

## Heat pumps & renewable energy solutions

2022



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

• FRENCH BRAND • RECOMMENDED BY PROFESSIONALS • CONNECTED SOLUTIONS

# Worldwide expert in thermal comfort solutions



## atlantic

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

To this end, Atlantic has succeeded in improving and completing its water heating solutions to comply with new European environmental standards, and offers a coherent **range of water heaters**. 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.

## Atlantic products portfolio

The most extensive range to benefit customers

COMMERCIAL  
CALORIFIERS



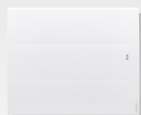
DOMESTIC  
HOT WATER



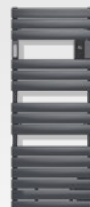
HEAT PUMPS



ELECTRIC  
HEATING



BATHROOM  
HEATING



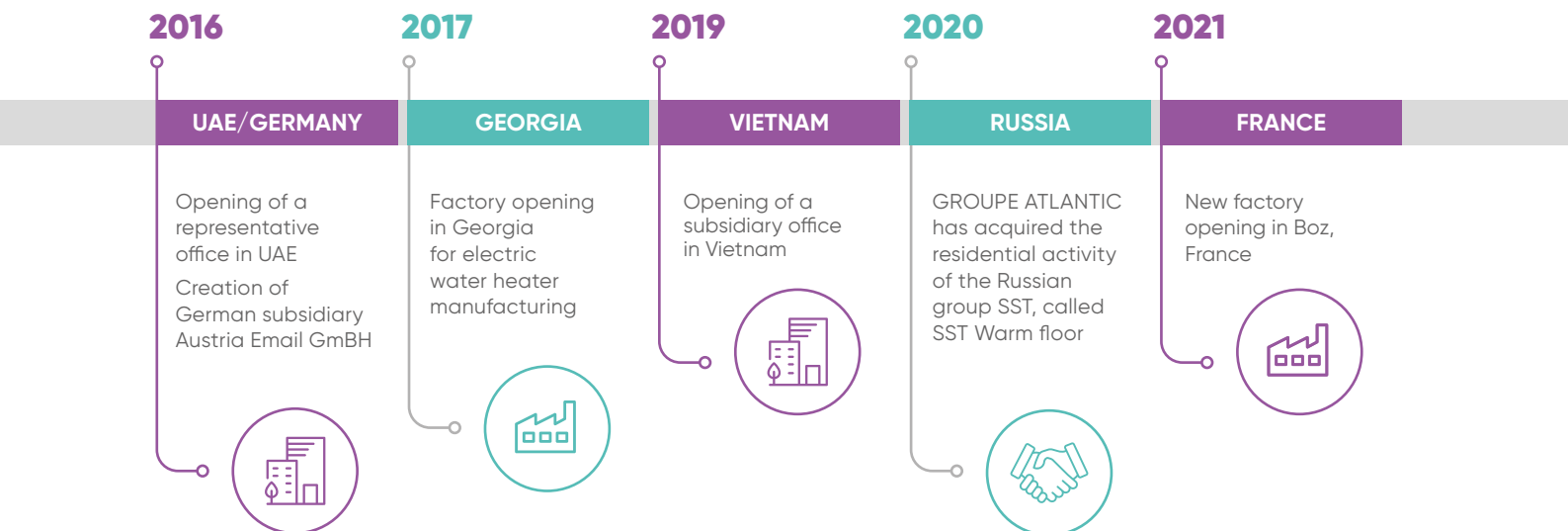
VENTILATION



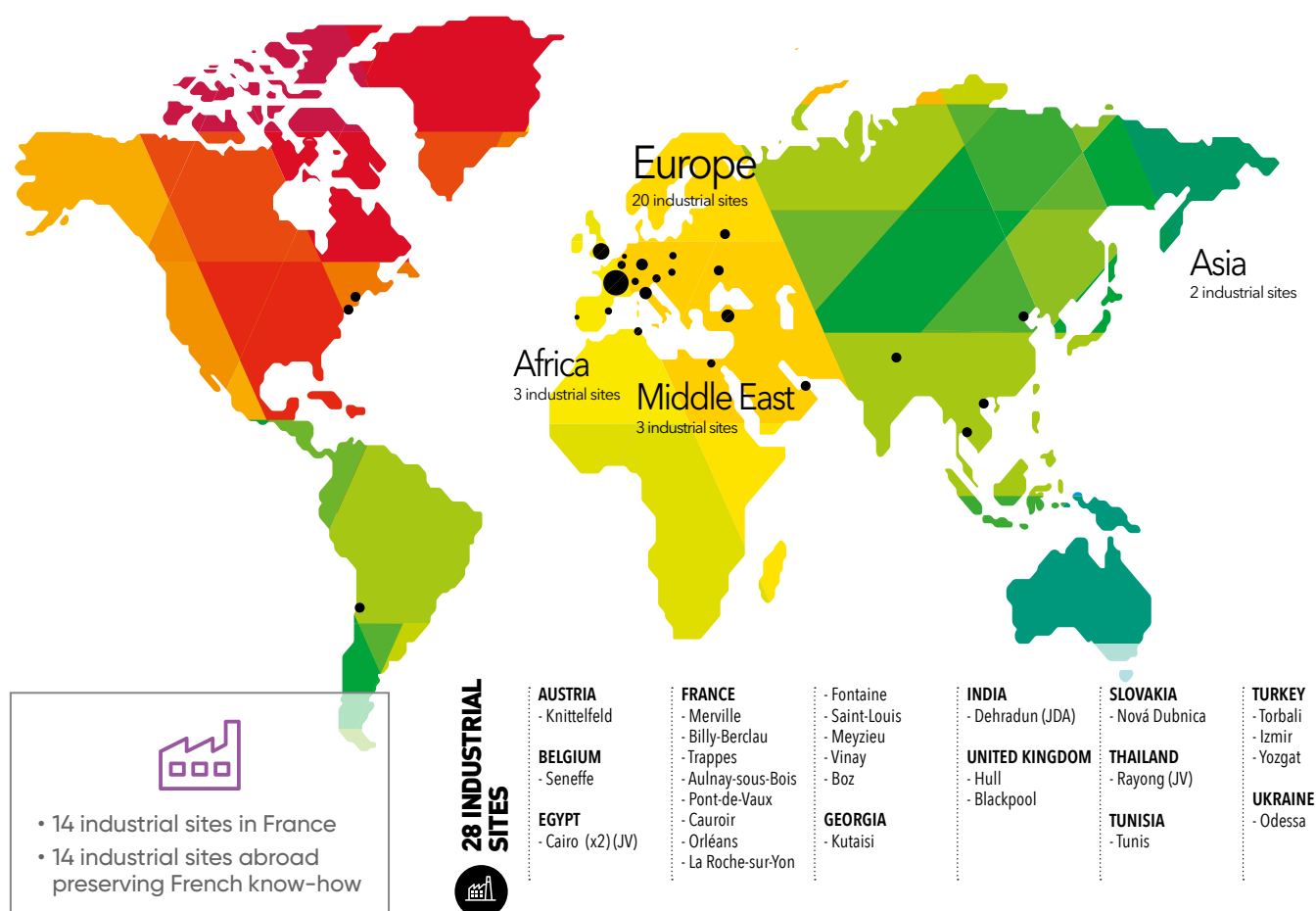
DOMESTIC &  
COMMERCIAL GAS  
CONDENSING  
BOILERS



## Latest key facts



## Groupe Atlantic factories around the world





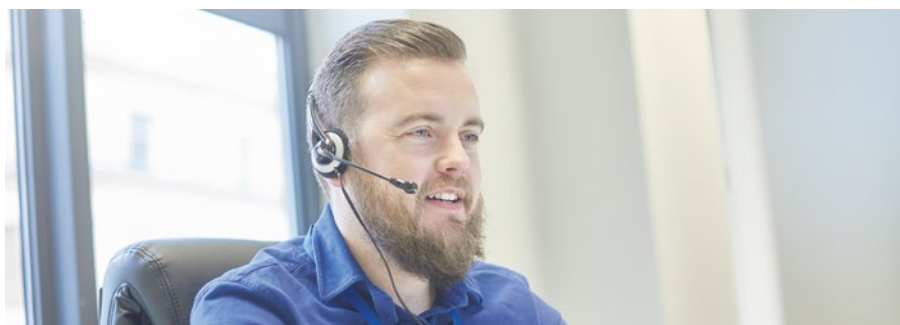
# Discover our services and training sessions

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



## PRACTICAL TRAINING

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



## 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)

### 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.



#### 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](mailto:support-hpb@groupe-atlantic.com)

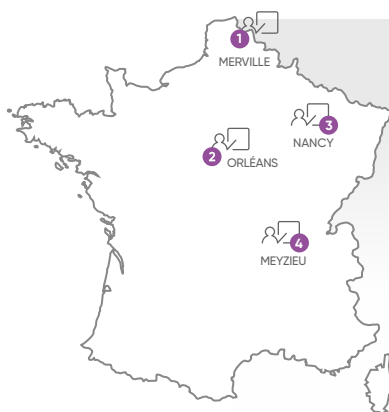


#### Warranty expertise

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](mailto:spareparts-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?



[spareparts-hpb@groupe-atlantic.com](mailto:spareparts-hpb@groupe-atlantic.com)





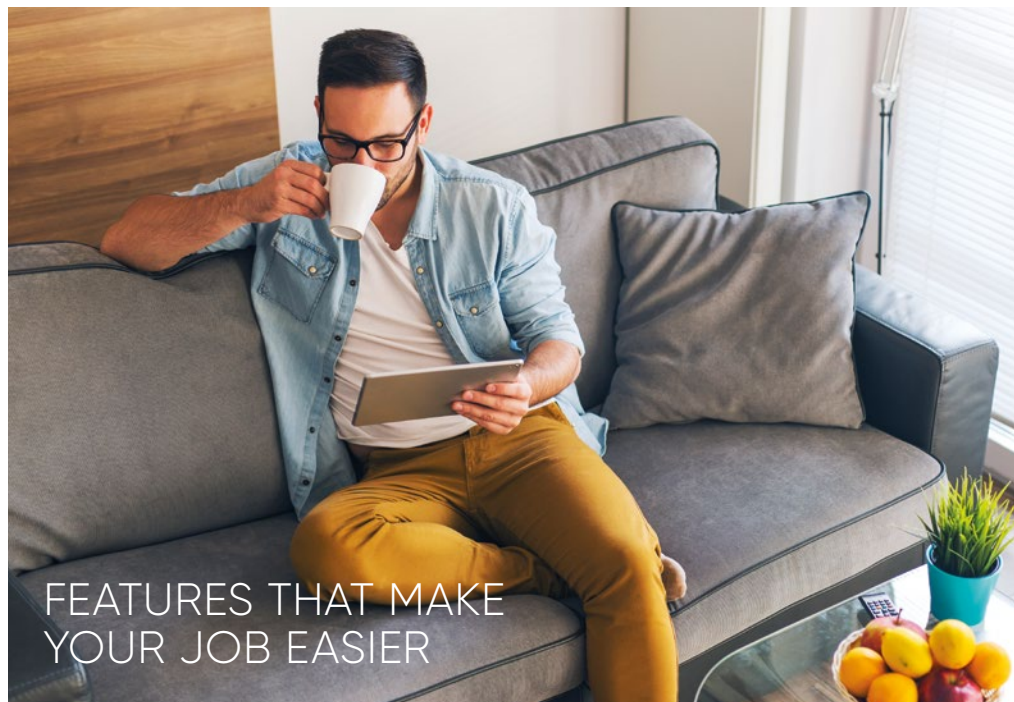
PROJI-PAC

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.



FEATURES THAT MAKE  
YOUR JOB EASIER

**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/](http://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](mailto:support-hpb@groupe-atlantic.com)



## 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

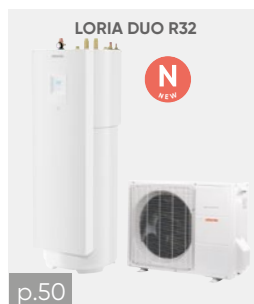
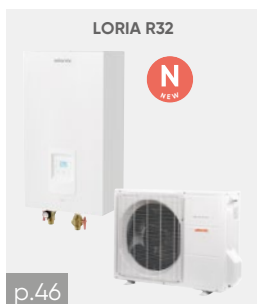
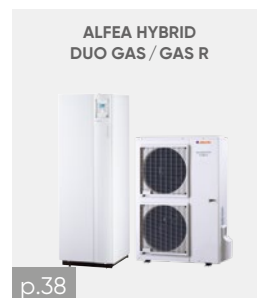
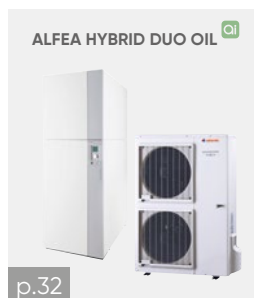
- **PAC 6-21** : Heat pump sizing calculation and Projipac 4
- **PAC 6-13** : Heat pump installation & commissioning
- **PAC 6-15** : Heat pump test & breakdowns

# Contents



## Air-to-water heat pumps

- Alfea range presentation ..... p.11
- Alfea range accessories ..... p.42
- Loria range presentation ..... p.45
- Loria range accessories ..... p.54
- Wall-In ..... p.56



## Ground source heat pumps

- Atlantic Geolia range presentation ..... p.58



















































## 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 
						
						
3 kW						
4 kW						
5 kW						
6 kW						
7/8/9 kW						
10-11 kW			 		 	
13-14 kW			 		 	
15 kW						
16-17 kW				 		 
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 R32 	Loria Duo R32 	Atlantic Geolia
					
					
3 kW					
4 kW					
5 kW					
6 kW	 *				
7/8/9 kW	 *				
10-11 kW	 	 			
13-14 kW	 	 			
15 kW					
16-17 kW					
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		 Cozytouch	 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 CO<sub>2</sub> 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

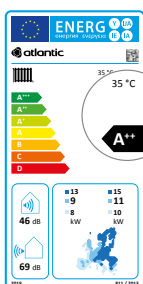
### ECODESIGN DIRECTIVE

**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

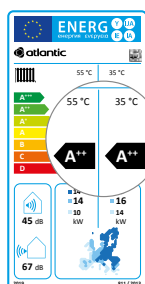
Well known to the end-user of white goods, energy efficiency labels (product labels) became mandatory for heating and water heating products, within the European Union market, since September 2015. These products must have energy efficiency labels to inform end-users about their real performance (energy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

Since September 26<sup>th</sup>, 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<sup>++</sup>** and **A<sup>+++</sup>**), 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<sup>+</sup>**, **A<sup>++</sup>** and **A<sup>+++</sup>** classes indicate products with the highest performances.

Supplier's name or trademark →

Product's function (heating only, or heating and water heating) →

Energy efficiency indicators (from A+++ to D) →

Indoor acoustic pressure →

Outdoor acoustic pressure →

Product's name or reference →

Product's energy class (A+ for Alfea Excellia A.I. 35° and A+ for Alfea Excellia A.I. 55°) →

*\*Example of product label with Atlantic's Alfea 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](http://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.

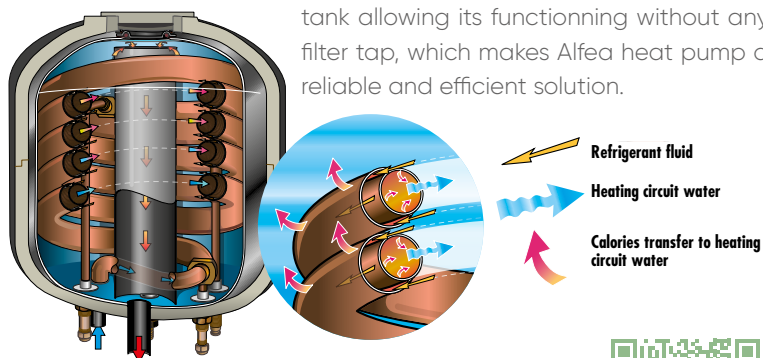


## ATLANTIC TECHNOLOGIES



### 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

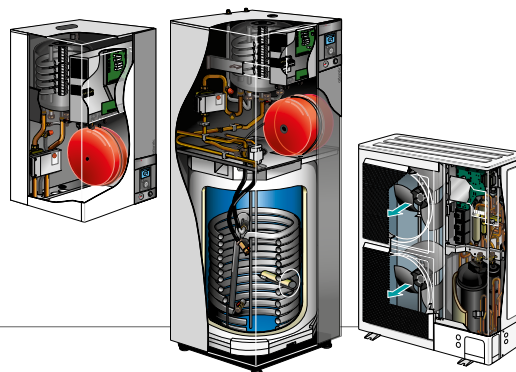
Average temperature solution for all projects



## 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++

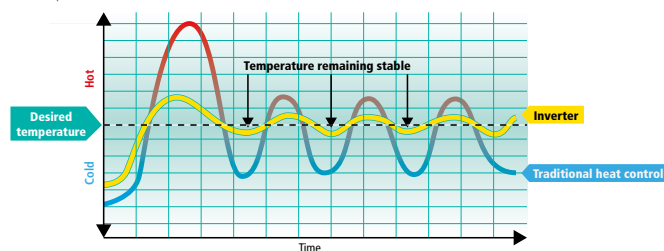
## Adaptability

- 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



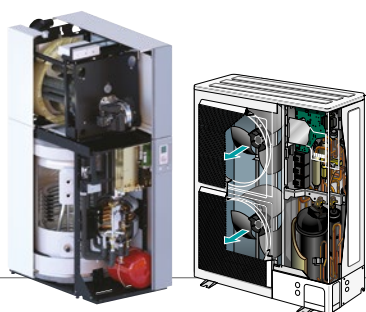
in selected countries

## 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.

The Alfea Extensa A.I. R32 is covering a wide output range, from 3 to 10 kW for all your new building projects.



### 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 <sub>2</sub> )	R410A	R134A	R32	R290 (propane)
GWP (kg CO <sub>2</sub> 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.**

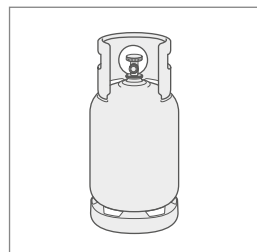
It offers several advantages:

- 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

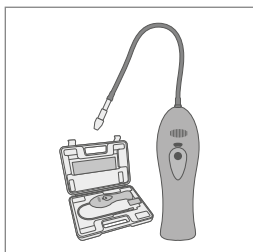
### Shifting to R32

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

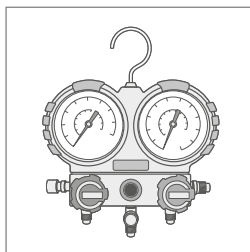
In addition to the usual tools (pipe cutter, flaring tool, vacuum pump, etc.), additional equipment is required:



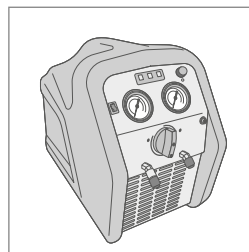
Specific recovery cylinder



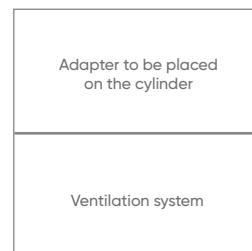
Leak detector suitable for flammable coolants



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





# Alfea Extensa R32 range

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



Outdoor unit  
specially developed  
to work with the R32



# Alfea Extensa <sup>ai</sup> R32

Split air-to-water heat pump for improved performances

Average temperature solution for all projects



Remote piloting



## 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



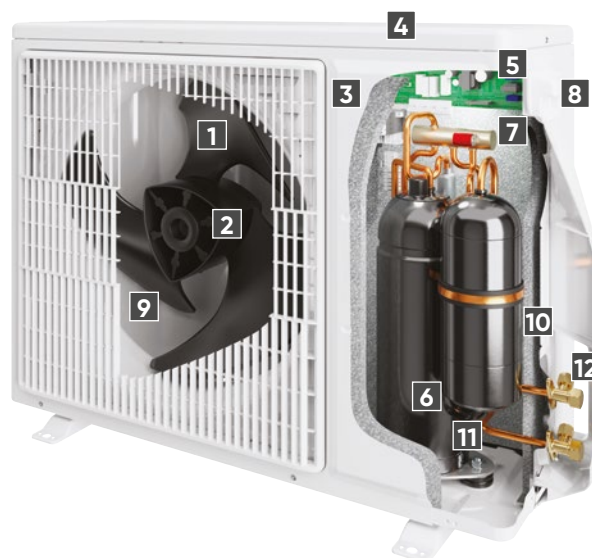
## INDOOR HYDRAULIC MODULE



- 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

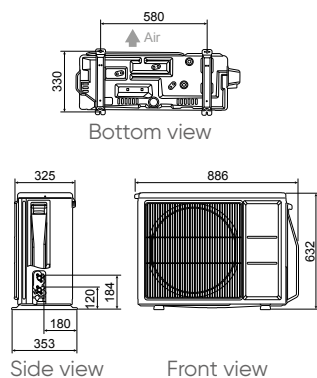
E.P.

	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
<b>REFRIGERANT</b>		R32	R32	R32	R32
<b>ENERGY EFFICIENCY &amp; ACOUSTIC CHARACTERISTICS</b>					
<b>Energy class - Heating (35°C/55°C)</b>	-	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Rated heat power (35°C/55°C)	kW	5/5	6/5	7/6	9/8
Annual energy consumption - Heating (35°C/55°C)	kWh	2322 / 3035	2594 / 3411	2982 / 3903	3 875 / 5 083
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	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) <sup>(1)</sup>	dB(A)	40 / 57	40 / 57	40 / 60	42 / 62
<b>MAIN CHARACTERISTICS</b>					
<b>SCOP 35 °C / 55 °C</b>	-	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	2.45
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
<b>INDOOR HYDRAULIC MODULE</b>					
Noise level <sup>(2)</sup>	dB(A)	32	32	32	34
Net weight/filled weight <sup>(3)</sup>	kg	45 / ask for this information	45 / ask for this information	45 / ask for this information	45 / ask for this information
Power supply	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
<b>OUTDOOR UNIT</b>					
Noise level <sup>(4)</sup>	dB(A)	35	35	38	40
Operating weight	kg	39	39	42	62
<b>REFRIGERANT CHARACTERISTICS</b>					
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 <sub>2</sub> equivalent	t	0.65	0.65	0.69	1.10

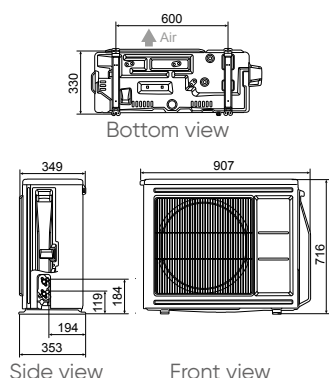
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

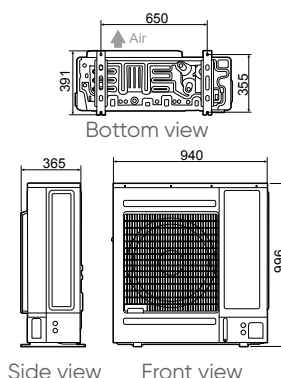
Outdoor Inverter unit  
Alfea Extensa A.I. R32 5 and 6



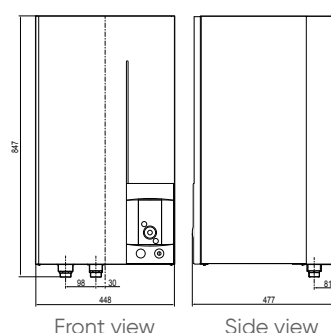
Outdoor Inverter unit  
Alfea Extensa A.I. R32 8



Outdoor Inverter unit  
Alfea Extensa A.I. R32 10



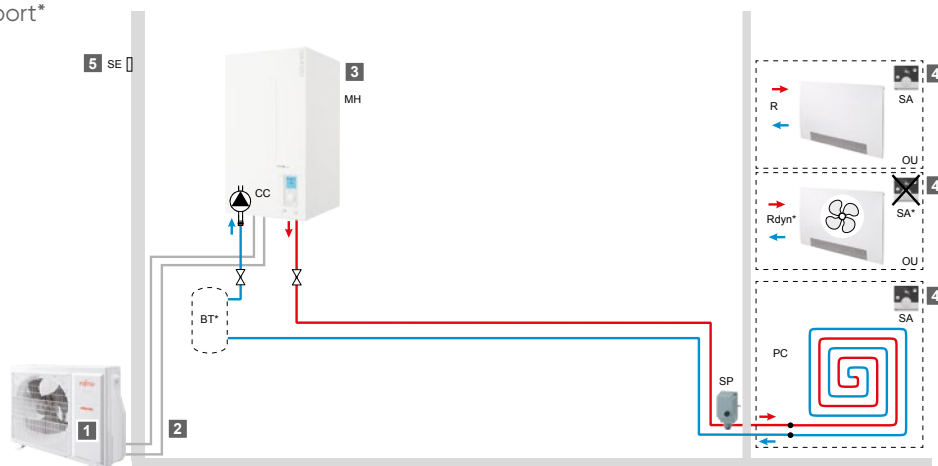
Indoor hydraulic  
module



# INSTALLATION SCHEMATICS

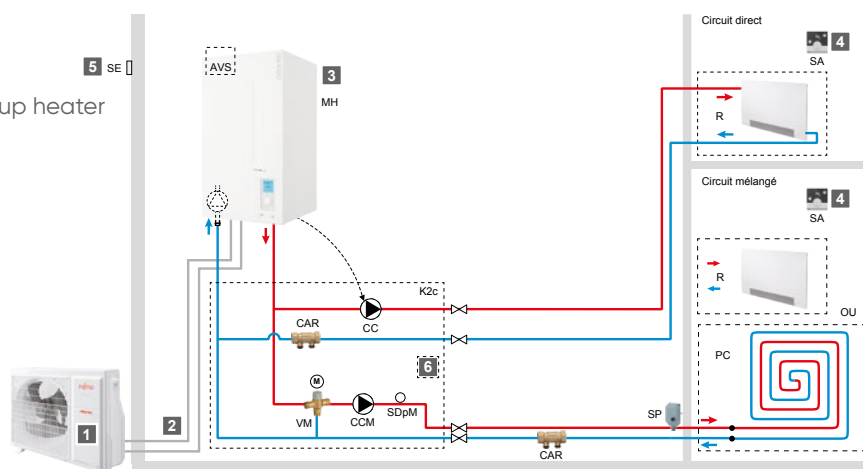
## ALFEA EXTENSA A.I. R32: 1 HEATING ZONE

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



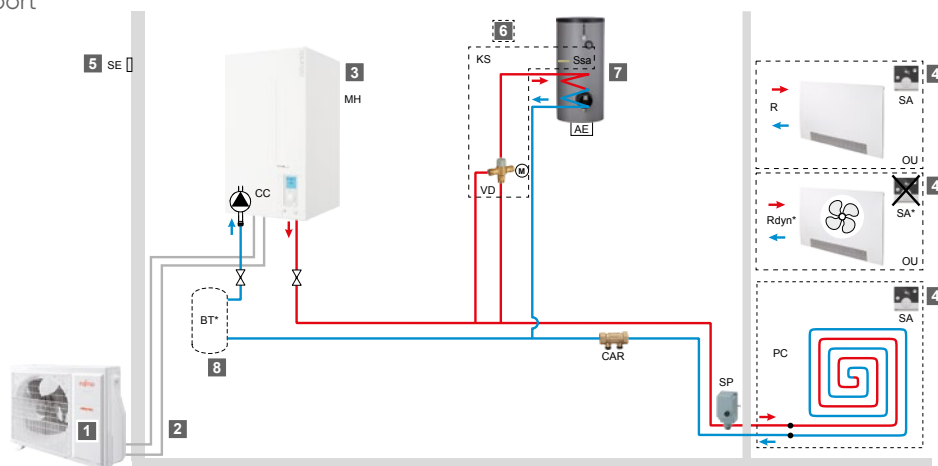
## ALFEA EXTENSA A.I. R32: 2 HEATING ZONES

- 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<sup>®</sup>

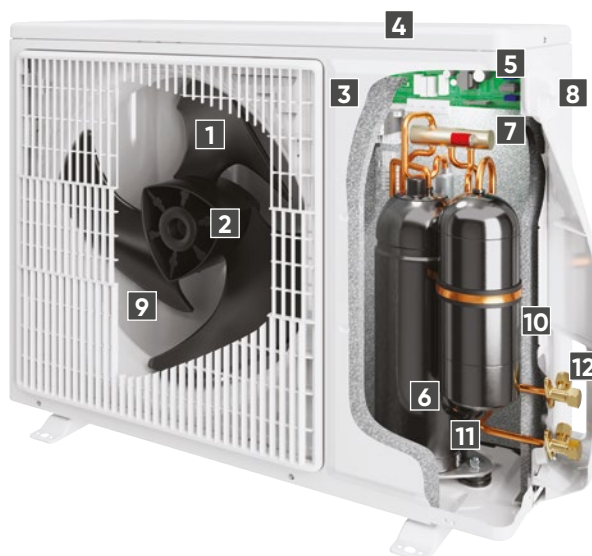
## INDOOR HYDRAULIC MODULE



- 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



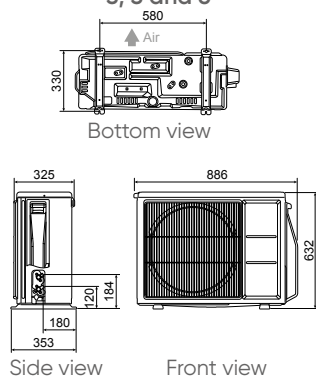
## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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
<b>REFRIGERANT</b>		R32	R32	R32	R32	R32
<b>ENERGY EFFICIENCY &amp; ACOUSTIC CHARACTERISTICS</b>						
<b>Energy class - Heating (35°C/55°C)</b>	-	<b>A+++ / A+</b>	<b>A+++ / A++</b>	<b>A+++ / A++</b>	<b>A+++ / A++</b>	<b>A+++ / A++</b>
Rated heat power (35°C/55°C)	kW	4 / 4	5 / 5	6 / 5	7/6	9/8
Annual energy consumption - Heating (35°C/55°C)	kWh	2040 / 2715	2322 / 3035	2594 / 3411	2982 / 3903	3 875 / 5 083
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	<b>175 / 119</b>	<b>175 / 125</b>	<b>175 / 125</b>	<b>177 / 128</b>	<b>178 / 130</b>
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	177 / 121	177 / 127	177 / 127	179 / 130	180 / 132
Sound power level (indoor/outdoor) <sup>(1)</sup>	dB(A)	40 / 57	40 / 57	40 / 57	40 / 60	42 / 62
Declared load profile - DHW	-	L	L	L	L	L
<b>Energy class - DHW</b>	-	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>
Annual energy consumption - DHW	kWh	793	793	793	793	793
<b>Seasonal energy efficiency (%) - DHW</b>	%	<b>130</b>	<b>130</b>	<b>130</b>	<b>130</b>	<b>130</b>
<b>MAIN CHARACTERISTICS</b>						
<b>SCOP 35 °C / 55 °C</b>	-	<b>4,46 / 3,04</b>	<b>4.45 / 3.20</b>	<b>4.46 / 3.21</b>	<b>4.5 / 3.28</b>	<b>4.53 / 3.33</b>
Heating capacity +7°C/+35°C – Underfloor Heating	kW	3.35	4.50	5.50	7.50	9.50
COP +7°C/+35°C – Underfloor Heating		4.89	4.74	4.65	4.43	4.50
Heating capacity -7°C/+35°C – Underfloor Heating	kW	3.81	4.40	5.00	5.70	8.90
COP -7°C/+35°C – Underfloor Heating		3.05	2.76	2.63	2.68	2.65
Heating capacity +7°C/+45°C – Low T° radiators	kW	3.50	4.50	5.50	7.25	9.25
COP +7°C/+45°C – Low T° radiators		4.02	3.39	3.39	3.35	3.40
Heating capacity -7°C/+45°C – Low T° radiators	kW	3.63	4.28	4.82	5.58	8.61
COP -7°C/+45°C – Low T° radiator		2.19	2.26	2.21	2.17	2.27
Heating capacity +7°C/+55°C – Radiators	kW	3.70	4.50	5.50	7.00	9.00
COP +7°C/+55°C – Radiators		2.63	2.64	2.67	2.66	2.70
Heating capacity -7°C/+55°C – Radiators	kW	3.33	3.90	4.25	5.30	8.00
COP -7°C/+55°C – Radiators		1.72	1.85	1.89	1.90	1.95
Additional electric back-up heater	kW	3 / 6	3 / 6	3 / 6	3 / 6	3 / 6
<b>INDOOR HYDRAULIC MODULE</b>						
Noise level <sup>(2)</sup>	dB(A)	32	32	32	32	34
Net weight/filled weight <sup>(3)</sup>	kg	145 / 359	145 / 359	145 / 359	145 / 359	145 / 359
Power supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
<b>OUTDOOR UNIT</b>						
Noise level <sup>(4)</sup>	dB(A)	35	35	35	38	40
Operating weight	kg	39	39	39	42	62
<b>REFRIGERANT CHARACTERISTICS</b>						
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 <sub>2</sub> equivalent	t	0.65	0.65	0.65	0.69	1.10

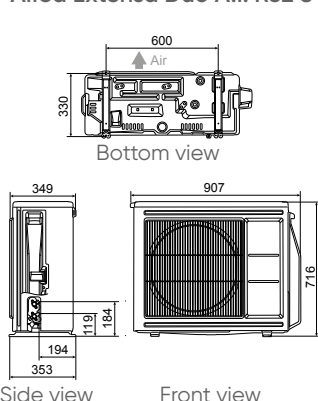
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

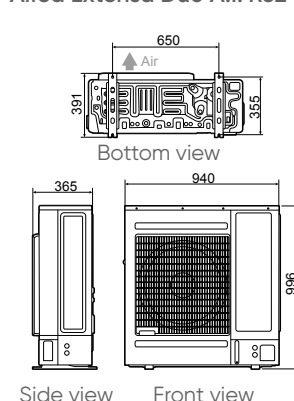
Outdoor Inverter unit  
Alfea Extensa Duo A.I. R32  
3, 5 and 6



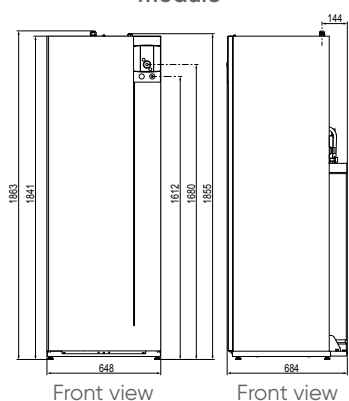
Outdoor Inverter unit  
Alfea Extensa Duo A.I. R32 8



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



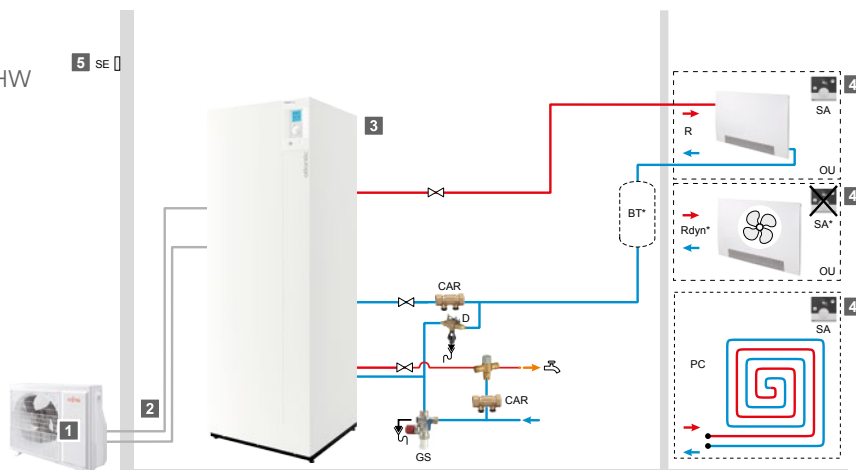
Indoor hydraulic  
module



# INSTALLATION SCHEMATICS

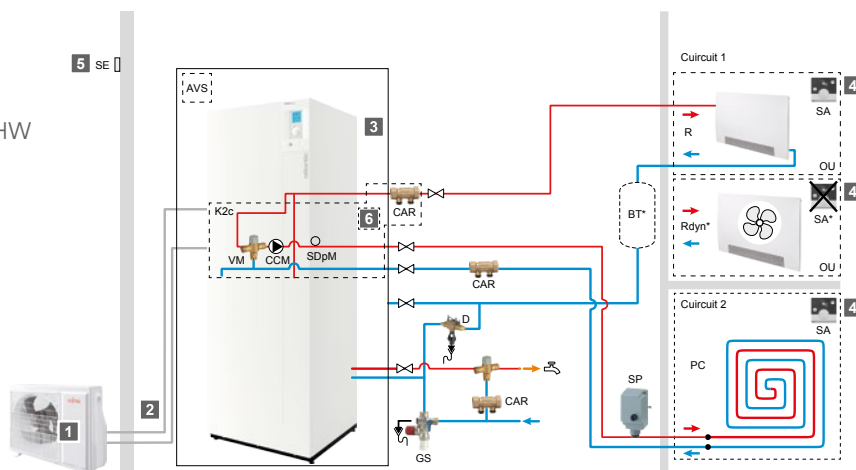
## ALFEA EXTENSA DUO A.I.R32: 1 HEATING ZONE

- 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

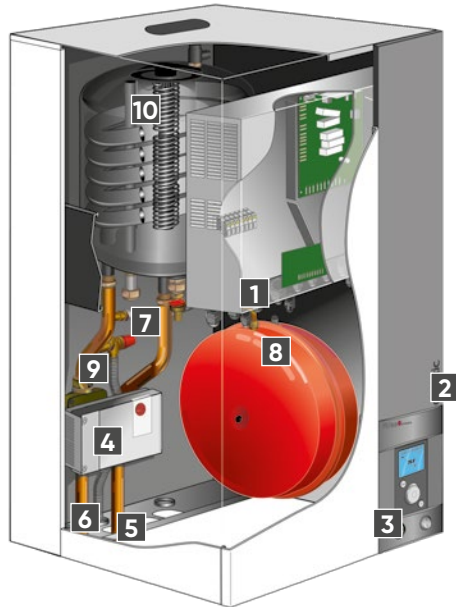


homecontrol™



PATENTED  
EXCHANGER

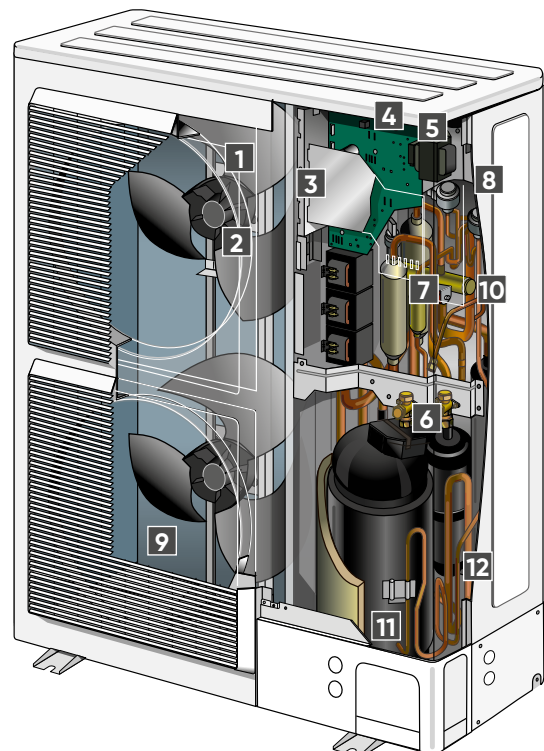
## INDOOR HYDRAULIC MODULE



- 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



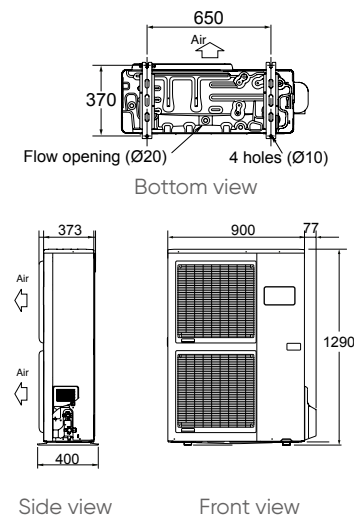
## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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
<b>Refrigerant</b>		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
<b>ENERGY EFFICIENCY &amp; ACOUSTIC CHARACTERISTICS</b>									
<b>Energy class - Heating (35°C/55°C)</b>	-	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
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	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) <sup>(1)</sup>	dB(A)	46 / 69	46 / 69	46 / 68	46 / 69	46 / 69	45 / 67	45 / 67	45 / 67
<b>MAIN CHARACTERISTICS</b>									
<b>SCOP 35 °C / 55 °C</b>	-	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
<b>INDOOR HYDRAULIC MODULE</b>									
Noise level <sup>(2)</sup>	dB(A)	39	39	39	39	39	37	37	37
Net weight/filled weight <sup>(3)</sup>	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
<b>OUTDOOR UNIT</b>									
Noise level <sup>(4)</sup>	dB (A)	47	47	46	47	47	45	45	45
Operating weight	kg	92	92	99	99	99	137	138	138
<b>REFRIGERANT CHARACTERISTICS</b>									
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 <sub>2</sub> equivalent	t	5	5	5	5	5	8	8	8

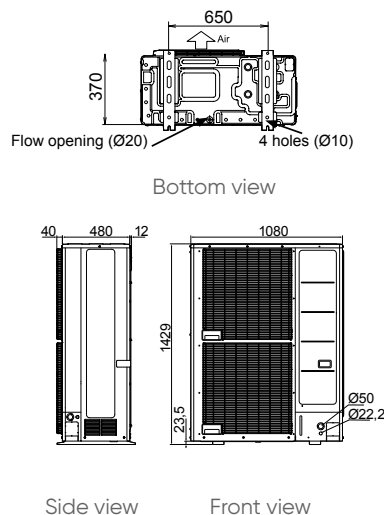
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

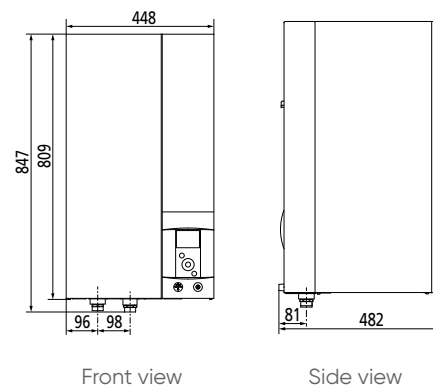
Outdoor Inverter unit Alfea Excellia A.I.  
11 and 14 single-phase, 11, 14  
and 16 three-phase



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



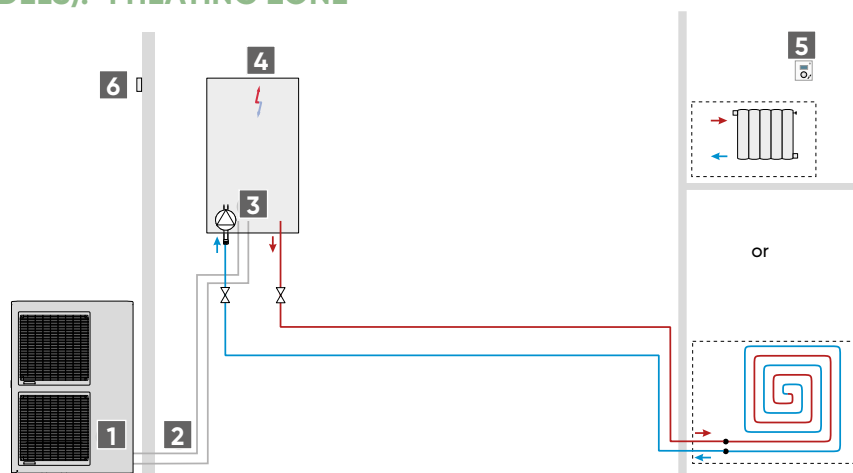
Indoor hydraulic  
module



# INSTALLATION SCHEMATICS

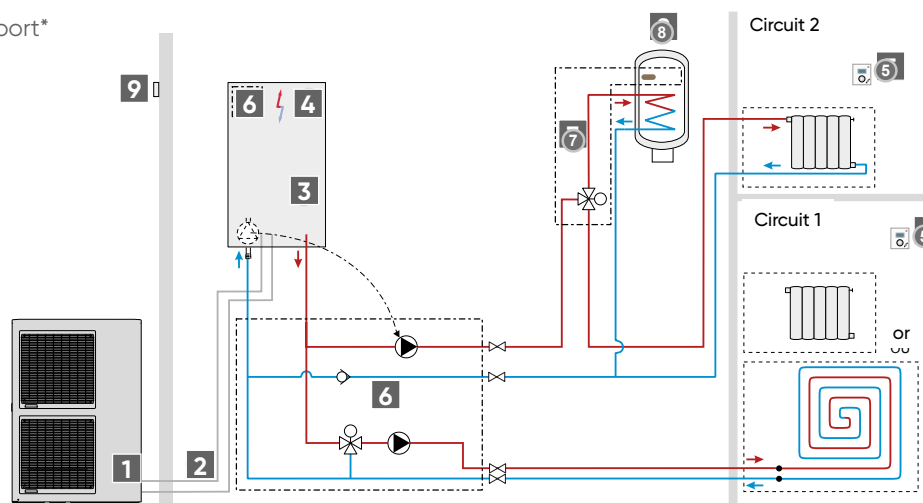
## ALFEA EXCELLIA A.I. (+ HP MODELS): 1 HEATING ZONE

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



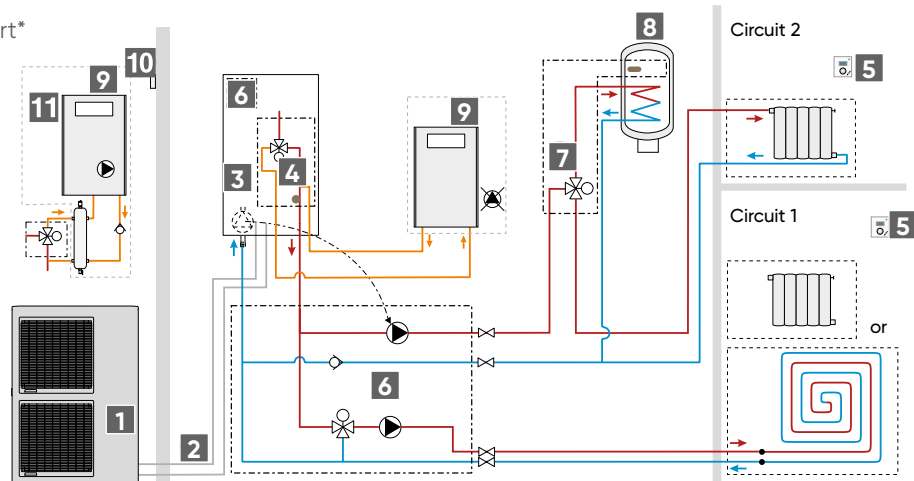
## ALFEA EXCELLIA A.I. (+ HP MODELS): 2 HEATING ZONES + DHW PRODUCTION

- 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

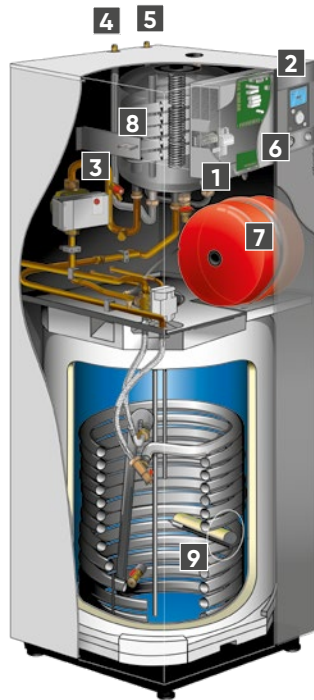


homecontrol®



PATENTED  
EXCHANGER

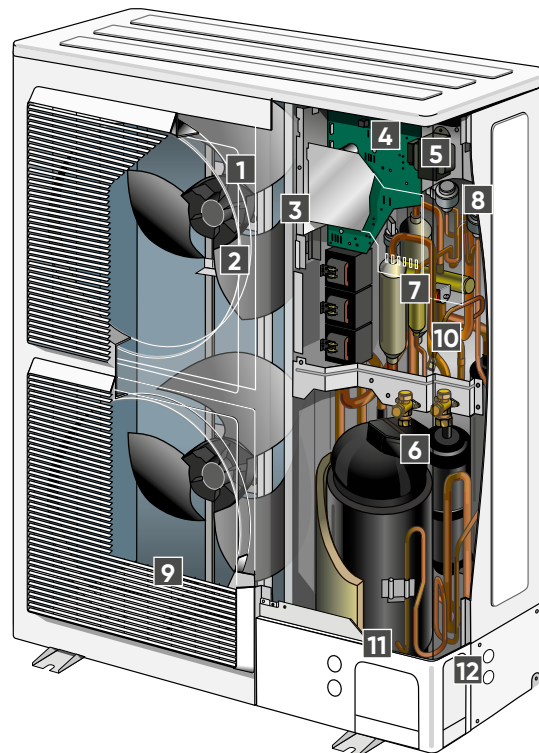
## INDOOR HYDRAULIC MODULE



- 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



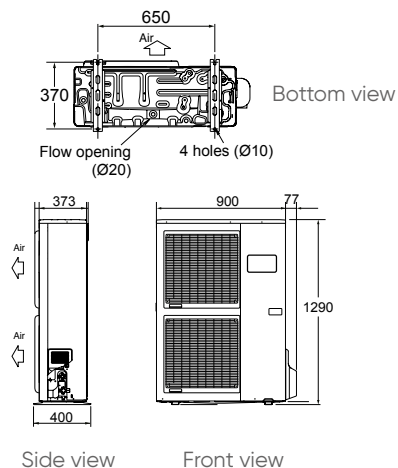
## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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
<b>REFRIGERANT</b>		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
<b>ENERGY EFFICIENCY &amp; ACOUSTIC CHARACTERISTICS</b>									
<b>Energy class - Heating (35°C/55°C)</b>	-	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
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	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) <sup>(1)</sup>	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
<b>Energy class - DHW</b>	-	A	A	A	A	A	A	A	A
Annual water heating energy consumption	kWh	1166	1166	1166	1166	1166	941	941	941
<b>Seasonal water heating energy efficiency (%)</b>	%	88	88	88	88	88	109	109	109
<b>MAIN CHARACTERISTICS</b>									
<b>SCOP 35 °C / 55 °C</b>	-	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
<b>INDOOR HYDRAULIC MODULE</b>									
Noise level <sup>(2)</sup>	dB(A)	39	39	39	39	39	37	37	37
Net weight/filled weight <sup>(3)</sup>	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
<b>OUTDOOR UNIT</b>									
Noise level <sup>(4)</sup>	dB(A)	47	47	46	47	47	45	45	45
Operating weight	kg	92	92	99	99	99	137	138	138
<b>REFRIGERANT CHARACTERISTICS</b>									
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 <sub>2</sub> equivalent	t	5	5	5	5	5	8	8	8

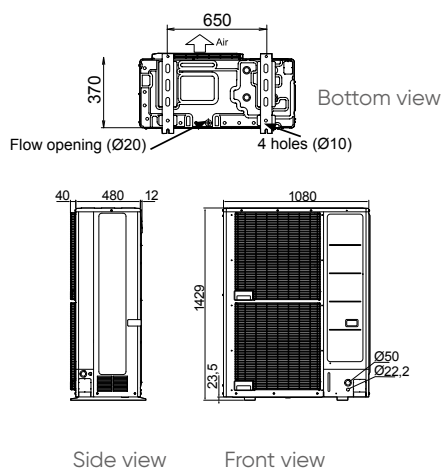
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

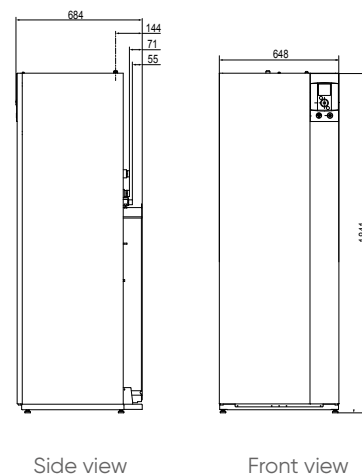
Outdoor Inverter unit Alfea Excellia Duo A.I. 11 and 14 single-phase, 11, 14 and 16 three-phase



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



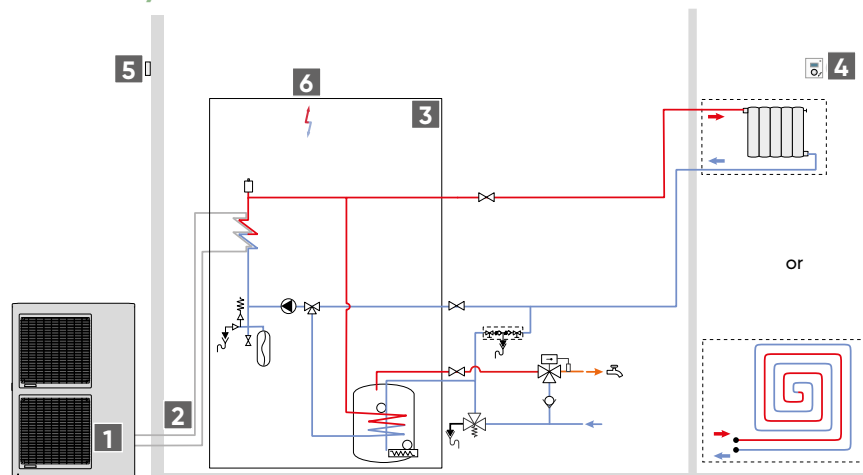
Indoor hydraulic module



# INSTALLATION SCHEMATICS

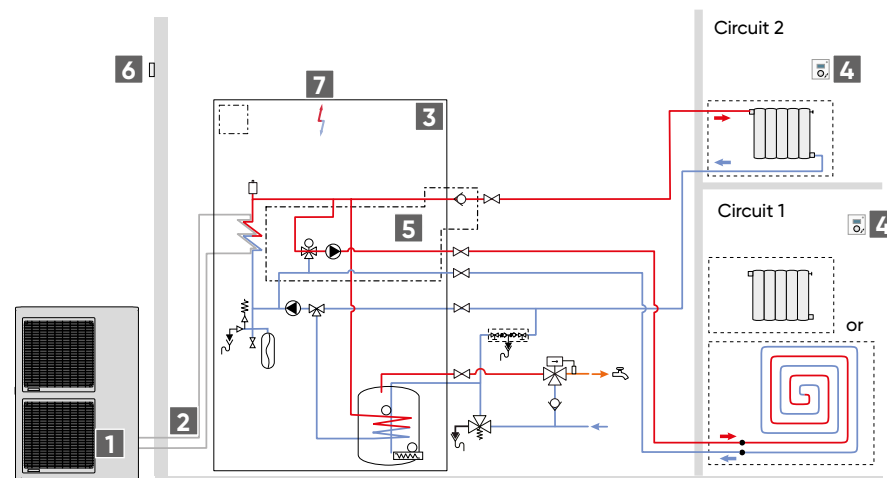
## ALFEA EXCELLIA DUO A.I. (+ HP MODELS): 1 HEATING ZONE

- 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



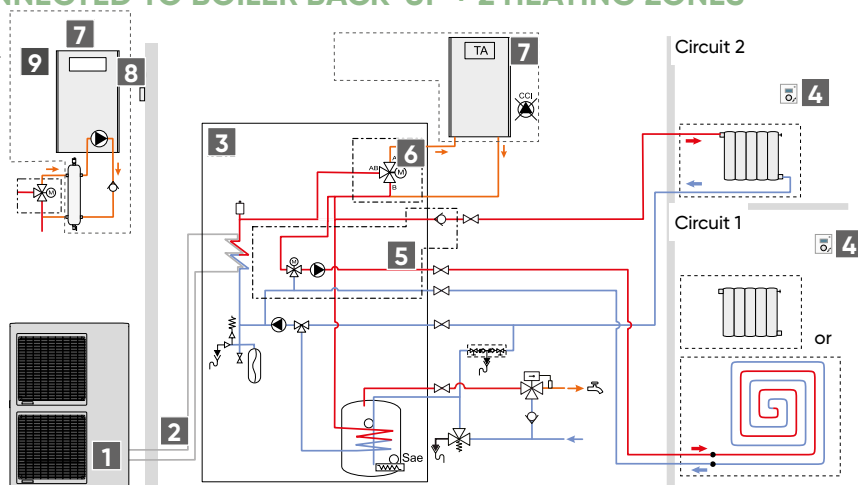
## ALFEA EXCELLIA DUO A.I. (+ HP MODELS): 2 HEATING ZONES

- 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)

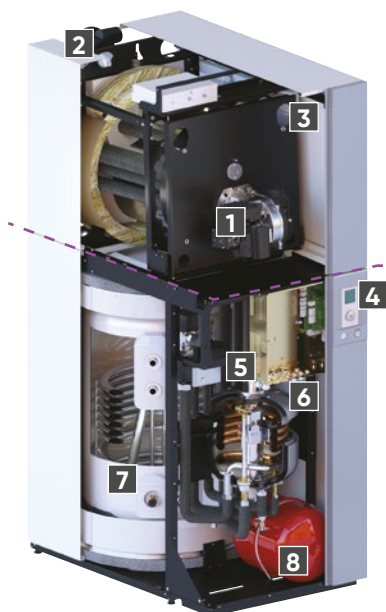
## Practical trainings

that will help you save time and be more efficient.

## Tailor-Made Training Programs



## INDOOR HYDRAULIC MODULE



### Condensing oil burner

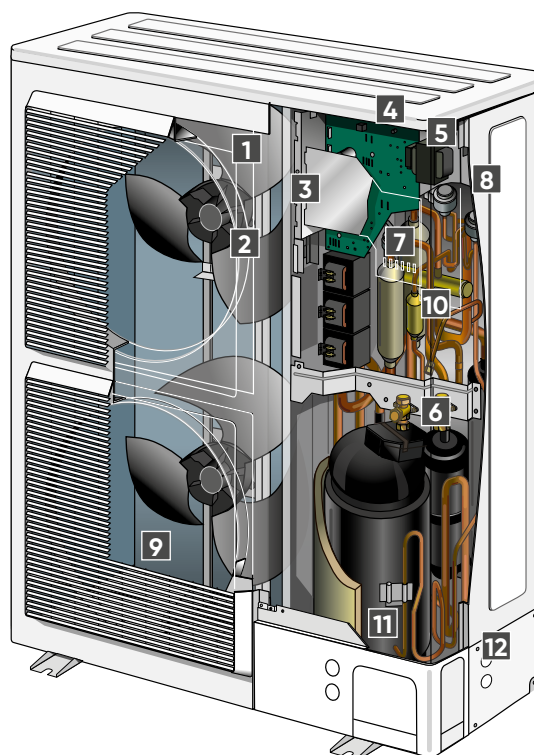
- 1 Oil burner
- 2 Chimney and room sealed models
- 3 Easy access to lifting bars

### 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

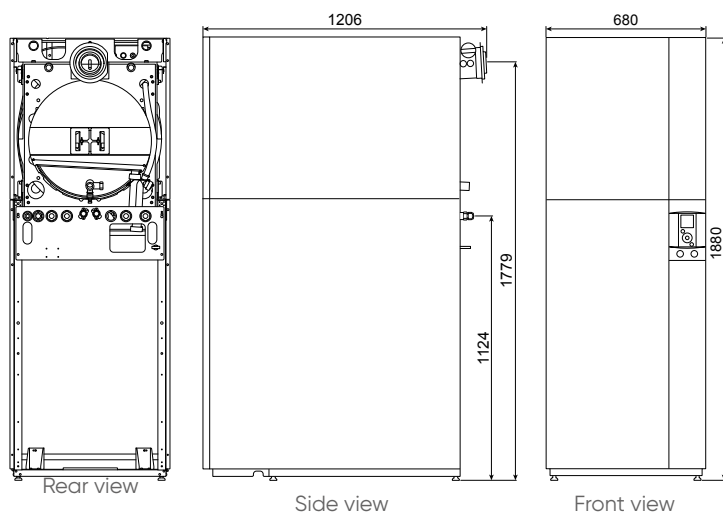
	UNIT	ALFEA HYBRID DUO OIL A.I. 6 – 23 KW	ALFEA HYBRID DUO OIL A.I. 8 – 23 KW	ALFEA HYBRID DUO OIL A.I. 11 – 23 KW	ALFEA HYBRID DUO OIL A.I. 14 – 23 KW
<b>REFRIGERANT</b>					
		R410A	R410A	R410A	R410A
<b>ENERGY EFFICIENCY CHARACTERISTICS - HEATING - AVERAGE CLIMAT</b>					
<b>Energy class - Heating (35°C / 55°C)</b>	-	<b>A++ / A+</b>	<b>A++ / A+</b>	<b>A++ / A+</b>	<b>A+ / A+</b>
Thermal power - heat pump (55°C)	kW	5 / 5	7 / 6	11 / 9	11 / 9
<b>Annual energy consumption - Heating (55°C)</b>	<b>kWh</b>	<b>2505 / 3180</b>	<b>3375 / 3886</b>	<b>6062 / 6623</b>	<b>6824 / 8041</b>
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) <sup>(1)</sup>	dB(A)	48 / 63	48 / 69	48 / 69	48 / 69
<b>ENERGY EFFICIENCY CHARACTERISTICS - DHW - AVERAGE CLIMAT</b>					
Declared load profile	-	L	L	L	L
<b>Energy class - DHW</b>	<b>-</b>	<b>A+</b>	<b>A+</b>	<b>A</b>	<b>A</b>
Annual energy consumption - DHW	kWh	880	880	1166	1166
<b>Seasonal energy efficiency (%) - DHW</b>	<b>%</b>	<b>120</b>	<b>120</b>	<b>88</b>	<b>88</b>
<b>MAIN CHARACTERISTICS</b>					
<b>SCOP 35 °C / 55 °C</b>	<b>-</b>	<b>4.3 / 2.95</b>	<b>3.97 / 3;02</b>	<b>3.85 / 2.87</b>	<b>3.77 / 2.90</b>
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
<b>INDOOR HYDRAULIC MODULE</b>					
Noise level on Thermodynamic mode <sup>(2)</sup>	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
<b>HYDRAULIC CHARACTERISTICS</b>					
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
<b>ELECTRICAL CONNECTIONS</b>					
Power supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50
Standby mode consumption	W	0.15	0.15	0.15	0.15
<b>HYDRAULIC CONNECTIONS</b>					
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
<b>CHIMNEY CONNECTION DEPENDING ON MODEL</b>					
Ø Chimney inlet and outlet	mm	80	80	80	80
Burner optimum depression	Pa	15	15	15	15
<b>ROOM SEALED SYSTEM CONNECTION DEPENDING ON MODEL</b>					
Ø Pipe	mm	80 / 125	80 / 125	80 / 125	80 / 125
<b>OPERATING RANGE</b>					
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
<b>OUTDOOR UNIT</b>					
Noise level <sup>(2)</sup>	dB(A)	41	47	47	47
Operating weight	kg	41	42	92	92
<b>REFRIGERANT CHARACTERISTICS</b>					
R410A factory load	g	1100	1400	2500	2500
Quantity of refrigerant in tons of CO <sub>2</sub> 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

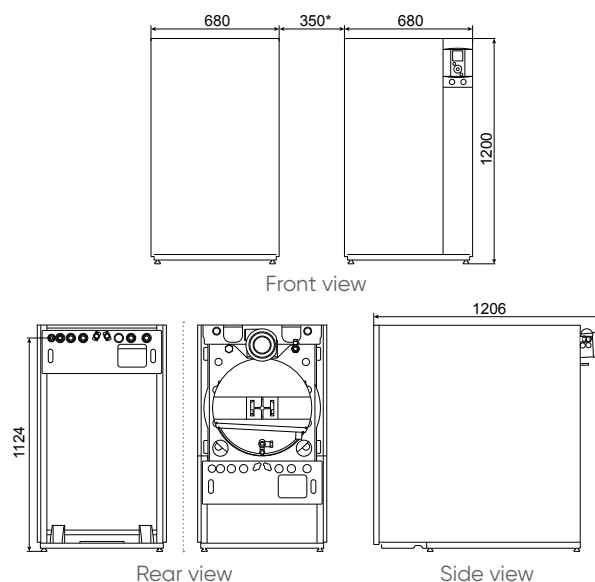
ALFEA HYBRID DUO OIL A.I. TRI 11 – 23 KW	ALFEA HYBRID DUO OIL A.I. TRI 14 – 23 KW	ALFEA HYBRID DUO OIL A.I. 11 – 29 KW	ALFEA HYBRID DUO OIL A.I. 14 – 29 KW	ALFEA HYBRID DUO OIL A.I. TRI 11 – 29 KW	ALFEA HYBRID DUO OIL A.I. TRI 14 – 29 KW
R410A	R410A	R410A	R410A	R410A	R410A
A++ / A+	A++ / A+	A++ / A+	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)

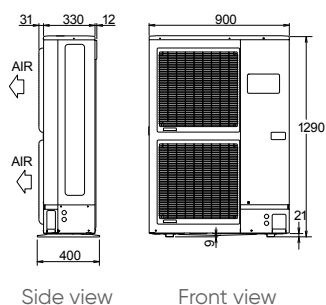
On-top indoor hydraulic module



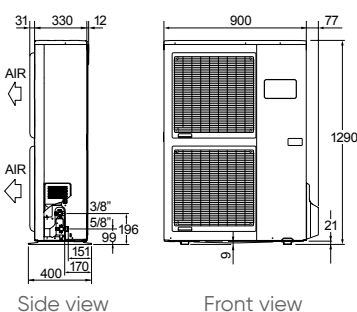
Side-by-side indoor hydraulic module



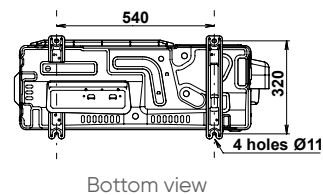
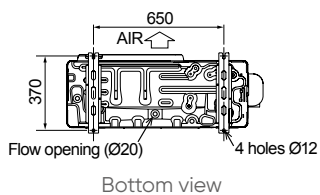
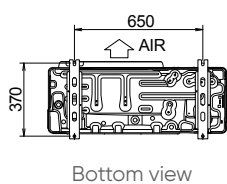
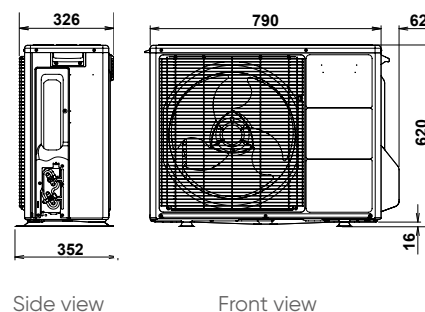
Outdoor Inverter unit Alfea Hybrid Duo Oil A.I. 11 and 14 single-phase



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

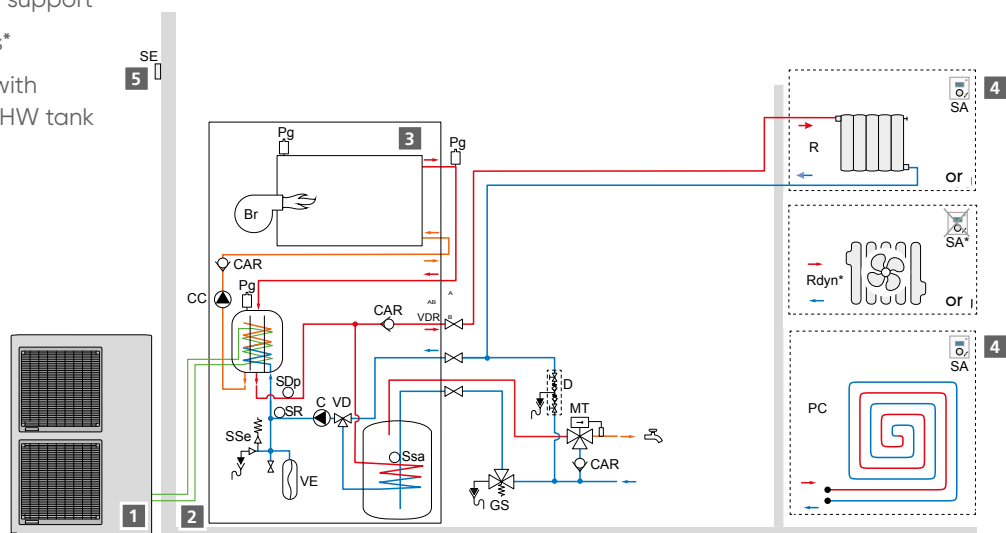




# INSTALLATION SCHEMATICS

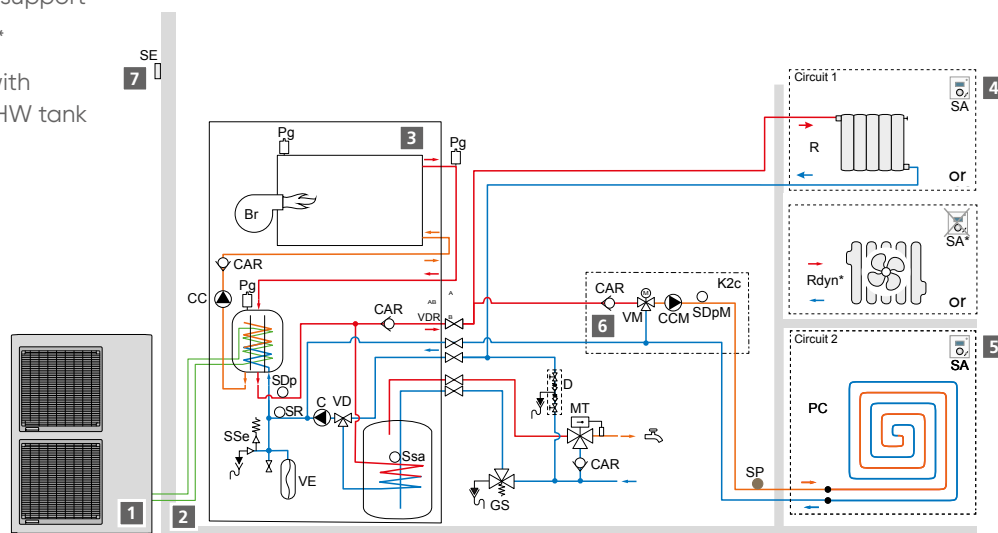
## ALFEA HYBRID DUO OIL A.I.: 1 HEATING ZONE

- 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**

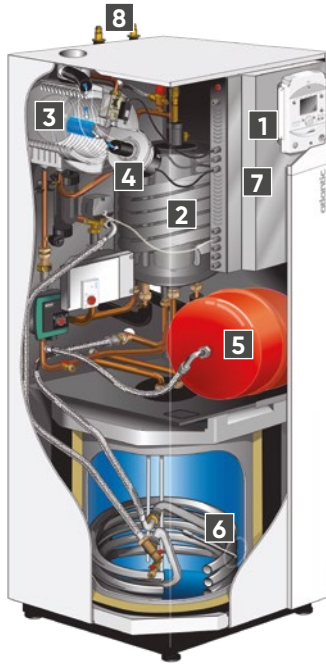
\*Available for Alfea Hybrid Duo Gas R models



55°C

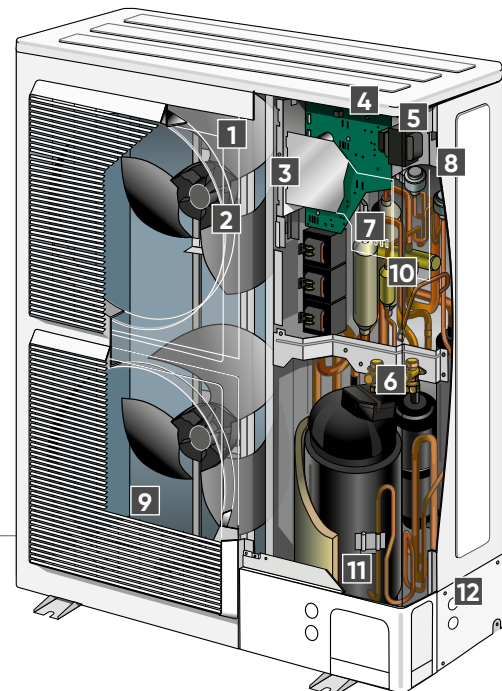


## INDOOR HYDRAULIC MODULE



- 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

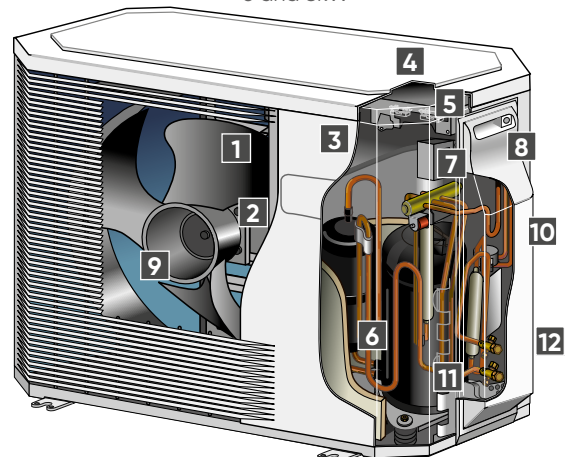
Outdoor Inverter unit  
11, 14 and 16kW



## 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



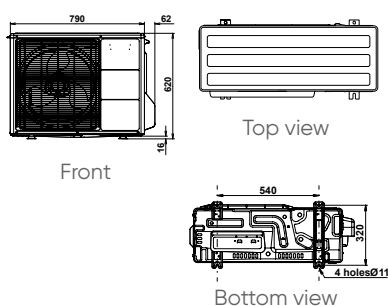
## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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
<b>ENERGY EFFICIENCY &amp; ACOUSTIC VALUES</b>								
<b>Energy class - Heating (55°C)</b>	-	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>
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
<b>Seasonal energy efficiency - Heating (55°C)</b>	%	<b>115</b>	<b>118</b>	<b>112</b>	<b>113</b>	<b>112</b>	<b>117</b>	<b>117</b>
Seasonal energy efficiency - Heating (55°C) with outdoor sensor	%	117	120	114	115	114	119	119
Sound power level (indoor/outdoor) <sup>(1)</sup>	dB (A)	46 / 63	46 / 69	46 / 69	46 / 70	46 / 66	46 / 68	46 / 69
<b>DHW ENERGY EFFICIENCY</b>								
Declared load profile	-	XXL	XXL	XXL	XXL	XXL	XXL	XXL
<b>Energy class - DHW</b>	-	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>	<b>B</b>
Seasonal energy efficiency (%) - DHW	kWh	6446	6446	6446	6446	6446	6446	6446
<b>Seasonal energy efficiency (%) - DHW</b>	%	<b>74</b>	<b>74</b>	<b>74</b>	<b>74</b>	<b>74</b>	<b>74</b>	<b>74</b>
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
<b>THERMODYNAMIC PERFORMANCE</b>								
<b>SCOP 35 °C / 55 °C</b>	-	<b>4.30 / 2.95</b>	<b>3.97 / 3.02</b>	<b>3.85 / 2.87</b>	<b>3.77 / 2.90</b>	<b>3.92 / 2.87</b>	<b>3.82 / 3.00</b>	<b>3.80 / 3.00</b>
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
<b>CONDENSING GAS BACK-UP BURNER PERFORMANCES</b>								
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
<b>BALANCE FLUE CONNECTION (VERTICAL AND HORIZONTAL)</b>								
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
<b>CHIMNEY CONNECTION</b>								
Ø Smoke tubes	mm	80	80	80	80	80	80	80
<b>INDOOR HYDRAULIC MODULE</b>								
Noise level <sup>(2)</sup>	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
<b>OUTDOOR UNIT</b>								
Noise level <sup>(3)</sup>	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
<b>REFRIGERANT CHARACTERISTICS</b>								
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 <sup>2</sup> equivalent	-	2	3	5	5	5	5	5

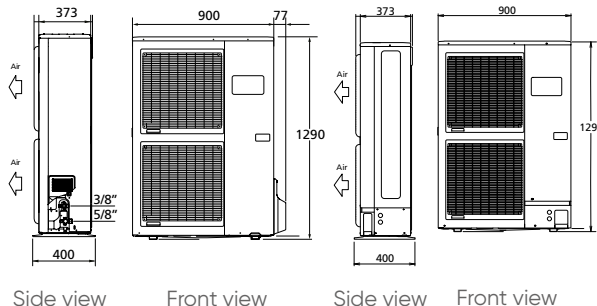
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

## INSTALLATION DIMENSIONS (mm)

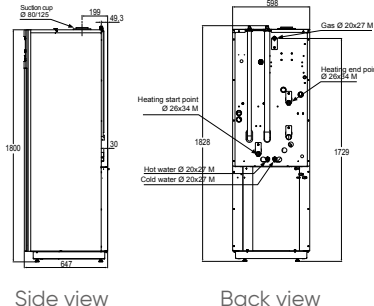
Outdoor Inverter unit Alfea Hybrid Duo Gas R6, R8



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



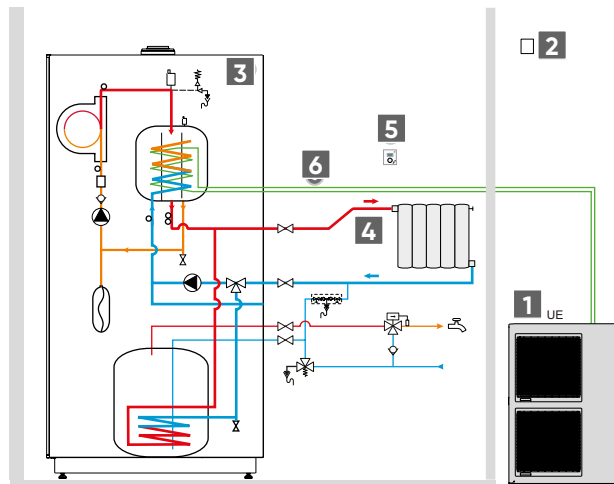
Indoor hydraulic module



# INSTALLATION SCHEMATICS

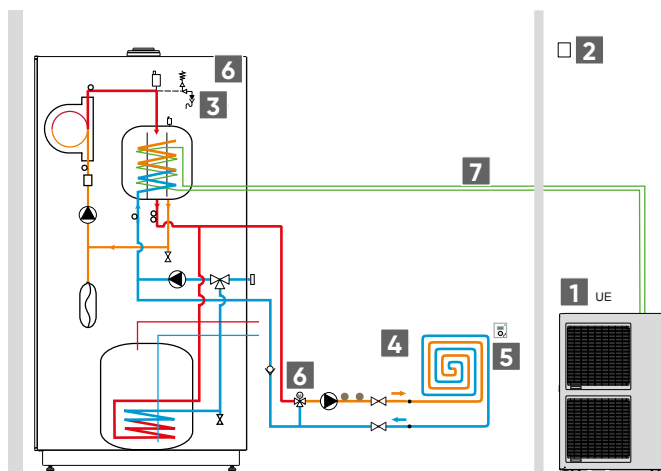
## ALFEA HYBRID DUO GAS: 1 HEATING ZONE

- 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\*



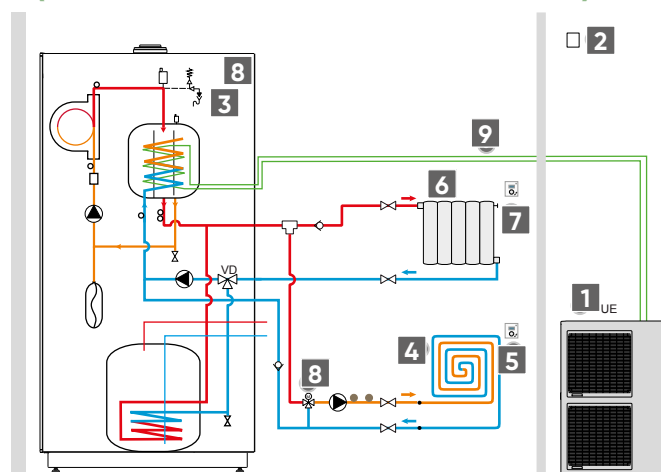
## ALFEA HYBRID DUO GAS: 1 HEATING ZONE + UNDERFLOOR HEATING

- 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

# Loria R32 range

The heat pump for new-build projects, designed in France



**The Loria R32 is the Atlantic heat pump dedicated to the new-build.**

Equipped with a plate heat exchanger, an outdoor unit that uses R32 and Inverter technology, its performance ensures comfort through both heating and sanitary hot water.

Its compact size also means it easily fits into your home. Sensorless regulation via the 'Atlantic Smart Adapt' function keeps your installation quick and simple.

## TECHNICAL BENEFITS

### A complete solution for new-build projects

- Operation without an outdoor sensor with Atlantic Smart Adapt
- A compact, cost-efficient solution
- Magnetic mud pot as standard
- Cooling (optional kit)

## EFFICIENCY GAINS

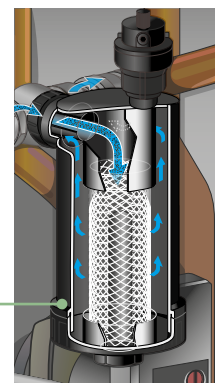
- COP up to 5.07
- DHW COP of 3.26 (Duo version)
- ErP class up to A+++ and seasonal energy efficiency up to 192%
- Inverter regulation





## EASY MAINTENANCE

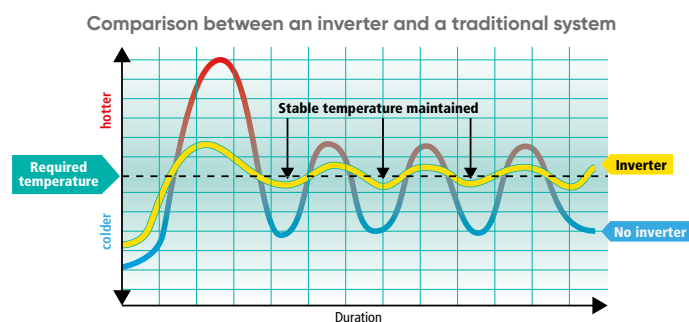
- Tilting electrical box for easy access to internal components
- **Loria R32 (1 service):** filter valve (standard) outside the hydraulic module, for easy removal and cleaning
- **Loria Duo R32 (2 services):** built-in magnetic mud container filter as standard



## Inverter Regulation

### A SIMPLE WAY TO CONFIGURE THE HEAT PUMP

- Inverter regulation acting directly on compressor speed
- Adjustable weather compensation
- Floor drying function
- Depending on the option, the system manages:
  - 2 heating zones
  - Cooling
  - Sanitary hot water equipment



### ATLANTIC NAVISTEM 100H INTERFACE FOR FAST ACCESS

- Backlit display
- Code-based navigation
- Control of the various modes (weekly programming, continuous, holiday, etc.)
- Regulation based on the outdoor temperature with Atlantic Smart Adapt (no outdoor sensor) and energy use display



## Connected modulating thermostat: Navilink 128 Radio-Connect



Navilink 128 Radio-connect

### Benefits of this solution

- Connected thermostat and remote comfort with the Atlantic Cozytouch app
- 2 in 1: Basic or Programmed mode
- Set-up tunnel for quick and simple installation



# Loria R32

Medium temperature inverter air-to-water split heat pump – heating alone



Remote piloting



## BENEFITS

- Easy to install and maintain thanks to the direct access given to the hydraulic design
- Compact, cost-efficient solution for all your new-build needs
- Operation without an outdoor sensor with Atlantic Smart Adapt

## DESCRIPTION

- Refrigerant circuit running on R32
- 4 models: 4 to 10 kW
- Single-phase models
- Navistem 100H regulation based on outside temperature
- 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

### COMPATIBLE MODULATING THERMOSTAT: NAVILINK 128 RADIO-CONNECT

- Modern design
- Simplified programming through integrated assistance
- Remote control and display of consumption with the Cozytouch application via Navilink 128 Radio-Connect



### 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 services, test & breakdowns – ½ day





35°C

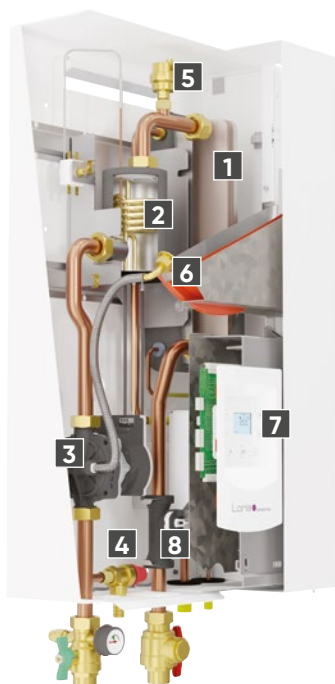


55°C



Cozytouch

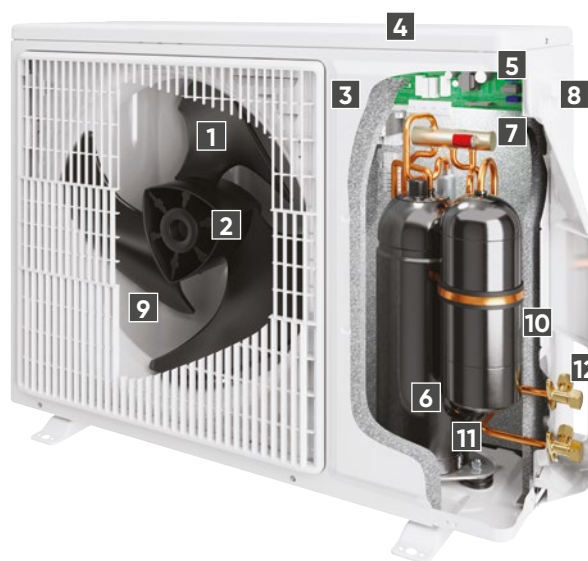
## INDOOR HYDRAULIC MODULE



- 1** Plate heat exchanger
- 2** 3 kW booster heater
- 3** Low-consumption circulating pump made of composite materials
- 4** Valve made of composite materials
- 5** Drain valve
- 6** 8L expansion vessel
- 7** Navistem 100H interface
- 8** Flow controller

## 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



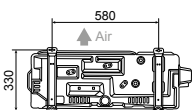
## TECHNICAL CHARACTERISTICS AND PERFORMANCE

DESCRIPTION	UNIT	LORIA 6004 R32	LORIA 6006 R32	LORIA 6008 R32	LORIA 6010 R32
Refrigerant		R32	R32	R32	R32
<b>TECHNICAL CHARACTERISTICS AND PERFORMANCE</b>					
Energy class - heating (35°C/55°C) package	-	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
Thermal output (35°C / 55°C)	kW	5 / 5	6 / 5	7 / 6	9 / 9
Annual energy consumption - heating (35°C / 55°C)	kWh	2418 / 3018	2614 / 3307	2901 / 3751	3796 / 5014
Seasonal energy efficiency - heating (35° / 55°) without an outdoor sensor	%	182 / 128	192 / 134	187 / 136	188 / 141
Seasonal energy efficiency - heating (35° / 55°) with an outdoor sensor	%	184 / 130	190 / 132	185 / 134	186 / 139
Sound power (indoor / outdoor)	dB(A)	40 / 57	40 / 57	40 / 60	40 / 62
<b>GENERAL CHARACTERISTICS</b>					
SCOP (35°/55°)		4.61 / 3.29	4.82 / 3.37	4.70 / 3.41	4.73 / 3.54
Heating capacity +7°C/+35°C - UH	kW	4.60	5.60	7.50	9.80
COP +7°C/+35°C - UH		4.83	4.81	4.52	4.53
Heating capacity -7°C/+35°C - UH	kW	4.50	5.30	5.90	9.20
COP -7°C/+35°C - UH		2.94	2.73	2.72	2.63
Heating capacity +7°C/+55°C - Rad	kW	4.50	5.60	7.20	9.50
COP +7°C/+55°C - Rad		2.72	2.77	2.77	2.85
Heating capacity -7°C/+55°C - Rad	kW	3.90	4.25	5.30	8.00
COP -7°C/+55°C - Rad		1.91	1.95	1.96	2.01
Electrical backup heating capacity	kW	3	3	3	3
<b>INDOOR UNIT</b>					
Noise level <sup>(1)</sup>	dB(A)	32	32	32	32
Unladen weight/filled weight	kg	42 / 46	42 / 46	42 / 46	42 / 46
<b>HYDRAULIC CHARACTERISTICS</b>					
Vessel expansion capacity	l	8	8	8	8
Heating circuit input and output diameters (male thread)	pouce	1	1	1	1
Recommended operating range min/max - hot mode	°C	-20 / +35	-20 / +35	-20 / +35	-20 / +35
<b>ELECTRICAL CONNECTION</b>					
Power supply		230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Power consumption on standby	W	5	5	5	5
Circuit breaker rating for heat pump booster heaters curve C	A	16	16	16	16
Heat pump booster heater power cables	mm <sup>2</sup>	3G 1.5	3G 1.5	3G 1.5	3G 1.5
<b>FUJITSU OUTDOOR UNIT</b>					
Noise level <sup>(2)</sup>	dB(A)	35	35	38	40
Weight in operation	kg	39	39	42	62
<b>REFRIGERANT CHARACTERISTICS</b>					
Gas diameter	pouce	1/2	1/2	1/2	5/8
Liquid diameter	pouce	1/4	1/4	1/4	3/8
Refrigerant factory load HFC R32	g	970	970	1020	1630
Quantity of fluid in tonnes of CO <sub>2</sub> -eq	t	1	1	1	1
Min/max length	m	3 / 30	3 / 30	3 / 30	3 / 30
Max difference in height	m	20	20	20	20
Max length with no additional load	m	15	15	15	20
Masse de gaz à rajouter par m supplémentaire	g	25	25	25	20
<b>RACCORDEMENTS ÉLECTRIQUES</b>					
Alimentation		230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Standby power	W	38	38	38	38
Max intensity (excluding booster heaters)	A	13	13	18	19
Circuit breaker rating C curve	A	16	16	20	32
Power cable, outdoor module	mm <sup>2</sup>	3G1.5	3G1.5	3G2.5	3G 4 or 6
Cables connecting the outdoor and indoor modules	mm <sup>2</sup>	4G1.5	4G1.5	4G1.5	4G1.5

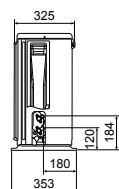
(1) Acoustic pressure at 1m from HP, 1,5 m from the ground, open field, directivity 2.  
(2) Acoustic pressure at 5m from HP, 1,5 m from the ground, open field, directivity 2.

## INSTALLATION DIMENSIONS (mm)

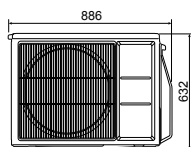
Outdoor Inverter unit  
Loria R32 5 and 6



Bottom view

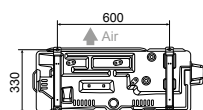


Side view

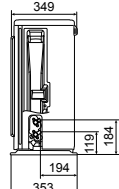


Front view

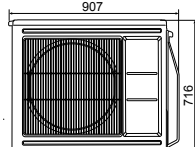
Outdoor Inverter unit  
Loria R32 8



Bottom view

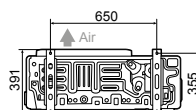


Side view

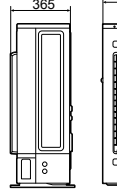


Front view

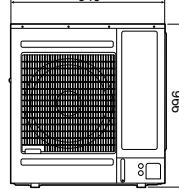
Outdoor Inverter unit  
Loria R32 10



Bottom view

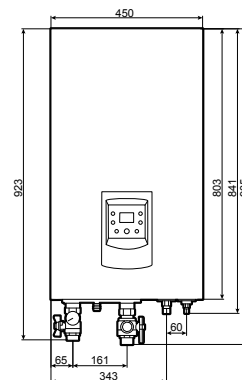


Side view

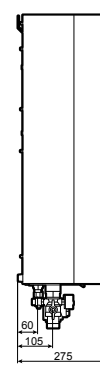


Front view

Indoor hydraulic module



Front view

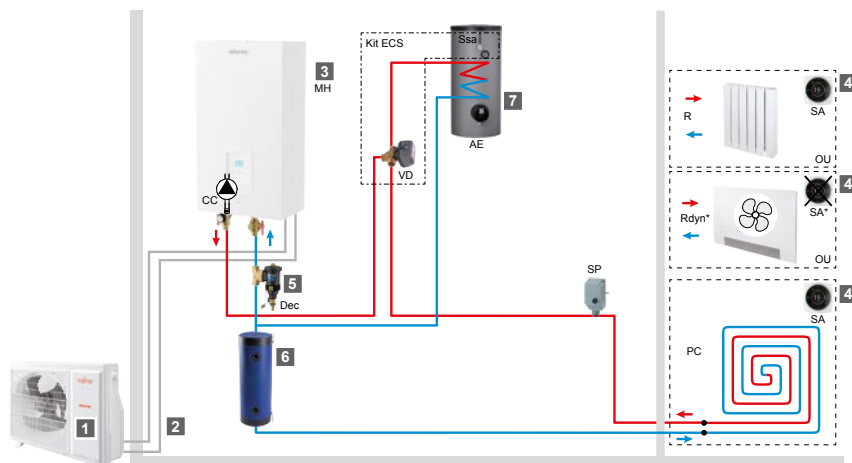


Side view

# INSTALLATION SCHEMATICS

## A - 1 HEATING CIRCUIT

- 1 Outdoor unit and floor supports<sup>(1)</sup>
- 2 Refrigeration links<sup>(1)</sup>
- 3 Indoor unit
- 4 Modulating thermostat<sup>(1)</sup>
- 5 Magnetic sludge filter<sup>(1)</sup>
- 6 Buffer tank<sup>(2)</sup>
- 7 DHW boiler

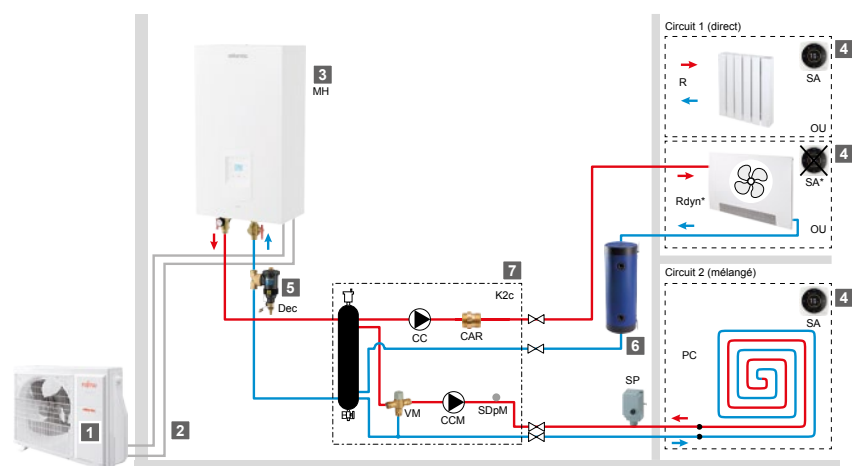


(1) Optional

(2) Depending on the emitter type and quantity of water in the heating circuit, it may be necessary to install a buffer tank.

## B - 2 HEATING CIRCUITS

- 1 Outdoor unit and floor supports<sup>(1)</sup>
- 2 Refrigeration links<sup>(1)</sup>
- 3 Indoor unit
- 4 Modulating thermostat<sup>(1)</sup>
- 5 Magnetic sludge filter<sup>(1)</sup>
- 6 Buffer tank<sup>(2)</sup>
- 7 2-circuit kit<sup>(1)</sup>



(1) Optional

(2) Depending on the emitter type and quantity of water in the heating circuit, it may be necessary to install a buffer tank.

Detailed hydraulic and electrical diagrams included in installation manual.

# Loria Duo R32

Medium temperature inverter air-to-water split heat pump – integrated DHW



Remote piloting



## + BENEFITS

- Easy to install and maintain thanks to the direct access given to the hydraulic design
- Operation without an outdoor sensor with Atlantic Smart Adapt
- Compact, cost-efficient solution for all your new-build needs
- DHW tank (190 L) with high-performance regulation

### DESCRIPTION

- Refrigerant circuit running on R32
- 5 models: 3 to 10 kW
- Single-phase models
- Heating and DHW integrated
- Navistem 100H regulation based on outside temperature
- Inverter regulation

### AVAILABLE OPTIONS

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

### COMPATIBLE MODULATING THERMOSTAT: NAVILINK 128 RADIO-CONNECT

- Modern design
- Simplified programming through integrated assistance
- Remote control and display of consumption with the Cozytouch application via Navilink 128 Radio-Connect



### 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 services, test & breakdowns – ½ day

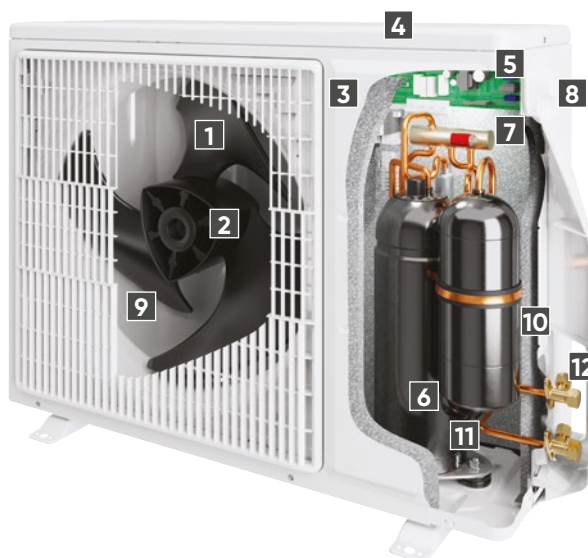
## INDOOR HYDRAULIC MODULE



- 1 Removable sludge filter as standard
- 2 Hydrobloc
- 3 190L tank made of enamelled steel
- 4 Expansion vessel 8L
- 5 Navistem 100H interface
- 6 Plate heat exchanger
- 7 3 kW booster heater
- 8 Flow controller
- 9 Booster heater and magnesium anode

## 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





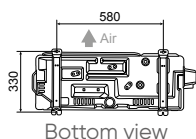
## TECHNICAL CHARACTERISTICS AND PERFORMANCE

DESCRIPTION		UNIT	LORIA DUO 6003 R32	LORIA DUO 6004 R32	LORIA DUO 6006 R32	LORIA DUO 6008 R32	LORIA DUO 6010 R32
Refrigerant			R32	R32	R32	R32	R32
CHARACTERISTICS AND HEATING PERFORMANCE							
E.P.	Energy class - heating (35°C/55°C) package	-	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++	A+++ / A++
	Thermal output (35°C / 55°C)	kW	4 / 4	5 / 5	6 / 5	7 / 6	9 / 9
	Annual energy consumption - heating (35°C / 55°C)	kWh	930 / 1313	2418 / 3018	2614 / 3307	2901 / 3751	3796 / 5014
	Seasonal energy efficiency - heating (35° / 55°) without an outdoor sensor	%	181 / 126	182 / 128	190 / 132	185 / 134	186 / 139
	Seasonal energy efficiency - heating (35° / 55°) with an outdoor sensor	%	183 / 128	184 / 130	192 / 134	187 / 136	188 / 141
	Sound power (indoor/outdoor)	dB(A)	40 / 57	40 / 57	40 / 57	40 / 60	40 / 62
DHW CHARACTERISTICS AND PERFORMANCE							
E.P.	Draw-off profile - DHW	-	L	L	L	L	L
	Energy class - DHW	-	A+	A+	A+	A+	A+
	Annual energy consumption in kWh - DHW	kWh	777	777	777	777	777
	Seasonal energy efficiency - DHW	%	132	132	132	132	132
GENERAL CHARACTERISTICS							
	SCOP (35°/55°)		4.60 / 3.22	4.61 / 3.29	4.82 / 3.37	4.7 / 3.41	4.73 / 3.54
	Heating capacity +7°C/+35°C - UH	kW	3.30	4.60	5.60	7.50	9.80
	COP +7°C/+35°C - PC		2.20	4.83	4.81	4.52	4.53
	Heating capacity -7°C/+35°C - UH	kW	3.50	4.50	5.30	5.90	9.20
	COP -7°C/+35°C - PC		3.03	2.94	2.73	2.72	2.63
	Heating capacity +7°C/+55°C - Rad	kW	3.10	4.50	5.60	7.20	9.50
	COP +7°C/+55°C - Rad		2.55	2.72	2.77	2.77	2.85
	Heating capacity -7°C/+55°C - Rad	kW	3.30	3.90	4.25	5.30	8.00
	COP -7°C/+55°C - Rad		1.77	1.91	1.95	1.96	2.01
	Electrical backup heater heating capacity	kW	3	3	3	3	3
INDOOR UNIT							
	Noise level <sup>(1)</sup>	dB(A)	32	32	32	32	32
	Unladen weight/filled weight	kg	135 / 330	135 / 330	135 / 330	135 / 330	135 / 330
HYDRAULIC CHARACTERISTICS							
	Vessel expansion capacity	l	8	8	8	8	8
	DHW tank capacity	l	190	190	190	190	190
	DHW electrical backup heating capacity	kW	1.60	1.60	1.60	1.60	1.60
	Materials DHW tank		Enamelled steel				
	Warming-up time in compliance with EN16147	h/mn	1h36	1h36	1h36	1h36	1h36
	Reference temperature in compliance with EN16147	°C	52.5	52.5	52.5	52.5	52.5
	DHW COP in compliance with EN16147	-	3.26	3.26	3.26	3.26	3.26
	Max usable volume of hot water in compliance with EN16147	L	243	243	243	243	243
	Reserve power in compliance with EN16147	W	31	31	31	31	31
	Heating circuit input and output diameters (male thread)	pouce	1	1	1	1	1
	Recommended operating range min/max - hot mode	°C	-20 / +35	-20 / +35	-20 / +35	-20 / +35	-20 / +35
ELECTRICAL CONNECTION							
	Power supply		230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
	Power consumption on standby	W	5	5	5	5	5
	Circuit breaker rating for heat pump booster heaters curve C	A	16	16	16	16	16
	Heat pump booster heater power cables	mm²	3G 1.5	3G 1.5	3G 1.5	3G 1.5	3G 1.5
FUJITSU OUTDOOR UNIT							
	Noise level <sup>(2)</sup>	dB(A)	35	35	35	38	40
	Weight in operation	kg	39	39	39	42	62
REFRIGERANT CHARACTERISTICS							
	Gas diameter	pouce	1 / 2	1 / 2	1 / 2	1 / 2	5 / 8
	Liquid diameter	pouce	1 / 4	1 / 4	1 / 4	1 / 4	3 / 8
	Refrigerant factory load HFC R32	g	970	970	970	1020	1630
	Quantity of fluid in tonnes of CO <sub>2</sub> -eq	t	1	1	1	1	1
	Min/max length	m	3 / 30	3 / 30	3 / 30	3 / 30	3 / 30
	Max difference in height	m	20	20	20	20	20
	Max length<1> with no additional load	m	15	15	15	15	20
	Quantity of gas to be added per additional m	g	25	25	25	25	20
ELECTRICAL CONNECTIONS							
	Power supply		230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
	Standby consumption (Average power consumed by pump)	W	38	38	38	38	38
	Max intensity (excluding booster heaters)	A	13	13	13	18	19
	Circuit breaker rating C curve	A	16	16	16	20	32
	Power cable, outdoor module	mm²	3G1.5	3G1.5	3G1.5	3G2.5	3G 4 or 6
	Cables connecting the module and indoor modules	mm²	4G1.5	4G1.5	4G1.5	4G1.5	4G1.5

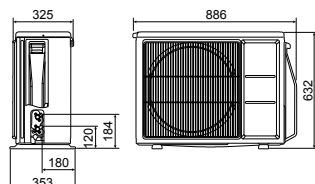
- (1) Acoustic pressure at 5m from HP, 5 m from the ground, open field, directivity 2.  
(2) Acoustic pressure at 5m from HP, 1,5 m from the ground, open field, directivity 2.

## INSTALLATION DIMENSIONS (mm)

Outdoor Inverter unit  
Loria Duo R32 3, 4 and 6

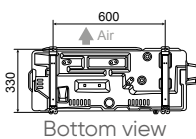


Bottom view

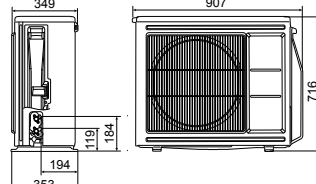


Side view Front view

Outdoor Inverter unit  
Loria Duo R32 8

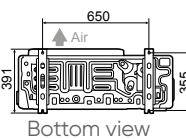


Bottom view

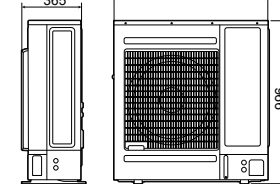


Side view Front view

Outdoor Inverter unit  
Loria Duo R32 10

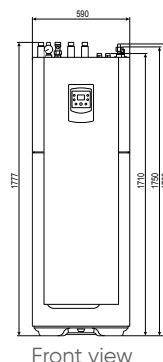


Bottom view

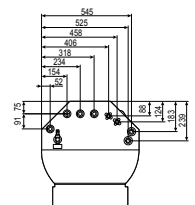


Side view Front view

Indoor hydraulic module



Front view

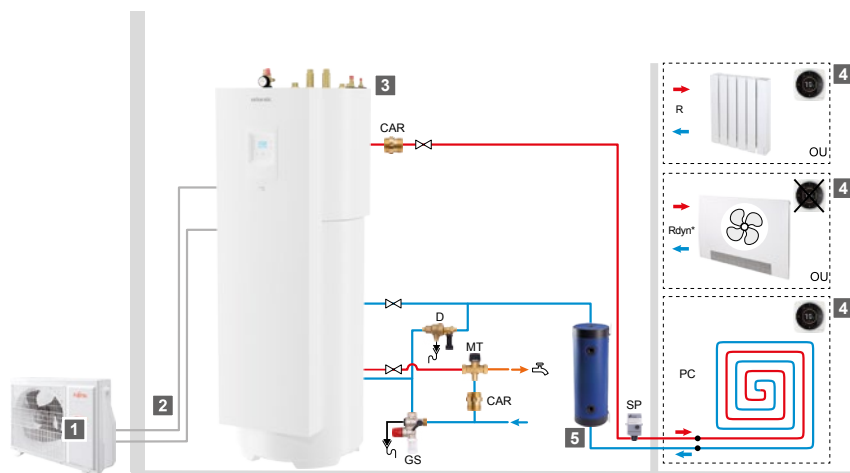


Top view

# INSTALLATION SCHEMATICS

## A - 1 CIRCUIT (UNDERFLOOR HEATING OR RADIATORS) + INTEGRATED DHW

- 1 Outdoor unit and floor supports<sup>(1)</sup>
- 2 Refrigeration links<sup>(1)</sup>
- 3 Indoor unit
- 4 Modulating thermostat (except with dynamic radiator)<sup>(1)</sup>
- 5 Buffer tank<sup>(2)</sup>

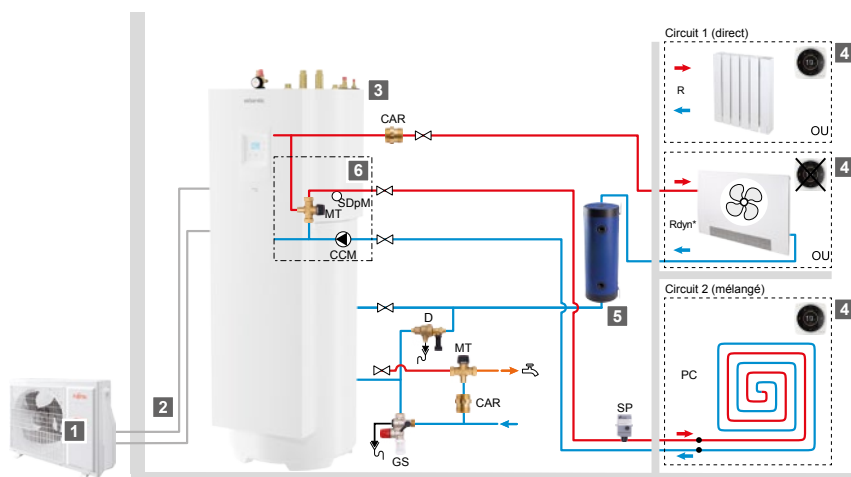


(1) Optional

(2) Depending on the emitter type and quantity of water in the heating circuit, it may be necessary to install a buffer tank.

## B - 2 CIRCUITS (UNDERFLOOR HEATING OR RADIATORS) + INTEGRATED DHW

- 1 Outdoor unit and floor supports<sup>(1)</sup>
- 2 Refrigeration links<sup>(1)</sup>
- 3 Indoor unit
- 4 Modulating thermostat (except with dynamic radiator)<sup>(1)</sup>
- 5 Buffer tank<sup>(2)</sup>
- 6 2<sup>nd</sup> circuit



(1) Optional

(2) Depending on the emitter type and quantity of water in the heating circuit, it may be necessary to install a buffer tank.

Detailed hydraulic and electrical diagrams included in installation manual.

# Loria R32 range accessories

## MODULATING ROOM CONTROLLER NAVILINK 105 OR NAVILINK 128 RADIO-CONNECT



### + PRODUCT

- Simplified programming through integrated assistance
- DHW control
- Quick access to all useful information: energy consumption, active mode, ambient and outdoor temperature
- Made in France
- Remote controle via Cozytouch App for Navilink 128 Radio-Connect

### DESCRIPTION

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

## MAGNETIC MUD FILTER (FOR LORIA R32)



### + 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





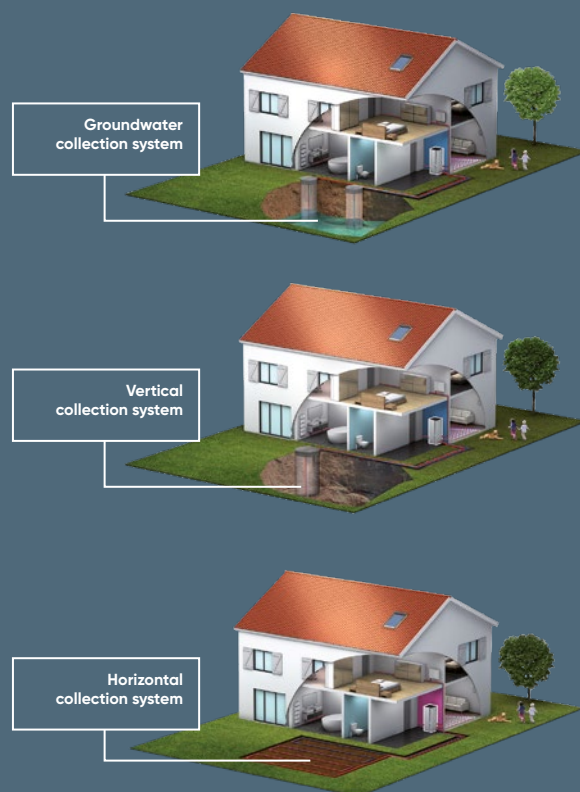
# Ground source heat pumps

**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

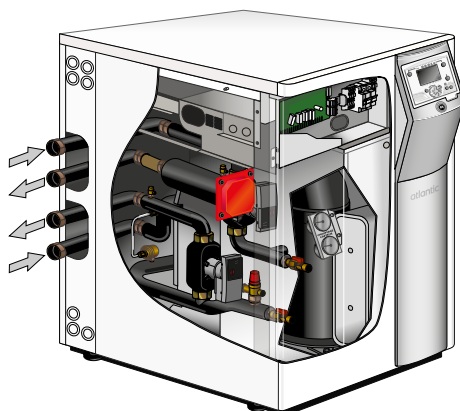


## ATLANTIC GEOLIA

**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.

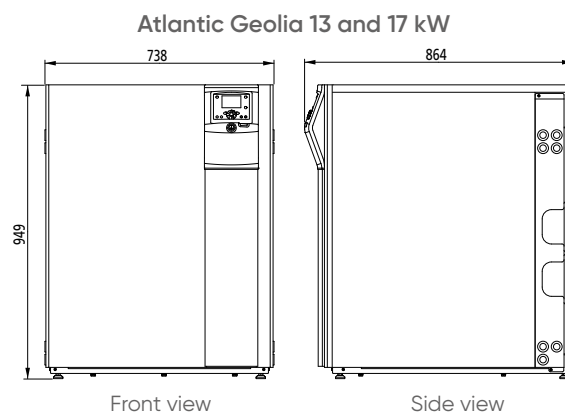
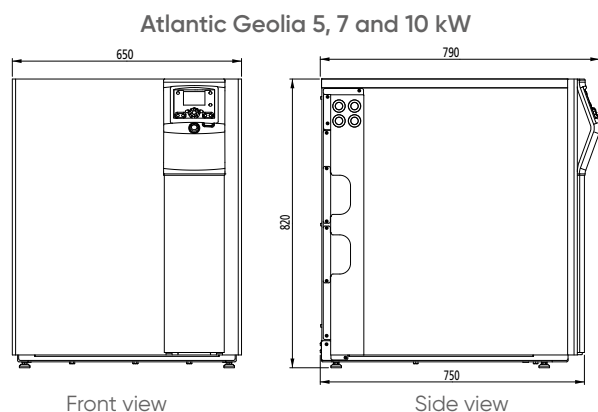
### Tailor-Made Training Programs

## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ATLANTIC GEOLIA 5	ATLANTIC GEOLIA 7	ATLANTIC GEOLIA 10	ATLANTIC GEOLIA 13	ATLANTIC GEOLIA 17
<b>REFRIGERANT</b>						
R410A factory load	g	900	950	1450	1700	2300
Amount of fluid expressed in CO <sub>2</sub> equivalent	t	2	2	3	4	5
<b>ENERGY EFFICIENCY &amp; ACOUSTIC VALUES WITH OUTDOOR SENSOR</b>						
<b>Energy class - Heating (35°C/55°C) - Pure water</b>	-	<b>A+++ / A+++</b>	<b>A+++ / A+++</b>	<b>A+++ / A+++</b>	<b>A+++ / A+++</b>	<b>A+++ / A+++</b>
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
<b>Energy class - Heating (35°C/55°C) - Brine</b>	-	<b>A++ / -</b>	<b>A++ / -</b>	<b>A++ / -</b>	<b>A+++ / A++</b>	<b>A+++ / A++</b>
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	%	<b>157 / -</b>	<b>155 / -</b>	<b>166 / -</b>	<b>179 / 142</b>	<b>179 / 136</b>
Annual energy consumption - Heating (35°C/55°C) - brine	kWh	3369 / -	4074 / -	5644 / -	6386 / 7546	8604 / 10337
Acoustic level (indoor) <sup>(1)</sup>	dB(A)	56	57	56	55	55
<b>MAIN CHARACTERISTICS</b>						
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
<b>MODULE</b>						
Noise level <sup>(2)</sup>	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)

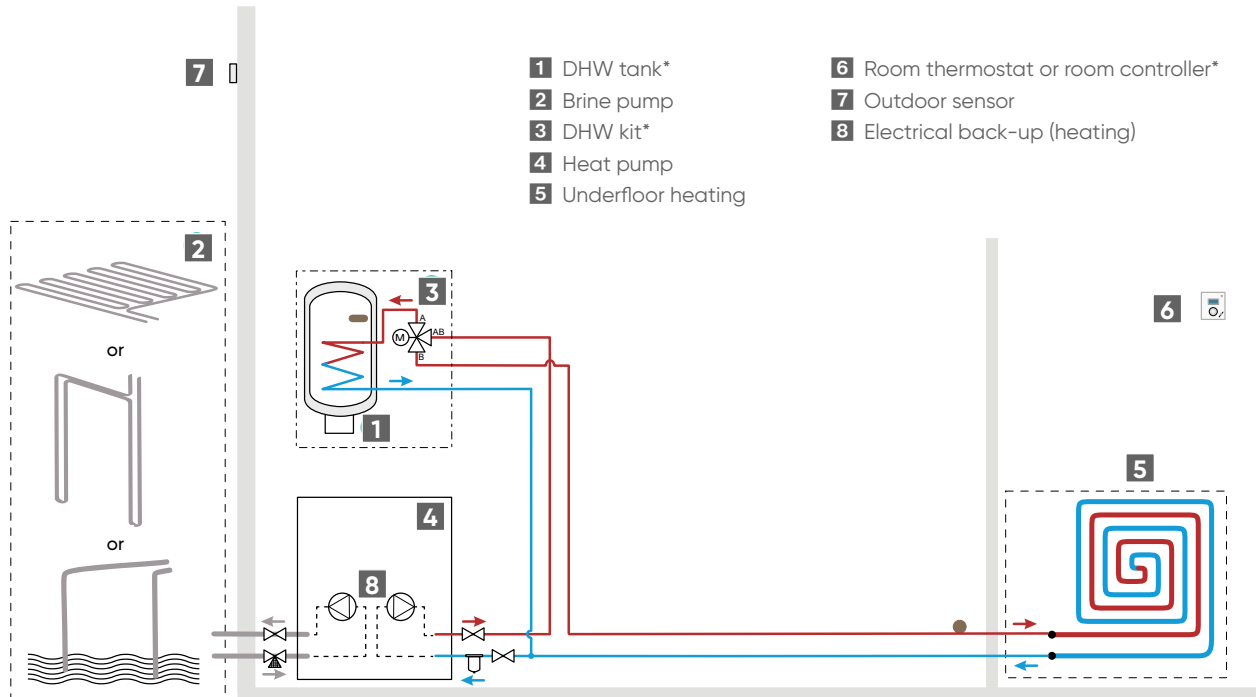


\*Depending on models

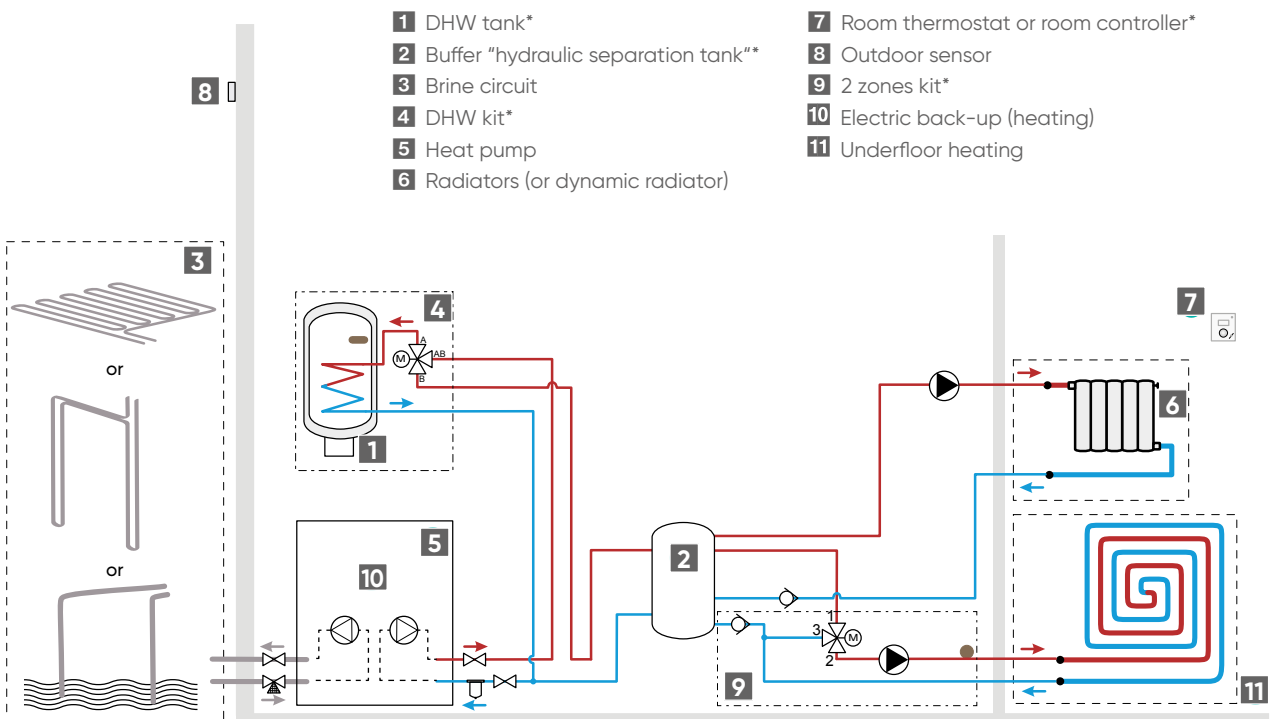
# Atlantic Geolia

## INSTALLATION SCHEMATICS

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



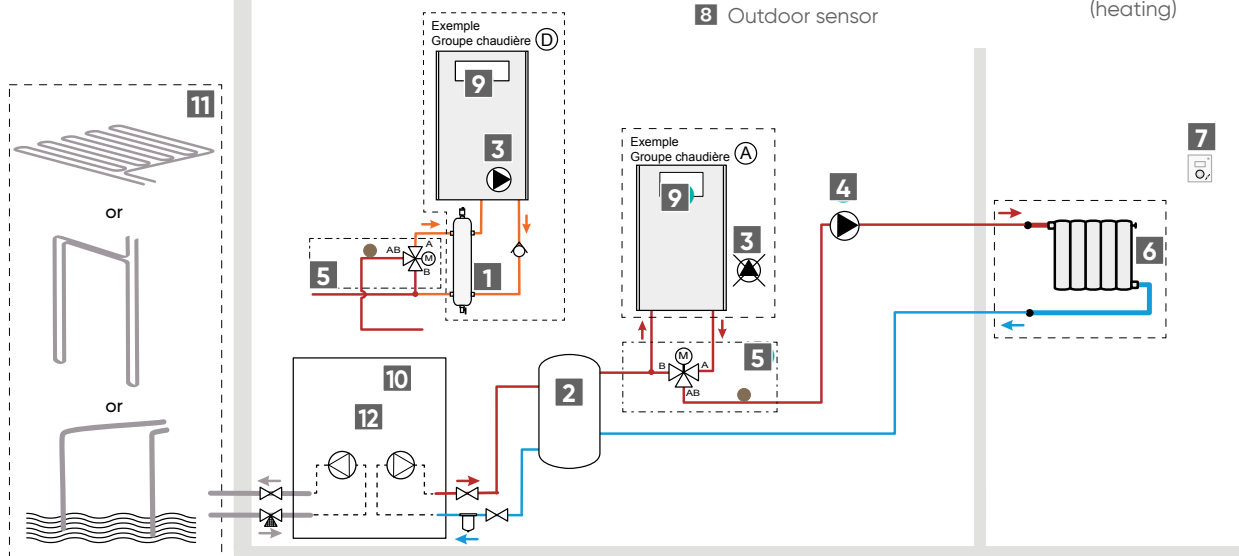
### ATLANTIC GEOLIA: 2 ZONES + DHW TANK



\*Optional

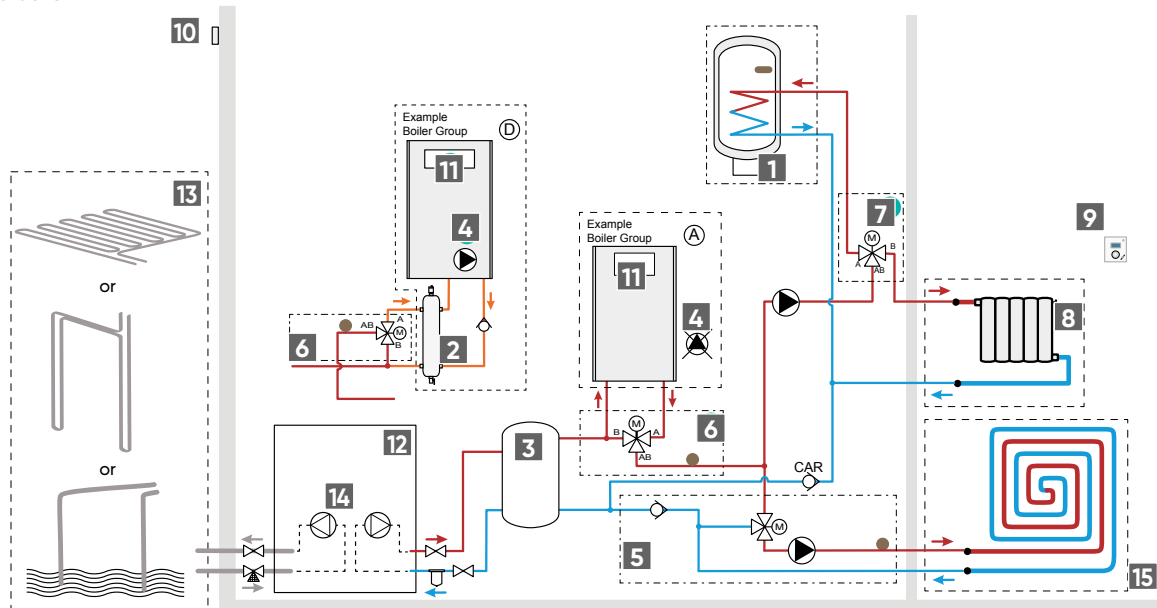
## ATLANTIC GEOLIA: 1 ZONE + BOILER CONNECTION

- |   |                                       |                                    |
|---|---------------------------------------|------------------------------------|
| 1 Hydraulic separator bottle                | 4 Heating circulator pump             | 9 Terminals boiler room thermostat |
| 2 Buffer "hydraulic separation tank"        | 5 Boiler connection kit*              | 10 Heat pump                       |
| 3 Heating circulator pump built into boiler | 6 Radiator (or dynamic radiator)      | 11 Brine pump                      |
|   | 7 Room thermostat or room controller* | 12 Electric back-up (heating)      |
|   | 8 Outdoor sensor                      |                                    |



## ATLANTIC GEOLIA: 2 ZONES + DHW TANK + BOILER CONNECTION

- |   |                                  |                                       |                               |
|---|----------------------------------|---------------------------------------|-------------------------------|
| 1 DHW tank*                                 | 5 2 zones kit*                   | 9 Room thermostat or room controller* | 13 Brine pump                 |
| 2 Hydraulic separator bottle*               | 6 Boiler connection kit*         | 10 Outdoor sensor                     | 14 Electric back-up (heating) |
| 3 Buffer "hydraulic separation tank"        | 7 DHW kit*                       | 11 Terminals boiler room thermostat   | 15 Underfloor heating         |
| 4 Heating circulator pump built into boiler | 8 Radiator (or dynamic radiator) | 12 Heat pump                          |                               |



\*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

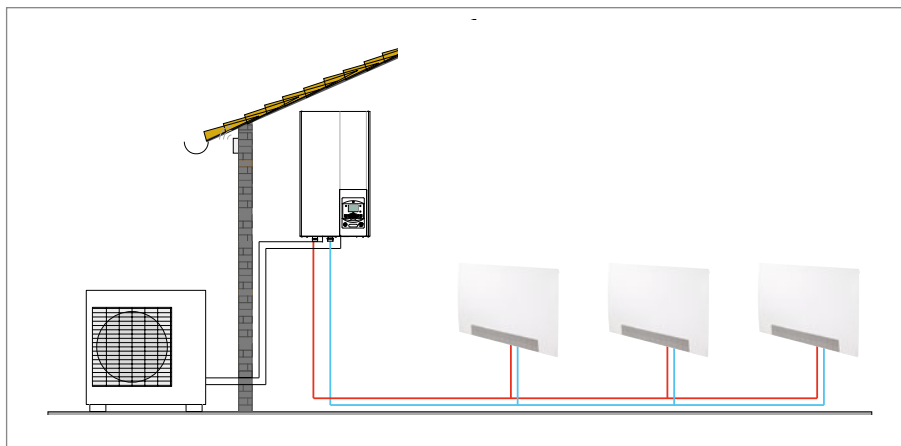
## TECHNICAL CHARACTERISTICS

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 <sup>(1)</sup>	W	120		190		290	
ACOUSTIC CHARACTERISTICS							
Power	dB(A)	37	42	37	42	37	43
Pressure <sup>(2)</sup>	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	

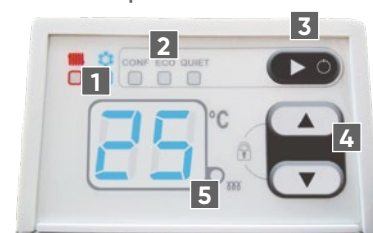
(1) Heating panel electric power

(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]

# 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 air treatment, 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 2020 key figures: 10 300 employees; 28 industrial sites; €2.2 bn net turnover.

**Thermal comfort is life / Thermal comfort for all**



[groupe-atlantic.com](https://groupe-atlantic.com)

# atlantic

[www.atlantic-comfort.com](http://www.atlantic-comfort.com)

**ATLANTIC INTERNATIONAL**

2 Allée S. Pénillault-Crapez  
94110 Arcueil  
FRANCE

Tel.: +(33)1.46.83.60.00

Fax: +(33)1.46.83.60.01

