

Heat pumps & renewable energy solutions

2021



- Air-to-water heat pumps
- Ground source heat pumps
- Hybrid heat pumps
- Fan coils

PROUD TO WEAR GROUPE ATLANTIC COLOURS



GROUPE ATLANTIC meets vital needs through its increasingly eco-efficient solutions for heating, sanitary hot water, air conditioning and ventilation, which are geared to millions of customers in the housing and tertiary markets. A French company operating on four continents, GROUPE ATLANTIC upholds strong family values: trust, responsibility and long-term commitment.

GROUPE ATLANTIC 2019 key figures: 9400 employees; 28 industrial sites; €2.2 bn net turnover.

Thermal comfort is life / Thermal comfort for all *



groupe-atlantic.com

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 products 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**.

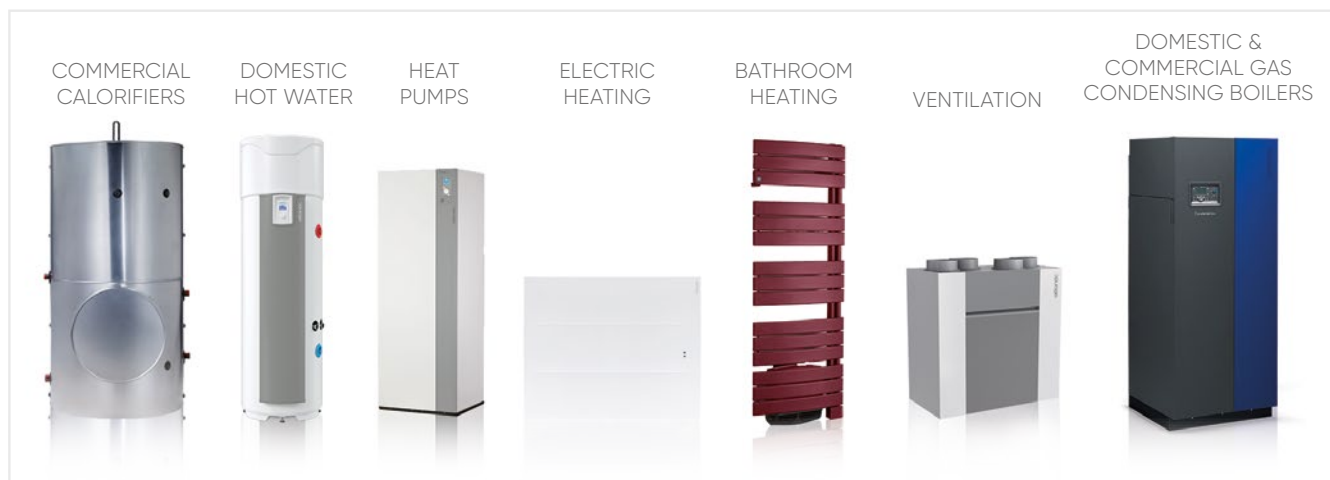
With this new extended and improved offer, customers benefit from Atlantic's latest technologies and energy-saving solutions.

LATEST KEY FACTS:

- 2021** New factory opening in Boz, France
- 2020** GROUPE ATLANTIC has acquired the residential activity of the Russian group SST, called SST Warm floor.
- 2019** Opening of a subsidiary office in Vietnam
- 2017** Factory opening in Georgia for electric water heaters manufacturing
- 2016** Opening of a representative office in UAE
Creation of German subsidiary Austria Email GmbH

ATLANTIC PRODUCTS PORTFOLIO:

The most extensive range to benefit customers



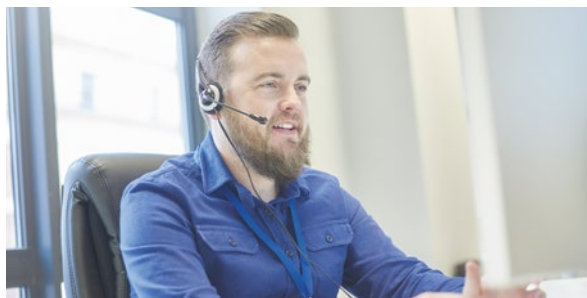
ATLANTIC FACTORIES AROUND THE WORLD



- 11 industrial sites in France
- 14 industrial sites abroad preserving French know-how

Discover our services and trainings

As a service provider, we strive to bring you peace of mind every day. Atlantic offers exclusive services along with its products.



AFTER SALES SERVICE

Handling of spare parts, technical assistance and warranty management, set-up support (testing installation to ensure appliances are in full working order, adjusting required gauge or flow rates)



Diagnosis assistance

For all technical assistance, installation, commissioning information, fault diagnosis and repairs. Contact our technical support with your serial number + product model code. You can also share the diagnosis with an expert at our French industrial site either by email or videoconference.

@ support-hpb@groupe-atlantic.com



Warranty expertise

Warranties are handled according to incident tickets. If required, on-site or laboratory expertise is available. Once the part is replaced, you can then return the defective part. As a result, you will help us to constantly improve our products!

@ spareparts-hpb@groupe-atlantic.com

PRACTICAL TRAINING

Useful training programs for your everyday work to help you be more efficient.



Why enrol in a training program?



Save time

- Working equipment
- Hands-on practical training in small groups
- Test benches and failure simulations
- Expert trainers with extensive field experience



Qualify you

Training sessions on-site or in our training centres in France. Train on working equipment to develop your expertise and your business.



Training details



On-site trainings

- **PAC 6-01** : Heat pumps air to water discovery
- **PAC 6-02** : Install heat pumps air to water (all products)
- **PAC 6-03** : Install heat pumps air to water (New product)
- **PAC 6-04** : Commissioning & Maintenance heat pumps air to water (all products)
- **PAC 6-05** : Commissioning & Maintenance heat pumps air to water (New product)
- **PAC 6-14** : Commissioning, test and breakdowns diagnosis on refrigerant circuit



Online trainings

- **PAC 6-21** : Heat pump sizing calculation and Projipac 4
- **PAC 6-13** : Heat pump installation & commissioning
- **PAC 6-15** : Heat pump test & breakdowns



PROJI-PAC

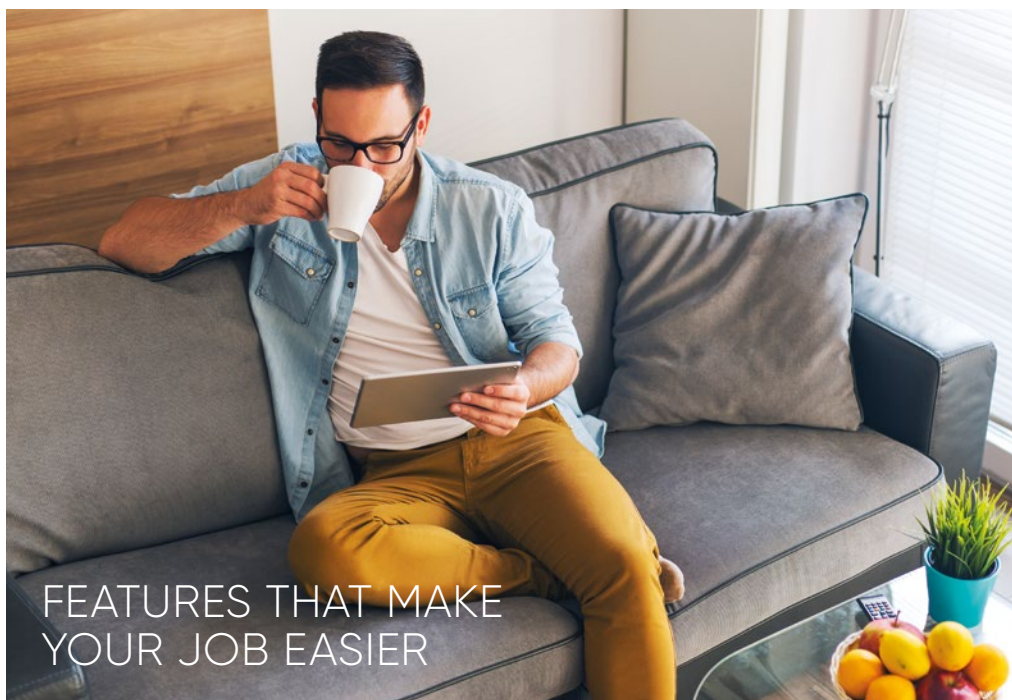


your design
assistant tool

In preparation for project, it's important to start with designing the heat pump. This design study will help your customer avoid overconsumption and ensure them optimal day-to-day comfort.

Our **Proji-PAC 4 design assistant tool** helps you carry out a prospective study simply and reliably, all in less than **five minutes!** Using frame and installation configuration data, it gives you the appropriate heat pump solution for your customer.

The result: you save time and increase your chances of signing new heat pump projects.



4
methods
for calculating
heat loss

The option to
conduct a
cold
assessment

A **detailed report**,
together with a
complete, tailor-made
estimate that you can share
with your customer with one click

And **tutorials included** in the software to help you get started!



How to sign up for Proji-PAC 4?

IT'S VERY SIMPLE!

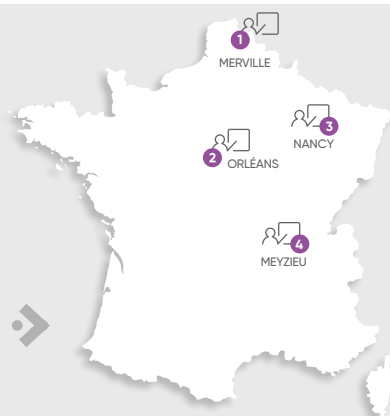
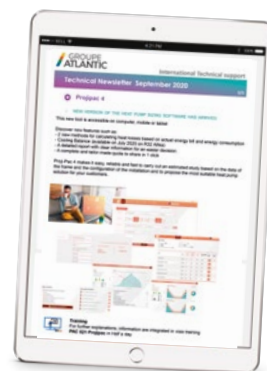
Connect to projipac.atlantic-pros.fr/ "country number"/home from your computer, tablet or smartphone. You only need your login details (email address and personal password) to sign up for Proji-PAC 4 Account.

+ Additional services :

Newsletters

Subscribe to our twice-yearly e-mail newsletter for all of the latest business field news: regulations, products, tips and advice.

@ support-hpb@groupe-atlantic.com



4 training centers

- 1 Merville north of Paris on the manufacturing site for heat pumps and domestic boilers
- 2 Orléans south of Paris
- 3 Nancy east of Paris
- 4 Meyzieu east of Lyon

How to register and plan your training?

By Email:
spareparts-hpb@groupe-atlantic.com

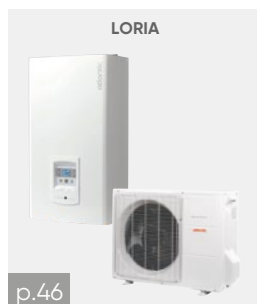
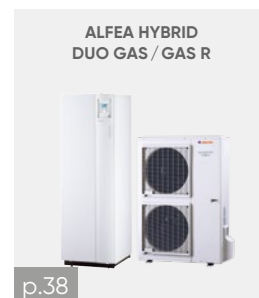
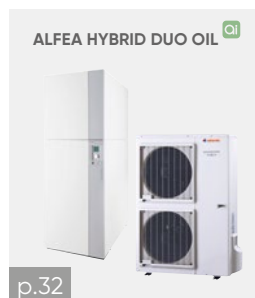
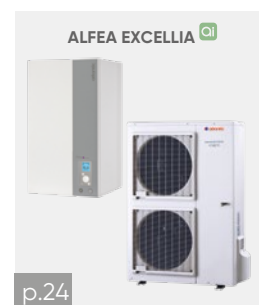
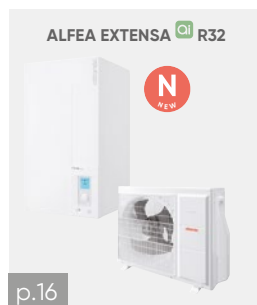


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Ground source heat pumps

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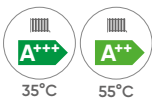
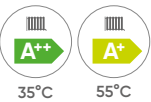
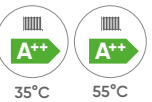
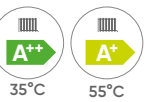
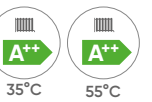


Fan coils for heating and cooling

- Panama Access p.62



Atlantic heat pumps

Split air-to-water heat pumps						
	Alfea Extensa  R32	Alfea Extensa Duo  R32	Alfea Excellia 	Alfea Excellia HP 	Alfea Excellia Duo 	Alfea Excellia Duo HP 
						
	55°C	55°C	60°C	60°C	60°C	60°C
3 kW		S				
4 kW						
5 kW	S	S				
6 kW	S	S				
7/8/9 kW	S	S				
10-11 kW	S	S	S T		S T	
13-14 kW			S T		S T	
15 kW				T		T
16-17 kW			T	S T	T	S T
2 HEATING ZONES	Optional	Optional	Optional	Optional	Optional	Optional
DOMESTIC HOT WATER	Optional	Standard supply	Optional	Optional	Standard supply	Standard supply
COOLING	Optional	Optional	Optional	Optional	Optional	Optional
BOILER CONNECTION	Optional	Optional	Optional	Optional	Optional	Optional
ELECTRIC BACK-UP HEATING	Standard supply	Standard supply	Standard supply	Standard supply	Standard supply	Standard supply
ENERGY CLASS HEATING						
ENERGY CLASS DHW	—		—	—		
CONNECTIVITY						

*23 kW boiler only. **6 kW and 8 kW models only. *** Depending on models and types of collectors.

 Single-phase 230 V  Three-phase 400 V

	Split air-to-water heat pumps				Ground source heat pumps
	Alfea Hybrid Duo Oil 	Alfea Hybrid Duo Gas	Loria	Loria Duo	Atlantic Geolia
					
	80°C	80°C	55°C	55°C	60°C ***
3 kW					
4 kW			S	S	
5 kW					S
6 kW	S *	S	S	S	
7/8/9 kW	S *	S	S	S	S
10-11 kW	S T	S T	S	S	S
13-14 kW	S T	S T			T
15 kW					
16-17 kW		T			T
2 HEATING ZONES	Optional	Optional	Optional	Optional	Optional
DOMESTIC HOT WATER	Standard supply	Standard supply	Optional	Standard supply	Optional
COOLING	Optional	Optional**	Optional	Optional	Optional
BOILER CONNECTION	Standard supply (23 kW or 29 kW)	Standard supply	–	–	Optional
ELECTRIC BACK-UP HEATING	–	–	Standard supply	Standard supply	Standard supply
ENERGY CLASS HEATING	Up to   35°C 55°C	 55°C	Up to   35°C 55°C	Up to   35°C 55°C	Up to   35°C 55°C
ENERGY CLASS DHW	Up to 		–		–
CONNECTIVITY	 Cozytouch				

Atlantic guides you

WHAT IS ERP?

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

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 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 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*.



REQUIREMENTS FOR ENERGY-RELATED PRODUCTS

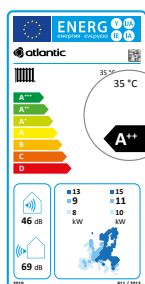
ECODESIGN DIRECTIVE

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

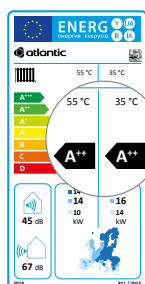
Well known to the end-user of white goods, energy efficiency labels (product labels) became mandatory for heating and water heating products, within the European Union market, since September 2015. These products must have energy efficiency labels to inform end-users about their real performance (energy consumption, noise level and other product-specific information).

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 has evolved since 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%).

Since Septembre 2019, energy efficiency classification has evolved: ErP labels for heat pumps include only 7 energy efficiency classes - from A+++ to D.

through ErP regulation

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 **D**) 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.

The diagram shows an Atlantic energy label for the 'alféa excellia A.I. tri 16' model. Red arrows point from descriptive text to specific parts of the label:

- Supplier's name or trademark:** Points to the 'atlantic' logo.
- Product's function (heating only, or heating and water heating):** Points to the radiator icon.
- Energy efficiency indicators (from A+++ to D):** Points to the vertical bar with energy classes A+++ (green), A++ (green), A+ (yellow-green), A (yellow), B (orange), C (red-orange), and D (red).
- Indoor acoustic pressure:** Points to the '46 dB' value.
- Outdoor acoustic pressure:** Points to the '69 dB' value.
- Product's name or reference:** Points to 'alféa excellia A.I. tri 16'.
- Product's energy class:** Points to the 'A+' class for both 55 °C and 35 °C.

Additional label details include: the European Union flag and 'ENERG' logo, a QR code, a seasonal energy efficiency indicator map of Europe, and power consumption values of 17 kW and 18 kW for indoor and outdoor conditions respectively. The label is marked with '2019' and '811 / 2013'.

**Example of product label with Atlantic's Alféa Excellia A.I.*

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.

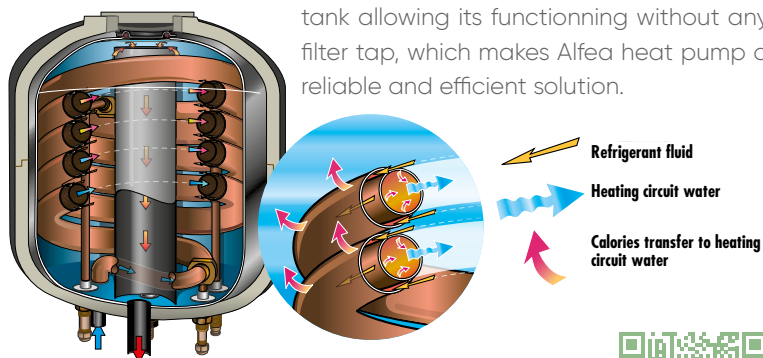


ATLANTIC TECHNOLOGIES



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, which makes Alfea heat pump a reliable and efficient solution.



Watch the video about the coaxial heat exchanger

Scan the QR code or visit our website:

<https://www.atlantic-comfort.com/Sections-Home/Media-Library/Coaxial-exchanger-in-Alfea-heat-pumps>



Atlantic innovation for optimum 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.

55 °C Average temperature

Alfea Extensa R32/ Alfea Extensa Duo R32 Simplicity and performance

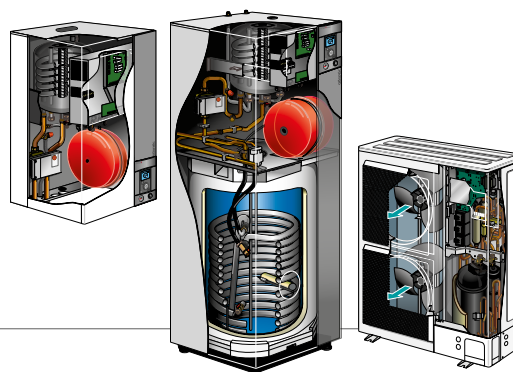
Average temperature solution for all projects



60 °C High performance

Alfea Excellia / Alfea Excellia Duo Alfea Excellia HP / Alfea Excellia Duo HP 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 up to 4,52
- Full Inverter regulation
- Low energy consumption circulation pump
- ErP-compliant: Up to A++

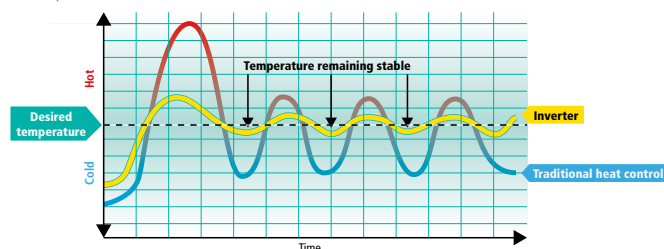
Adaptability

- 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.

Comparison between Inverter and traditional heat control



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.



Cozytouch



IO-Homecontrol®



Devices' real-time monitoring



Daily energy consumption visualisation & optimisation

Atlantic interface 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



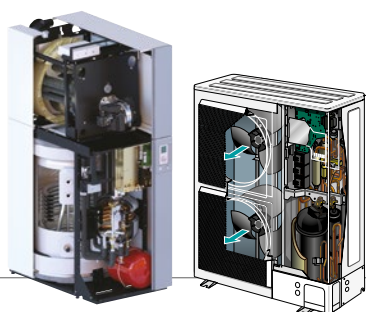
in selected countries

80 °C Hybrids

Alfea Hybrid Duo Oil

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 / 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



News

Alfea heat pump range

ALFEA EXTENSA A.I. R32



Atlantic is bringing you the Alfea Extensa A.I. R32 with new output levels.

In 2020, the Alfea Extensa A.I. range got a makeover, with the addition of the new Extensa model that uses R32 refrigerant fluid.

These R32 models still come with our Atlantic expertise – like the coaxial exchanger – but are now even more efficient.

Starting in Q1 2021, you'll be able to carry out even more renovation projects, thanks to the two newly-launched output levels that are ideal for new builds: 3 and 10 kW.



*including accessories depending on the solution chosen

Simplifix, a pre-connection system for heat pumps

Always innovative, Atlantic is offering pre-connection systems for Alfea Extensa Duo A.I. R32. These systems are available for models of up to 8 kW. They can be adapted to all configurations, as well as allowing for easy hydraulic installation.



Non-contractual image.

F-GAS: European regulations

The goal of European F-Gas regulation N° 517/2014 is reducing the use of HFC (hydrofluorocarbon) gases and outlawing the use of certain 'fluorinated greenhouse gases' by 2030.

Such measures have a direct effect on heat pump manufacturers:

- The establishment of quotas for producers since 2015
- The halt to trading in equipment using fluid, including by importers. R410A from 1 January 2025 according to inter-professional consensus.

No regulation forbids the use of a universal fluid that can be applied to all solutions.

FLUID	R744 (CO ₂)	R410A	R134A	R32	R290 (propane)
GWP (kg CO ₂ equivalent)	1	2088	1430	675	20

Term to know

GWP: Global warming potential, an indicator of the impact of fluids on global warming.

WHAT IS R32?

R32 is an HFC fluid that is considered to be a good alternative to R410A.

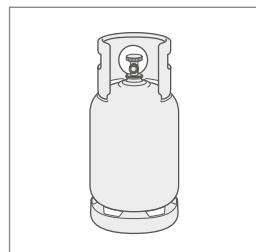
It offers several advantages:

- One-third of the GWP of R410A
- Thermal capacity superior to that of R410A
- It is a single-component coolant, which makes it easier to recapture and recycle

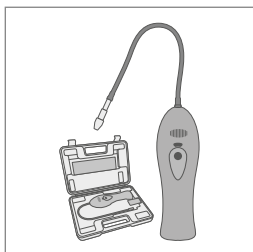
Shifting to R32

- ✓ A certification of competence is required.
- ✓ R32 can be used in both its liquid and gas states.

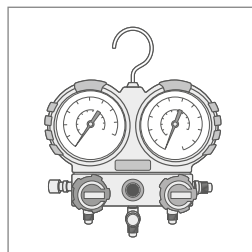
In addition to the usual tools (pipe cutter, flaring tool, vacuum pump, etc.), additional equipment is required:



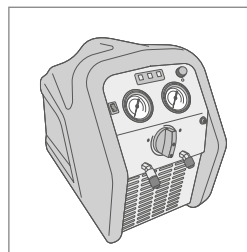
Specific recovery cylinder



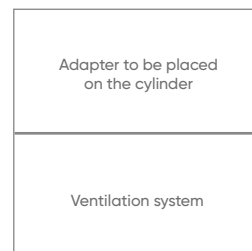
Leak detector suitable for flammable coolants



Pressure gauge with dedicated scale



Recovery station suitable for flammable coolants



Adapter to be placed on the cylinder

Ventilation system



TRANSPORT AND OTHER USAGE PRECAUTIONS

R32 is classed as A2L, or 'mildly flammable'. R32 is neither toxic nor explosive.

To ensure the coolant's safety, including during installation, the installer should pay particular attention to the following aspects when transporting and handling R32.

FOR STORING AND TRANSPORTING THE FLUID:

- Ensure that the cylinder's valve is closed and not leaking
- Ensure sufficient ventilation on the premises and/or in the vehicle and preferably transport it in a vehicle whose transport component is separate from the driver's cabin
- Avoid exposing the fluid to any source of ignition
- Store the fluid away from sunlight

WHILE HANDLING:

- Verify that there are no leaks during installation in order to prevent oxygen from entering the coolant circuit
- Regularly monitor the sealing of the system and the amount of coolant
- The regulatory framework (EN 60335) authorises the installation of R32 equipment without imposing specific measures for a heat pump + coolant attachments in an individual home that weigh under 1.84 kg. Alfea Extensa A.I. R32 heat pumps under 8 kW are not affected by these constraints.

Alfea Extensa R32 range

Split Air/water Inverter heat pump

Average temperature – Heating only



WHAT IS THE ALFEA EXTENSA A.I. R32?

Atlantic's new heat pump, which runs on R32 refrigerant fluid, was specifically designed to meet all the needs of the modern home.

The expertise of Atlantic at the service of our customers

Atlantic teams are attentive to customer needs, to understand the issues they face and provide appropriate concrete solutions.

Thus, Alféa Extensa A.I. R32 ingeniously combines features to make day-to-day living easier: lighter product, pre-assembly of ECS/EFS connectors, simplification of remote diagnostics, etc. Its EASY START interface function enables rapid, user-friendly setting definition for the law of water.

Developed to meet current thermal comfort expectations, the Alfea Extensa A.I. R32 provides well-being to your home all year round thanks to its efficient performance.

With Alféa Extensa A.I. R32, Atlantic offers you performance, quality and efficiency.



Alfea Extensa R32 range



3 and 10 kW
models

R32 AIR-TO-WATER HEAT PUMP
5 models from 3 to 10 kW

Enhanced performance
for heating and ventilation



Optimised refrigerant
fluid quantity



Sleek quality design



New exterior unit
specially developed
to work with the R32



Alfea Extensa ^{ai} R32

Split air-to-water heat pump for improved performances

Average temperature solution for all projects



Remote piloting

N
NEW



BENEFITS

- Robust hydraulic conception due to patented coaxial heat exchanger
- Better performance, optimised acoustic pressure and increased energy efficiency
- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system
- Low acoustic level

DESCRIPTION

- Average temperature solution for all projects
- 4 models :5 to 10 kW
- Single-phase models
- Heating only
- Patented coaxial heat exchanger
- Inverter regulation
- Integrated 16 L buffer tank

AVAILABLE OPTIONS

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

Practical trainings

that will help you save time and be more efficient.



On-site trainings

- **PAC6-03-1:** Install a new product - **1 day**
- **PAC6-05-1:** Commissioning, maintenance and service - **1 day**



Online trainings

- **PAC 6-13-5:** Installation & commissioning - **½ day**
- **PAC 6-15-5:** Services test & breakdowns - **½ day**



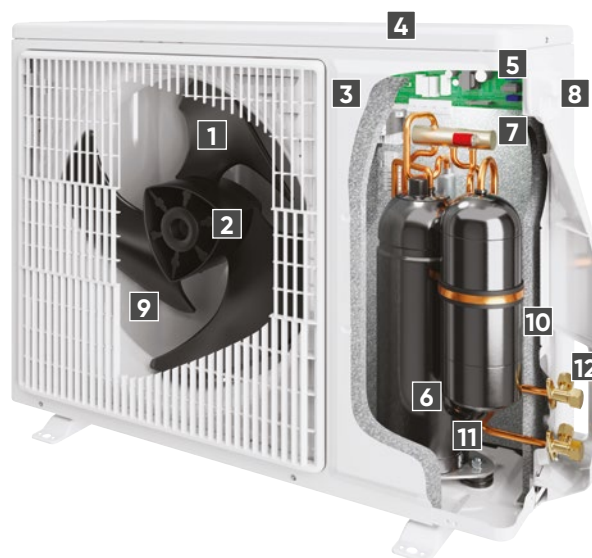
INDOOR HYDRAULIC MODULE



- 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

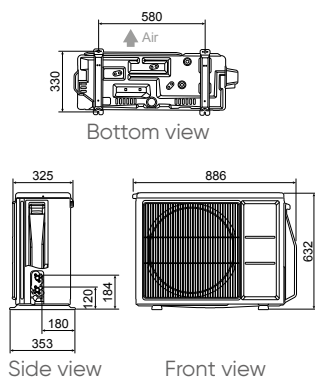
E.P.

	UNIT	ALFEA EXTENSA A.I. 5 R32	ALFEA EXTENSA A.I. 6 R32	ALFEA EXTENSA A.I. 8 R32	ALFEA EXTENSA A.I. 10 R32
REFRIGERANT					
		R32	R32	R32	R32
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS					
Energy class - Heating (35°C/55°C)	-	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Rated heat power (35°C/55°C)	kW	5/5	6/5	6/6	9/8
Annual energy consumption - Heating (35°C/55°C)	kWh	2322 / 3035	2594 / 3411	2982 / 3903	3 875 / 5 083
Seasonal energy efficiency - Heating (35°C/55°C)	%	175 / 125	175 / 125	177 / 128	178 / 130
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	177 / 127	177 / 127	179 / 130	180 / 132
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	40 / 57	40 / 57	40 / 60	40 / 62
MAIN CHARACTERISTICS					
SCOP 35 °C / 55 °C	-	4,45 / 3,20	4,46 / 3,21	4,5 / 3,28	4,53 / 3,33
Heating capacity +7°C/+35°C - Underfloor Heating	kW	4.50	5.50	7.50	9.50
COP +7°C/+35°C - Underfloor Heating		4.74	4.65	4.43	4.50
Heating capacity -7°C/+35°C - Underfloor Heating	kW	4.40	5.00	5.70	8.90
COP -7°C/+35°C - Underfloor Heating		2.76	2.63	2.68	3.36
Heating capacity +7°C/+45°C - Low T°radiators	kW	4.50	5.50	7.25	2.65
COP +7°C/+45°C - Low T°radiators		3.39	3.39	3.35	9.25
Heating capacity -7°C/+45°C - Low T°radiators	kW	4.28	4.82	5.58	8.61
COP -7°C/+45°C - Low T°radiator		2.26	2.21	2.17	2,27
Heating capacity +7°C/+55°C - Radiators	kW	4.50	5.50	7.00	9.00
COP +7°C/+55°C - Radiators		2.64	2.67	2.66	2,70
Heating capacity -7°C/+55°C - Radiators	kW	3.90	4.25	5.30	8.00
COP -7°C/+55°C - Radiators		1.85	1.89	1.90	1.95
Additional electric back-up heater	kW	3 / 6	3 / 6	3 / 6	3 / 6
INDOOR HYDRAULIC MODULE					
Noise level ⁽²⁾	dB(A)	32	32	32	32
Net weight/filled weight ⁽³⁾	kg	42 / ask for this information	42 / ask for this information	42 / ask for this information	42 / ask for this information
Power supply	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
OUTDOOR UNIT					
Noise level ⁽⁴⁾	dB(A)	35	35	38	40
Operating weight	kg	43	43	46	62
REFRIGERANT CHARACTERISTICS					
Min./max. length	m	3 / 30	3 / 30	3 / 30	3 / 30
Max. difference in height	m	20	20	20	20
R32 factory load	g	970	970	1 020	1 630
Quantity of refrigerant in tons of CO ₂ equivalent	t	0,65	0,65	0,69	1.10

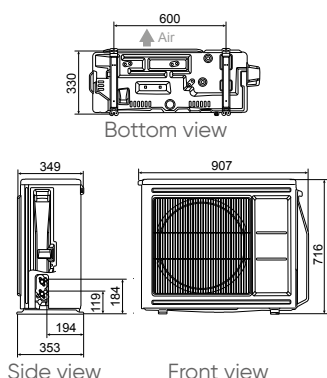
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

INSTALLATION DIMENSIONS (mm)

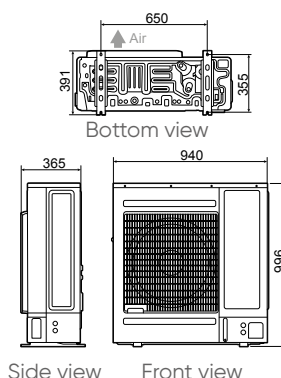
Outdoor Inverter unit
Alfea Extensa A.I. R32 5 and 6



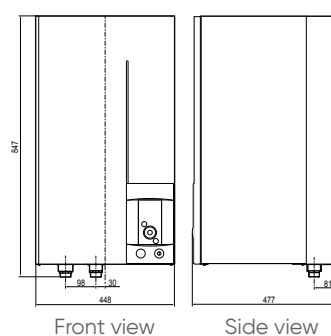
Outdoor Inverter unit
Alfea Extensa A.I. R32 8



Outdoor Inverter unit
Alfea Extensa A.I. R32 10



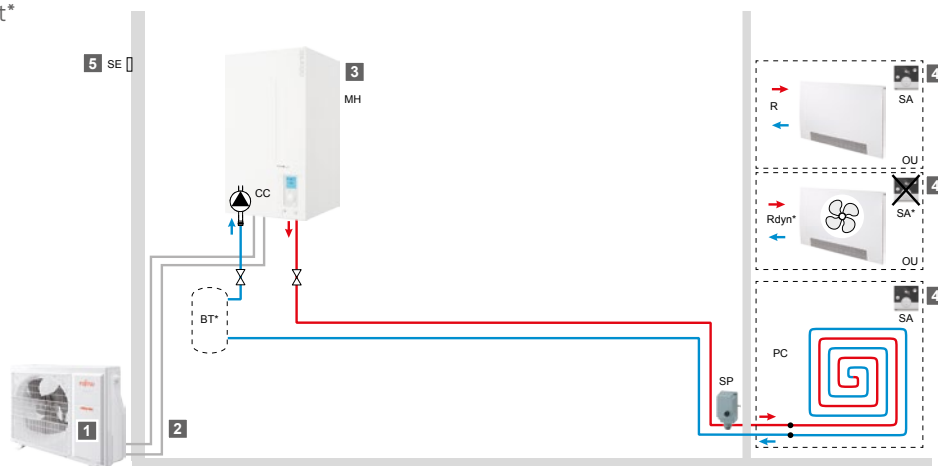
Indoor hydraulic
module



INSTALLATION SCHEMATICS

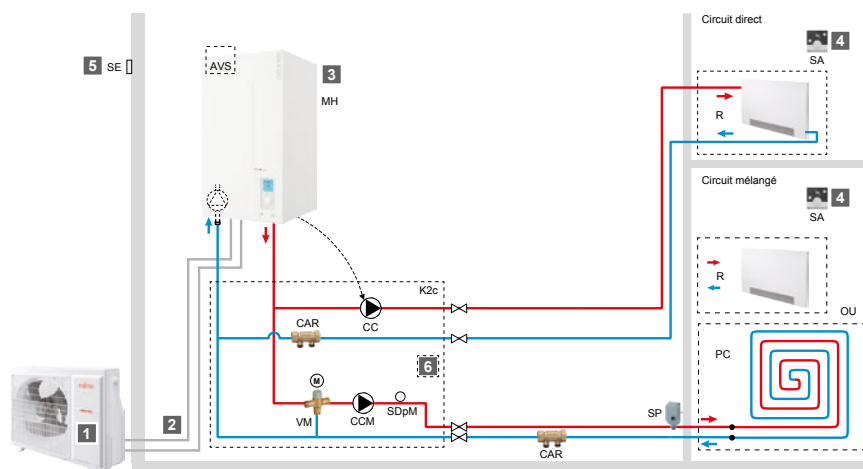
ALFEA EXTENSA A.I. R32: 1 HEATING ZONE

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module with electric back-up heater
- 4 Room controller*
- 5 Outdoor sensor



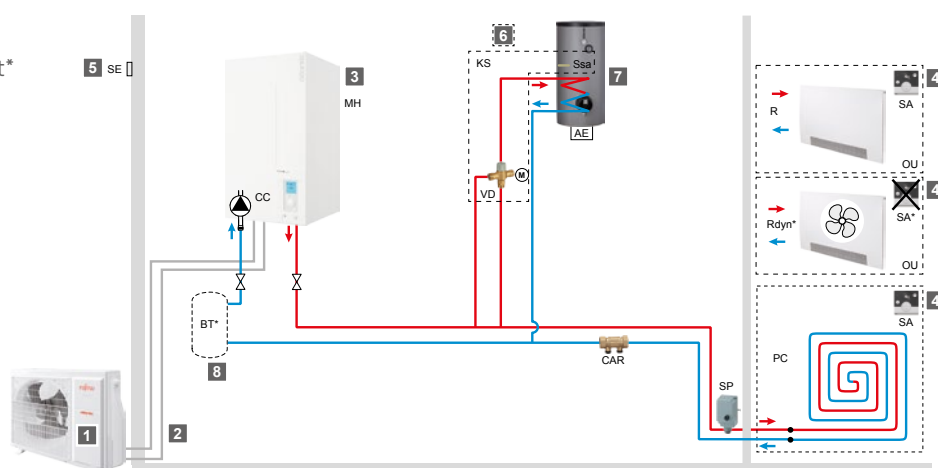
ALFEA EXTENSA A.I. R32: 2 HEATING ZONES

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module with electric back-up heater
- 4 Room controller*
- 5 Outdoor sensor
- 6 2 zones kit*



ALFEA EXTENSA A.I. R32: 1 HEATING ZONE + DHW PRODUCTION

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module with electric back-up heater
- 4 Room controller*
- 5 Outdoor sensor
- 6 DHW kit*
- 7 Water tank
- 8 Buffer tank**



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

Alfea Extensa Duo R32

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



BENEFITS

- Robust hydraulic conception due to patented coaxial heat exchanger
- Better performance, optimised acoustic pressure and increased energy efficiency
- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system
- DHW tank with high-performance regulation

DESCRIPTION

- Average temperature solution for all projects
- 5 models : 3 to 10 KW
- Single-phase models
- Heating and DHW integrated
- Patented coaxial heat exchanger
- Inverter regulation
- Integrated 16 L buffer tank

AVAILABLE OPTIONS

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

Practical trainings

that will help you save time and be more efficient.



On-site trainings

- PAC6-03-1: Install a new product - 1 day
- PAC6-05-1: Commissioning, maintenance and service - 1 day



Online trainings

- PAC 6-13-5: Installation & commissioning - ½ day
- PAC 6-15-5: Services test & breakdowns - ½ day



35°C

55°C

Cozytouch

homecontrol®

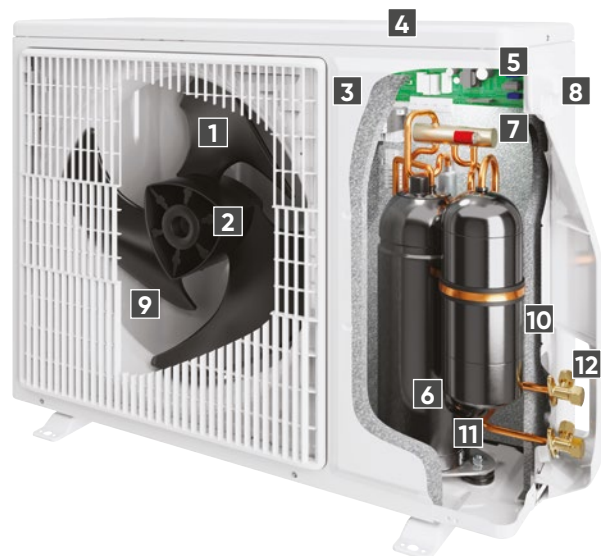
INDOOR HYDRAULIC MODULE



- 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-up

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



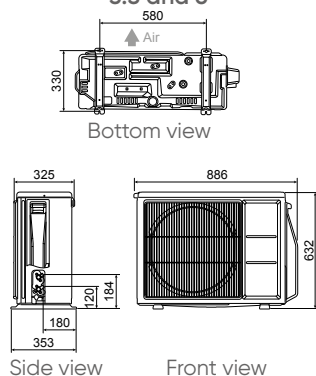
TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ALFEA EXTENSA DUO A.I. 3 R32	ALFEA EXTENSA DUO A.I. 5 R32	ALFEA EXTENSA DUO A.I. 6 R32	ALFEA EXTENSA DUO A.I. 8 R32	ALFEA EXTENSA DUO A.I. 10 R32
REFRIGERANT		R32	R32	R32	R32	R32
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS						
Energy class - Heating (35°C/55°C)	-	A+++ / A+	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Rated heat power (35°C/55°C)	kW		5 / 5	6 / 5	6/6	9/8
Annual energy consumption - Heating (35°C/55°C)	kWh		2322 / 3035	2594 / 3411	2982 / 3903	3 875 / 5 083
Seasonal energy efficiency - Heating (35°C/55°C)	%	to be confirmed	175 / 125	175 / 125	177 / 128	178 / 130
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%		177/127	177/127	179/130	180 / 132
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)		40 / 57	40 / 57	40 / 60	40 / 62
Declared load profile - DHW	-	L	L	L	L	L
Energy class - DHW	-	A+	A+	A+	A+	A+
Annual energy consumption - DHW	kWh	793	793	793	793	793
Seasonal energy efficiency (%) - DHW	%	130	130	130	130	130
MAIN CHARACTERISTICS						
SCOP 35 °C / 55 °C	-		4.45 / 3.20	4.46 / 3.21	4.5 / 3.28	4.53 / 3.33
Heating capacity +7°C/+35°C – Underfloor Heating	kW	to be confirmed	4.50	5.50	7.50	9.50
COP +7°C/+35°C – Underfloor Heating			4.74	4.65	4.43	4.50
Heating capacity -7°C/+35°C – Underfloor Heating	kW		4.40	5.00	5.70	8.90
COP -7°C/+35°C – Underfloor Heating			2.76	2.63	2.68	2,65
Heating capacity +7°C/+45°C – Low T°radiators	kW		4.50	5.50	7.25	9.25
COP +7°C/+45°C – Low T°radiators			3.39	3.39	3.35	3.40
Heating capacity -7°C/+45°C – Low T°radiators	kW		4.28	4.82	5.58	8.61
COP -7°C/+45°C – Low T°radiator			2.26	2.21	2.17	2.27
Heating capacity +7°C/+55°C – Radiators	kW		4.50	5.50	7.00	9.00
COP +7°C/+55°C – Radiators			2.64	2.67	2.66	2.70
Heating capacity -7°C/+55°C – Radiators	kW		3.90	4.25	5.30	8.00
COP -7°C/+55°C – Radiators			1.85	1.89	1.90	1.95
Additional electric back-up heater	kW		3 / 6	3 / 6	3 / 6	3 / 6
INDOOR HYDRAULIC MODULE						
Noise level ⁽²⁾	dB(A)	to be confirmed	32	32	32	34
Net weight/filled weight ⁽³⁾	kg	143 / 373	143 / 373	143 / 373	143 / 373	145 / 363
Power supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
OUTDOOR UNIT						
Noise level ⁽⁴⁾	dB(A)	to be confirmed	35	35	38	38
Operating weight	kg	39	43	43	46	62
REFRIGERANT CHARACTERISTICS						
Min./max. length	m	3 / 30	3 / 30	3 / 30	3 / 30	3 / 30
Max. difference in height	m	20	20	20	20	20
R32 factory load	g	970	970	970	1 020	1 630
Quantity of refrigerant in tons of CO ₂ equivalent	t	0,65	0,65	0,65	0.69	1.10

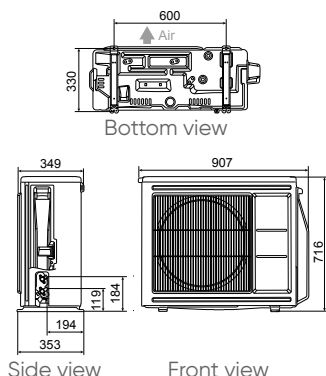
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

INSTALLATION DIMENSIONS (mm)

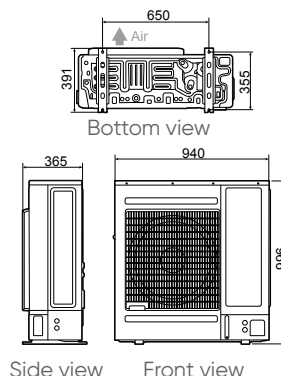
Outdoor Inverter unit
Alfea Extensa Duo A.I. R32
3.5 and 6



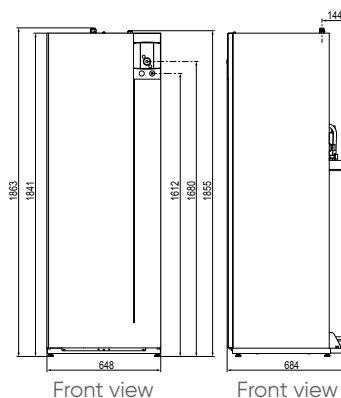
Outdoor Inverter unit
Alfea Extensa Duo A.I. R32 8



Outdoor Inverter unit
Alfea Extensa Duo A.I. R32 10



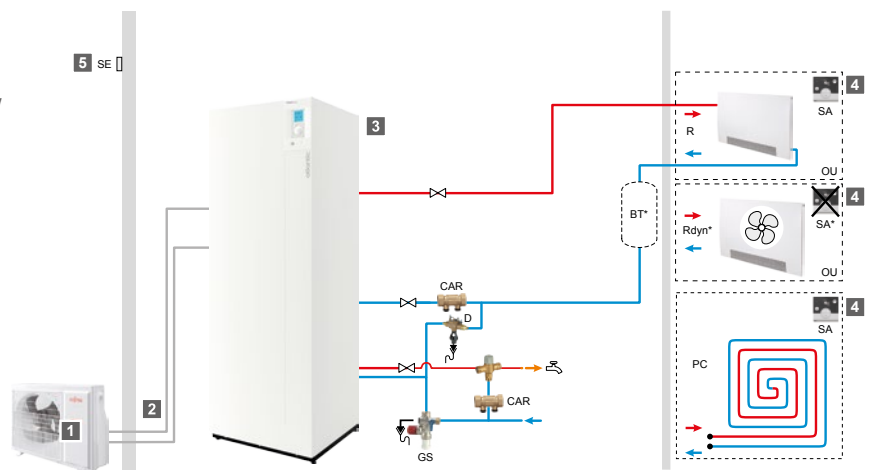
Indoor hydraulic
module



INSTALLATION SCHEMATICS

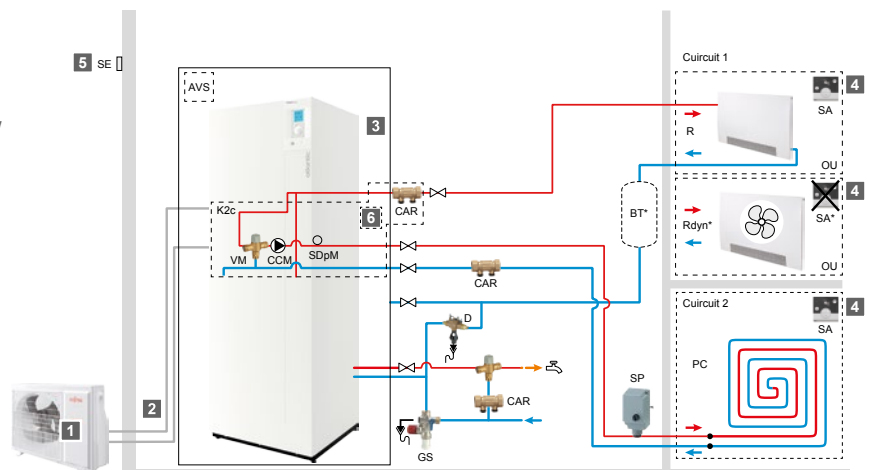
ALFEA EXTENSA DUO A.I.R32: 1 HEATING ZONE

- 1** Outdoor unit and ground support*
- 2** Refrigerant connections*
- 3** Hydraulic module with integrated DHW
- 4** Room controller*
- 5** Outdoor sensor



ALFEA EXTENSA DUO A.I.R32: 2 HEATING ZONES

- 1** Outdoor unit and ground support*
- 2** Refrigerant connections*
- 3** Hydraulic module with integrated DHW
- 4** Room controller*
- 5** Outdoor sensor
- 6** 2 zones kit* (integrated in the hydraulic module)



*Optional

Alfea Excellia

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



BENEFITS

- Robust hydraulic conception due to patented coaxial heat exchanger
- Intuitive interface and simplified use
- High-performance solution for large houses and/or cold climate
- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system

DESCRIPTION

- Suitable for new build and renovation
- 8 models: 11 to 17 kW
- Single-phase or three-phase models
- Heating only
- Patented coaxial heat exchanger
- Inverter regulation
- Integrated buffer tank 16 L (24 L for HP models)

AVAILABLE OPTIONS

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

INNOVATION

Alfea Excellia HP A.I. models are equipped with a new extended coaxial heat exchanger for higher performance.



Practical trainings

that will help you save time and be more efficient.



On-site trainings

- PAC 6-02: Install heat pumps air to water – 2 days
- PAC 6-04: Commissioning, maintenance and service of heat pumps air to water – 2 days

Alfea Excellia HP A.I.

- PAC 6-03-2: Install a new product – 1 day
- PAC 6-05-2: Commissioning, maintenance and service – 1 day



Online trainings

- PAC 6-13-1: Split heat pump installation commissioning – 1 day
- PAC 6-15-2: Heat pump Services test & breakdowns – 1 day

Alfea Excellia HP A.I.

- PAC 6-15-3: Heat pump service test & breakdowns – ½ day



35°C



55°C



Cozytouch

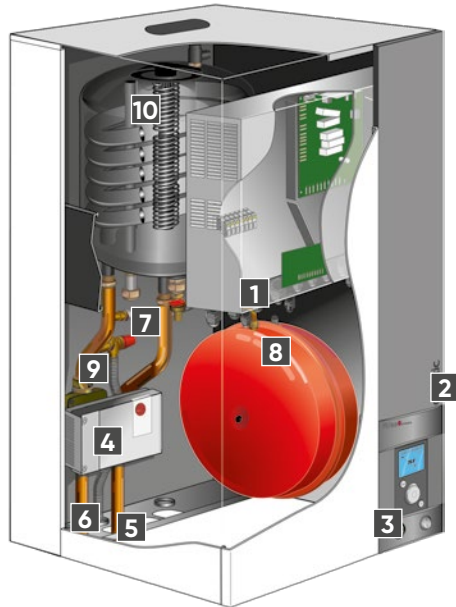


homecontrol™



PATENTED
EXCHANGER

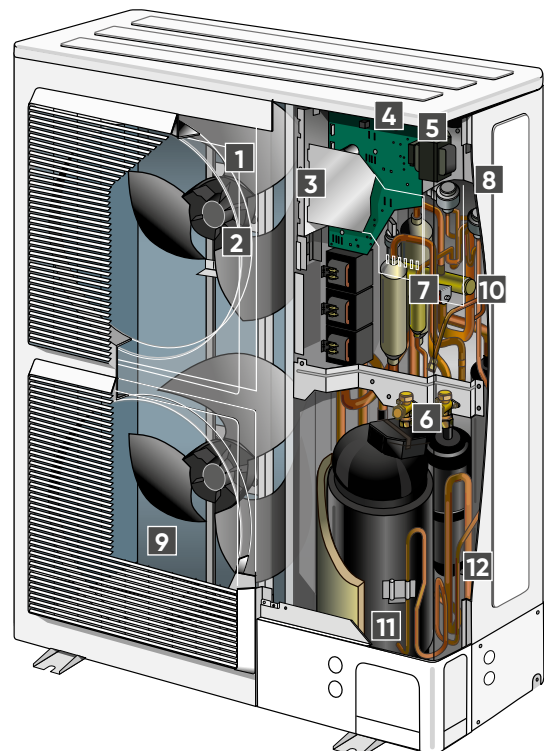
INDOOR HYDRAULIC MODULE



- 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



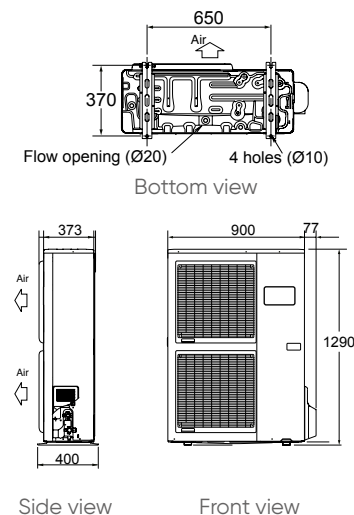
TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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	ALFEA EXCELLIA HP A.I. 16	ALFEA EXCELLIA HP A.I. TRI 15	ALFEA EXCELLIA HP A.I. TRI 17
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS									
Energy class - Heating (35°C/55°C)	-	A++ / A+	A++ / A+	A++ / A+	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	16 / 14	17 / 16	18 / 17
Annual energy consumption - Heating (35°C/55°C)	kWh	6062 / 6623	6824 / 8041	5930 / 6669	6738 / 7803	7408 / 9062	8014 / 8757	8606 / 9915	9059 / 10232
Seasonal energy efficiency - Heating (35°C/55°C)	%	151 / 112	148 / 113	154 / 112	150 / 117	149 / 117	163 / 125	164 / 130	161 / 130
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	153 / 114	150 / 115	156 / 114	152 / 119	151 / 119	165 / 127	166 / 132	163 / 132
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	46 / 69	46 / 69	46 / 68	46 / 69	46 / 69	45 / 67	45 / 67	45 / 67
MAIN CHARACTERISTICS									
SCOP 35 °C / 55 °C	-	3.85 / 2.97	3.77 / 2.90	3.92 / 2.17	3.82 / 3.00	3.80 / 3.00	4.25 / 3.21	4.18 / 3.33	4.12 / 3.33
Heating capacity +7°C/+35°C – Underfloor Heating	kW	10.80	13.50	10.80	13.00	15.17	16.00	15.00	17.00
COP +7°C/+35°C – Underfloor Heating		4.25	4.18	4.30	4.18	4.10	4.15	4.33	4.15
Heating capacity -7°C/+35°C – Underfloor Heating	kW	10.38	11.54	10.38	12.20	12.98	14.50	13.20	15.00
COP -7°C/+35°C – Underfloor Heating		2.40	2.27	2.43	2.38	2.40	5.27	4.55	5.32
Heating capacity +7°C/+55°C – Radiators	kW	7.59	9.48	9.29	10.60	12.24	14.50	13.20	15.00
COP +7°C/+55°C – Radiators		2.47	2.40	2.64	2.41	2.48	2.60	2.77	2.73
Heating capacity -7°C/+55°C – Radiators	kW	7.57	9.20	9.27	10.10	12.00	10.90	13.20	14.20
COP -7°C/+55°C – Radiators		1.66	1.81	1.82	1.79	1.74	1.85	1.95	1.92
Heating capacity -7°C / +60°C - Radiators	kW	6.71	8.42	8.48	10.10	10.9	10.80	11.20	11.70
Additional adjustable electric back-up heater	kW	6	6	9	9	9	6	9	9
INDOOR HYDRAULIC MODULE									
Noise level ⁽²⁾	dB(A)	39	39	39	39	39	37	37	37
Net weight/filled weight ⁽³⁾	kg	46 / 62	46 / 62	46 / 62	46 / 62	46 / 62	53 / 75	53 / 75	53 / 75
Power supply	V/Hz	230 / 50	230 / 50	400 / 50	400 / 50	400 / 50	230 / 50	400 / 50	400 / 50
OUTDOOR UNIT									
Noise level ⁽⁴⁾	dB (A)	47	47	46	47	47	45	45	45
Operating weight	kg	92	92	99	99	99	137	138	138
REFRIGERANT CHARACTERISTICS									
Min./max. length	m	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20	5 / 30	5 / 30	5 / 30
Max. difference in height	m	15	15	15	15	15	15	15	15
R410A factory load	g	2500	2500	2500	2500	2500	3800	3800	3800
Quantity of refrigerant in tons of CO ₂ equivalent	t	5	5	5	5	5	8	8	8

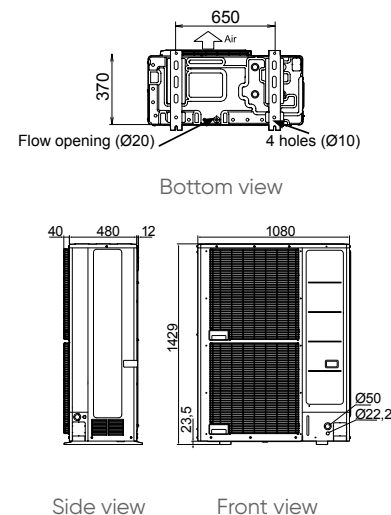
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

INSTALLATION DIMENSIONS (mm)

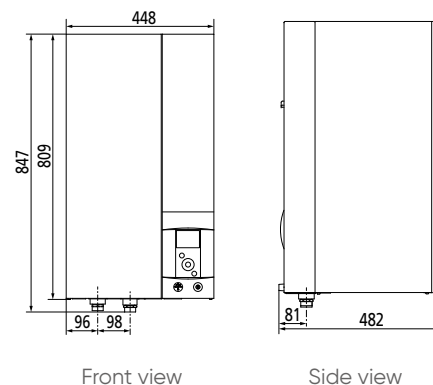
Outdoor Inverter unit Alfea Excellia A.I.
11 and 14 single-phase, 11, 14
and 16 three-phase



Outdoor Inverter unit
Alfea Excellia HP A.I. 16 single-phase,
15 and 17 three-phase



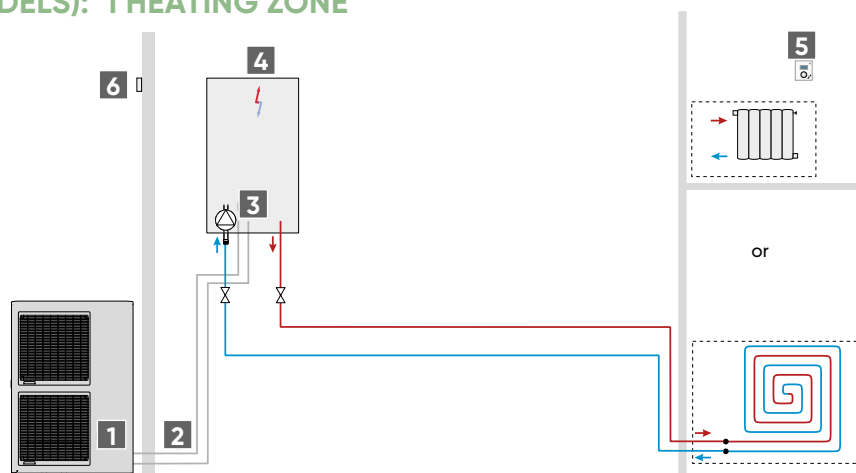
Indoor hydraulic
module



INSTALLATION SCHEMATICS

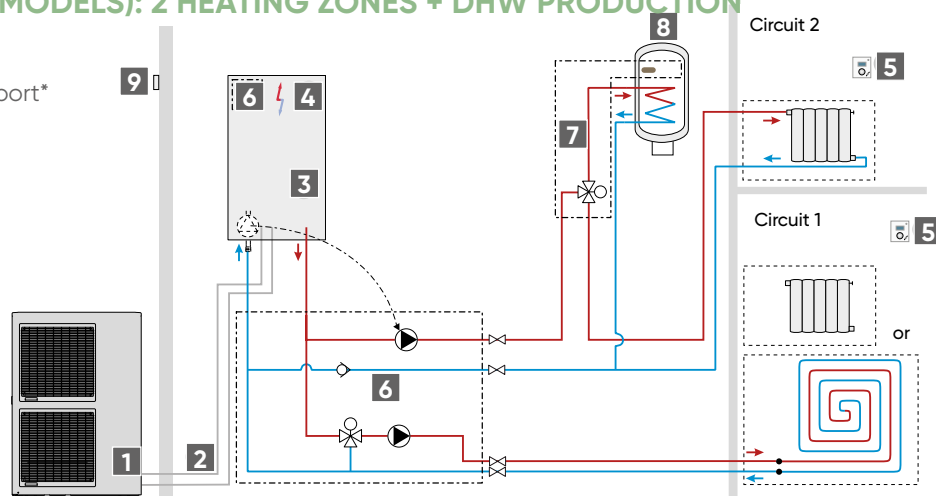
ALFEA EXCELLIA A.I. (+ HP MODELS): 1 HEATING ZONE

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module
- 4 Electric back-up heater
- 5 Room controller*
- 6 Outdoor sensor



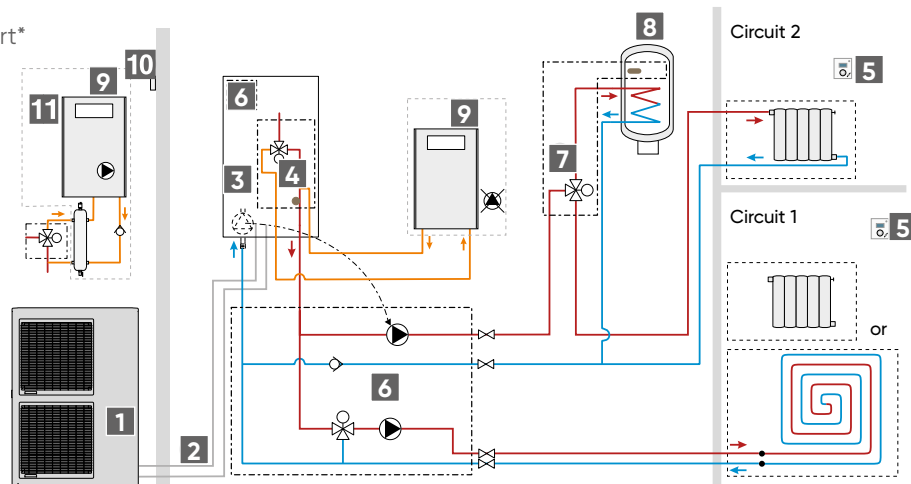
ALFEA EXCELLIA A.I. (+ HP MODELS): 2 HEATING ZONES + DHW PRODUCTION

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module
- 4 Electric back-up heater
- 5 Room controller*
- 6 2 zones kit*
- 7 DHW kit*
- 8 DHW tank*
- 9 Outdoor sensor



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

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module
- 4 Boiler connection kit*
- 5 Room controller*
- 6 2 zones kit*
- 7 DHW kit*
- 8 DHW tank*
- 9 Boiler
- 10 Outdoor sensor
- 11 Boiler with pump



Alfea Excellia Duo

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



BENEFITS

- Robust hydraulic conception due to patented coaxial heat exchanger
- Intuitive interface and simplified use
- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system
- DHW tank with high-performance regulation

DESCRIPTION

- Suitable for new build and renovation
- 8 models: 11 to 17 kW
- Single-phase or three-phase models
- Heating and DHW integrated
- Patented coaxial heat exchanger
- Inverter regulation
- Integrated buffer tank 16 L (24 L for HP models)

AVAILABLE OPTIONS

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

INNOVATION

Alfea Excellia HP Duo A.I. models are equipped with a new extended coaxial heat exchanger for higher performance.



Practical trainings

that will help you save time and be more efficient.



On-site trainings

- PAC 6-02: Install heat pumps air to water – 2 days
- PAC 6-04: Commissioning, maintenance and service of heat pumps air to water – 2 days

Alfea Excellia HP Duo A.I.

- PAC 6-03-2: Install a new product – 1 day
- PAC 6-05-2: Commissioning, maintenance and service – 1 day



Online trainings

- PAC 6-13-1: Split heat pump installation commissioning – 1 day
- PAC 6-15-2: Heat pump Services test & breakdowns – 1 day

Alfea Excellia HP Duo A.I.

- PAC 6-15-3: Heat pump service test & breakdowns – ½ day



35°C



55°C



Cozytouch

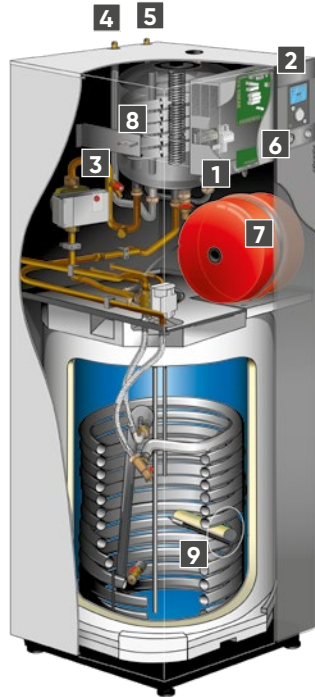


homecontrol®



PATENTED
EXCHANGER

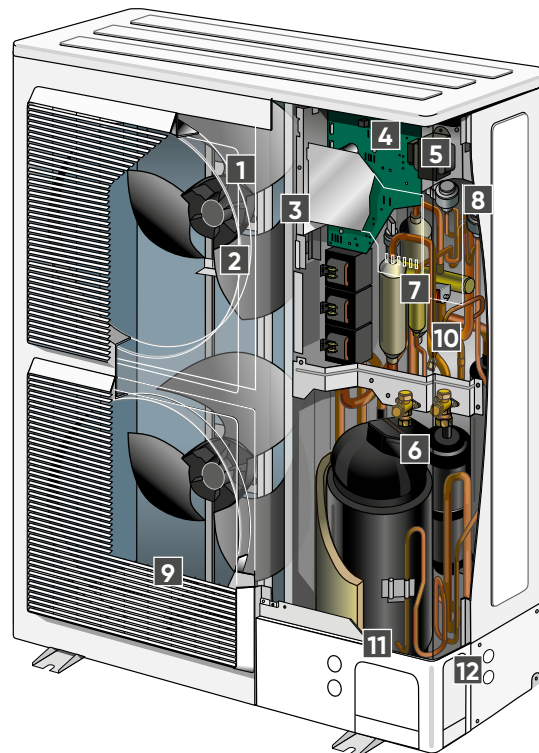
INDOOR HYDRAULIC MODULE



- 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-up

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



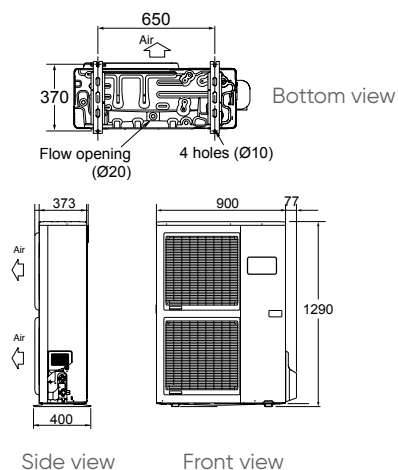
TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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	ALFEA EXCELLIA HP DUO A.I. 16	ALFEA EXCELLIA HP DUO A.I. TRI 15	ALFEA EXCELLIA HP DUO A.I. TRI 17
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS									
Energy class - Heating (35°C/55°C)	-	A++ / A+	A++ / A+	A++ / A+	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	16 / 14	17 / 14	18 / 17
Annual energy consumption - Heating [35°C/55°C]	kWh	6062 / 6623	6824 / 8041	5930 / 6669	6738 / 7803	7408 / 9062	8014 / 8757	8606 / 9915	9059 / 10232
Seasonal energy efficiency - Heating (35°C/55°C)	%	151 / 112	148 / 113	154 / 112	150 / 117	149 / 117	163 / 125	164 / 130	161 / 130
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	153 / 114	150 / 115	156 / 114	152 / 119	151 / 119	165 / 127	166 / 132	163 / 132
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	46 / 69	46 / 69	46 / 68	46 / 69	46 / 69	45 / 67	45 / 67	45 / 67
Declared load profile - DHW	-	L	L	L	L	L	L	L	L
Energy class - DHW	-	A	A	A	A	A	A	A	A
Annual water heating energy consumption	kWh	1166	1166	1166	1166	1166	941	941	941
Seasonal water heating energy efficiency (%)	%	88	88	88	88	88	109	109	109
MAIN CHARACTERISTICS									
SCOP 35 °C / 55 °C	-	3.85 / 2.87	3.77 / 2.90	3.92 / 2.17	3.82 / 3.00	3.80 / 3.00	4.25 / 3.21	4.18 / 3.33	4.12 / 3.33
Heating capacity +7°C/+35°C - Underfloor Heating	kW	10.80	13.50	10.80	13.00	15.17	16.00	15.00	17.00
COP +7°C/+35°C - Underfloor Heating		4.25	4.18	4.30	4.18	4.10	4.15	4.33	4.15
Heating capacity -7°C/+35°C - Underfloor Heating	kW	10.38	11.54	10.38	12.20	12.98	14.50	13.20	15
COP -7°C/+35°C - Underfloor Heating		2.40	2.27	2.43	2.38	2.40	2.75	2.90	2.82
Heating capacity +7°C/+55°C - Radiators	kW	7.59	9.48	9.29	10.60	12.24	14.5	13.20	15
COP +7°C/+55°C - Radiators		2.47	2.40	2.64	2.41	2.48	2.6	2.77	2.73
Heating capacity -7°C/+55°C - Radiators	kW	7.57	9.20	9.27	10.10	12.00	10.9	13.2	14.2
COP -7°C/+55°C - Radiators		1.66	1.81	1.82	1.79	1.74	1.85	1.95	1.92
Heating capacity -7°C / +60°C - Radiators	kW	6.71	8.42	8.48	10.10	10.9	10.8	11.2	11.7
Additional electric back-up heater	kW	6	6	9	9	9	6	9	9
INDOOR HYDRAULIC MODULE									
Noise level ⁽²⁾	dB(A)	39	39	39	39	39	37	37	37
Net weight/filled weight ⁽³⁾	kg	155 / 373	155 / 373	155 / 373	155 / 373	155 / 373	166 / 390	166 / 390	166 / 390
Power supply	V / Hz	230 / 50	230 / 50	400 / 50	400 / 50	400 / 50	230 / 50	400 / 50	400 / 50
OUTDOOR UNIT									
Noise level ⁽⁴⁾	dB(A)	47	47	46	47	47	45	45	45
Operating weight	kg	92	92	99	99	99	137	138	138
REFRIGERANT CHARACTERISTICS									
Min./max. length	m	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20	5 / 30	5 / 30	5 / 30
Max. difference in height	m	15	15	15	15	15	15	15	15
R410A factory load	g	2500	2500	2500	2500	2500	3800	3800	3800
Quantity of refrigerant in tons of CO ₂ equivalent	t	5	5	5	5	5	8	8	8

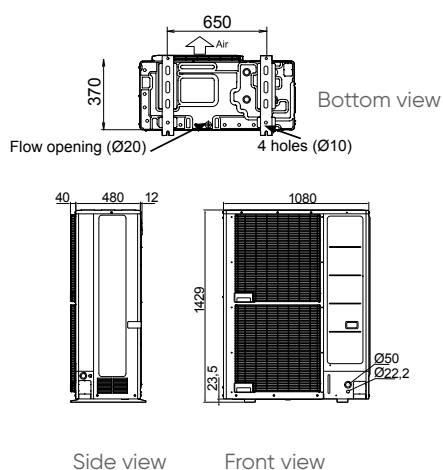
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

INSTALLATION DIMENSIONS (mm)

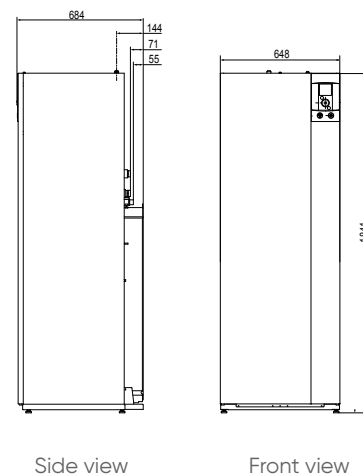
Outdoor Inverter unit Alfea Excellia Duo A.I. 11 and 14 single-phase, 11, 14 and 16 three-phase



Outdoor Inverter unit Alfea Excellia HP Duo A.I. 16 single-phase, 15 and 17 three-phase



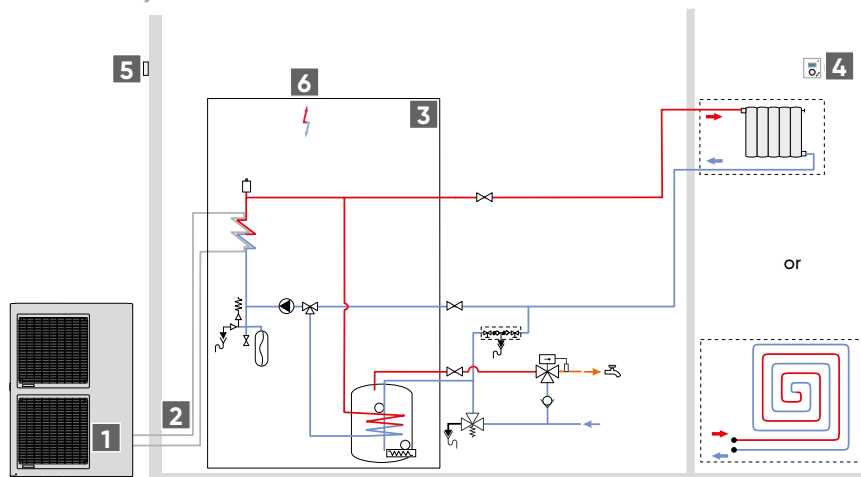
Indoor hydraulic module



INSTALLATION SCHEMATICS

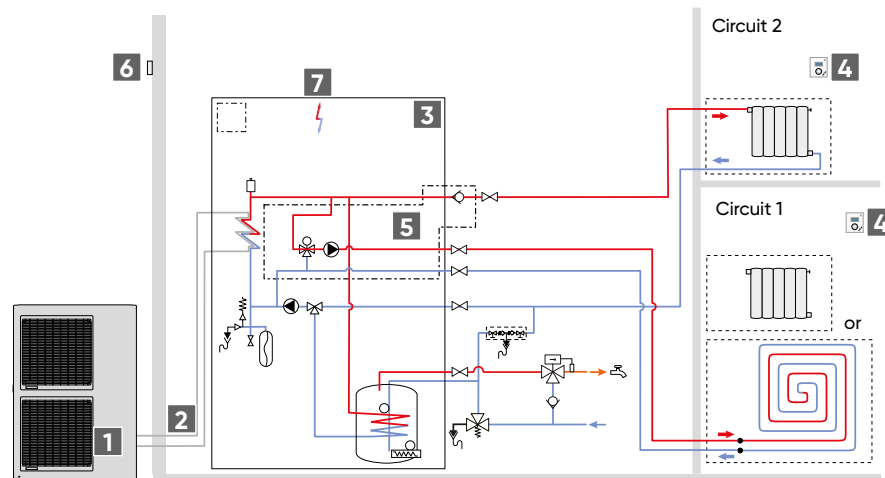
ALFEA EXCELLIA DUO A.I. (+ HP MODELS): 1 HEATING ZONE

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module with integrated DHW
- 4 Room controller*
- 5 Outdoor sensor
- 6 Electric back-up heater



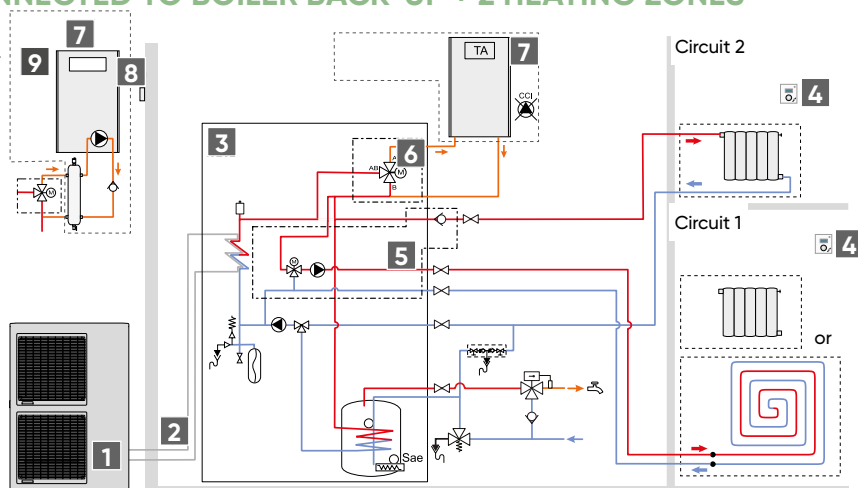
ALFEA EXCELLIA DUO A.I. (+ HP MODELS): 2 HEATING ZONES

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module with integrated DHW
- 4 Room controller*
- 5 2 zones kit* (integrated in the hydraulic module)
- 6 Outdoor sensor
- 7 Electric back-up heater



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

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module with integrated DHW
- 4 Room controller*
- 5 2 zones kit* (integrated in the hydraulic module)
- 6 Boiler connection kit*
- 7 Boiler
- 8 Outdoor sensor
- 9 Boiler with pump



Alfea Hybrid Duo Oil

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



BENEFITS

- Multi-energy solution for an optimum comfort even in conditions of very cold weather
- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system
- Energy savings due to new controls with energy input option
- 2 burners integrated: 23 kW and 29 kW

DESCRIPTION

- Solution for renovation projects
- Flow temperature of up to 80°C
- 6 models from 6 to 14 kW with 23 kW burner
- 4 models from 11 to 14 kW with 29 kW burner
- Single-phase or three-phase models

AVAILABLE OPTIONS

- 2 zones kit
- Room controller
- Boiler connection kit (optional)
- Cooling kit (optional)

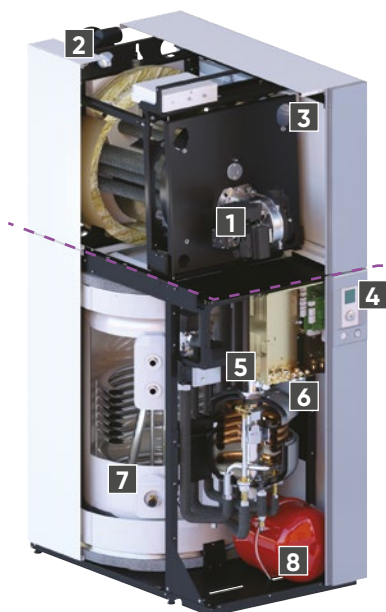
Practical trainings

that will help you save time and be more efficient.

Tailor-Made Training Programs



INDOOR HYDRAULIC MODULE



Condensing oil burner

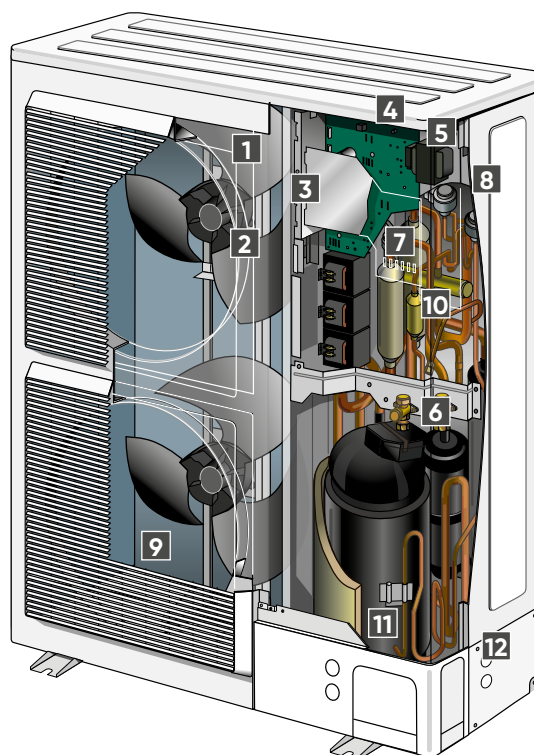
- 1 Oil burner
- 2 Chimney and room sealed models
- 3 Easy access to lifting bars

Alfea heat pump

- 4 Navistem 400S regulator
- 5 Low consumption circulation pump
- 6 Patented coaxial heat exchanger
- 7 190 L storage tank with ACI anti-corrosive protection
- 8 Expansion vessel

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

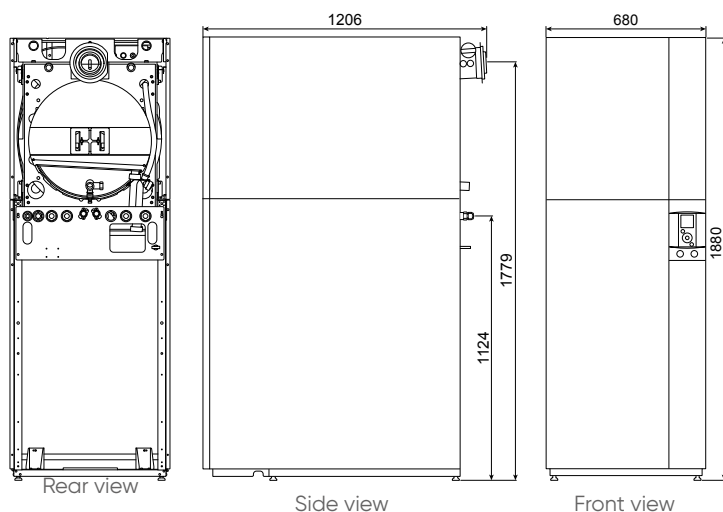
	UNIT	ALFEA HYBRID DUO OIL A.I. 6 – 23 KW	ALFEA HYBRID DUO OIL A.I. 8 – 23 KW	ALFEA HYBRID DUO OIL A.I. 11 – 23 KW	ALFEA HYBRID DUO OIL A.I. 14 – 23 KW
REFRIGERANT					
		R410A	R410A	R410A	R410A
ENERGY EFFICIENCY CHARACTERISTICS - HEATING - AVERAGE CLIMAT					
Energy class - Heating (35°C / 55°C)	-	A++ / A+	A++ / A+	A++ / A+	A+ / A+
Thermal power - heat pump (55°C)	kW	5 / 5	7 / 6	11 / 9	11 / 9
Annual energy consumption - Heating (55°C)	kWh	2505 / 3180	3375 / 3886	6062 / 6623	6824 / 8041
Seasonal energy efficiency - Heating (55°C)	%	169 / 115	156 / 118	151 / 112	148 / 113
Seasonal energy efficiency - Heating (55°C) with outdoor sensor	%	171 / 117	158 / 120	153 / 114	150 / 115
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	48 / 63	48 / 69	48 / 69	48 / 69
ENERGY EFFICIENCY CHARACTERISTICS - DHW - AVERAGE CLIMAT					
Declared load profile	-	L	L	L	L
Energy class - DHW	-	A+	A+	A	A
Annual energy consumption - DHW	kWh	880	880	1166	1166
Seasonal energy efficiency [%] - DHW	%	120	120	88	88
MAIN CHARACTERISTICS					
SCOP 35 °C / 55 °C	-	4.3 / 2.95	3.97 / 3;02	3.85 / 2.87	3.77 / 2.90
Heating capacity +7°C/+35°C - Underfloor Heating	kW	6.00	7.50	10.80	13.50
COP +7°C/+35°C	-	4.26	4.08	4.25	4.18
Heating capacity -7°C/+35°C - Underfloor Heating	kW	4.60	5.70	10.38	11.54
COP -7°C /+35°C	-	2.64	2.56	2.40	2.27
Heating capacity +7°C/+45°C - Low T° radiators	kW	5.10	6.20	9.05	11.32
COP +7°C/+55°C	-	2.18	3.32	3.21	3.07
Heating capacity -7°C/+45°C - Low T° radiators	kW	4.45	5.05	9.16	11.41
COP -7°C/+45°C	-	2.18	2.04	2.00	1.93
Nominal thermal power of oil back-up	kW	23.00	23.00	23.00	23.00
INDOOR HYDRAULIC MODULE					
Noise level on Thermodynamic mode ⁽²⁾	dB(A)	40	40	40	40
Dim. chimney version h x w x d	mm	1880x680x1206			
Dim. room sealed system version h x w x d	mm	1200x1710x1206			
Net weight/filled weight	kg	299/586	299/586	299/586	299/586
HYDRAULIC CHARACTERISTICS					
Combustion chamber capacity	L	63	63	63	63
Max working pressure	bar	3	3	3	3
Expansion vessel capacity	L	18	18	18	18
DHW tank capacity	L	190	190	190	190
ELECTRICAL CONNECTIONS					
Power supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50
Standby mode consumption	W	0.15	0.15	0.15	0.15
HYDRAULIC CONNECTIONS					
Ø Heating circ. inlet and outlet	"/mm	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
CHIMNEY CONNECTION DEPENDING ON MODEL					
Ø Chimney inlet and outlet	mm	80	80	80	80
Burner optimum depression	Pa	15	15	15	15
ROOM SEALED SYSTEM CONNECTION DEPENDING ON MODEL					
Ø Pipe	mm	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
Heating flow water max T°	°C	80	80	80	80
Max water T°(heat pump)	°C	60	60	60	60
OUTDOOR UNIT					
Noise level ⁽²⁾	dB(A)	41	47	47	47
Operating weight	kg	41	42	92	92
REFRIGERANT CHARACTERISTICS					
R410A factory load	g	1100	1400	2500	2500
Quantity of refrigerant in tons of CO ₂ equivalent	-	2.2957	2.9218	5.2175	5.2175
Min./max. length	m	5 / 30	5 / 30	5 / 20	5 / 20
Max. difference in height	m	20	20	15	15

(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

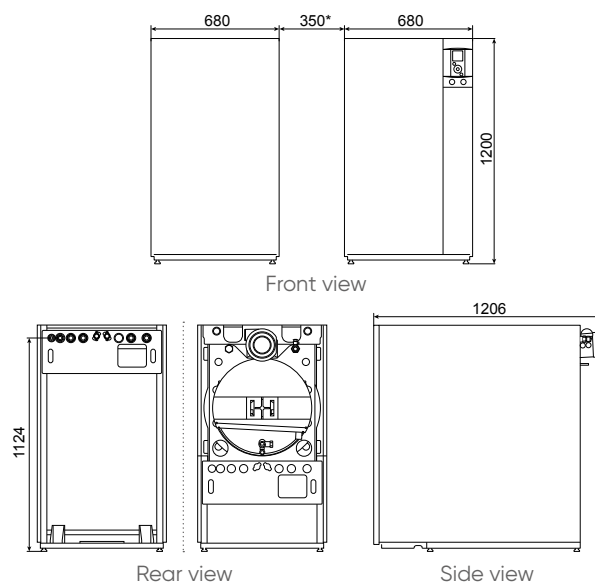
ALFEA HYBRID DUO OIL A.I. TRI 11 – 23 KW	ALFEA HYBRID DUO OIL A.I. TRI 14 – 23 KW	ALFEA HYBRID DUO OIL A.I. 11 – 29 KW	ALFEA HYBRID DUO OIL A.I. 14 – 29 KW	ALFEA HYBRID DUO OIL A.I. TRI 11 – 29 KW	ALFEA HYBRID DUO OIL A.I. TRI 14 – 29 KW
R410A	R410A	R410A	R410A	R410A	R410A
A++ / A+	A++ / A+	A++ / A+	A+ / A+	A++ / A+	A++ / A+
13 / 11	13 / 11	11 / 9	11 / 9	13 / 11	13 / 11
5930 / 6669	6738 / 7803	6062 / 6623	6824 / 8041	5930 / 6669	6738 / 7803
154 / 112	150 / 117	151 / 112	148 / 113	154 / 112	150 / 117
156 / 114	152 / 119	153 / 114	150 / 115	156 / 114	152 / 119
48 / 69	48 / 69	48 / 69	48 / 69	48 / 69	48 / 69
L	L	L	L	L	L
A	A	A	A	A	A
1166	1166	1166	1166	1166	1166
88	88	88	88	88	88
3,92 / 2,87	3,82 / 3,00	3,85 / 2,87	3,77 / 2,90	3,92 / 2,87	3,82 / 3,00
10,80	13,00	10,80	13,50	10,80	13,00
4,30	4,18	4,25	4,18	4,30	4,18
10,38	12,20	10,38	11,54	10,38	12,20
2,43	2,38	2,40	2,27	2,43	2,38
9,90	12,10	9,05	11,32	9,90	12,10
3,32	3,20	3,21	3,07	3,32	3,20
9,98	10,70	9,16	11,41	9,98	10,70
2,16	2,08	2,00	1,93	2,16	2,08
23,00	23,00	29,00	29,00	29,00	29,00
40	40	40	40	40	40
1880x680x1206					
1200x1710x1206					
299/586	299/586	303/590	303/590	303/590	303/590
63	63	59	59	59	59
3	3	3	3	3	3
18	18	18	18	18	18
190	190	190	190	190	190
400 / 50	400 / 50	230 / 50	230 / 50	400 / 50	400 / 50
0,15	0,15	0,15	0,15	0,15	0,15
1" / 26x34	1" / 26x34	1" / 26x34	1" / 26x34	1" / 26x34	1" / 26x34
3/4" / 20x27	3/4" / 20x27	3/4" / 20x27	3/4" / 20x27	3/4" / 20x27	3/4" / 20x27
80	80	80	80	80	80
15	15	15	15	15	15
80 / 125	80 / 125	80 / 125	80 / 125	80 / 125	80 / 125
-25/35	-25/35	-25/35	-25/35	-25/35	-25/35
80	80	80	80	80	80
60	60	60	60	60	60
46	47	47	47	46	47
99	99	92	92	99	99
2500	2500	2500	2500	2500	2500
5,2175	5,2175	5,2175	5,2175	5,2175	5,2175
5 / 20	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20
15	15	15	15	15	15

INSTALLATION DIMENSIONS (mm)

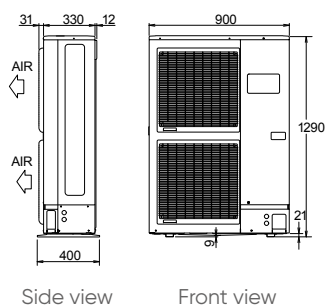
On-top indoor hydraulic module



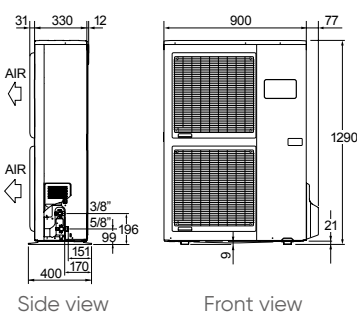
Side-by-side indoor hydraulic module



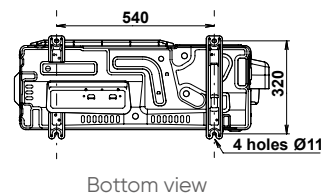
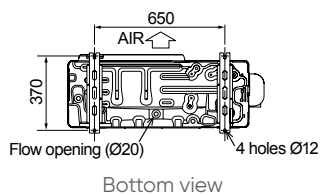
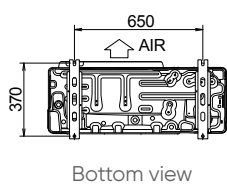
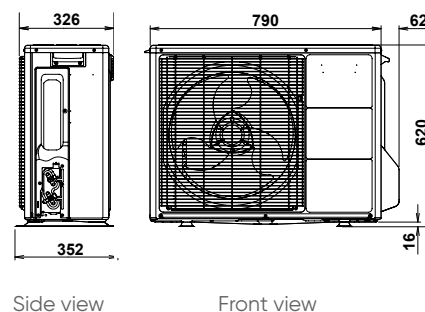
Outdoor Inverter unit Alfea Hybrid Duo Oil A.I. 11 and 14 single-phase



Outdoor Inverter unit Alfea Hybrid Duo Oil A.I. 11 and 14 three-phase



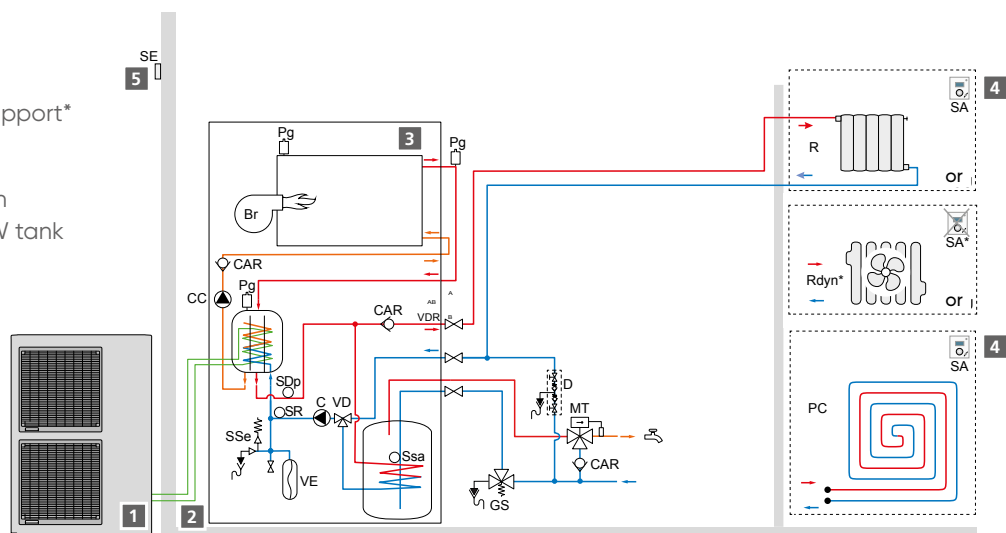
Outdoor Inverter unit Alfea Hybrid Duo Oil A.I. 6 and 8 single-phase



INSTALLATION SCHEMATICS

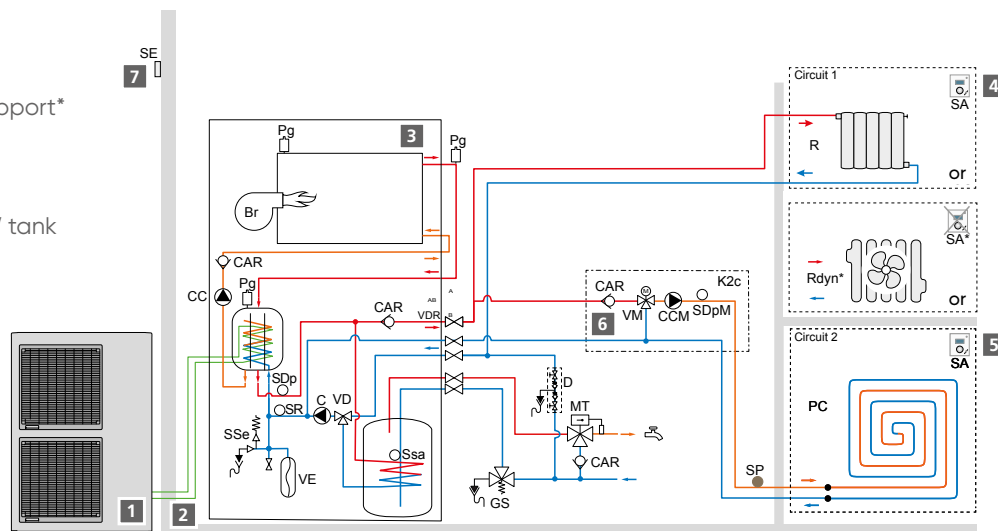
ALFEA HYBRID DUO OIL A.I.: 1 HEATING ZONE

- 1 Outdoor Inverter unit with support*
- 2 Refrigeration connections*
- 3 Indoor hydraulic module with Low NOx oil burner and DHW tank
- 4 Room controller*
- 5 Outdoor sensor



ALFEA HYBRID DUO OIL A.I.: 2 HEATING ZONES

- 1 Outdoor Inverter unit with support*
- 2 Refrigeration connections*
- 3 Indoor hydraulic module with Low NOx oil burner and DHW tank
- 4 Room controller zone 1*
- 5 Room controller zone 2*
- 6 2 zones kit*
- 7 Outdoor sensor



*Optional

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



+ BENEFITS

- High performance with patented coaxial heat exchanger and condensing gas unit
- Equipped with 120 L enamelled steel DHW storage tank with ACI anti-corrosive protection
- Ergonomic outdoor sensor control and programmable indoor temperature
- Innovation with Gas R models: Cooling mode & new control option with energy cost input for more energy savings

DESCRIPTION

- Replacement of existing gas boiler
- 7 models: 6 to 16 kW
- Single-phase and three-phase models
- Heating and DHW integrated
- Patented coaxial heat exchanger
- Inverter regulation
- Navistem 200S control system

AVAILABLE OPTIONS

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

Practical trainings

that will help you save time and be more efficient.

Tailor-Made Training Programs

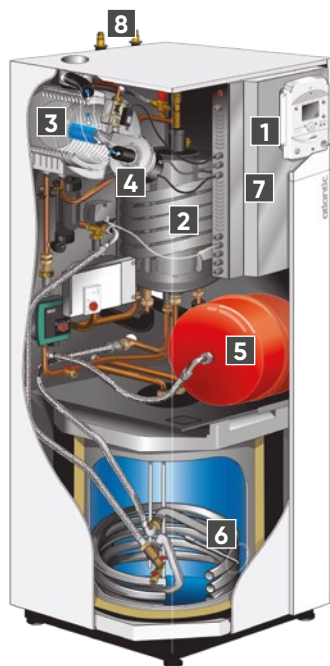
*Available for Alfea Hybrid Duo Gas R models



55°C

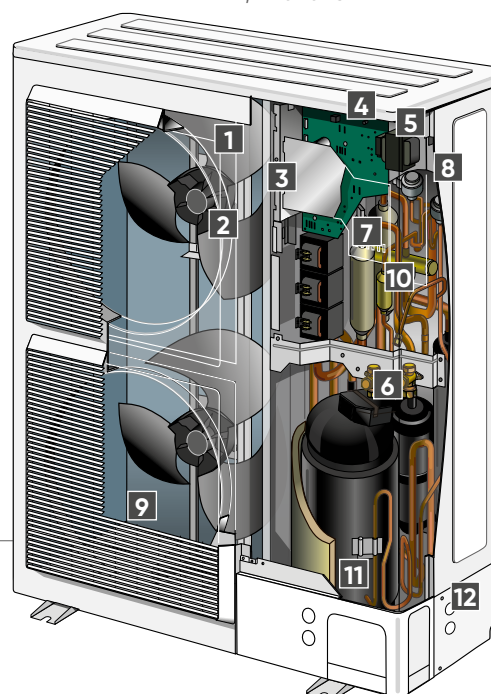


INDOOR HYDRAULIC MODULE



- 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

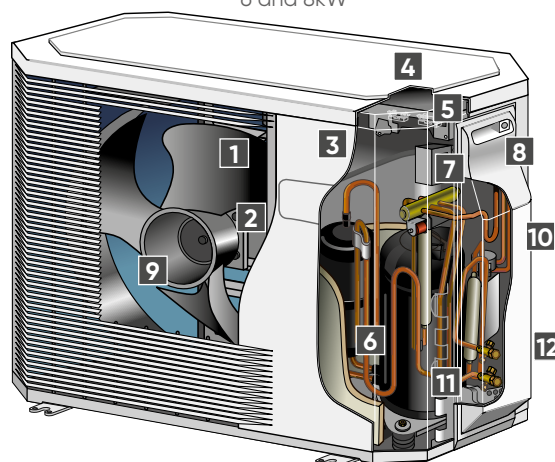
Outdoor Inverter unit
11, 14 and 16kW



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
6 and 8kW



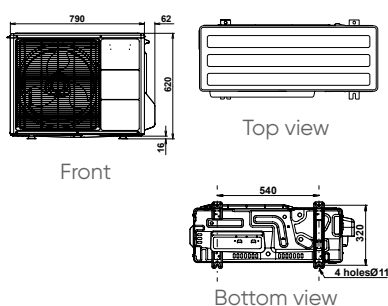
TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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
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
Annual energy consumption - Heating (55°C)	kWh	3180	3836	6841	8041	6669	7803	9062
Seasonal energy efficiency - Heating (55°C)	%	115	118	112	113	112	117	117
Seasonal energy efficiency - Heating (55°C) with outdoor sensor	%	117	120	114	115	114	119	119
Sound power level (indoor/outdoor) ⁽¹⁾	dB (A)	46 / 63	46 / 69	46 / 69	46 / 70	46 / 66	46 / 68	46 / 69
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
THERMODYNAMIC PERFORMANCE								
SCOP 35 °C / 55 °C	-	4.30 / 2.95	3.97 / 3.02	3.85 / 2.87	3.77 / 2.90	3.92 / 2.87	3.82 / 3.00	3.80 / 3.00
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
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 / 50	230 / 50	230 / 50	230 / 50	400 / 50	400 / 50	400 / 50
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

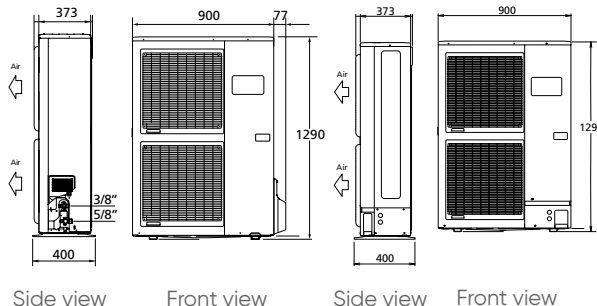
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

INSTALLATION DIMENSIONS (mm)

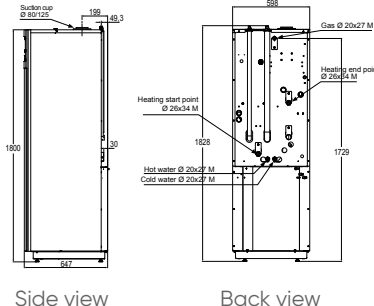
Outdoor Inverter unit Alfea Hybrid Duo Gas R6, R8



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



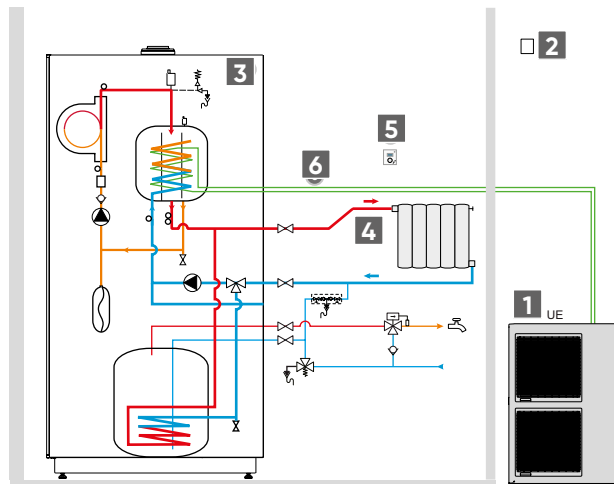
Indoor hydraulic module



INSTALLATION SCHEMATICS

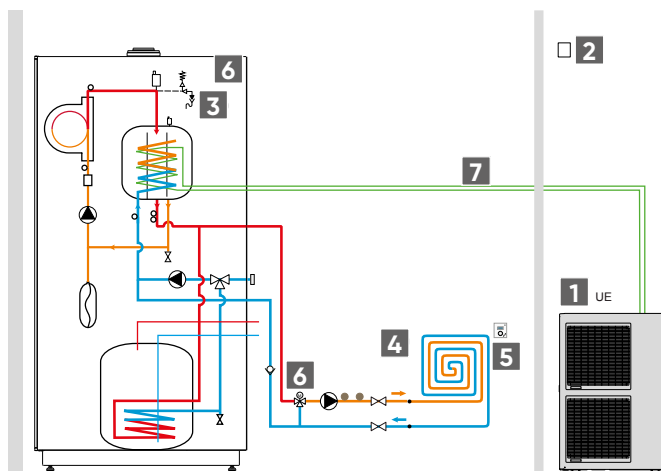
ALFEA HYBRID DUO GAS: 1 HEATING ZONE

- 1 Outdoor Inverter unit
- 2 Outdoor sensor
- 3 Indoor hydraulic module with back-up boiler and DHW tank
- 4 Radiators
- 5 Room controller*
- 6 Refrigeration connections*



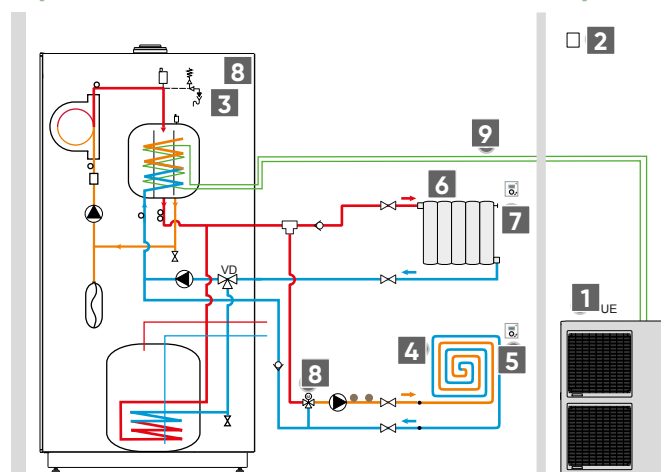
ALFEA HYBRID DUO GAS: 1 HEATING ZONE + UNDERFLOOR HEATING

- 1 Outdoor Inverter unit
- 2 Outdoor sensor
- 3 Indoor hydraulic module with back-up boiler and DHW tank
- 4 Underfloor heating
- 5 Room controller*
- 6 2 zones kit or floor heating*
- 7 Refrigeration connections*



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

- 1 Outdoor Inverter unit
- 2 Outdoor sensor
- 3 Indoor hydraulic module with back-up boiler and DHW tank
- 4 Underfloor heating
- 5 Room controller zone 1*
- 6 Radiators
- 7 Room controller zone 2*
- 8 2 zones kit or underfloor heating*
- 9 Refrigeration connections*



Alfea range accessories

MODULATING CONTROLLER NAVILINK A59 NB



+ PRODUCT

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

DESCRIPTION

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

ROOM CONTROLLERS NAVILINK A75 / A78



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 and full access to set-up
- Energy consumption indicator

DESCRIPTION

- Wireless communication
- 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:
 - High-performance coil for air-to-water heat pumps (Mileo)
 - Extra-high performance coil for air-to-water and ground source heat pumps (Mileo+)

DESCRIPTION

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

2 ZONES KIT



2 zones kit for single service heat pump

+ PRODUCT

- 2 zones kit for dual service heat pump
- Integrated low consumption circulation pump

DESCRIPTION

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

HEAT PUMP ADDITIONAL RELAY KIT



+ 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 6 kW

DESCRIPTION

- 6 kW 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

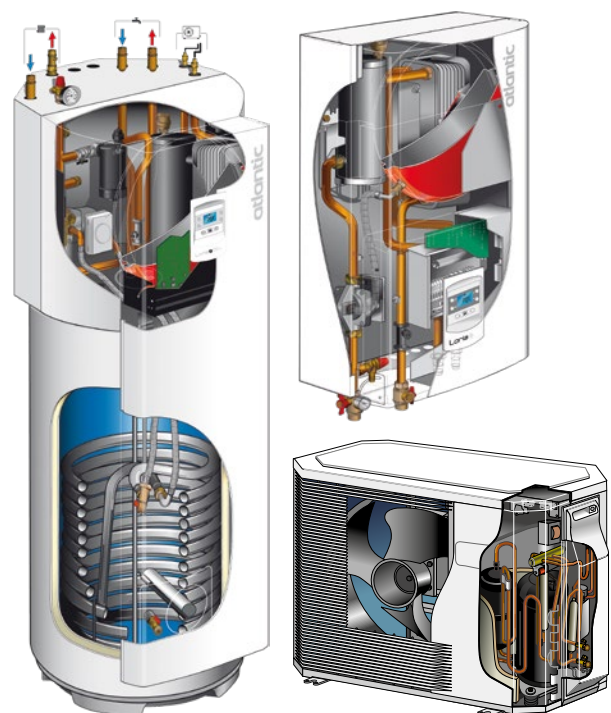
Ergonomic design, in a small space!

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)

*Optional

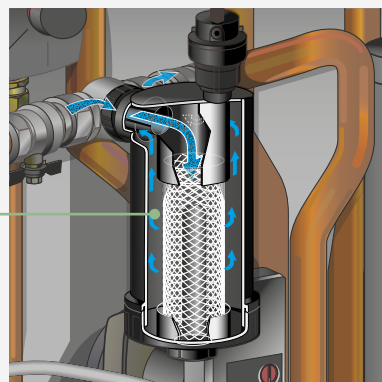


Loria range



Easy maintenance

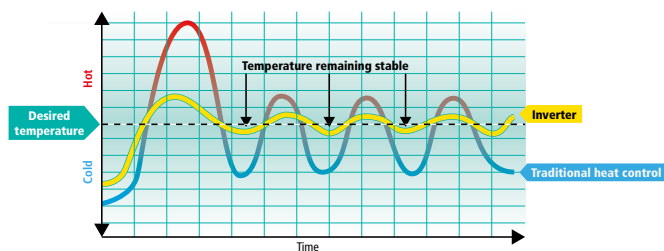
- Hinged electric cabinet to access internal components
- Loria: filter valve (as standard), easy to remove and clean
- Loria Duo: Magnetic mud filter (as standard)



Easy set-up

- Inverter regulation
- Configurable temperature control
- Choice of control options:
 - 2 heating zones
 - Cooling
 - DHW storage tank
- Floor drying programme

Comparison between Inverter and traditional heat control



Performances

- COP up to 4.96
- Energy efficiency class up to A+++
- Full Inverter regulation
- Low energy consumption circulation pump

Atlantic control system NAVISTEM 100H

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



Loria

Split air-to-water heat pump

Energy-efficient solution for new build projects



BENEFITS

- Space-saving indoor hydraulic module with plate heat exchanger
- One or two heating zone(s) management
- Compact solution for new build projects

DESCRIPTION

- Energy-efficient solution for new build projects
- 4 models: 4 to 10 kW
- Single-phase models
- Navistem 100H control system
- Integrated electric back-up heater
- Inverter regulation

AVAILABLE OPTIONS

- Magnetic mud filter
- 2 zones kit (plug-and-play kit)
- Cooling kit*
- Separate hot water tank
- Room controller

NEW MODULATING CONTROLLER NAVILINK 105

- Modern design
- Simplified programming through integrated assistance



Practical trainings

that will help you save time and be more efficient.



On-site trainings

- PAC 6-03-4: Heat pumps air to water – 1 day
- PAC 6-05-4: Commissioning maintenance and service – 1 day



Online trainings

- PAC 6-13-2: Heat pump installation commissioning – ½ day
- PAC 6-15-4: Heat pump installation commissioning – ½ day

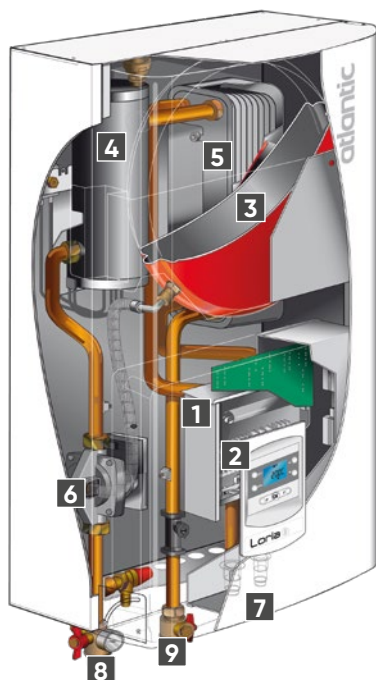


35°C



55°C

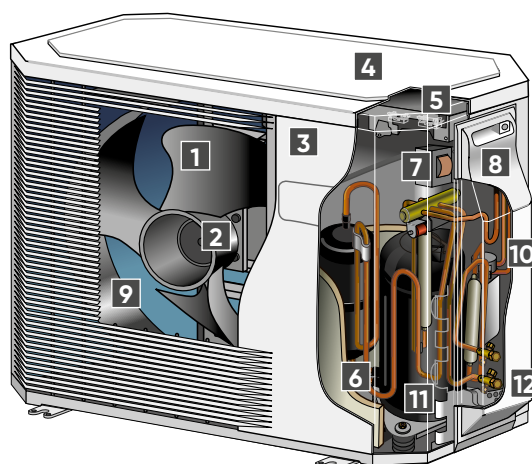
INDOOR HYDRAULIC MODULE



- 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



TECHNICAL CHARACTERISTICS AND PERFORMANCES

E.P.

	UNIT	LORIA 6004	LORIA 6006	LORIA 6008	LORIA 6010
REFRIGERANT		R410A	R410A	R410A	R410A
ENERGY EFFICIENCY CHARACTERISTICS					
Energy class - Heating (35°C/55°C)		A+++ / A++	A+++ / A++	A+++	A++ / A++
Rated heat output (35°C/55°C)	kW	4 / 4	6 / 5	7 / 6	9/7
Annual energy consumption - Heating (35°C/55°C)	kWh	1884 / 2708	2588 / 2933	3147 / 4132	4481 / 5256
Seasonal energy efficiency - Heating (35°C/55°C)	%	181 / 127	186 / 128	176 / 129	154 / 116
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	183 / 129	188 / 130	178 / 131	156 / 118
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	44 / 62	44 / 62	44 / 69	44 / 68
MAIN CHARACTERISTICS					
SCOP 35 °C / 55 °C	-	4.6 / 3.25	4.72 / 3.27	4.46 / 3.30	4.22 / 3.20
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
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	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
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

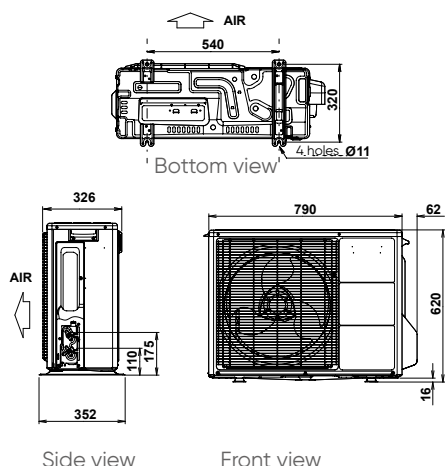
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment.

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

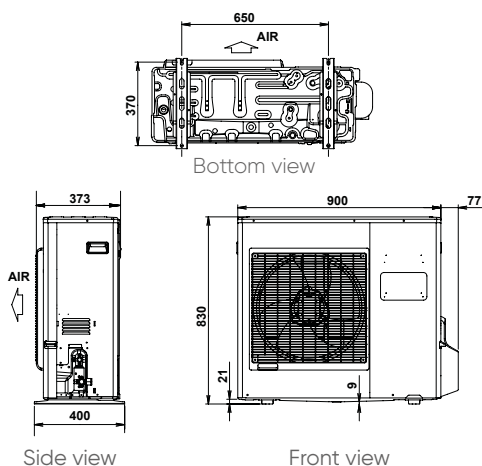
(3) Acoustic pressure at 5m from HP, 1.5 m height, open field, directivity 2.

INSTALLATION DIMENSIONS (mm)

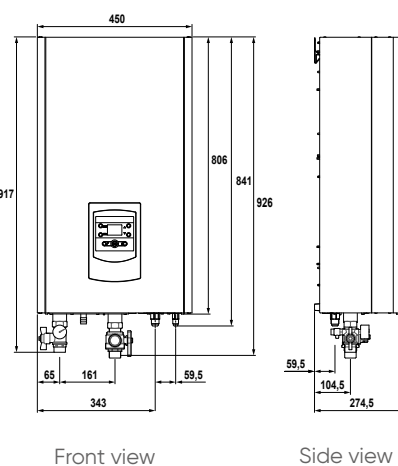
Loria 4,6 and 8kW
Outdoor Inverter unit



Loria 10kW
Outdoor Inverter unit



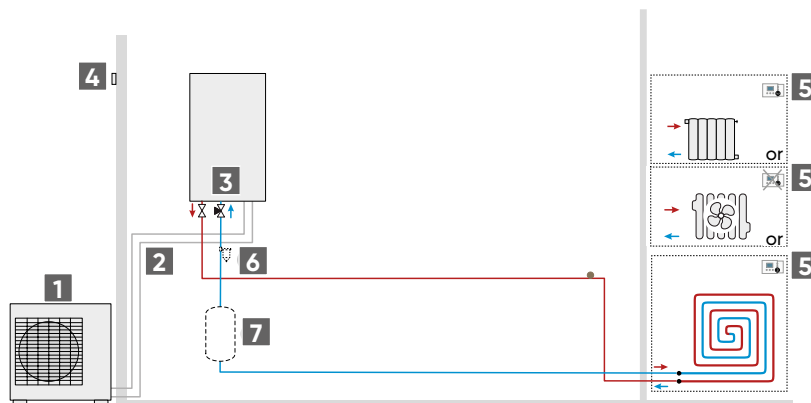
Indoor hydraulic module



INSTALLATION SCHEMATICS

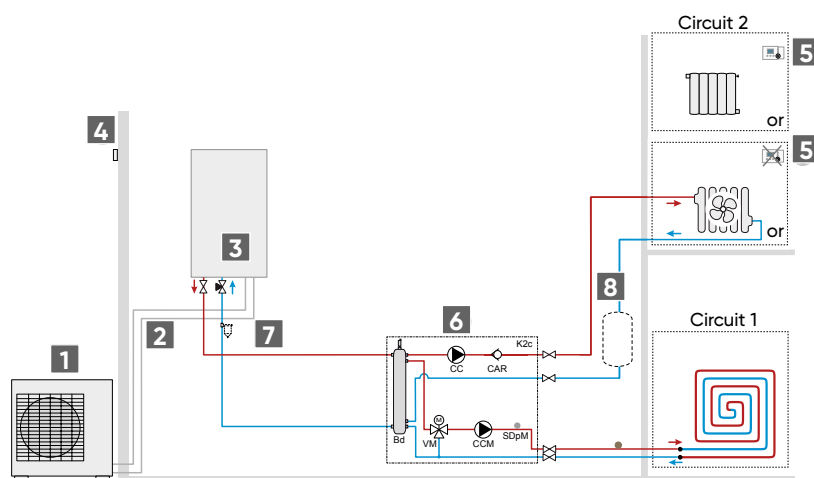
LORIA: 1 HEATING ZONE

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module
- 4 Outdoor sensor
- 5 Room controller*
- 6 Magnetic mud filter*
- 7 Buffer tank**



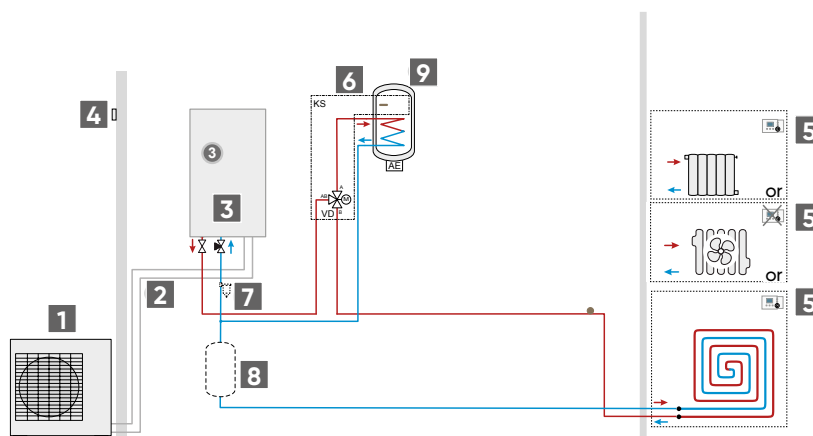
LORIA: 2 HEATING ZONES

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module
- 4 Outdoor sensor
- 5 Room controller*
- 6 2 zones kit*
- 7 Magnetic mud filter*
- 8 Buffer tank**



LORIA: 1 HEATING ZONE + DHW PRODUCTION

- 1 Outdoor unit and ground support*
- 2 Refrigerant connections*
- 3 Hydraulic module
- 4 Outdoor sensor
- 5 Room controller*
- 6 DHW kit*
- 7 Magnetic mud filter*
- 8 Buffer tank**
- 9 DHW tank*



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

Loria Duo

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



+ BENEFITS

- Space-saving indoor hydraulic module
- Magnetic mud filter
- High performance of DHW service
- DHW tank (190 L) with high-performance regulation

DESCRIPTION

- Average temperature solution for new build projects
- 4 models: 4 to 10 kW
- Single-phase models
- Heating and DHW integrated
- Navistem 100H control system
- Inverter regulation

AVAILABLE OPTIONS

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

NEW MODULATING CONTROLLER NAVILINK 105

- Modern design
- Simplified programming through integrated assistance



Practical trainings

that will help you save time and be more efficient.



On-site trainings

- PAC 6-03-4: Heat pumps air to water – 1 day
- PAC 6-05-4: Commissioning maintenance and service – 1 day



Online trainings

- PAC 6-13-2: Heat pump installation commissioning – ½ day
- PAC 6-15-4: Heat pump installation commissioning – ½ day

Up to



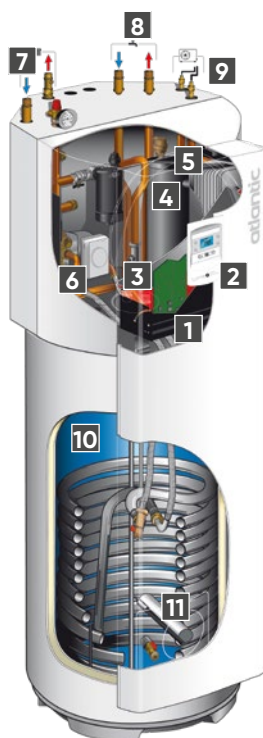
35°C



55°C



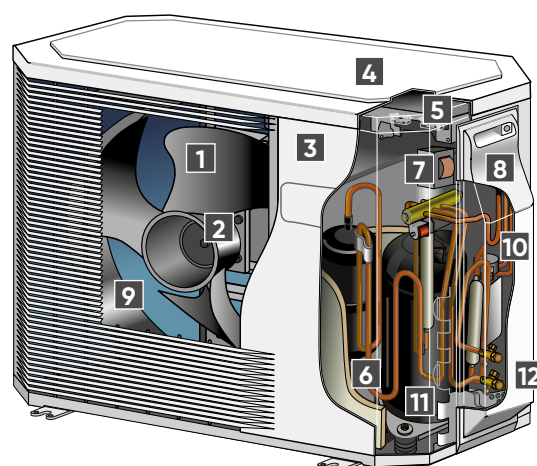
INDOOR HYDRAULIC MODULE



- 1 Electric board
- 2 User interface/regulator
- 3 Expansion vessel
- 4 Electric back-up
- 5 Plate heat exchanger
- 6 Low-consumption circulation pump
- 7 Heating connections
- 8 HW connections
- 9 Refrigerant connections
- 10 DHW tank
- 11 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 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



TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	LORIA DUO 6004	LORIA DUO 6006	LORIA DUO 6008	LORIA DUO 6010
REFRIGERANT		R410A	R410A	R410A	R410A
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
Annual energy consumption - Heating (35°C/55°C)	kWh	1884 / 2708	2588 / 2933	3147 / 4132	4481 / 5256
Seasonal energy efficiency - Heating (35°C/55°C)	%	181 / 127	186 / 128	176 / 129	154 / 116
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	183 / 129	188 / 130	178 / 131	156 / 118
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
MAIN CHARACTERISTICS					
SCOP 35 °C / 55 °C	-	4.6 / 3.25	4.72 / 3.27	4.46 / 3.30	3.9 / 2.95
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
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	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
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

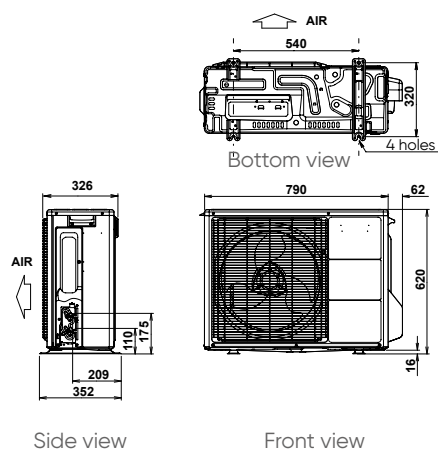
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment.

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

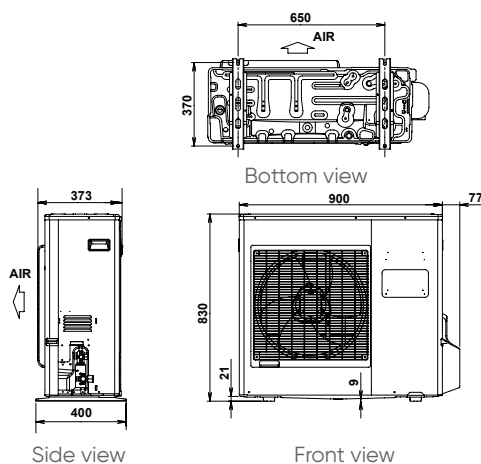
(3) Acoustic pressure at 5m from HP, 1.5 m height, open field, directivity 2.

INSTALLATION DIMENSIONS (mm)

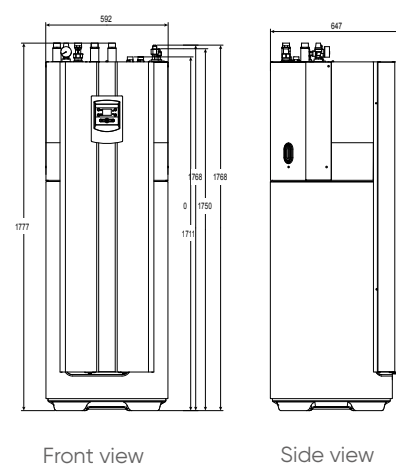
Loria Duo 4, 6 and 8 kW
Outdoor Inverter unit



Loria Duo 10 kW
Outdoor Inverter unit



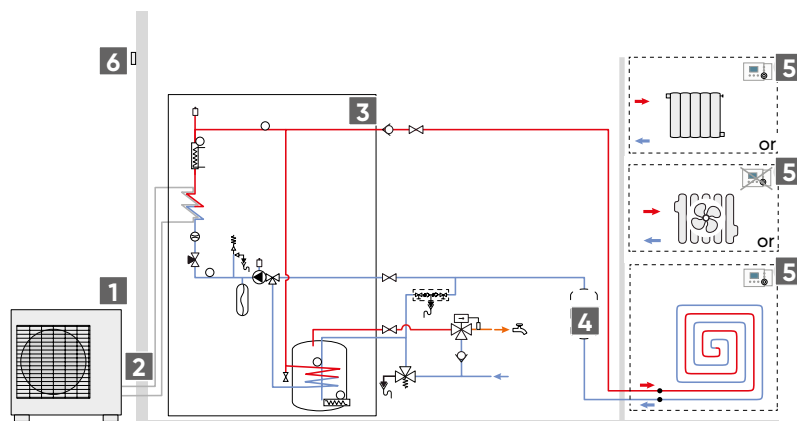
Indoor hydraulic module



INSTALLATION SCHEMATICS

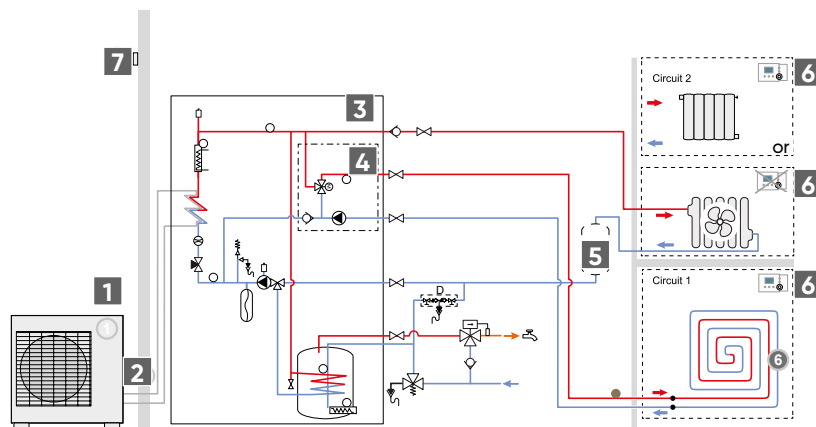
LORIA DUO: 1 HEATING ZONE

- 1** Outdoor unit and ground support*
- 2** Refrigerant connections*
- 3** Hydraulic module with integrated DHW
- 4** Buffer tank**
- 5** Room controller (optional, except for fan coil)
- 6** Outdoor sensor



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

- 1** Outdoor unit and ground support*
- 2** Refrigerant connections*
- 3** Hydraulic module with integrated DHW
- 4** 2 zones kit*
- 5** Buffer tank**
- 6** Room controller (optional, except for fan coil)
- 7** Outdoor sensor



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

Loria range accessories

MODULATING ROOM CONTROLLER NAVILINK 105



+ PRODUCT

- Large modern interface
- Simplified programming through integrated assistance
- DHW control
- Quick access to all useful information: energy consumption, active mode, ambient and outdoor temperature
- Made in France

DESCRIPTION

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

MAGNETIC MUD FILTER (FOR LORIA)



+ PRODUCT

- Capture impurities in the heating circuit

DESCRIPTION

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

DOMESTIC HOT WATER TANK MILEO / MILEO+



+ PRODUCT

- DHW kit allowing quick connection between DHW tank and heat pump
- 2 ranges:
 - High-performance coil for air-to-water and ground source heat pumps (Mileo)
 - Extra-high performance coil for air-to-water and ground source heat pumps (Mileo+)

DESCRIPTION

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

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

DESCRIPTION

- 2 zones kit to control two hydraulic zones independently

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)

ASSEMBLY SUPPORT



+ 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

+ BENEFITS

- Outdoor unit invisible from the outside
- Performant mechanical separation to avoid transfer of vibrations
- Condensate 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 Loria up to 8 kW
- For spaces without thermal 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 on the wall
- Box: Complete cover of the outdoor unit (supplied assembled)

AVAILABLE OPTIONS

Grid

- Anti-corrosive protection
- No 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



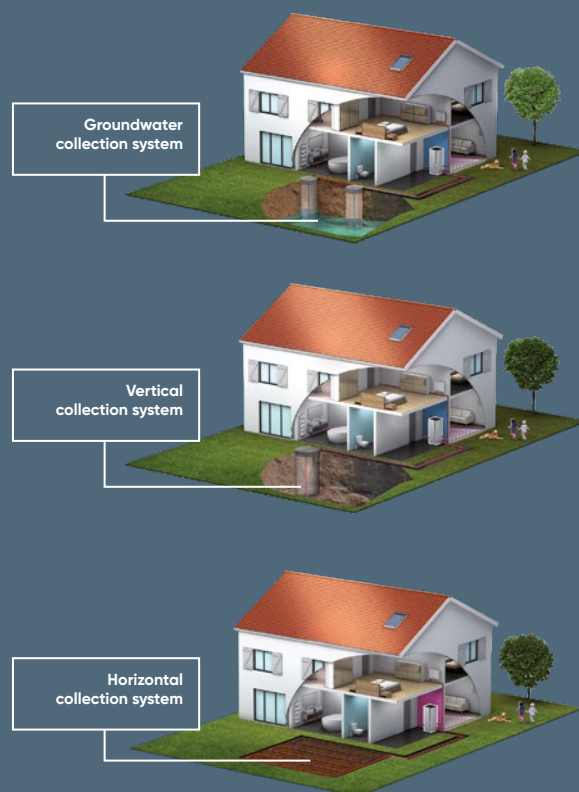
Ground source heat pumps

With Atlantic Geolia, use the energy of the earth for your everyday comfort!

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 flow temperature and an efficiency up to 233%.

* Depending on models and type of collectors

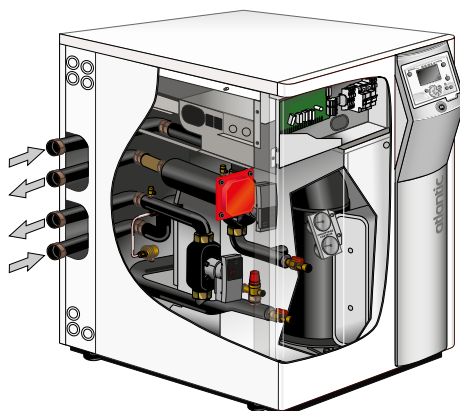


ATLANTIC GEOLIA

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.

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



Heating only



DHW tank (Mileo+ only)

Atlantic Geolia

Ground source heat pump

Perfect solution for all geothermal projects



+ BENEFITS

- Compatible with all types of collectors (horizontal, vertical, groundwater)
- Seasonal energy efficiency up to A+++

DESCRIPTION

- Perfect solution for all geothermal projects
- 5 models: 5 to 17 kW
- Single-phase or three-phase models
- Heating only

- Intuitive control and simplified use with NAVISTEM 200S control system

AVAILABLE OPTIONS

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

Practical trainings

that will help you save time and be more efficient.

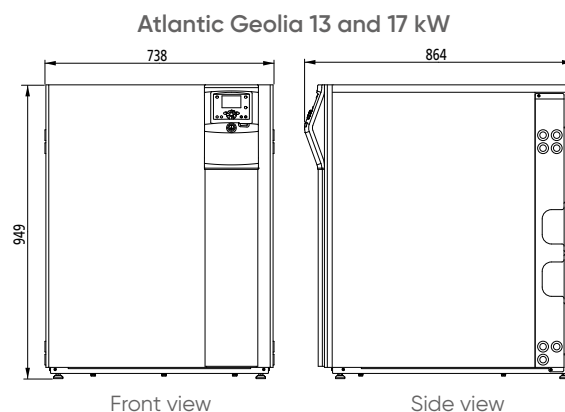
Tailor-Made Training Programs

TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ATLANTIC GEOLIA 5	ATLANTIC GEOLIA 7	ATLANTIC GEOLIA 10	ATLANTIC GEOLIA 13	ATLANTIC GEOLIA 17
REFRIGERANT		R410A	R410A	R410A	R410A	R410A
R410A factory load	g	900	950	1450	1700	2300
Amount of fluid expressed in CO ₂ equivalent	t	2	2	3	4	5
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
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 steps of 1.5 kW)	4,5 (3 steps of 1.5 kW)	4,5 (3 steps of 1.5 kW)	4,5 (3 steps of 1.5 kW)	4,5 (3 steps of 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
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.

INSTALLATION DIMENSIONS (mm)

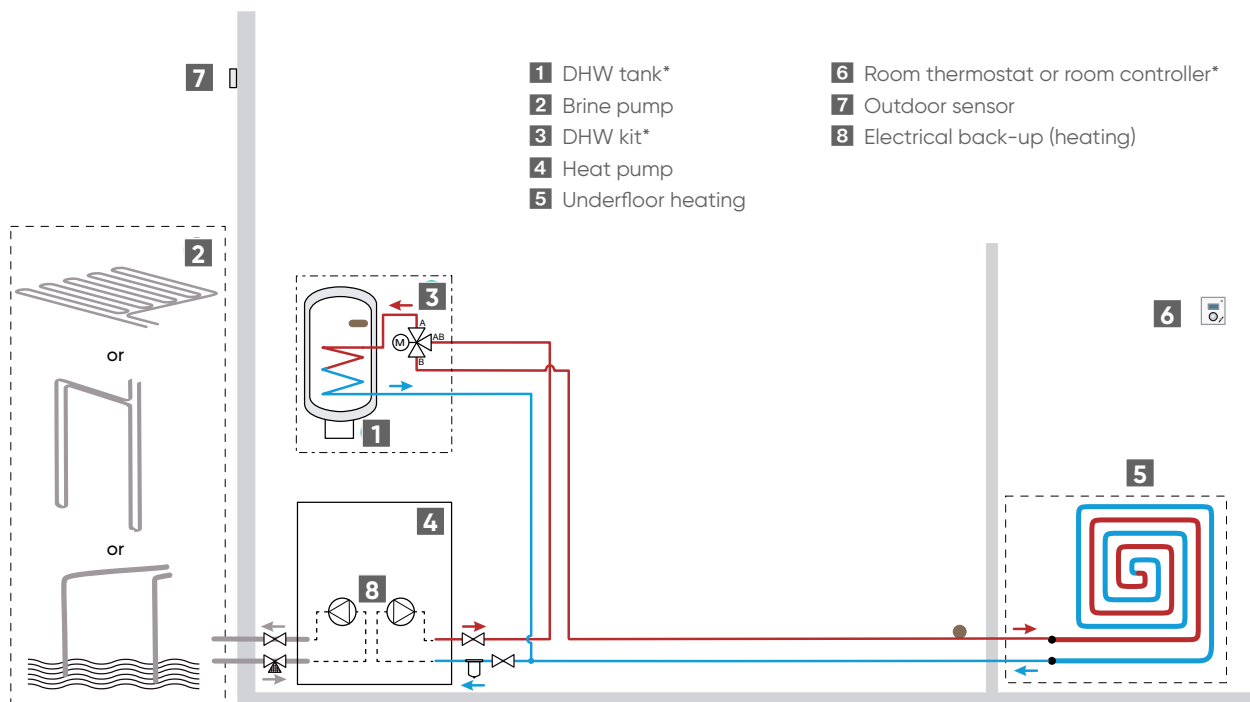


*Depending on models

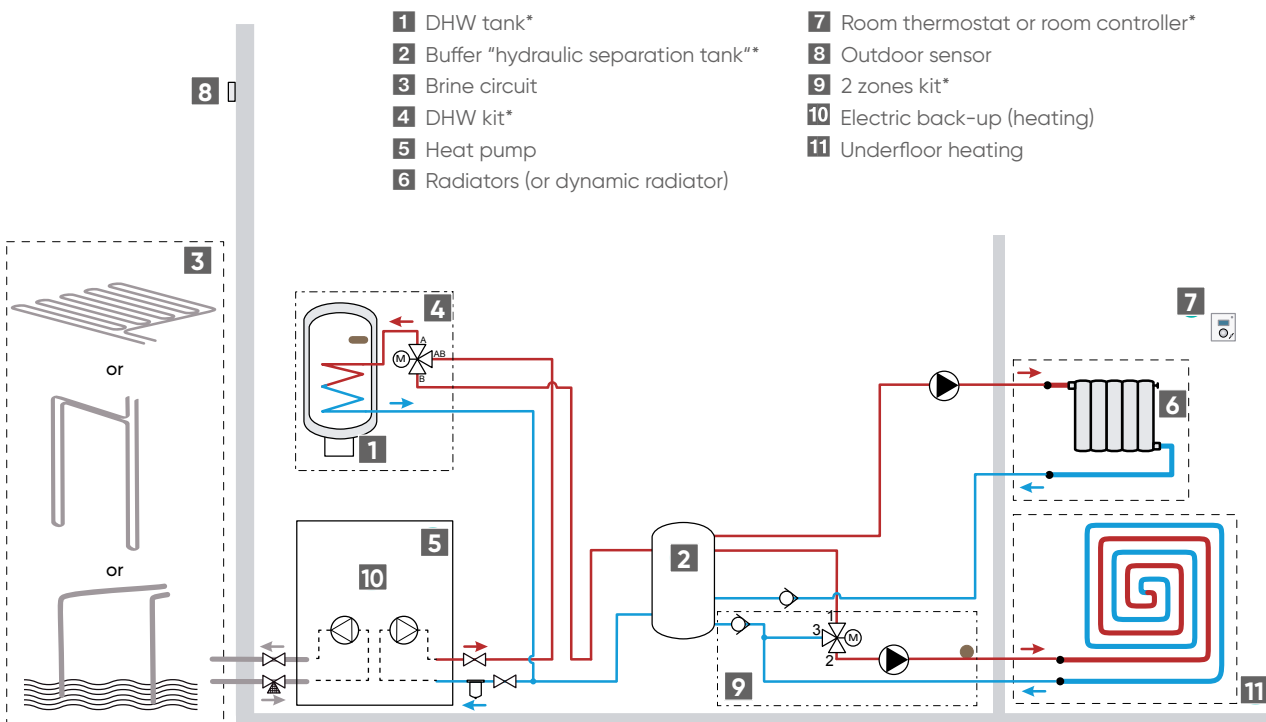
Atlantic Geolia

INSTALLATION SCHEMATICS

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

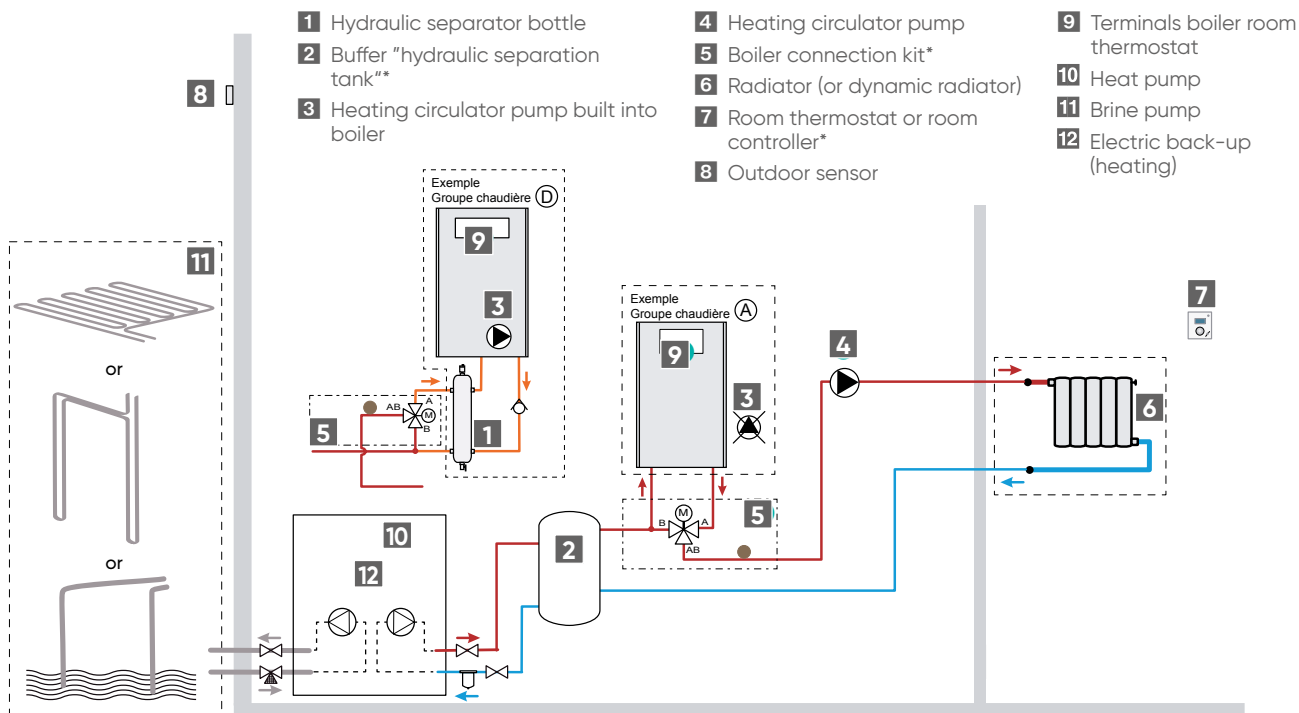


ATLANTIC GEOLIA: 2 ZONES + DHW TANK

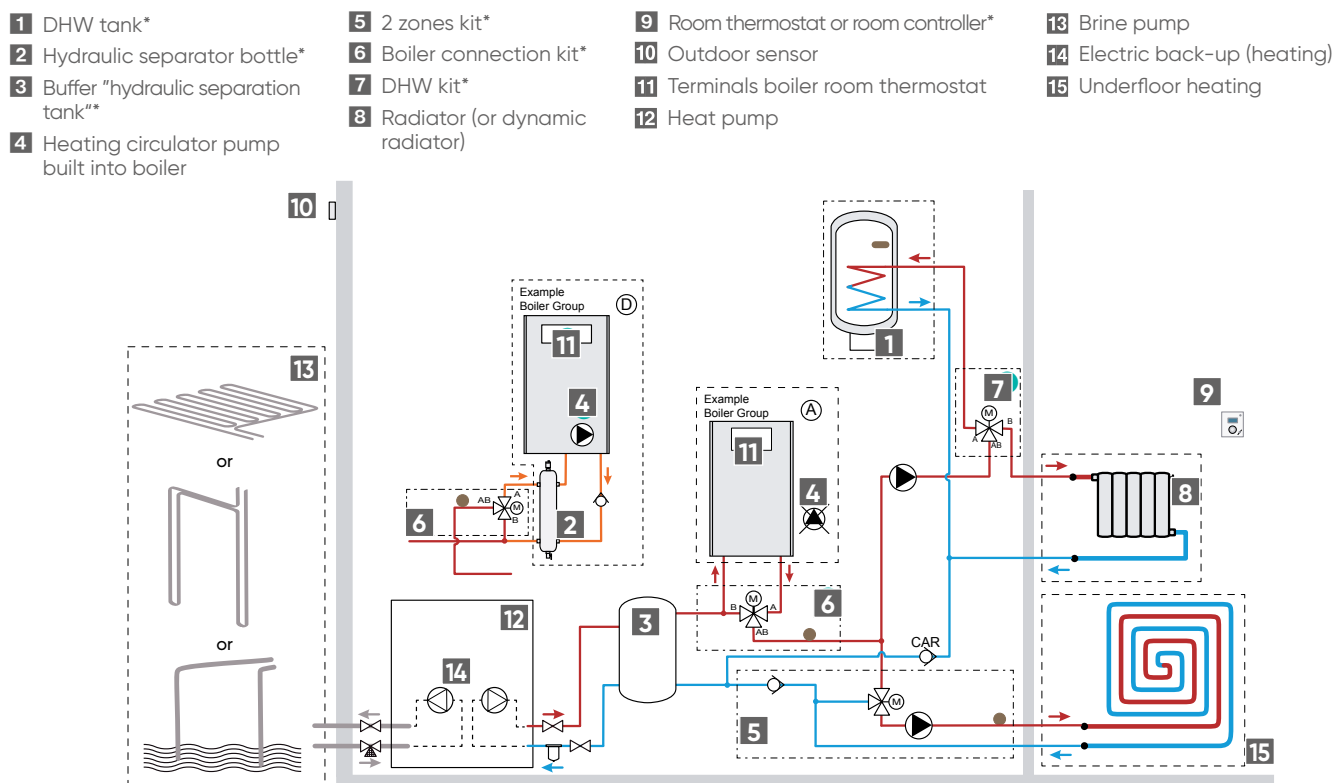


*Optional

ATLANTIC GEOLIA: 1 ZONE + BOILER CONNECTION



ATLANTIC GEOLIA: 2 ZONES + DHW TANK + BOILER CONNECTION



*Optional

Panama Access

Fan coil for heating and cooling
Thermal comfort solution in all seasons!



+ BENEFITS

- Innovative solution for domestic thermal comfort on hydraulic circuit
- Heating and cooling functions if connected to reversible heat pump

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

- Electronic thermostat for more energy savings
- 5 functions: Comfort/Eco Quiet/Heating/Cooling/Off

- Electric heating film in the front panel
- Integrated thermostat

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

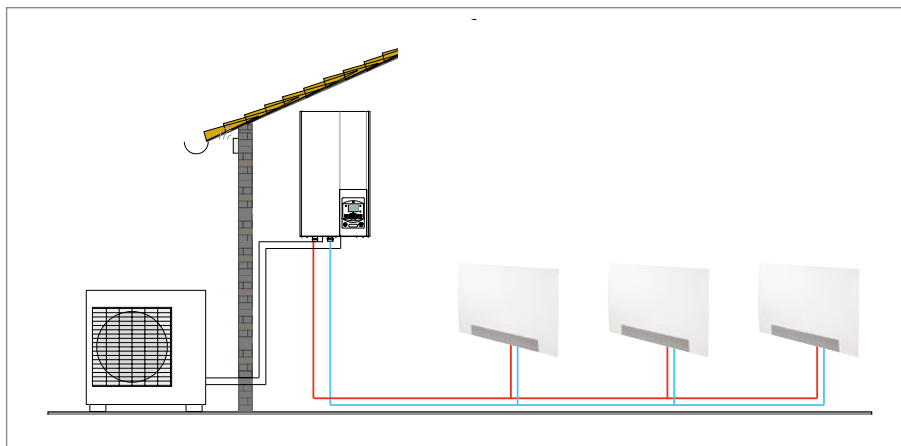
TECHNICAL CHARACTERISTICS

TECHNICAL DATA	FAN SPEED	PANAMA ACCESS 350		PANAMA ACCESS 500		PANAMA ACCESS 1000	
		QUIET	MAXI	QUIET	MAXI	QUIET	MAXI
Power supply voltage	V/Ph/Hz	230/1/50		230/1/50		230/1/50	
Electrical insulation class		II		II		II	
Hydraulic connection		2 male connections 1/2"		2 male connections 1/2"		2 male connections 1/2"	
Water capacity	l	0.5		0.5		0.8	
Condensates connection		Inner diameter of 16 mm		Inner diameter of 16 mm		Inner diameter of 16 mm	
55°C/45°C							
Total power	W	690	950	1020	1400	2010	2780
Air intake temperature	°C	20		20		20	
Water flow rate	l/h	120		120		240	
Load loss on water	kPa	5.0		5.0		13.3	
45°C/40°C							
Total power	W	470	650	700	954	1300	1905
Air intake temperature	°C	20		20		20	
Water flow rate	l/h	166		166		331	
Load loss on water	kPa	7.4		7.4		24.4	
35°C/30°C							
Total power	W	255	350	370	507	700	1025
Air intake temperature	°C	20		20		20	
Water flow rate	l/h	88		88		178	
Load loss on water	kPa	4.1		4.1		10.4	
7°C/12°C							
Total power	W	320	530	480	780	703	1520
Sensitive capacity	W	260	430	400	640	550	1220
Air intake temperature	°C/%	27/50%		27/50%		27/50%	
Water flow rate	l/h	136		136		264	
Load loss on water	kPa	6.0		6.0		17.2	
ELECTRICAL CHARACTERISTICS							
Fan consumption (Vmin/ Vinter/Vmax)	W	3.2/5.4/10.2		3.2/5.4/10.2		4.2/9/17.2	
On-board auxiliary ⁽¹⁾	W	120		190		290	
ACOUSTIC CHARACTERISTICS							
Power	dB(A)	37	42	37	42	37	43
Pressure ⁽²⁾	dB(A)	23	29	23	29	23	31
AIR SYSTEM							
Air flow rate	m³/h	150		150		290	
PHYSICAL CHARACTERISTICS							
Height	mm	680		680		680	
Width	mm	635		635		920	
Depth	mm	164		164		164	
Installation height	mm	150		150		150	
Net weight/package weight	Kg	13.5/14.5		13.5/14.5		18.5/19.5	

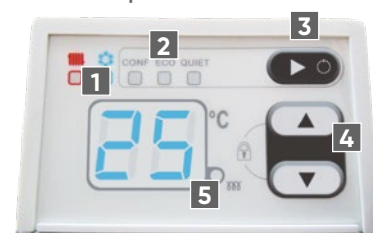
(1) Heating panel electric power

(2) Acoustic pressure measured at 1.5 meters from the product

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

Notes

[illegible]



WORLD LEADING BRAND OF INDOOR THERMAL COMFORT



www.atlantic-comfort.com



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LOCAL DEALER