (except for Hybrid range)

DESCRIPTION

- 2 zones kit to control two hydraulic zones, together or separately
- Compatible with underfloor heating/cooling, radiators, fan coils pump control panel

▶ COOLING KIT



Product

- Kit integrates into hydraulic module
- Simple and quick installation
- Year-round comfort

DESCRIPTION

- Plug-in cooling kit
- Allows reversibility function (available for all Alfea models, except for Alfea Hybrid Duo Oil Low NOx)

▶ HEAT PUMP ADDITIONAL RELAY KIT

NEW



Product

- Compatible with Alfea Extensa A.I and Alfea Extensa Duo A.I.
- Allows to increase the power of electric back-up heater from 3 to 6kW

DESCRIPTION

- 6KW additional relay kit
- Integrable in electrical box of the heat pump

▶ ACCESSORIES FOR OUTDOOR UNIT



White PVC floor support (x2)



Black rubber floor support (x2)



Wall bracket* 600 mm (with bar)



Heating cable



Refrigerant pipes**



Protection pipes for refrigerant pipes

* Installer has to make sure that the wall bracket installation will not transmit vibration (ground position is being preferred)

** For a better protection of insulation against UV, Atlantic recommends the installation of protection pipes together with refrigerant pipes

AIR-TO-WATER HEAT PUMPS

Loria is our range of compact split air-to-water heat pumps, consisting of a new designed indoor hydraulic module connected by a refrigerant link to an outdoor unit.

The calories collected from the outside air are carried via this network to provide heating. Atlantic R&D teams have designed Loria hydraulic modules, benefiting from Atlantic's heat pump experience, in order to optimise the technology for the new-build market, with its particular needs.



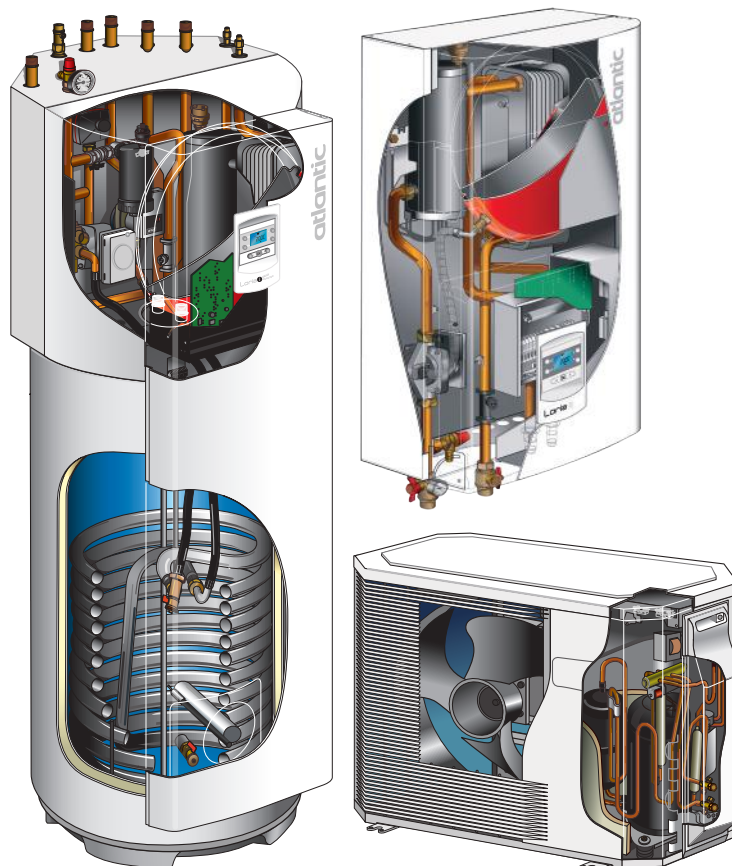
▶ TECHNICAL BENEFITS

Ergonomic design, in a small space!

The Loria range offers the best possible performance with a small footprint, thanks to optimised design and control performance together with a compact plate heat exchanger.

Complete and simple solution for new build projects

- Outdoor Inverter unit
- Built-in electric back-up as standard
- Possibility of 2 heating zones*
- Cooling*
- Magnetic mud filter (standard supply for Loria Duo)



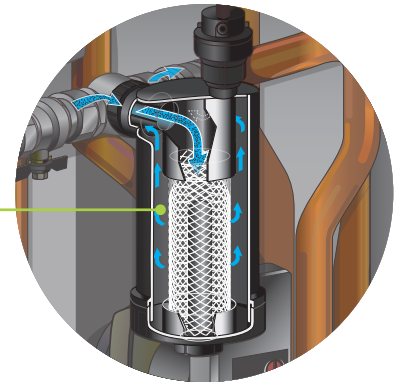
*Option

LORIA RANGE



Easy maintenance

- Hinged electric cabinet to access internal components
- Loria: filter valve (as standard) outside the hydraulic module, easy to remove and clean
- Loria Duo: built-in magnetic mud filter as standard



Easy set-up

- Inverter regulation, acting directly on the compressor rate
- Configurable temperature control
- Choice of control options:
 - 2 heating zones
 - Cooling
 - DHW storage tank
- Floor drying programme

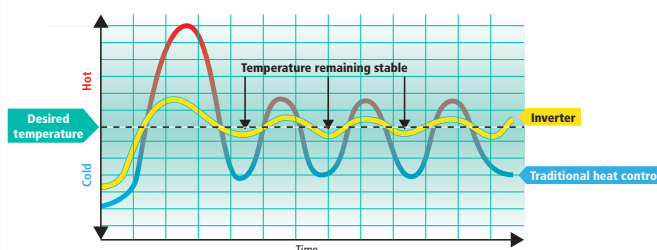
Performances

- COP of up to 4.96
- Up to A+++
- Full Inverter regulation
- Low energy consumption circulation pump

Atlantic regulator NAVISTEM 100H

- A new Atlantic Navistem 100H interface gives you access to the main functions with:
 - Backlit display
 - Code navigation
 - Control of various modes (programming, permanent, vacation, etc.)

Comparison between Inverter and traditional heat control



LORIA

Split energy-efficient air-to-water heat pump
Average temperature solution for new build projects



Indoor hydraulic module



Outdoor Inverter unit



Product

- COP up to 4.80 (+7°/+35°)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- **NAVISTEM 100H** regulator
- Space-saving indoor hydraulic module
- Integrated electric back-up heater
- Inverter regulation
- One or two heating zone(s) management

DESCRIPTION

- Simple solution for new build projects
- 4 models: 4 to 10 kW - single-phase
- Performing heat pump working with outside temperature from -20°C to +35°C
- Heating departure temperature max. 55°C

AVAILABLE OPTIONS

- Magnetic mud filter
- 2 zones kit (plug-and-play kit)
- Cooling kit
- Separated hot water tank
- Room sensor

SUPPLIES

Indoor hydraulic module

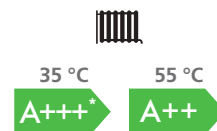
- Plate heat exchanger
- Low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter
- Filter valve
- Electric back-up heater

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor
- Full Inverter control

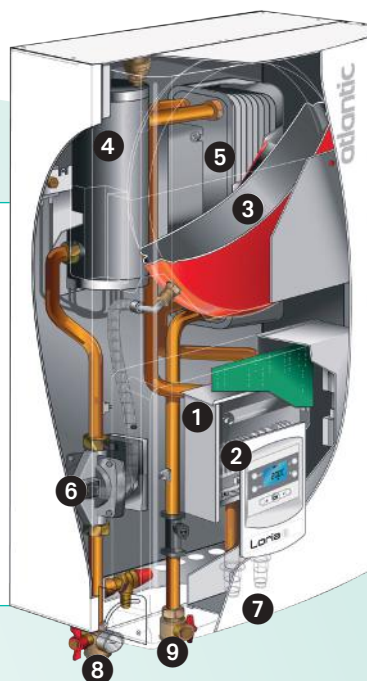


Energy class



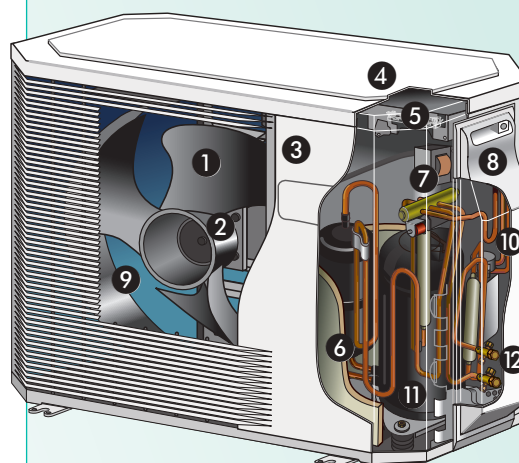
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Expansion vessel
- 4 Electric back-up
- 5 Plate heat exchanger
- 6 Low consumption circulation pump
- 7 Refrigerant connections
- 8 Heating flow
- 9 Heating return



OUTDOOR INVERTER UNIT

- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connector terminal blocks (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10 Electronic expansion valve
- 11 Noise and temperature insulated "Inverter" compressor
- 12 Refrigerating connection valves (flared connectors) with protective cover



*Depending on models

TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | LORIA 6004 | LORIA 6006 | LORIA 6008 | LORIA 6010 |
|--|-------|-------------|-------------|-------------|-------------|
| REFRIGERANT | | R410A | R410A | R410A | R410A |
| MAIN CHARACTERISTICS | | | | | |
| Heating capacity +7°C/+35°C – Underfloor Heating | kW | 4.00 | 6.00 | 7.50 | 10.42 |
| COP +7°C/+35°C - Underfloor Heating | | 4.80 | 4.45 | 4.15 | 4.40 |
| Heating capacity -7°C/+35°C – Underfloor Heating | kW | 4.10 | 5.00 | 5.90 | 7.94 |
| Power consumption -7°C/+35°C - Underfloor Heating | kW | 1.46 | 1.79 | 2.46 | 3.11 |
| COP -7°C/+35°C - Underfloor Heating | | 2.80 | 2.80 | 2.40 | 2.55 |
| Heating capacity +7°C/+45°C – Low T°radiators | kW | 4.00 | 5.10 | 6.20 | 8.51 |
| COP +7°C/+45°C – Low T°radiators | | 3.50 | 3.50 | 3.35 | 3.54 |
| Heating capacity -7°C/+45°C – Low T°radiators | kW | 4.10 | 4.50 | 5.15 | 7.38 |
| COP -7°C/+45°C – Low T°radiator | | 2.30 | 2.26 | 2.10 | 2.11 |
| Heating capacity +7°C/+55°C – Low T°radiators | kW | 3.68 | 4.27 | 5.53 | 6.98 |
| COP +7°C/+55°C – Low T°radiators | | 2.65 | 2.67 | 2.68 | 2.65 |
| Heating capacity -7°C/+55°C – Low T°radiators | kW | 3.72 | 3.88 | 5.03 | 6.47 |
| COP -7°C/+55°C – Low T°radiators | | 1.90 | 1.92 | 1.70 | 1.78 |
| Electric back-up heater | kW | 3 | 3 | 3 | 3 |
| ENERGY EFFICIENCY CHARACTERISTICS | | | | | |
| Energy class - Heating (35°C/55°C) | | A+++ / A++ | A+++ / A++ | A++ / A++ | A++ / A++ |
| Rated heat output (35°C/55°C) | kW | 4 / 4 | 6 / 5 | 7 / 6 | 9 / 7 |
| Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor | % | 183 / 129 | 188 / 130 | 168 / 126 | 156 / 118 |
| Seasonal energy efficiency - Heating (35°C/55°C) | % | 181 / 127 | 186 / 128 | 166 / 124 | 154 / 116 |
| Annual energy consumption - Heating (35°C/55°C) | kWh | 1884 / 2708 | 2588 / 2933 | 3226 / 4197 | 4481 / 5256 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB(A) | 44 / 64 | 44 / 64 | 44 / 69 | 44 / 68 |
| INDOOR HYDRAULIC MODULE | | | | | |
| Noise level ⁽²⁾ | dB(A) | 36 | 36 | 36 | 36 |
| Net weight/filled weight | kg | 37.5 / 41.5 | 37.5 / 41.5 | 37.5 / 41.5 | 37.5 / 41.5 |
| Min./Max. outdoor temperature for heating | °C | -20 / +35 | -20 / +35 | -20 / +35 | -20 / +35 |
| Power supply | | 230 V 50 Hz | 230 V 50 Hz | 230 V 50 Hz | 230 V 50 Hz |
| OUTDOOR UNIT | | | | | |
| Noise level ⁽³⁾ | dB(A) | 42 | 42 | 47 | 47 |
| Operating weight | kg | 41 | 41 | 42 | 60 |
| REFRIGERANT CHARACTERISTICS | | | | | |
| Min./max. length | m | 5 / 30 | 5 / 30 | 5 / 30 | 5 / 30 |
| Max. difference in height | m | 20 | 20 | 20 | 20 |
| R410A factory load | g | 1100 | 1100 | 1400 | 1800 |
| Quantity of refrigerant in tons of CO ₂ equivalent | t | 2 | 2 | 3 | 4 |

(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived.

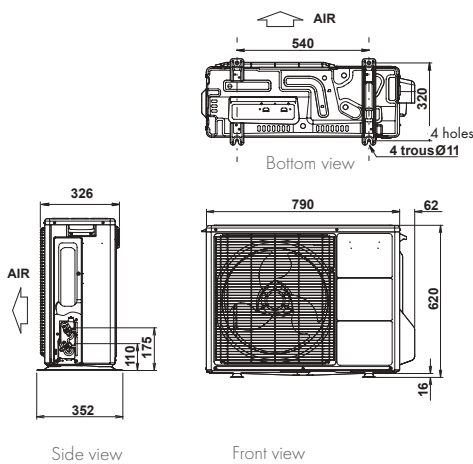
Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment.

(2) Acoustic pressure at 1m from HP, 1.5 m height, open field, directivity 2.

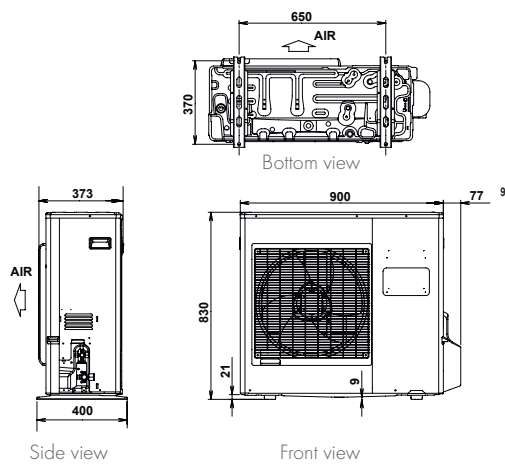
(3) Acoustic pressure at 5m from HP, 1.5 m height, open field, directivity 2.

DIMENSIONS (MM)

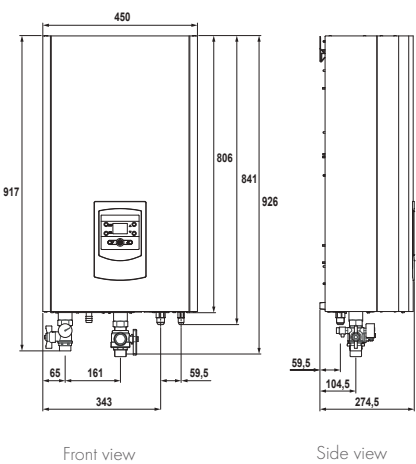
Loria 4,6 and 8kW Outdoor Inverter unit



Loria Duo 10kW Outdoor Inverter unit



Indoor hydraulic module

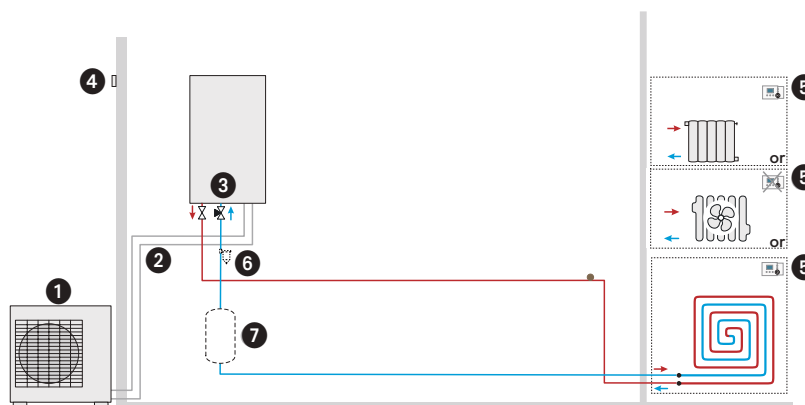


LORIA

Installation schematics

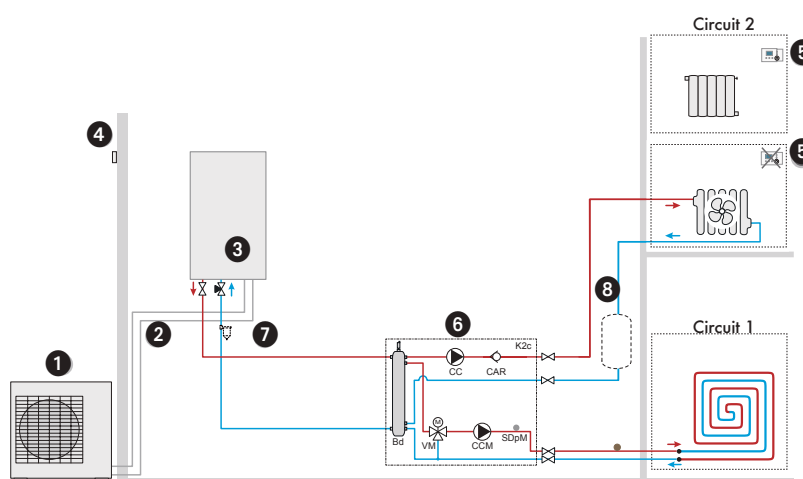
LORIA 6000: 1 HEATING ZONE

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Outdoor sensor
- ❺ Room sensor*
- ❻ Magnetic mud filter*
- ❼ Buffer tank**



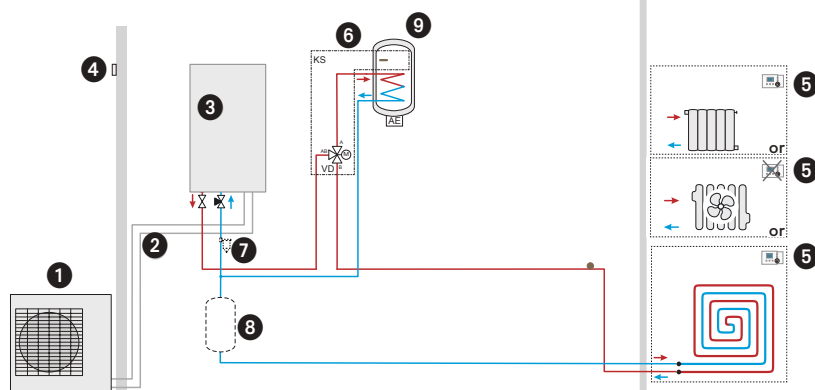
LORIA 6000: 2 HEATING ZONES

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Outdoor sensor
- ❺ Room sensor*
- ❻ 2 zones kit*
- ❼ Magnetic mud filter*
- ❽ Buffer tank**



LORIA 6000: 1 HEATING ZONE + DHW PRODUCTION

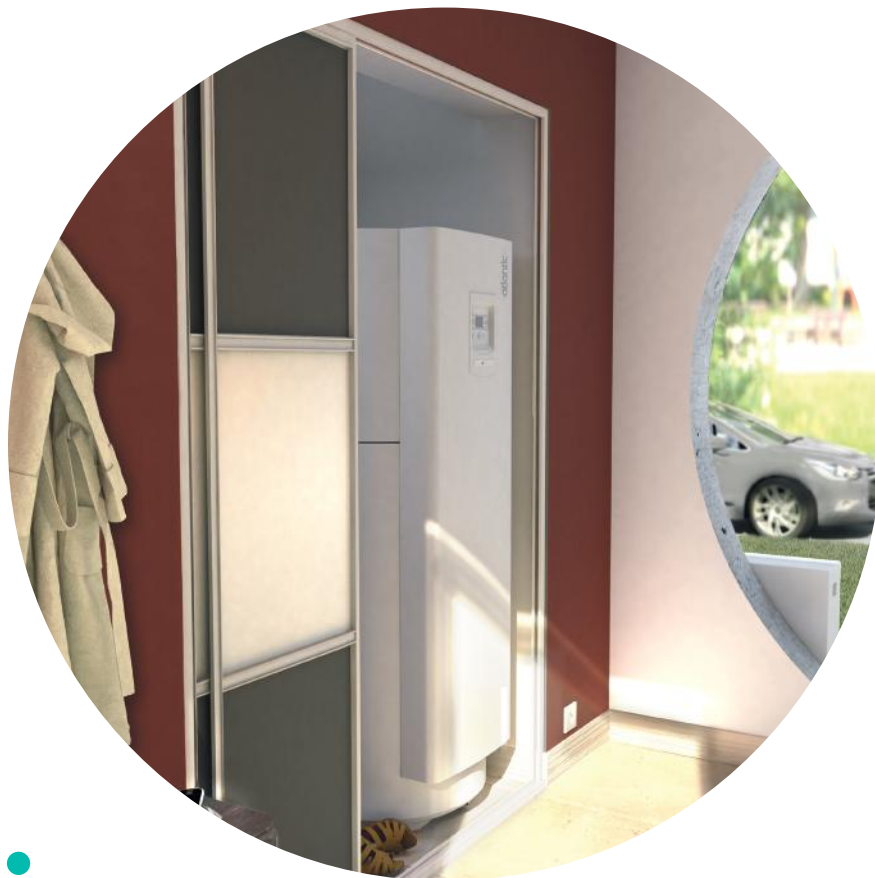
- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Outdoor sensor
- ❺ Room sensor*
- ❻ DHW kit*
- ❼ Magnetic mud filter*
- ❽ Buffer tank**
- ❾ DHW tank*



*Option - **Depending on type of collectors and volume of water in heating circuit, it may be necessary to install a buffer tank

LORIA DUO

Split energy-efficient air-to-water heat pump (heating + DHW)
Average temperature solution for new build projects



Indoor hydraulic module



Outdoor Inverter unit



Product

- Integrated DHW storage tank (190L) with coil and electric back-up heater
- COP up to 4.96 (+7°/+35°)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- NAVISTEM **100H** regulator
- Space-saving indoor hydraulic module due to plate heat exchanger
- Integrated magnetic mud
- Inverter regulation
- One or two heating zones management

DESCRIPTION

- Simple solution for new build projects
- 4 models: 4 to 10 kW – single-phase
- Performing heat pump working with outside temperature from -20°C to +35°C
- Heating flow temperature max. 55°C

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play kit)
- Cooling kit
- Room sensor

SUPPLIES

Indoor hydraulic module

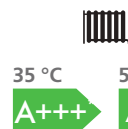
- Plate heat exchanger
- Magnetic mud filter with a screen filter, decanting effect and magnetic effect
- Low consumption circulation pump
- DHW storage tank integrated (190L)
- Outdoor sensor
- Expansion vessel, pressure meter
- Electric back-up heater

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor
- Full Inverter control

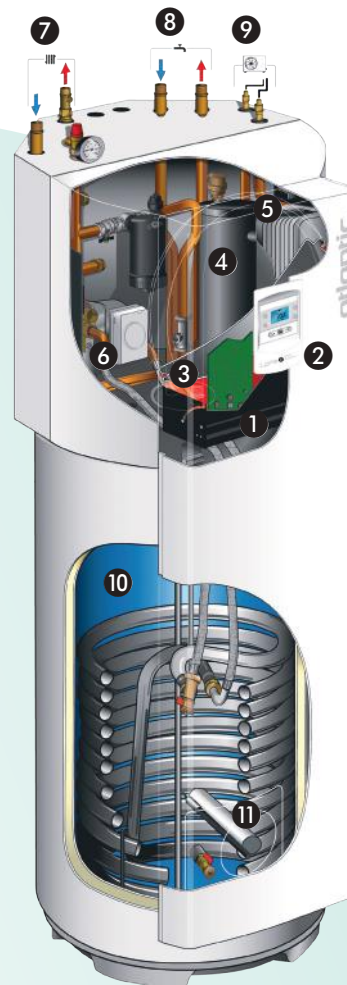


Energy class



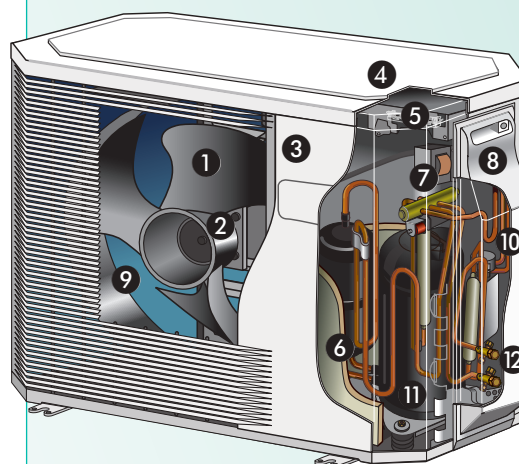
INDOOR HYDRAULIC MODULE

- ❶ Electric board
- ❷ User interface/regulator
- ❸ Expansion vessel
- ❹ Electric back-up
- ❺ Plate heat exchanger
- ❻ Low consumption circulation pump
- ❼ Heating connections
- ❽ DHW connections
- ❾ Refrigerant connections
- ❿ DHW tank
- ⓫ DHW electric back-ups



OUTDOOR INVERTER UNIT

- ❶ Low-noise, high-output ventilator
- ❷ Electric variable speed motor
- ❸ "Inverter" control module
- ❹ Control lights and buttons
- ❺ Connector terminal blocks (power supply and interconnection)
- ❻ Refrigerant accumulator bottle
- ❼ Cycle reversing valve
- ❽ Anti-corrosion treated metal cover
- ❾ High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- ❿ Electronic expansion valve
- ⓫ Noise and temperature insulated "Inverter" compressor
- ⓬ Refrigerating connection valves (flared connectors) with protective cover



*Depending on models

TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | LORIA DUO 6004 | LORIA DUO 6006 | LORIA DUO 6008 | LORIA DUO 6010 |
|--|-------|----------------|----------------|----------------|----------------|
| REFRIGERANT | | R410A | R410A | R410A | R410A |
| MAIN CHARACTERISTICS | | | | | |
| Heating capacity +7°C/+35°C – Underfloor Heating | kW | 4.07 | 6.02 | 7.47 | 10.42 |
| COP +7°C/+35°C - Underfloor Heating | | 4.96 | 4.70 | 4.22 | 4.40 |
| Heating capacity -7°C/+35°C – Underfloor Heating | kW | 4.42 | 5.20 | 5.96 | 7.94 |
| Power consumption -7°C/+35°C - Underfloor Heating | kW | 1.42 | 1.77 | 2.33 | 3.11 |
| COP -7°C/+35°C - Underfloor Heating | | 3.11 | 2.94 | 2.56 | 2.55 |
| Heating capacity +7°C/+45°C – Low T°radiators | kW | 4.09 | 4.98 | 6.40 | 8.51 |
| COP +7°C/+45°C – Low T°radiators | | 3.62 | 3.51 | 3.37 | 3.54 |
| Heating capacity -7°C/+45°C – Low T°radiators | kW | 4.24 | 4.62 | 5.74 | 7.38 |
| COP -7°C/+45°C – Low T°radiator | | 2.48 | 2.38 | 2.21 | 2.11 |
| Heating capacity +7°C/+55°C – Low T°radiators | kW | 3.68 | 4.27 | 5.53 | 6.98 |
| COP +7°C/+55°C – Low T°radiators | | 2.65 | 2.67 | 2.68 | 2.65 |
| Heating capacity -7°C/+55°C – Low T°radiators | kW | 3.72 | 3.88 | 5.03 | 6.47 |
| COP -7°C/+55°C – Low T°radiators | | 1.90 | 1.92 | 1.70 | 1.78 |
| Electric back-up heater | kW | 3 | 3 | 3 | 3 |
| ErP ENERGY EFFICIENCY CHARACTERISTICS | | | | | |
| Energy class - Heating (35°C/55°C) | | A+++ / A++ | A+++ / A++ | A++ / A++ | A++ / A++ |
| Rated heat output (35°C/55°C) | kW | 4 / 4 | 6 / 5 | 7 / 6 | 9/7 |
| Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor | % | 183 / 129 | 188 / 130 | 168 / 126 | 156 / 118 |
| Seasonal energy efficiency - Heating (35°C/55°C) | % | 181 / 127 | 186 / 128 | 166 / 124 | 154 / 116 |
| Annual energy consumption - Heating (35°C/55°C) | kWh | 1884 / 2708 | 2588 / 2933 | 3226 / 4197 | 4481 / 5256 |
| Sound power level (indoor/outdoor) ⁽¹⁾ | dB(A) | 44 / 62 | 44 / 62 | 44 / 69 | 44 / 68 |
| Declared load profile - DHW | | L | L | L | L |
| Energy class - DHW | | A+ | A+ | A+ | A+ |
| Annual water heating energy consumption | kWh | 966 | 966 | 966 | 966 |
| Seasonal water heating energy efficiency (%) | % | 130 | 130 | 130 | 130 |
| INDOOR HYDRAULIC MODULE | | | | | |
| Noise level ⁽²⁾ | dB(A) | 36 | 36 | 36 | 36 |
| Net weight/filled weight | kg | 138 / 332 | 138 / 332 | 138 / 332 | 138 / 332 |
| Power supply | | 230 V 50 Hz | 230 V 50 Hz | 230 V 50 Hz | 230 V 50 Hz |
| OUTDOOR UNIT | | | | | |
| Noise level ⁽³⁾ | dB(A) | 40 | 40 | 47 | 47 |
| Operating weight | kg | 41 | 41 | 42 | 60 |
| REFRIGERANT CHARACTERISTICS | | | | | |
| Min./max. length | m | 5 / 30 | 5 / 30 | 5 / 30 | 5 / 30 |
| Max. difference in height | m | 20 | 20 | 20 | 20 |
| HFC R410A factory load | g | 1100 | 1100 | 1400 | 1800 |
| Quantity of refrigerant in tons of CO ₂ equivalent | t | 2 | 2 | 3 | 4 |

(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived.

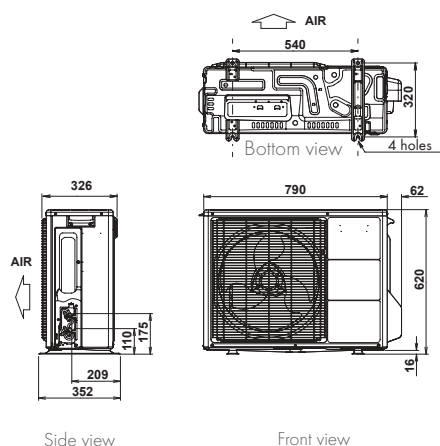
Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment.

(2) Acoustic pressure at 1m from HP, 1.5 m height, open field, directivity 2.

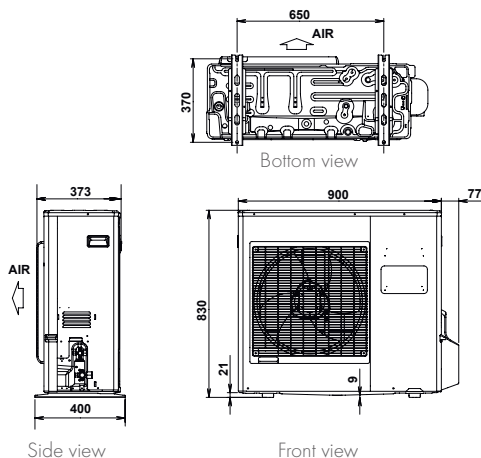
(3) Acoustic pressure at 5m from HP, 1.5 m height, open field, directivity 2.

DIMENSIONS (MM)

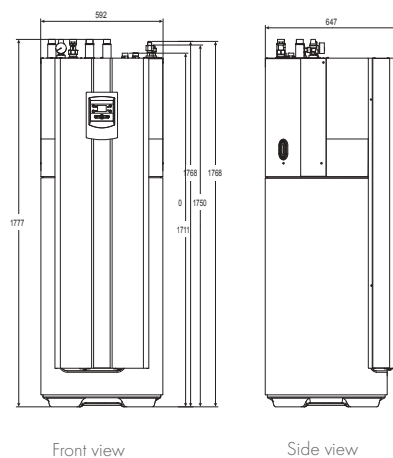
Loria Duo 4, 6 and 8kW Outdoor Inverter unit



Loria Duo 10kW Outdoor Inverter unit



Indoor hydraulic module

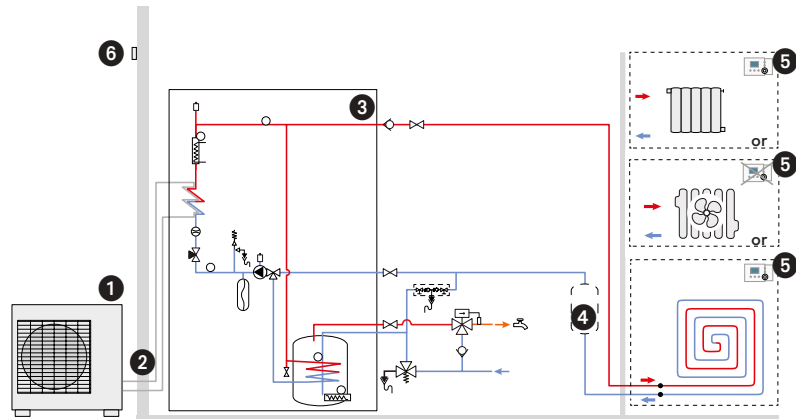


LORIA DUO

Installation schematics

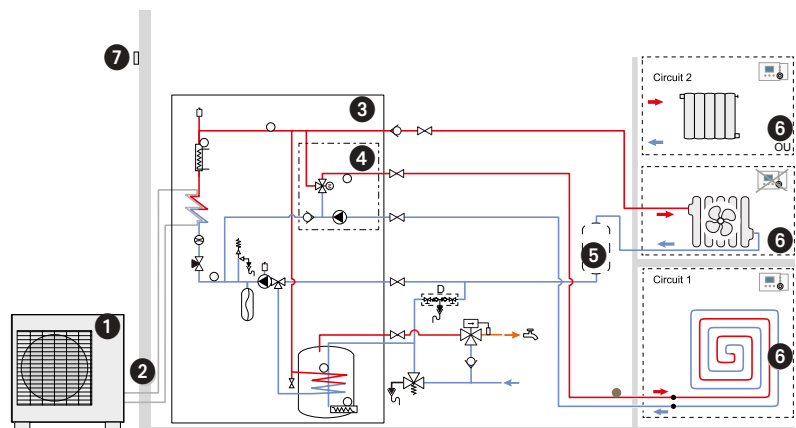
LORIA DUO 6000: 1 HEATING ZONE

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module with integrated DHW
- ❹ Buffer tank**
- ❺ Room sensor (optional, except for fan coil)
- ❻ Outdoor sensor



LORIA DUO 6000: 2 HEATING ZONES (UNDERFLOOR HEATING + RADIATORS)

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module with integrated DHW
- ❹ 2 zones kit*
- ❺ Buffer tank**
- ❻ Room sensor (optional, except for fan coil)
- ❼ Outdoor sensor



*Option - **Depending on type of collectors and volume of water in heating circuit, it may be necessary to install a buffer tank

LORIA RANGE ACCESSORIES

▶ ROOM SENSOR UA55



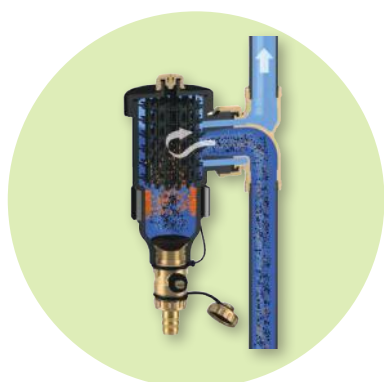
Product

- Indoor temperature and operating mode display
- Quick access to main installation functions
- Boost function

DESCRIPTION

- Wired model
- Full thermal comfort control
- Heating or cooling mode activation

▶ MAGNETIC MUD FILTER (FOR LORIA)



Product

- Capture impurities of the heating circuit

DESCRIPTION

- Magnetic mud filter with a screen filter, decanting effect and magnetic effect (for Loria)
- Integrated in Loria Duo

▶ DOMESTIC HOT WATER TANK MILEO / MILEO+



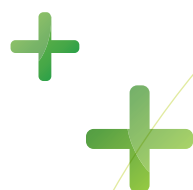
Product

- DHW kit allowing quick connection between DHW tank and heat pump
- 2 ranges:
 - standard (Mileo)
 - thermodynamique optimisation (Mileo+)

DESCRIPTION

- DHW storage tank range
- 160 to 500L tanks
- Glass-lined steel tank
- Electric back-up heater 3.3 kW supplied as standard

▶ MODEM HARNESS KIT



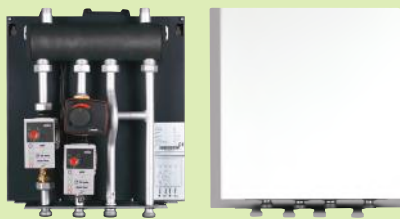
Product

- Remote piloting of your heat pump operating modes

DESCRIPTION

- Modem harness allowing to switch heat pump operating mode remotely

▶ 2 ZONES KIT



2 zones kit for single service heat pump

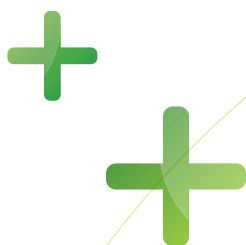
Product

- Integrated low consumption circulation pump
- Compatible with underfloor heating/cooling, radiators, fan coils
- Equipped with hydraulic compensator for Loria single service heat pump

DESCRIPTION

- 2 zones kit for dual service heat to control two hydraulic zones

▶ COOLING KIT



Product

- Kit integrates into hydraulic module
- Simple and quick installation
- Year-round comfort

DESCRIPTION

- Plug-in cooling kit
- Allows reversibility function (for Loria & Loria Duo)

▶ RETRACTOR STRUCTURE KIT



Product

- Hides the lower part of the hydraulic module installation
- Makes hydraulic module installation more user-friendly and aesthetic

DESCRIPTION

- Allowing to derive a heat pump pipes upwards behind hydraulic module

▶ ACCESSORIES FOR OUTDOOR UNIT



White PVC floor support (x2)



Black rubber floor support (x2)



Wall bracket* 600 mm (with bar)



Heating cable



Refrigerant pipes**



Protection pipes for refrigerant pipes

*Installer has to make sure that the wall bracket installation will not transmit vibration (ground position is being preferred)

**For a better protection of insulation against UV, Atlantic recommends the installation of protection pipes together with refrigerant pipes

WALL-IN

Integration system of the outdoor unit



Product

- Outdoor unit invisible from outside
- Mechanical separation to avoid transfer of vibrations
- Condensat collection and evacuation
- Patented separation of air flow to maintain the performance

DESCRIPTION

- Innovative solution to integrate the outdoor unit into the building
- Kit with 3 parts possible to supply to the building site according to the construction phase
- Compliant for outdoor units of ALFEA Extensa+ and Loria up to 8 kW
- For spaces without thermal insulation

SUPPLIES

Grid

- Anti-corrosive protection
- Condensat guides to avoid external water traces
- Bird-safe grid

Internal frame

- Integrated seals
- Reinforced supports

Internal box

- Condensate collector and basin heating cable
- Removable panels for easy access
- Rail with anti-vibration supports for the outdoor unit fixation
- Noise-reducing insulation

PACKING

- 3 packing units: grid, frame and box

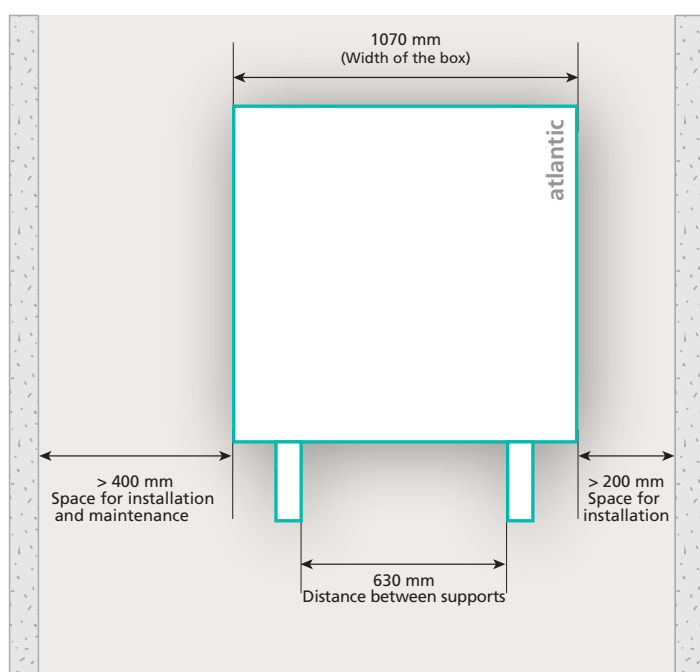
Assembly steps

- Grid : to avoid air / water to enter the room
- Frame : support to be fixed to the wall
- Box : complete cover of the outdoor unit (supplied assembled)

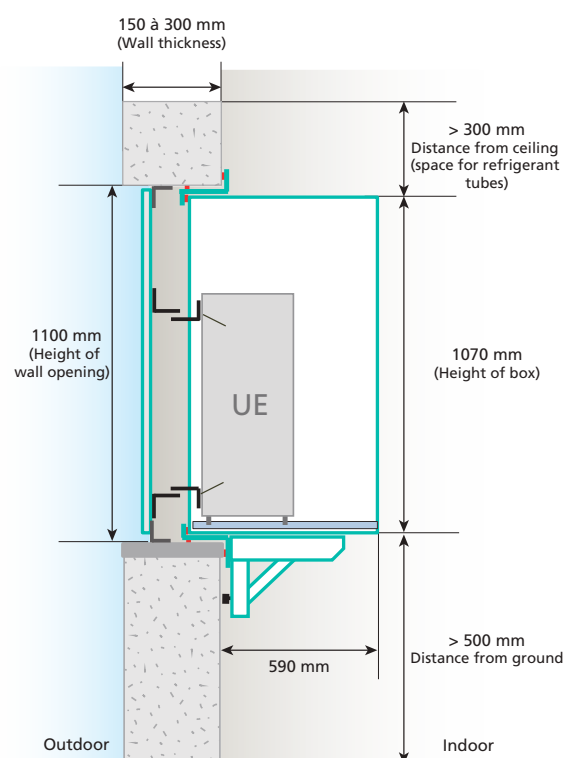


DIMENSIONS (MM)

Surface on the wall to plan : 1100 x 1100 mm



Front view (indoor)



Side view

GROUND SOURCE HEAT PUMPS

USING THE ENERGY OF THE EARTH FOR YOUR EVERYDAY COMFORT

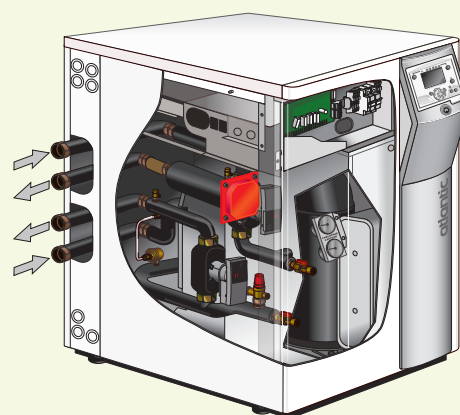
ATLANTIC GEOLIA

- ▶ Installed indoor of the housing, the Atlantic Geolia heat pump receives calories from the ground with its collectors, and use them to heat the house and, if needed, to produce domestic hot water.
- ▶ Insensitive to outdoor temperature variations, Atlantic Geolia has a high stability of its performance, which allows it to have 60°C* of water departure temperature.

* Depending on models and type of collectors

Reliable and multi-functional, Atlantic Geolia is our ground source solution for your projects.

Atlantic Geolia allows simplified installation and maintenance thanks to easy access to all its key components.



Heating only

Complete accessories kit is available to meet all requests in new build and renovation projects.



DHW tank

For more detailed information see p.52-55

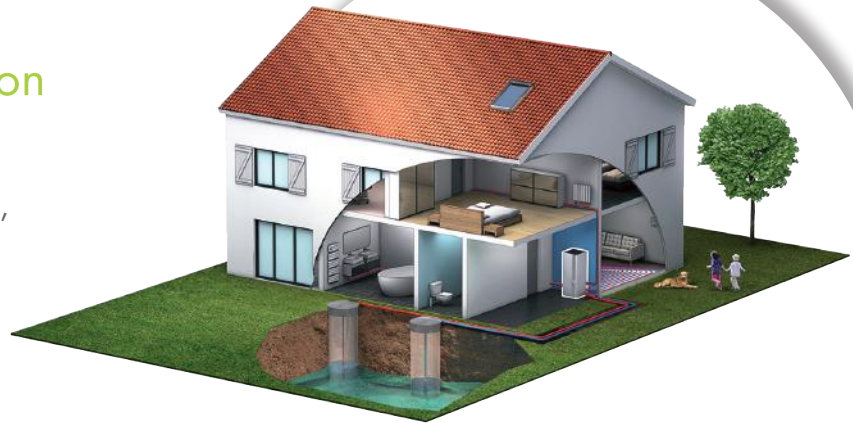


ATLANTIC GEOLIA RANGE



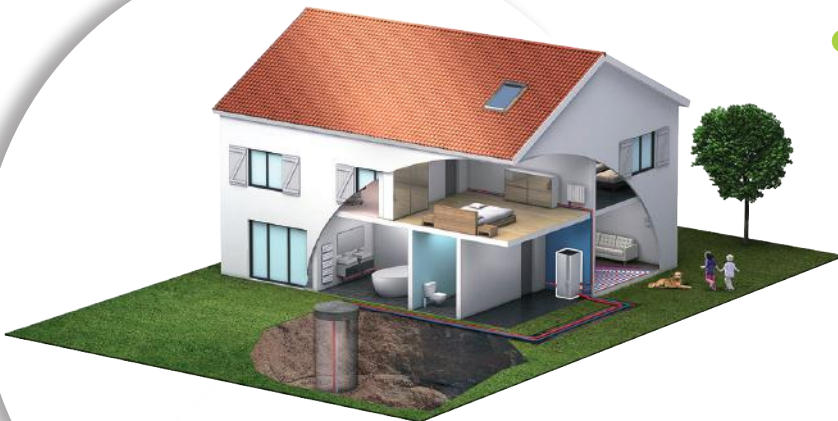
Groundwater collection system

- Groundwater collection system, considering the well pump consumption, ensures high and almost steady output.



Vertical collection system

Perfect solution for renovation projects or for houses with small land.



Horizontal collection system

- Perfect solution for houses with large land or garden.
- Atlantic offers complete kits to make sure that horizontal collection system is adapted to every heat pump power rate.



ATLANTIC GEOLIA

Ground source heat pump (heating + DHW*)
Perfect solution for all geothermal projects



Heating only

Product

- Compatible with all types of collectors (horizontal, vertical, groundwater)
- COP up to 4.35 (+0°C / +35°C)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive control and simplified use
- **NAVISTEM 200S** regulator
- Low energy consumption circulation pump
- Heating in one or two heating zones

DESCRIPTION

- 3 models: 5, 7 and 10kW - single-phase
- 2 models: 13 and 17kW - three-phase
- Working temperature up to 60°C*

AVAILABLE OPTIONS

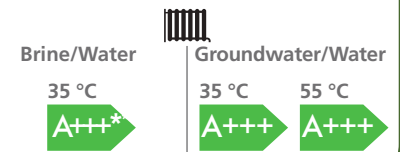
- 2 zones kit (plug-and-play)
- Cooling kit
- Boiler connection kit
- DHW tank
- Room sensor

SUPPLIES

- Complete thermodynamic and hydraulic set
- Low energy consumption circulation pump
- Electric back-up heater
- Outdoor sensor
- Hydraulic accessories kit, including: flexible hoses, 2 filter valves, 2 stop valves, connectors, sensor expansion tank, heating expansion tank, 2 automatic bleed valves, 2 pressure meters, nipples, seals

* Depending on models and type of collectors

Energy class



TECHNICAL CHARACTERISTICS AND PERFORMANCES

| | UNIT | ATLANTIC GEOLIA 5 | ATLANTIC GEOLIA 7 | ATLANTIC GEOLIA 10 | ATLANTIC GEOLIA 13 | ATLANTIC GEOLIA 17 |
|--|------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| REFRIGERANT | | | | | | |
| R410A factory load | g | 900 | 950 | 1450 | 1700 | 2300 |
| Amount of fluid expressed in CO ₂ equivalent | t | 2 | 2 | 3 | 4 | 5 |
| MAIN CHARACTERISTICS | | | | | | |
| Heating capacity +10°C +7°C/+30°C +35°C - Underfloor heating | kW | 7.14 | 9.37 | 13.33 | 16.78 | 22.13 |
| Cop +10°C+7°C/+30°C +35°C - PCR | | 4.86 | 5.29 | 5.38 | 5.70 | 5.21 |
| Heating capacity +10 °C+7°C/+40°C +45°C - Low T° radiators | kW | 6.62 | 8.86 | 12.55 | 15.99 | 21.40 |
| Cop +10°C +7°C/+40°C +45°C - Low T° radiators | | 3.81 | 4.04 | 4.18 | 4.35 | 4.21 |
| Heating capacity +10°C +7°C/+47°C +55°C - Low T° radiators | kW | 6.57 | 8.72 | 11.75 | 15.59 | 20.14 |
| Cop +10°C +7°C/+47°C +55°C - Low T° radiators | | 3.26 | 2.87 | 3.34 | 3.33 | 3.54 |
| Heating capacity +0°C -3°C/+30°C +35°C - Underfloor heating | KW | 5.64 | 7.02 | 10.08 | 12.63 | 16.63 |
| Cop +0°C -3°C/+30°C +35°C - Underfloor heating | | 3.94 | 3.86 | 4.06 | 4.35 | 4.31 |
| Heating capacity +0°C -3°C/+40°C +45°C - Low T° radiators | kW | 5.13 | 6.56 | 9.28 | 12.12 | 16,01 |
| Cop +0°C -3°C/+40°C +45°C - Low T° radiators | | 3.09 | 2.92 | 3.14 | 3.50 | 3.51 |
| Heating capacity +0°C -3°C/+47°C +55°C - Low T° radiators | kW | - | - | - | 11.86 | 15.41 |
| Cop +0°C -3°C/+47°C +55°C - Low T° radiators | | - | - | - | 2.92 | 2.80 |
| Additional electric back-up | kW | 4,5 (3 floors x 1.5 kW) | 4,5 (3 floors x 1.5 kW) | 4,5 (3 floors x 1.5 kW) | 4,5 (3 floors x 1.5 kW) | 4,5 (3 floors x 1.5 kW) |
| Power supply | | 230 V / 50 Hz | 230 V / 50 Hz | 230 V / 50 Hz | 400 V 3ph + N 50 Hz | 400 V 3ph + N 50 Hz |

ErP ENERGY EFFICIENCY & ACOUSTIC VALUES WITH OUTDOOR SENSOR

| | | | | | | |
|---|-------|-------------|-------------|-------------|-------------|--------------|
| Energy class - Heating (35°C/55°C) - Pure water | - | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ | A+++ / A+++ |
| Rated heat output (35°C/55°C) - Pure water | kW | 8 / 8 | 11 / 10 | 15 / 14 | 18 / 16 | 25 / 23 |
| Seasonal energy efficiency - Heating (35°C/55°C) - Pure water | % | 213 / 153 | 196 / 151 | 233 / 179 | 212 / 166 | 219 / 177 |
| Annual energy consumption - Heating (35°C/55°C) - Pure water | kWh | 3138 / 3973 | 4323 / 4997 | 5225 / 6242 | 6912 / 7576 | 9057 / 10272 |
| Energy class - Heating (35°C/55°C) - brine | - | A++ / - | A++ / - | A++ / - | A+++ / A++ | A+++ / A++ |
| Rated heat output (35°C/55°C) - brine | kW | 6 / - | 8 / - | 12 / - | 14 / 13 | 19 / 18 |
| Seasonal energy efficiency - Heating (35°C/55°C) - brine | % | 157 / - | 155 / - | 166 / - | 179 / 142 | 179 / 136 |
| Annual energy consumption - Heating (35°C/55°C) - brine | kWh | 3369 / - | 4074 / - | 5644 / - | 6386 / 7546 | 8604 / 10337 |
| Acoustic level (indoor) ⁽¹⁾ | dB(A) | 56 | 57 | 56 | 55 | 55 |

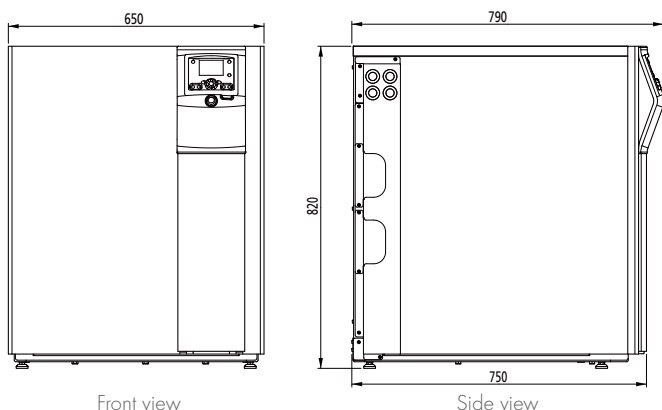
MODULE

| | | | | | | |
|----------------------------|-------|-----------|-----------|-----------|-----------|-----------|
| Noise level ⁽²⁾ | dB(A) | 49 | 49 | 49 | 48 | 48 |
| Net weight/filled weight | kg | 140 / 145 | 150 / 155 | 155 / 160 | 175 / 180 | 185 / 190 |

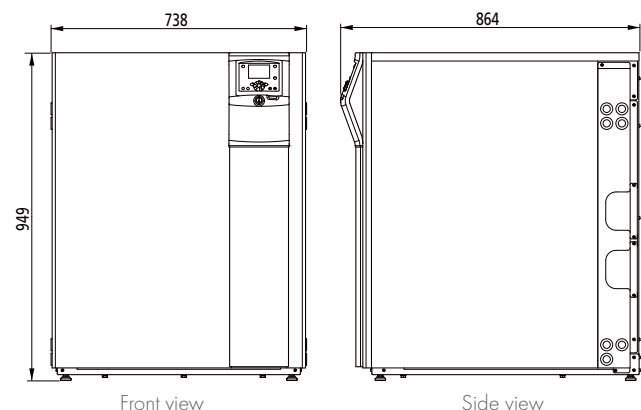
(1) Acoustic power at 0/35°C according to EN12102. (2) Sound pressure level 5m from the device at 0/35°C, according to EN ISO 11203.

DIMENSIONS (MM)

Atlantic Geolia 5, 7 and 10 kW



Atlantic Geolia 13 and 17 kW

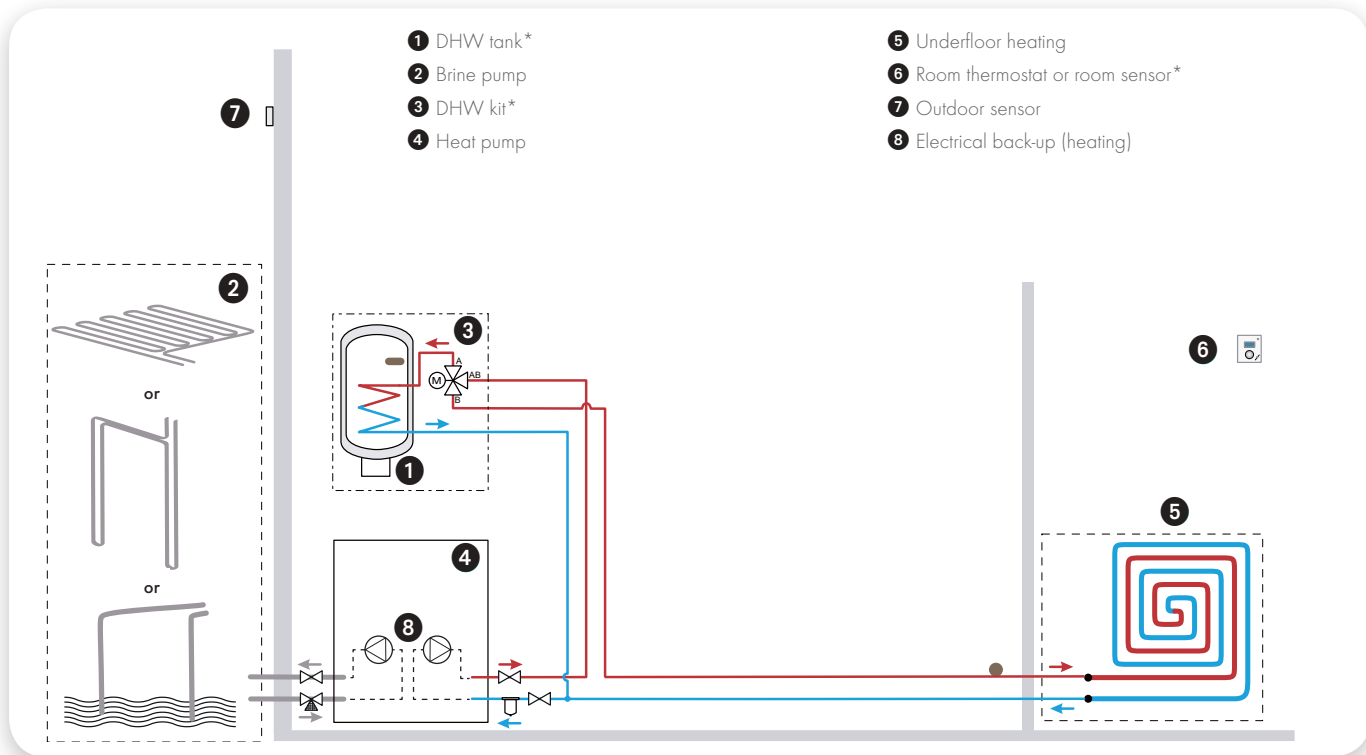


*Depending on models

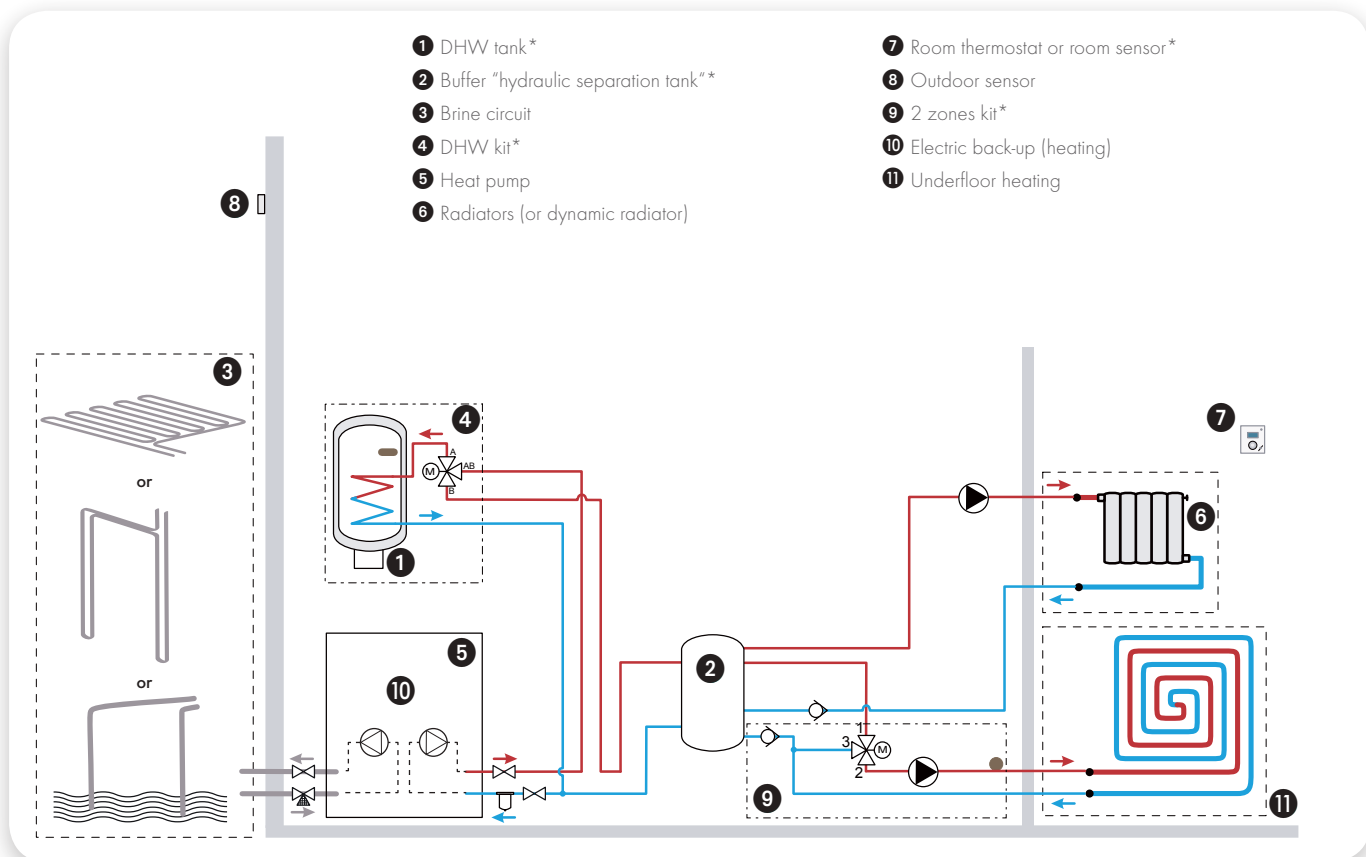
ATLANTIC GEOLIA

Installation schematics

ATLANTIC GEOLIA: 1 ZONE + UNDERFLOOR HEATING/COOLING + DHW TANK

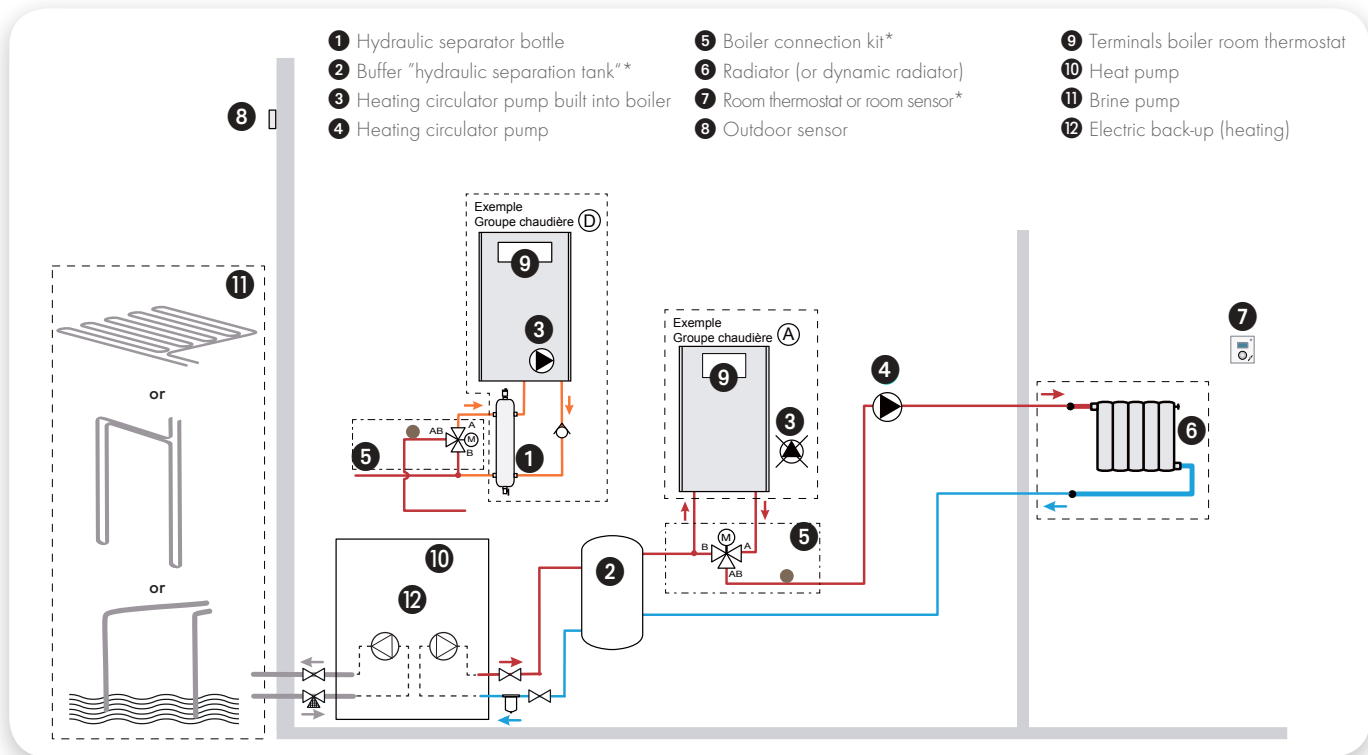


ATLANTIC GEOLIA: 2 ZONES + DHW TANK

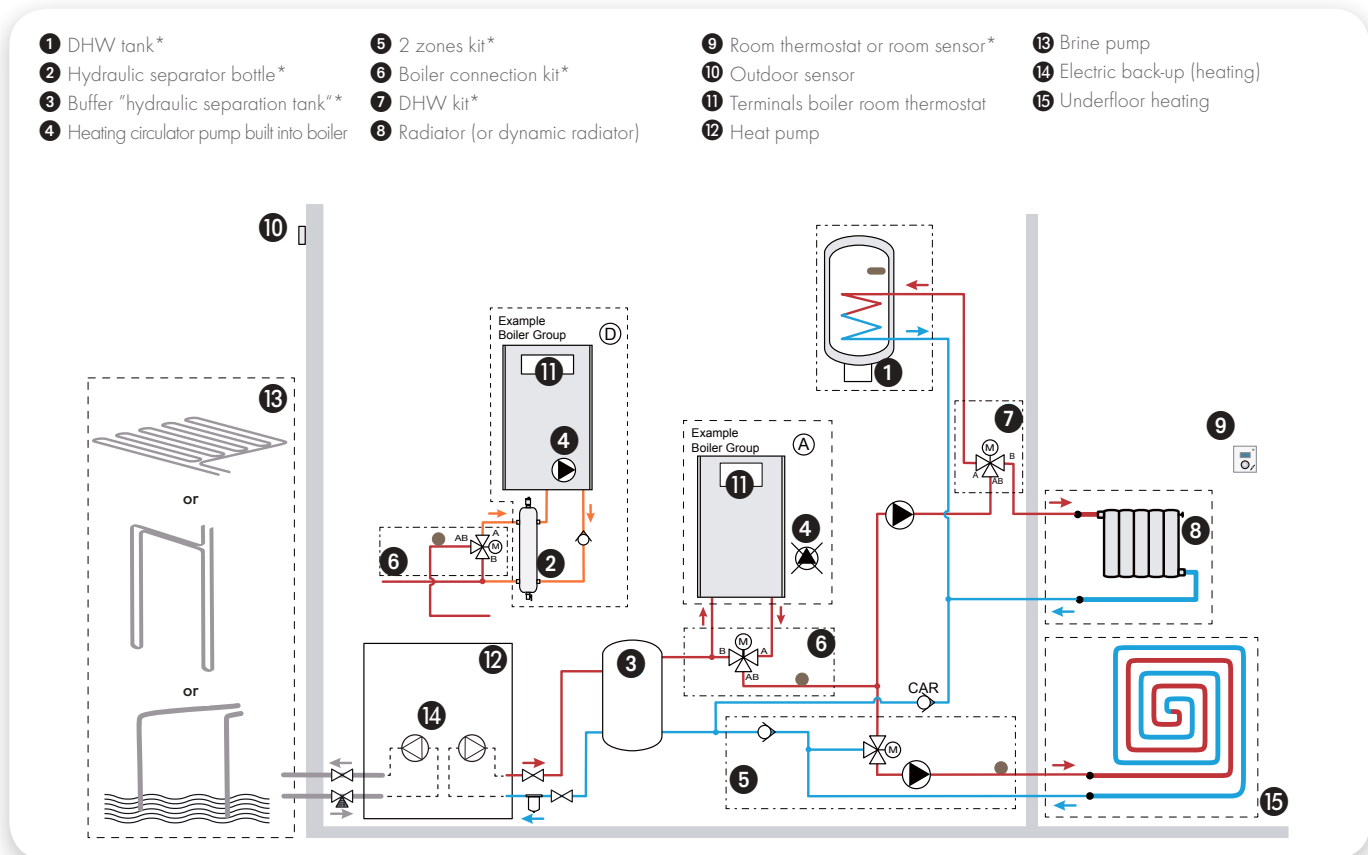


*Option

ATLANTIC GEOLIA: 1 ZONE + BOILER CONNECTION



ATLANTIC GEOLIA: 2 ZONES + DHW TANK + BOILER CONNECTION



*Option

PANAMA ACCESS

Fan coil connected with heat pumps
Thermal comfort solution in all seasons!



Product

- Innovative solution for domestic thermal comfort on hot water loop
- Heating and cooling functions if connected to reversible heat pump
- Electric back-up heater in the front panel
- Compatible with heat pumps
- Heat exchanger integrated
- Homogeneous and gentle heating
- First certified fan coil on the French market

COMFORT

- Homogeneous heat diffusion
- Extended heating surface
- Cooling function during the summer if connected to reversible heat pump
- Filtered air for clean walls and healthy environment
- Ultra-silent radiator (<23 dB at Quite mode)

SAVINGS

- Thermal control using hot water loop for more energy savings
- 5 functions: Comfort/Eco Quiet/Heating/Cooling/Off

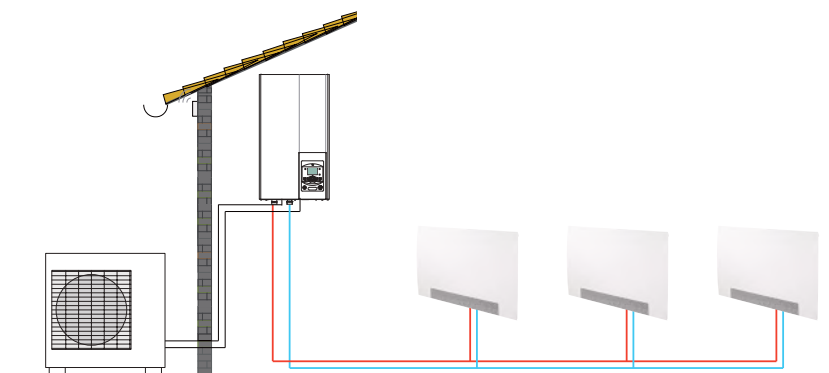
DESIGN

- Modern and compact design easily integrating all rooms
- Colour shade: white (RAL 9016)

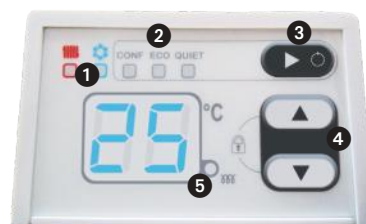
USER-FRIENDLINESS

- Simple and intuitive control panel
- Digital display showing temperature in degrees

INSTALLATION SCHEMATICS



Digital control panel:
simple and intuitive



- 1 Heating / Cooling indicator
- 2 Active mode light indicator
- 3 On / Off button and changing mode button
- 4 Temperature setting buttons and functions lock system
- 5 Heating panel light indicator

TECHNICAL CHARACTERISTICS

| TECHNICAL DATA | Fan Speed | PANAMA Access 500W | | PANAMA Access 1000 W | |
|--|---------------------|------------------------|------|------------------------|------|
| | | Quiet* | Maxi | Quiet* | Maxi |
| Power supply voltage | V/Ph/Hz | 230/1/50 | | 230/1/50 | |
| Electrical insulation class | | II | | II | |
| Hydraulic connection | | 2 male connectors 1/2" | | 2 male connectors 1/2" | |
| Water capacity | L | 0.5 | | 0.8 | |
| Condensates connection | | inner diameter of 16mm | | inner diameter of 16mm | |
| 50°C / 45°C | | | | | |
| Total power | W | 780 | 1070 | 1500 | 2210 |
| Air intake temperature | °C | 20 | | 20 | |
| Water flow rate | l/h | 99 | 136 | 180 | 264 |
| Pressure loss | kPa | 3.6 | 5.0 | 9.0 | 13.3 |
| 45°C / 40°C | | | | | |
| Total power | W | 700 | 954 | 1300 | 1905 |
| Air intake temperature | °C | 20 | | 20 | |
| Water flow rate | l/h | 121 | 166 | 226 | 331 |
| Pressure loss | kPa | 5.4 | 7.4 | 16.7 | 24.4 |
| 35°C / 30°C | | | | | |
| Total power | W | 370 | 507 | 700 | 1025 |
| Air intake temperature | °C | 20 | | 20 | |
| Water flow rate | l/h | 64 | 88 | 121 | 178 |
| Pressure loss | kPa | 3.0 | 4.1 | 7.1 | 10.4 |
| 7°C / 12°C | | | | | |
| Total power | W | 480 | 780 | 703 | 1520 |
| Sensible capacity | W | 400 | 640 | 550 | 1220 |
| Air intake temperature | °C / % | 27°C / 50% | | 27°C / 50% | |
| Water flow rate | l/h | 83 | 136 | 122 | 264 |
| Pressure loss | kPa | 3.3 | 6.0 | 5.6 | 17,2 |
| Electrical characteristics | | | | | |
| Fan consumption (Vmin / Vinter / Vmax) | W | 3.2 / 5.4 / 10.2 | | 4.2 / 9 / 17.2 | |
| On-board auxiliary ⁽¹⁾ | W | 190 | | 290 | |
| Acoustic characteristics | | | | | |
| Power | dB(A) | 37 | 42 | 37 | 43 |
| Acoustic pressure ⁽²⁾ | dB(A) | 23 | 29 | 23 | 31 |
| Air system | | | | | |
| Air flow rate | (m ³ /h) | 103 | 150 | 193 | 290 |
| Dimensions | | | | | |
| Height | mm | 680 | | 680 | |
| Width | mm | 635 | | 920 | |
| Depth | mm | 164 | | 164 | |
| Installation height | mm | 150 | | 150 | |
| Net weight / package weight | kg | 13.5/ 14.5 | | 18.5/ 19.5 | |

(1) Heating panel electric power

(2) Acoustic pressure measured at 1,5 meters from the product



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WORLD LEADING BRAND OF INDOOR THERMAL COMFORT

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 92340 Bourg-la-Reine
 France

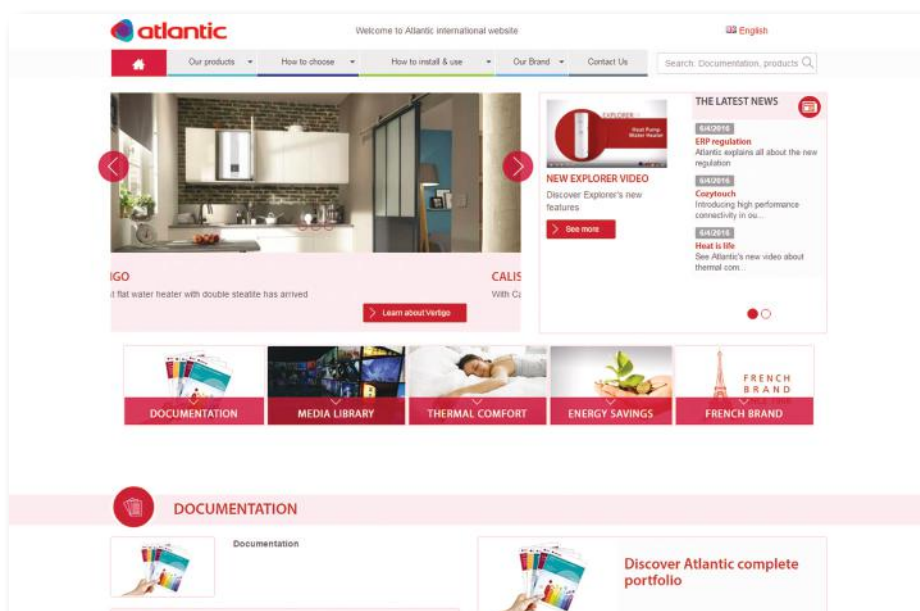


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