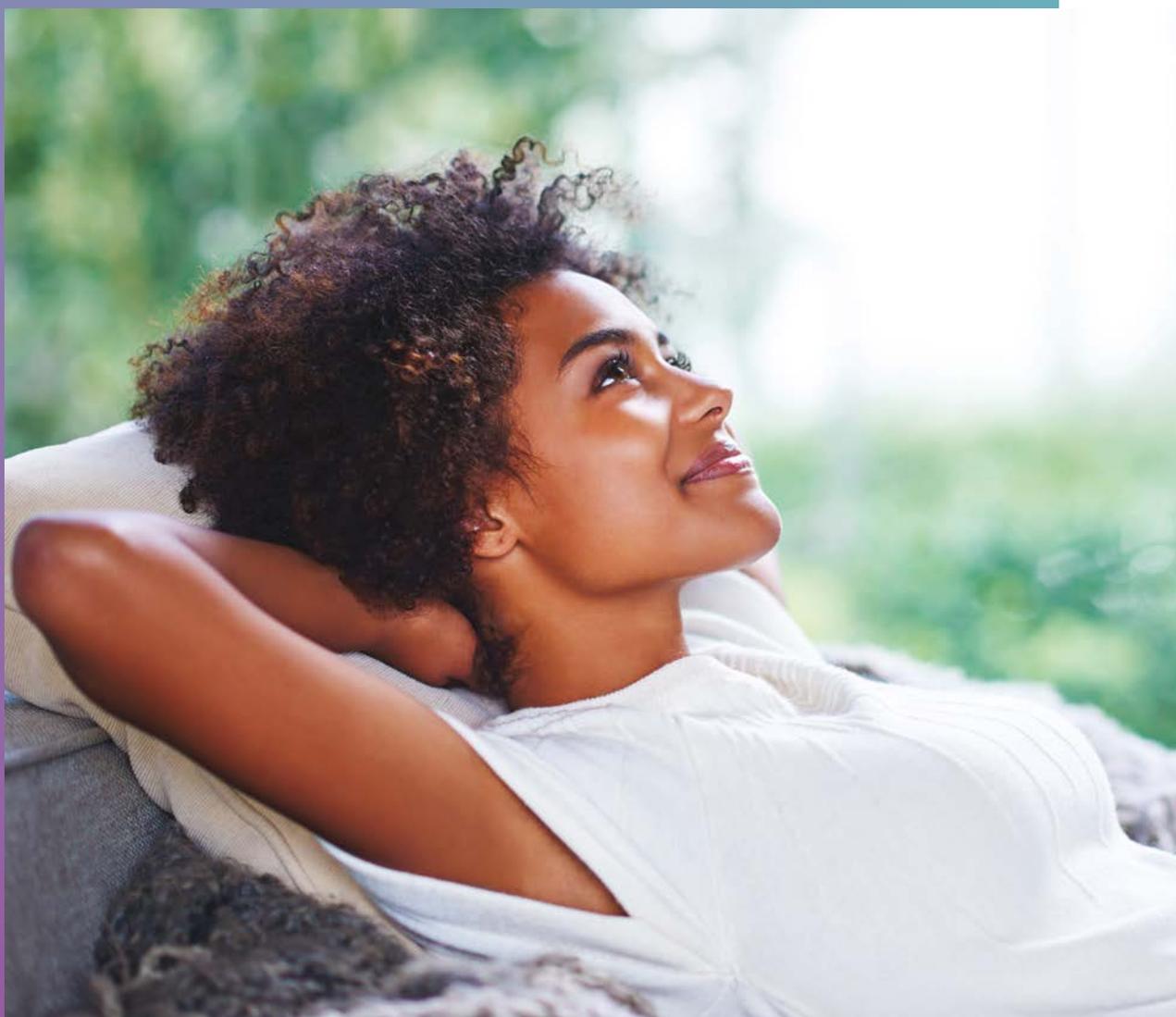


# Heat pumps & renewable energy solutions

2018/2019



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



/ A GROUPE ATLANTIC BRAND

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



- / **13 strategic** and leading brands
- / **7100 employees** including 3200 outside of France
- / **23 industrial sites:** 11 in France and 12 in several other countries
- / **€1,66 bn in turnover,** 40 % of which is generated outside of France
- / **4 % of turnover** allocated to R&D

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



# Worldwide expert in thermal comfort solutions

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

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

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

## LATEST KEY FACTS:

- 2018** Opening of a representative office in Vietnam
- 2017** Factory opening in Georgia for electric water heaters manufacturing
- 2016** Opening of a representative office in UAE  
Creation of German subsidiary Austria Email GmbH
- 2015** Factory opening in France for heat pumps and boilers manufacturing  
Acquisition of a UK market leader for wall-mounted condensing gas boilers and commercial gas boilers
- 2014** Factory opening in Thailand for electric water heaters manufacturing

## ATLANTIC PRODUCTS PORTFOLIO: The most extensive range to benefit customers



## ATLANTIC FACTORIES AROUND THE WORLD



•11 industrial sites in France  
•12 industrial sites abroad preserving French know-how

# Contents



## Air-to-water heat pumps

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- Wall-In..... p.54



## Ground source heat pumps

- Atlantic Geolia range presentation..... p.56



## Fan coils for heating and cooling

- Panama Access ..... p.62



# Atlantic heat pumps

## Split air-to-water heat pumps

	Alfea Extensa 	Alfea Extensa Duo 	Alfea Excellia 	Alfea Excellia HP 	Alfea Excellia Duo 	Alfea Excellia Duo HP 	Alfea Hybrid Duo Oil 
							
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	Optional
DOMESTIC HOT WATER	Optional	Standard supply	Optional	Optional	Standard supply	Standard supply	Standard supply
COOLING	Optional	Optional	Optional	Optional	Optional	Optional	Optional
BOILER CONNECTION	Optional	Optional	Optional	Optional	Optional	Optional	Standard supply (23 kW or 29 kW)
ELECTRIC BACK-UP HEATING	Standard supply***	Standard supply***	Standard supply***	Standard supply***	Standard supply***	Standard supply***	-
ENERGY CLASS HEATING (35 °C/55 °C)							- / 
ENERGY CLASS DHW	-		-	-			

\*23 kW boiler only. \*\*6 kW and 8 kW models only. \*\*\* Models available with optional electric back-up heating  Single-phase 230 V  Three-phase 400 V  
\*\*\*\* Depending on models and types of collectors

	Split air-to-water heat pumps			Monobloc air-to-water heat pumps	Ground source heat pumps
	Alfea Hybrid Duo Gas	Loria	Loria Duo	Aurea M 	Atlantic Geolia
					
					
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	Optional	Standard supply	Optional	Optional
COOLING	Optional**	Optional	Optional	Standard supply	Optional
BOILER CONNECTION	Standard supply	-	-	Optional	Optional
ELECTRIC BACK-UP HEATING	-	Standard supply	Standard supply	Optional	Standard supply
ENERGY CLASS HEATING (35°C/55°C)	- / 	Up to  / 	Up to  / 	 / 	Up to 
ENERGY CLASS DHW		-		-	-

# 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

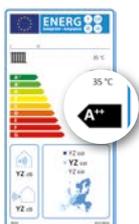
**Ecodesign** defines the acceptable energy efficiency levels, as well as environmental requirements for energy-related products. Therefore, heating and water heating products must comply with all Ecodesign requirements in order to get the CE mark and be sold within the European Union market.

### 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).

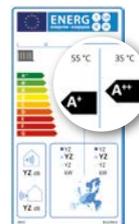
## WHAT'S NEW IN 2018

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%).

# 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 G) which are common for all products.

Moreover, the product label for heat pumps has a seasonal energy efficiency indicator for different climate areas, in order to give a full picture of the product's energy efficiency

## WHAT IS THE SYSTEM LABEL?

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

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

The diagram illustrates an Energy Label for a heating system. It features a blue header with the European Union flag, the word 'ENERG' in large letters, and translations in Russian (энергия) and Greek (ενέργεια). Below the header, the supplier's name 'atlantic' is shown, along with the product's name 'alféa excellia A.I. 11' and 'alféa excellia A.I. tri 14'. The label also indicates the product's function (heating only, or heating and water heating) and the product's energy class (A<sup>++</sup>). A central feature is a vertical energy class scale from A<sup>+++</sup> to G, with the system's energy class (A<sup>++</sup>) highlighted. To the left of the scale, there are icons for solar collectors, hot water storage tank, thermo-regulating device, and supplementary heater, each with a plus sign and a checkbox. The label also includes the year '2015' and '811 / 2013'.

Supplier's name or trademark → atlantic

Product's name or reference → alféa excellia A.I. 11  
alféa excellia A.I. tri 11  
alféa excellia A.I. tri 14

Product's function (heating only, or heating and water heating) → 35 °C

Product's energy class (A<sup>++</sup> for Alféa Excellia A.I. 35°) → A<sup>++</sup>

Solar collectors → + [ ]

Hot water storage tank → + [ ]

Thermo-regulating device → + [✓]

Supplementary heater → + [ ]

System's energy class (A<sup>++</sup> for Alféa Excellia A.I. 35° connected with thermo-regulating device) → A<sup>++</sup>

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

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

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.



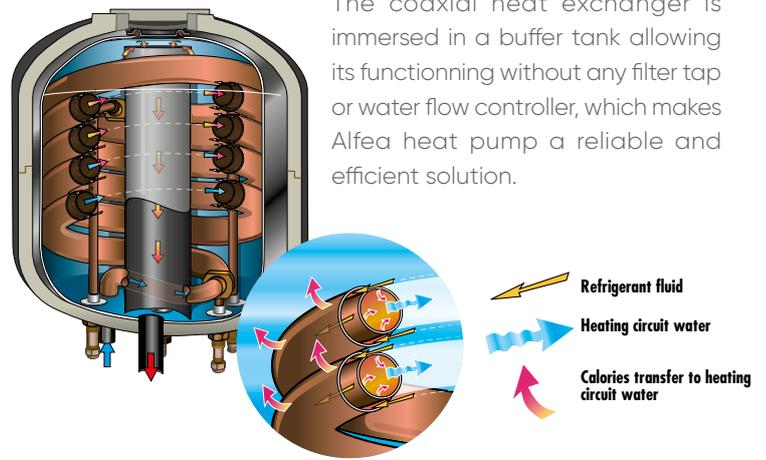
## ATLANTIC TECHNOLOGIES



### 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 or water flow controller, which makes Alfea heat pump a reliable and efficient solution.



### Hybrid technology: Atlantic latest innovation for optimum comfort and savings!

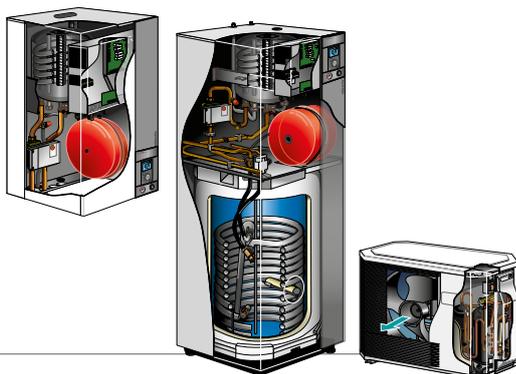
Atlantic is the first manufacturer to commercialise heat pump integrated with oil-fired boiler; it develops hybrid oil and gas solutions allowing heating and DHW production by integrating heat pump and boiler, in order to achieve 80°C working temperature for renovation projects.

## 55 °C Average temperature

Alfea Extensa **Qi** / Alfea Extensa Duo **Qi**

Simplicity and performance

Average temperature solution for all projects

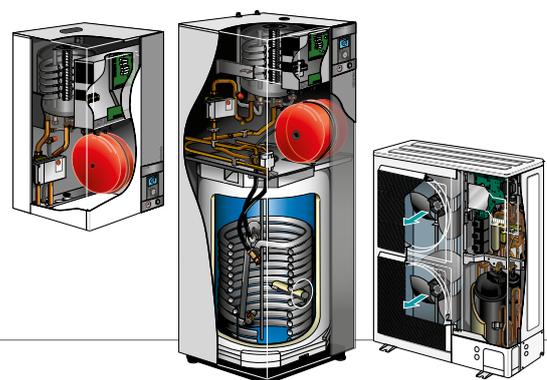


## 60 °C High performance

Alfea Excellia **Qi** / Alfea Excellia Duo **Qi**

High performance

High performance solution for renovation projects



# Alfea range

## Performances

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

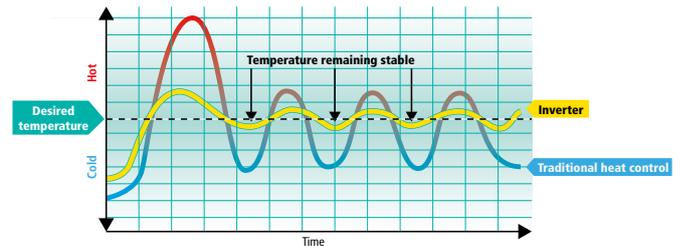
## Adaptability

- 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



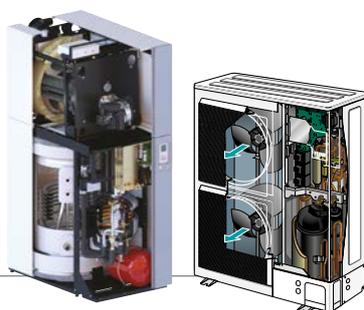
Available on   in selected countries

## 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



# Alfea Extensa

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
- Intuitive interface and simplified use

### 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

- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system

### AVAILABLE OPTIONS

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



35°C



55°C



Cozytouch

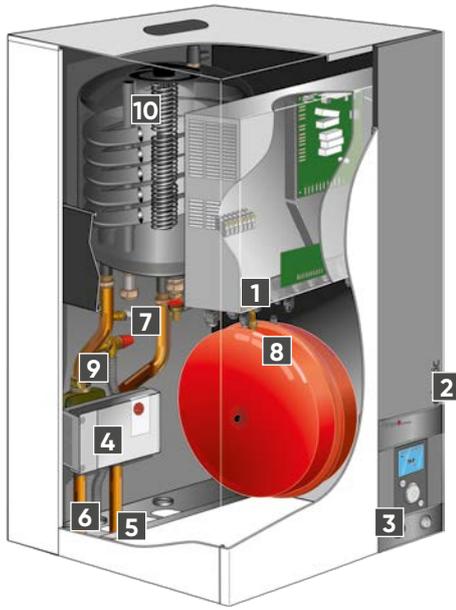


homecontrol\*



PATENTED EXCHANGER

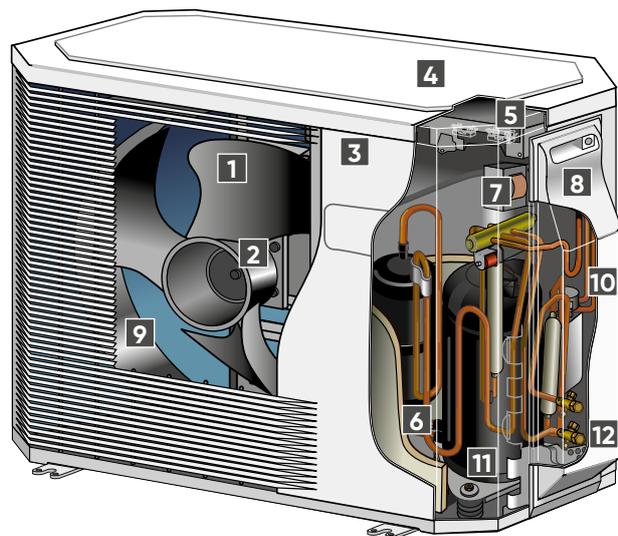
## INDOOR HYDRAULIC MODULE



- 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 terminals (power supply and interconnection)
- 6** Refrigerant accumulator bottle
- 7** Cycle reversing valve
- 8** Anti-corrosion treated metal cover
- 9** High-performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- 10** Electronic expansion valve
- 11** Noise and temperature insulated "Inverter" compressor
- 12** Refrigerating connection valves (flared connectors) with protective cover



## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ALFEA EXTENSA A.I. 5	ALFEA EXTENSA A.I. 6	ALFEA EXTENSA A.I. 8	ALFEA EXTENSA A.I. 10
<b>REFRIGERANT</b>		R410A	R410A	R410A	R410A
<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>
Rated heat power (35°C/55°C)	kW	4 / 4	5 / 5	7 / 6	8 / 8
Annual energy consumption - Heating (35°C/55°C)	kWh	2160 / 3027	2505 / 3180	3375 / 3886	4415 / 5415
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	<b>169 / 115</b>	<b>169 / 115</b>	<b>156 / 118</b>	<b>155 / 113</b>
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	171 / 117	171 / 117	158 / 120	157 / 115
Sound power level (indoor/outdoor) <sup>(1)</sup>	dB(A)	46 / 63	46 / 63	46 / 69	46 / 69
<b>MAIN CHARACTERISTICS</b>					
<b>SCOP 35 °C / 55 °C</b>	-	<b>4.3 / 2.95</b>	<b>4.3 / 2.95</b>	<b>3.97 / 3.02</b>	<b>3.95 / 2.90</b>
Heating capacity +7°C/+35°C - Underfloor Heating	kW	4.50	6.00	7.50	10.00
COP +7°C/+35°C - Underfloor Heating		4.52	4.26	4.08	4.02
Heating capacity -7°C/+35°C - Underfloor Heating	kW	4.10	4.60	5.70	7.40
COP -7°C/+35°C - Underfloor Heating		2.79	2.64	2.56	2.49
Heating capacity +7°C/+45°C - Low T°radiators	kW	4.50	5.10	6.20	8.27
COP +7°C/+45°C - Low T°radiators		3.44	3.40	3.32	3.27
Heating capacity -7°C/+45°C - Low T°radiators	kW	4.10	4.45	5.05	7.40
COP -7°C/+45°C - Low T°radiator		2.20	2.18	2.04	2.00
Heating capacity +7°C/+55°C - Radiators	kW	4.50	4.50	5.00	7.00
COP +7°C/+55°C - Radiators		2.51	2.51	2.58	2.45
Heating capacity -7°C/+55°C - Radiators	kW	3.70	3.85	5.20	7.00
COP -7°C/+55°C - Radiators		1.68	1.65	1.56	1.69
Additional electric back-up heater	kW	3	3	3	3
<b>INDOOR HYDRAULIC MODULE</b>					
Noise level <sup>(2)</sup>	dB(A)	39	39	39	39
Net weight/filled weight <sup>(3)</sup>	kg	46 / 62	46 / 62	46 / 62	46 / 62
Power supply		230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
<b>OUTDOOR UNIT</b>					
Noise level <sup>(4)</sup>	dB(A)	41	41	47	47
Operating weight	kg	41	41	42	60
<b>REFRIGERANT CHARACTERISTICS</b>					
Min./max. length	m	5 / 30	5 / 30	5 / 30	5 / 30
Max. difference in height	m	20	20	20	20
R410A factory load	g	1100	1100	1400	1800
Quantity of refrigerant in tons of CO <sub>2</sub> equivalent	t	2	2	3	4

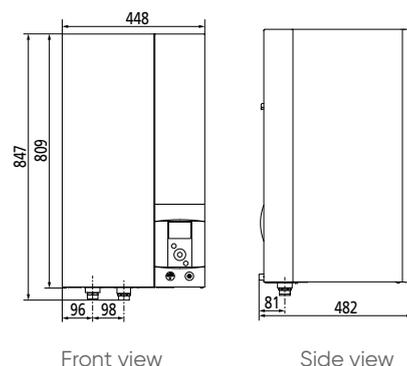
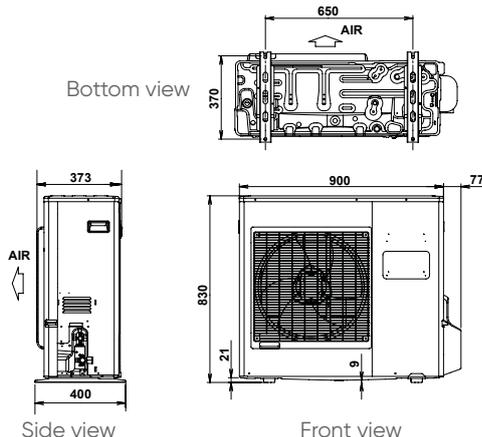
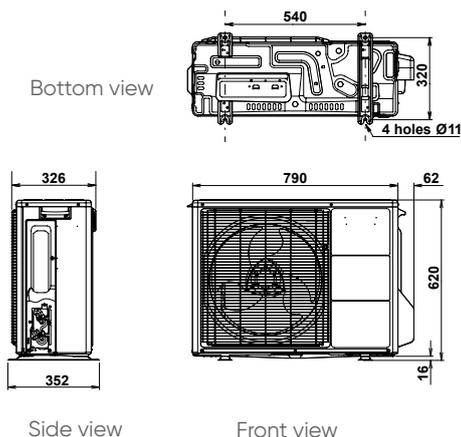
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

## INSTALLATION DIMENSIONS (MM)

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

Outdoor Inverter unit  
Alfea Extensa A.I. 10

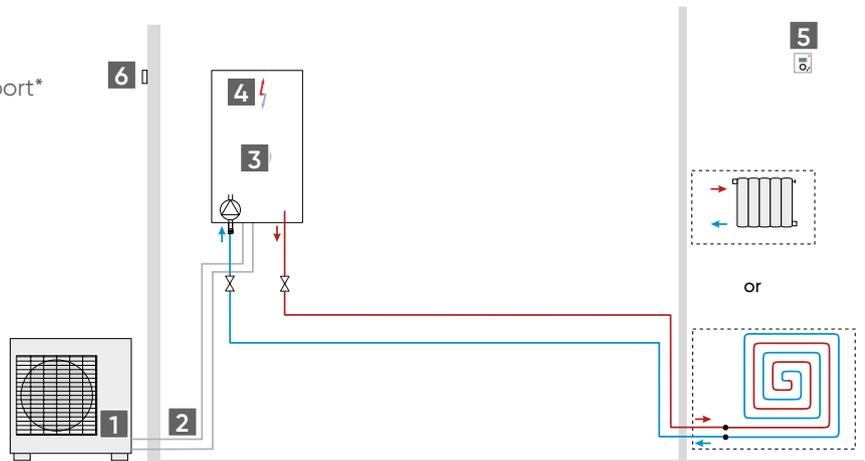
Indoor hydraulic  
module



# INSTALLATION SCHEMATICS

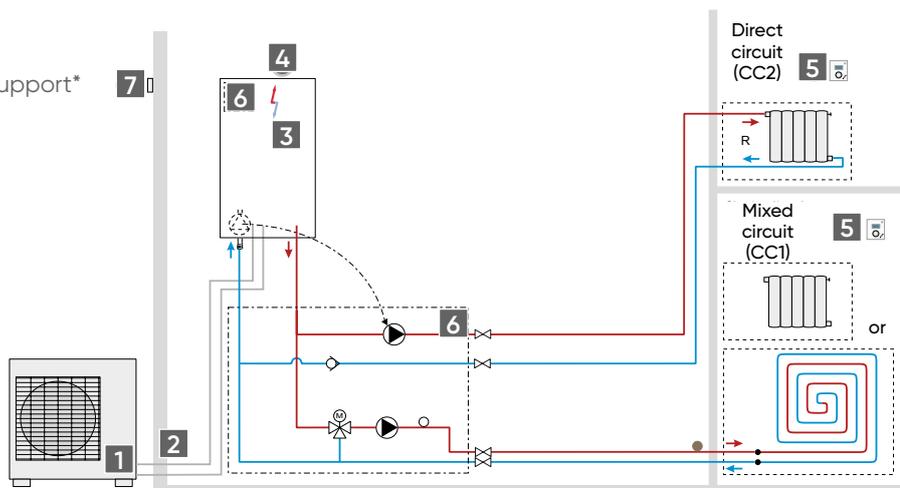
## ALFEA EXTENSA A.I.: 1 HEATING ZONE

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



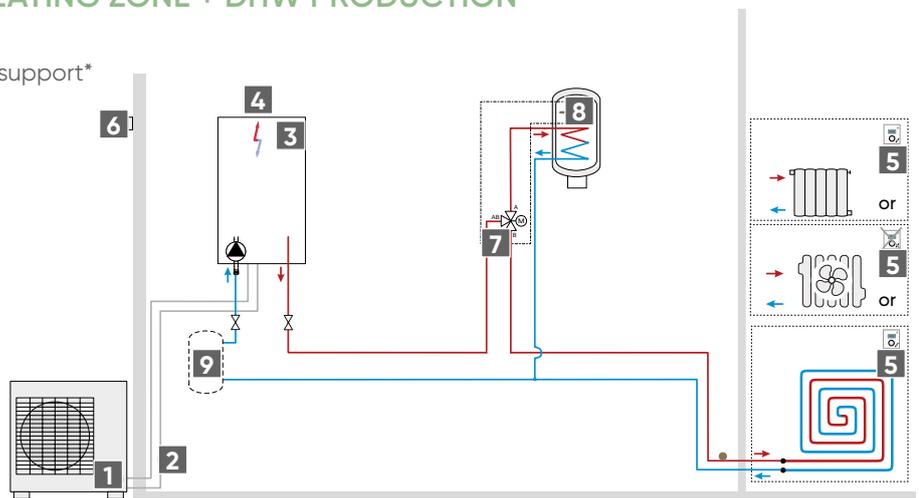
## ALFEA EXTENSA A.I.: 2 HEATING ZONES

- 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 Outdoor sensor



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

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



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

# Alfea Extensa Duo

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



Remote piloting



## BENEFITS

- Robust hydraulic conception due to patented coaxial heat exchanger
- Intuitive interface and simplified use

### DESCRIPTION

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

- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system
- DHW tank with high-performance regulation

### AVAILABLE OPTIONS

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



35°C



55°C



Cozytouch

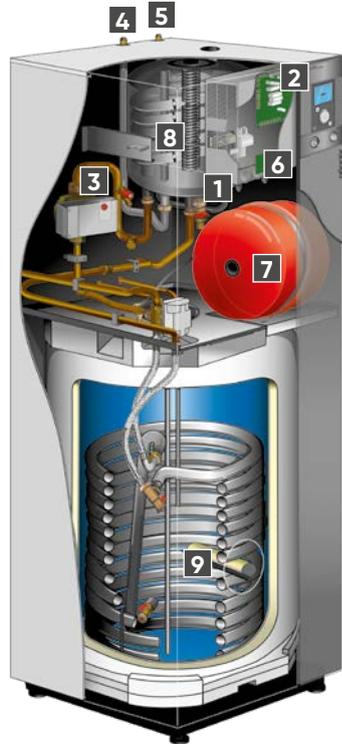


homecontrol®



PATENTED EXCHANGER

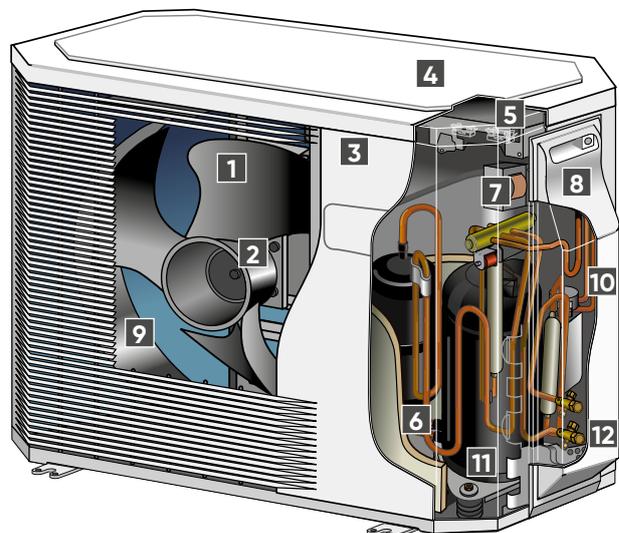
## INDOOR HYDRAULIC MODULE



- 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



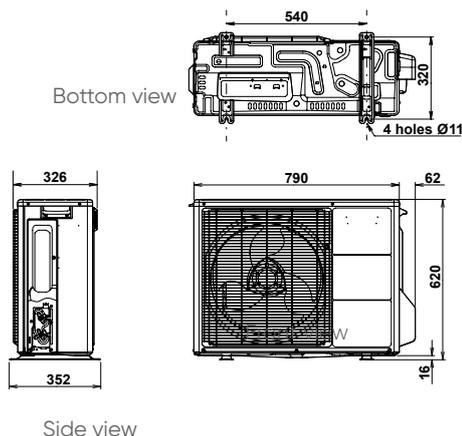
## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ALFEA EXTENSA DUO A.I. 5	ALFEA EXTENSA DUO A.I. 6	ALFEA EXTENSA DUO A.I. 8	ALFEA EXTENSA DUO A.I. 10
<b>REFRIGERANT</b>		R410A	R410A	R410A	R410A
<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>
Rated heat power (35°C/55°C)	kW	4 / 4	5 / 5	7 / 6	8 / 8
Annual energy consumption - Heating (35°C/55°C)	kWh	2160 / 3027	2505 / 3180	3375 / 3886	4415 / 5415
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	<b>169 / 115</b>	<b>169 / 115</b>	<b>156 / 118</b>	<b>155 / 113</b>
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	171 / 117	171 / 117	158 / 120	157 / 115
Sound power level (indoor/outdoor) <sup>(1)</sup>	dB(A)	46 / 63	46 / 63	46 / 69	46 / 69
Declared load profile - DHW	-	L	L	L	L
<b>Energy class - DHW</b>	-	<b>A+</b>	<b>A+</b>	<b>A+</b>	<b>A+</b>
Annual energy consumption - DHW	kWh	880	880	880	880
<b>Seasonal energy efficiency (%) - DHW</b>	%	<b>120</b>	<b>120</b>	<b>120</b>	<b>120</b>
<b>MAIN CHARACTERISTICS</b>					
<b>SCOP 35 °C / 55 °C</b>	-	<b>4.3 / 2.95</b>	<b>4.3 / 2.95</b>	<b>3.97 / 3.02</b>	<b>3.95 / 2.90</b>
Heating capacity +7°C/+35°C – Underfloor Heating	kW	4.50	6.00	7.50	10.00
COP +7°C/+35°C - Underfloor Heating		4.52	4.26	4.08	4.02
Heating capacity -7°C/+35°C – Underfloor Heating	kW	4.10	4.60	5.70	7.40
COP -7°C/+35°C - Underfloor Heating		2.79	2.64	2.56	2.49
Heating capacity +7°C/+45°C – Low T°radiators	kW	4.50	5.10	6.20	8.27
COP +7°C/+45°C – Low T°radiators		3.44	3.40	3.32	3.27
Heating capacity -7°C/+45°C – Low T°radiators	kW	4.10	4.45	5.05	7.40
COP -7°C/+45°C – Low T°radiator		2.20	2.18	2.04	2.00
Heating capacity +7°C/+55°C - Radiators	kW	4.50	4.50	5.00	7.00
COP +7°C/+55°C - Radiators		2.51	2.51	2.58	2.45
Heating capacity -7°C/+55°C - Radiators	kW	3.70	3.85	5.20	7.00
COP -7°C/+55°C - Radiators		1.68	1.65	1.56	1.69
Additional electric back-up heater	kW	3	3	3	3
<b>INDOOR HYDRAULIC MODULE</b>					
Noise level <sup>(2)</sup>	dB(A)	39	39	39	39
Net weight/filled weight <sup>(3)</sup>	kg	155 / 373	155 / 373	155 / 373	155 / 373
Power supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50
<b>OUTDOOR UNIT</b>					
Noise level <sup>(4)</sup>	dB(A)	41	41	47	47
Operating weight	kg	41	41	42	60
<b>REFRIGERANT CHARACTERISTICS</b>					
Min./max. length	m	5 / 30	5 / 30	5 / 30	5 / 30
Max. difference in height	m	20	20	20	20
R410A factory load	g	1100	1100	1400	1800
Quantity of refrigerant in tons of CO <sub>2</sub> equivalent	t	2	2	3	4

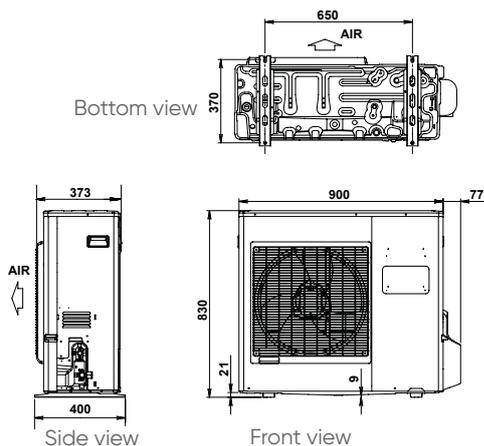
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

## INSTALLATION DIMENSIONS (MM)

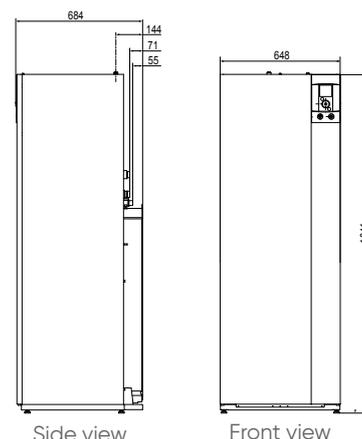
Outdoor Inverter unit  
Alfea Extensa Duo A.I. 5, 6 and 8



Outdoor Inverter unit  
Alfea Extensa Duo A.I. 10



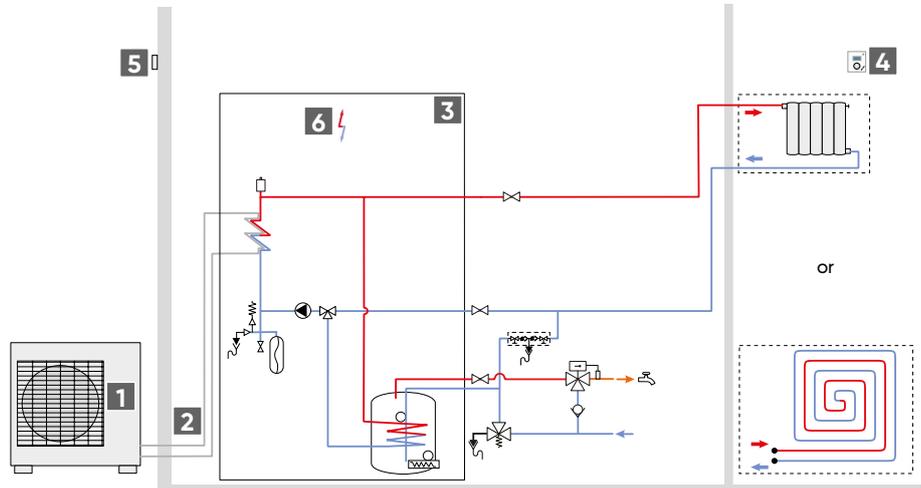
Indoor hydraulic  
module



# INSTALLATION SCHEMATICS

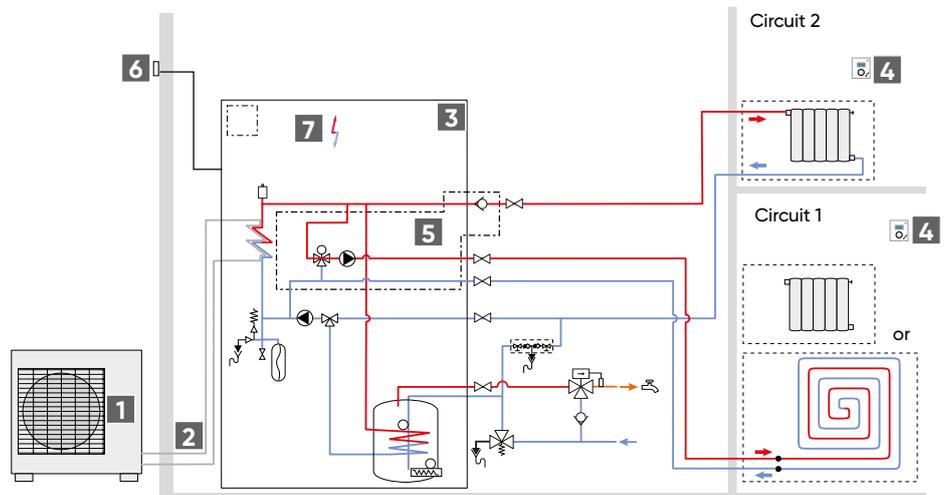
## ALFEA EXTENSA DUO A.I.: 1 HEATING ZONE

- 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 water heater



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

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



\*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)

## INNOVATION

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



## AVAILABLE OPTIONS

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



35°C



55°C



Cozytouch

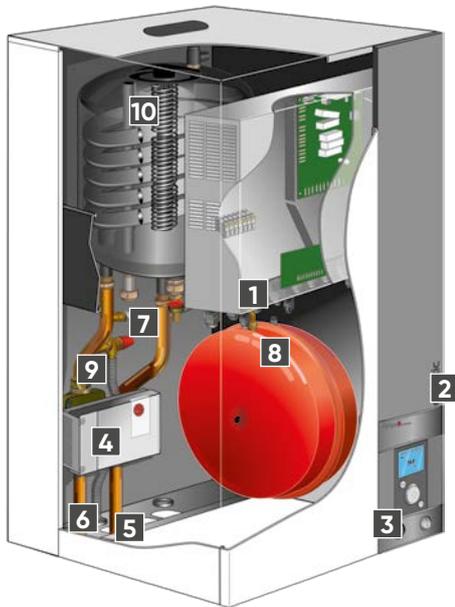


homecontrol\*



PATENTED EXCHANGER

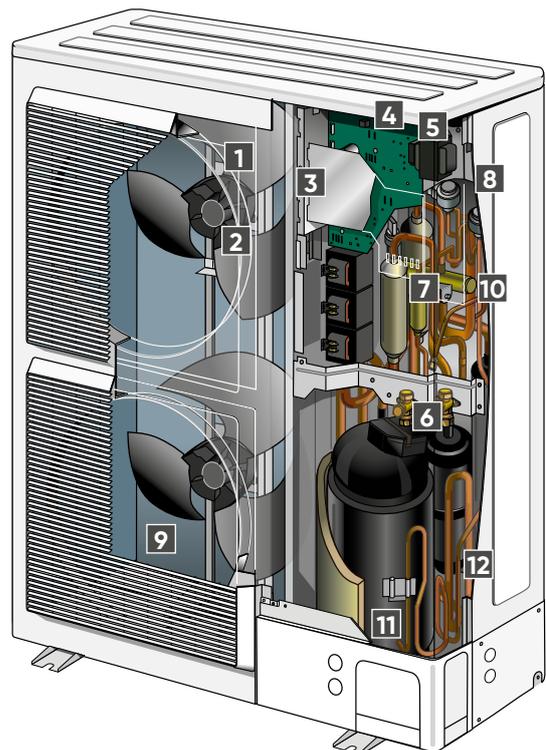
## INDOOR HYDRAULIC MODULE



- 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



\*Depending on models

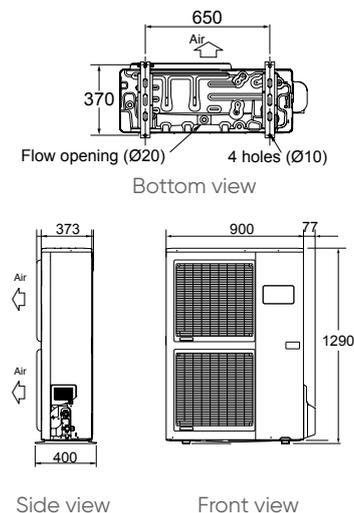
## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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

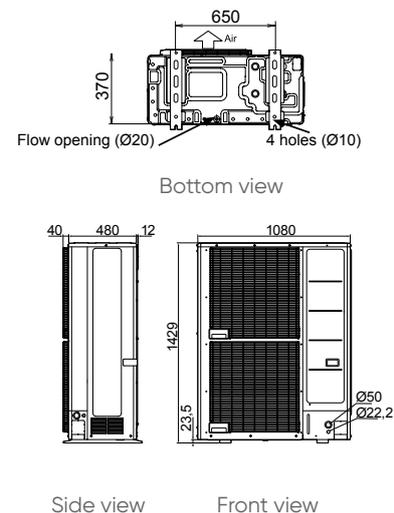
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

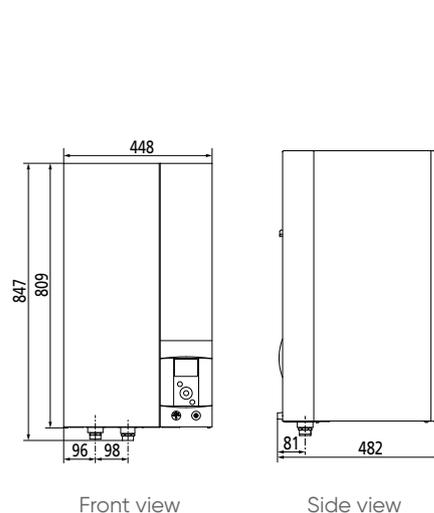
Outdoor Inverter unit Alfea Excellia A.I. 11 and 14 single-phase, 11, 14 and 16 three-phase



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



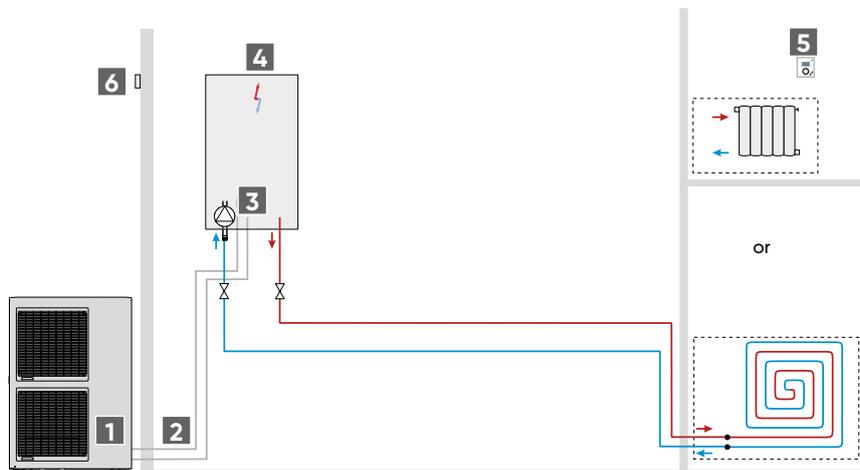
Indoor hydraulic module



# INSTALLATION SCHEMATICS

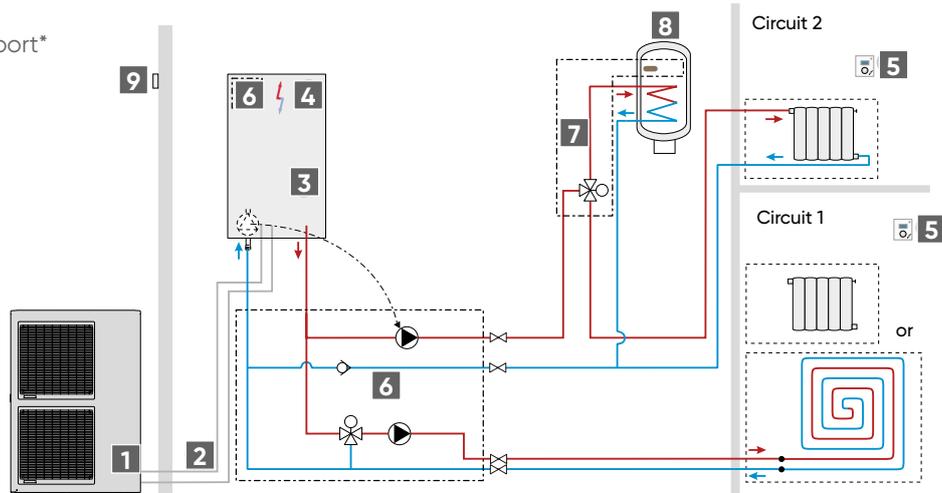
## ALFEA EXCELLIA A.I. (+ HP MODELS): 1 HEATING ZONE

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



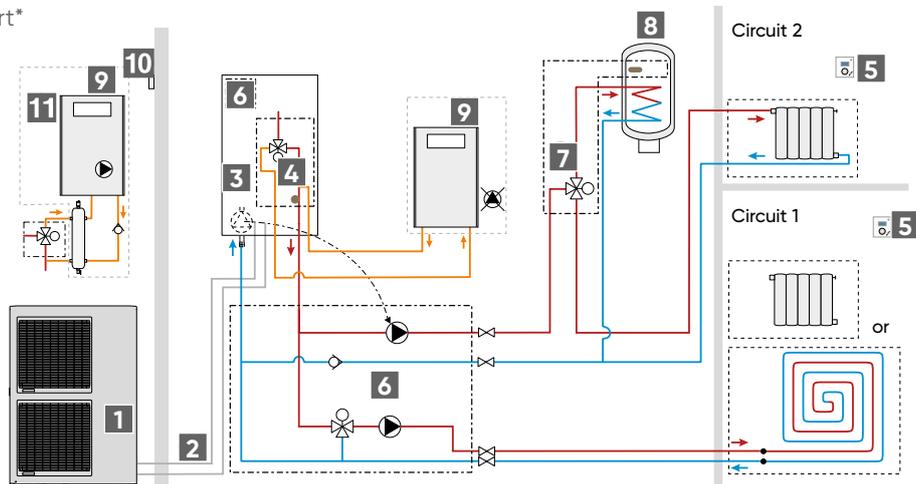
## ALFEA EXCELLIA A.I. (+ HP MODELS): 2 HEATING ZONES + DHW PRODUCTION

- 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



\*Optional

# 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)

## INNOVATION

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



## AVAILABLE OPTIONS

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



35°C



55°C



Cozytouch

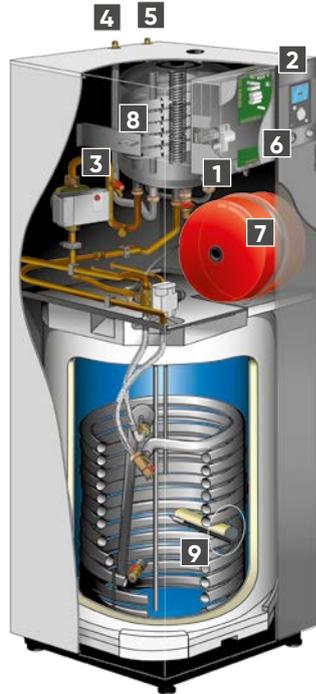


homecontrol\*



PATENTED EXCHANGER

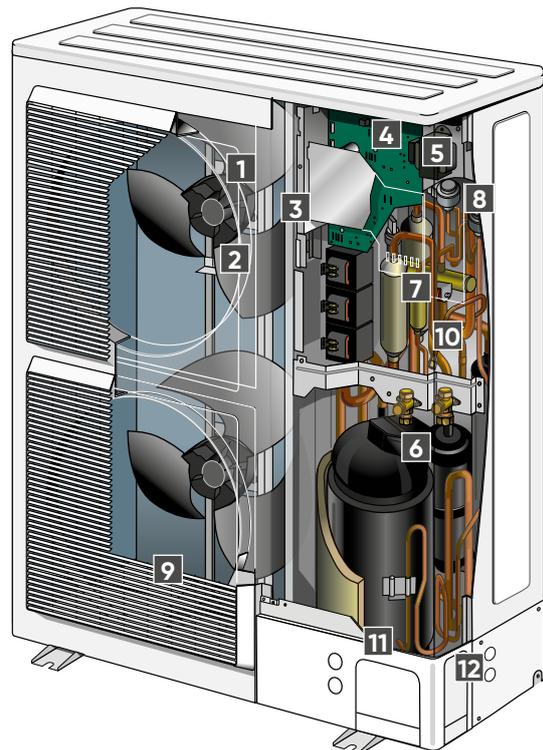
## INDOOR HYDRAULIC MODULE



- 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



\*Depending on models

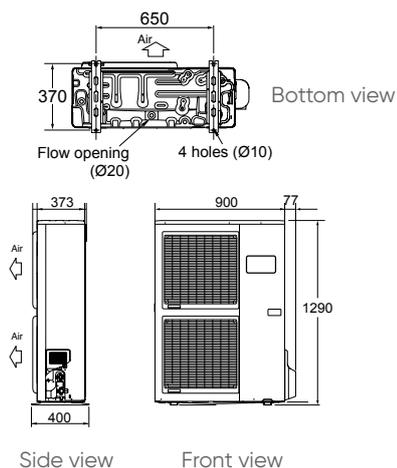
## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	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	

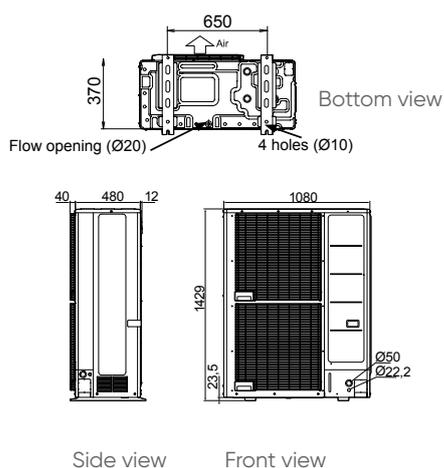
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

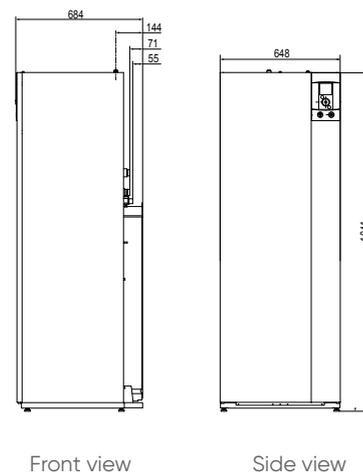
Outdoor Inverter unit Alfea Excellia Duo A.I. 11 and 14 single-phase, 11, 14 and 16 three-phase



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



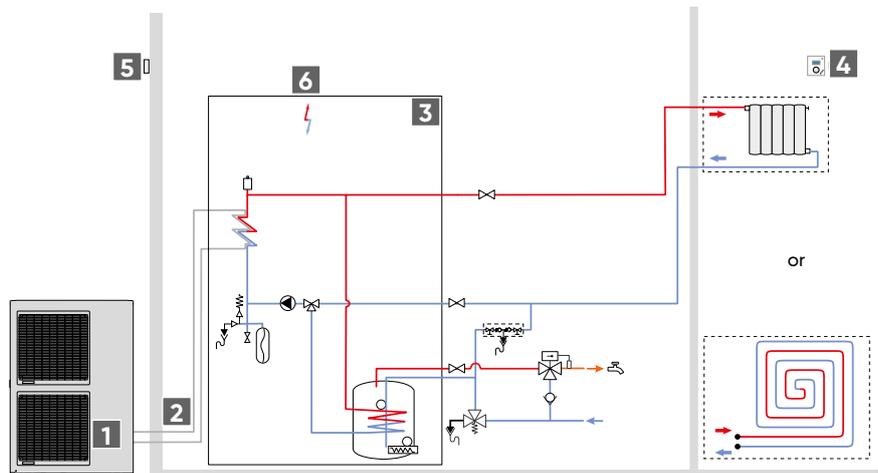
Indoor hydraulic module



# INSTALLATION SCHEMATICS

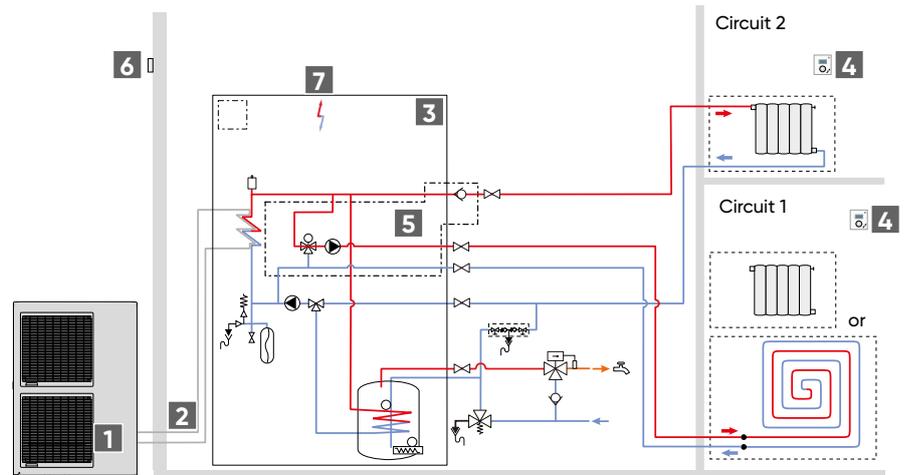
## ALFEA EXCELLIA DUO A.I. (+ HP MODELS): 1 HEATING ZONE

- 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



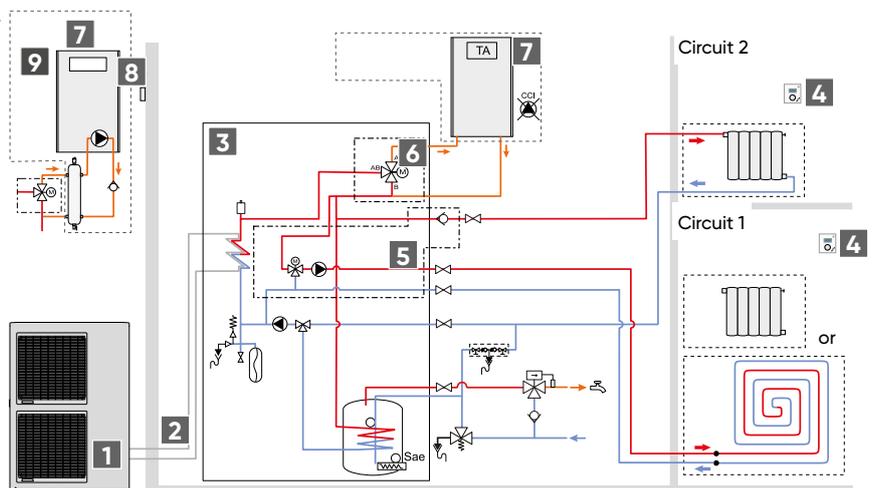
## ALFEA EXCELLIA DUO A.I. (+ HP MODELS): 2 HEATING ZONES

- 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



\*Optional

# Alfea Hybrid Duo Oil

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



Remote piloting



## 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)



55°C

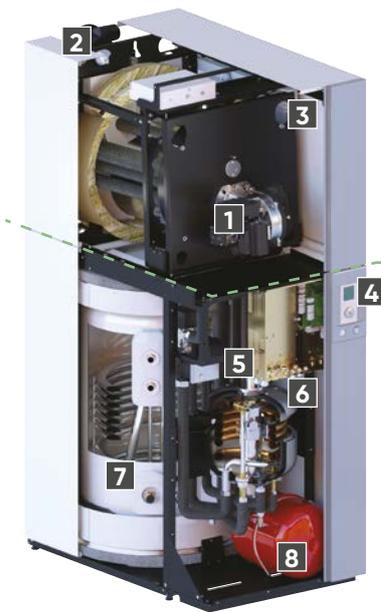
Cozytouch

homecontrol®

HYBRID  
Technology

PATENTED  
EXCHANGER

## INDOOR HYDRAULIC MODULE



### Condensing oil burner

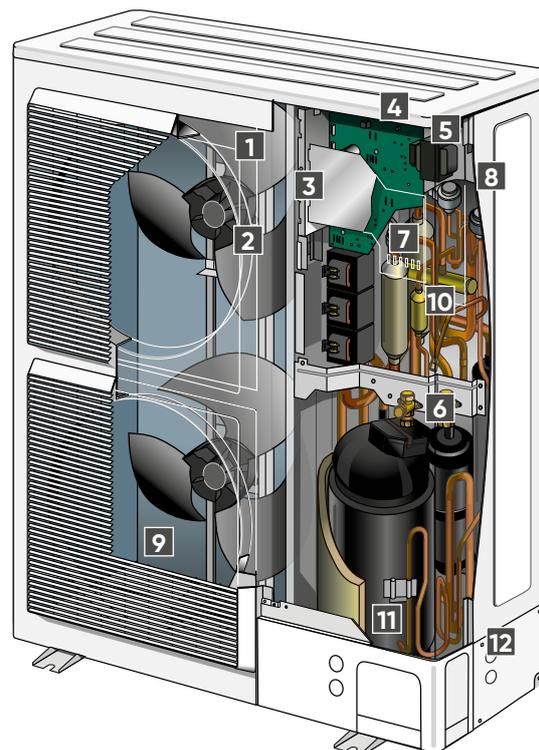
- 1 Oil burner
- 2 Chimney and room sealed models
- 3 Easy access to lifting bars

### 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

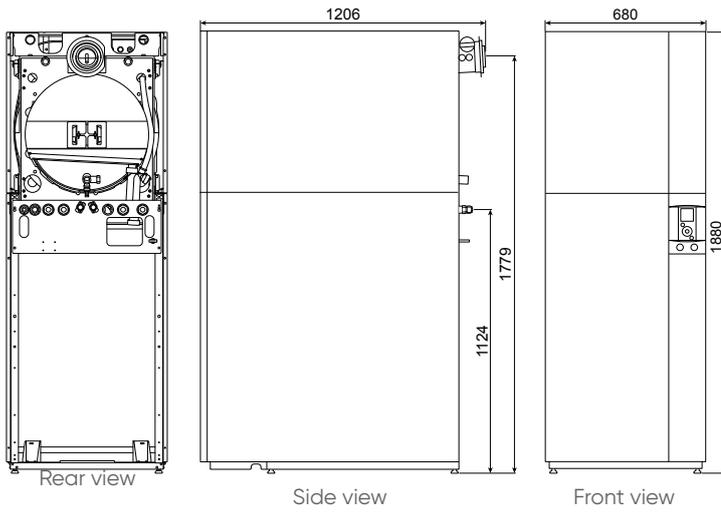
	UNIT	ALFEA HYBRID DUO OIL A.I. 6 – 23 KW	ALFEA HYBRID DUO OIL A.I. 8 – 23 KW	ALFEA HYBRID DUO OIL A.I. 11 – 23 KW	ALFEA HYBRID DUO OIL A.I. 14 – 23 KW
<b>REFRIGERANT</b>		R410A	R410A	R410A	R410A
<b>ENERGY EFFICIENCY CHARACTERISTICS – HEATING – AVERAGE CLIMAT</b>					
<b>Energy class - Heating (55°C)</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>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

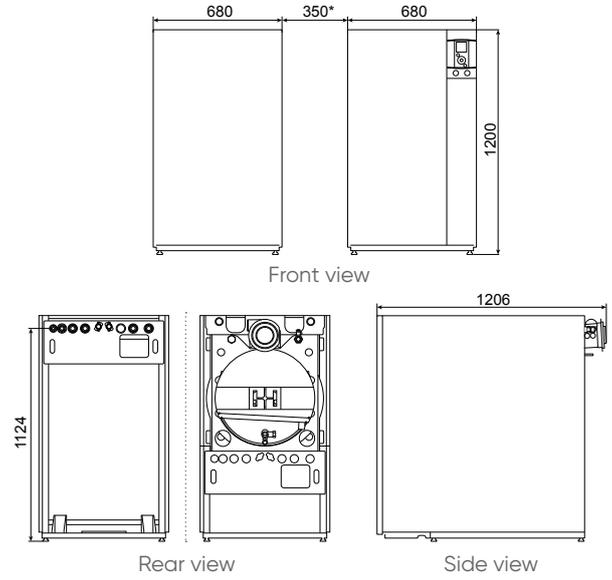
ALFEA HYBRID DUO OIL A.I. TRI 11 – 23 KW	ALFEA HYBRID DUO OIL A.I. TRI 14 – 23 KW	ALFEA HYBRID DUO OIL A.I. T1 – 29 KW	ALFEA HYBRID DUO OIL A.I. 14 – 29 KW	ALFEA HYBRID DUO OIL A.I. TRI 11 – 29 KW	ALFEA HYBRID DUO OIL A.I. TRI 14 – 29 KW
R410A	R410A	R410A	R410A	R410A	R410A
<b>A++ / A+</b>	<b>A++ / A+</b>	<b>A++ / A+</b>	<b>A++ / A+</b>	<b>A++ / A+</b>	<b>A++ / A+</b>
13 / 11	13 / 11	11 / 9	11 / 9	13 / 11	13 / 11
<b>5930 / 6669</b>	<b>6738 / 7803</b>	<b>6062 / 6623</b>	<b>6824 / 8041</b>	<b>5930 / 6669</b>	<b>6738 / 7803</b>
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
<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>	<b>A</b>
1166	1166	1166	1166	1166	1166
<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>	<b>88</b>
<b>3,92 / 2,87</b>	<b>3,82 / 3,00</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>
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)

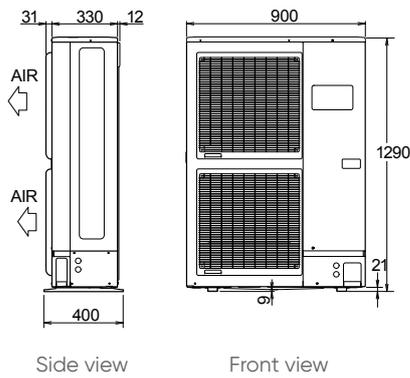
On-top indoor hydraulic module



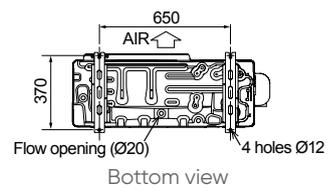
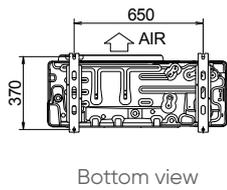
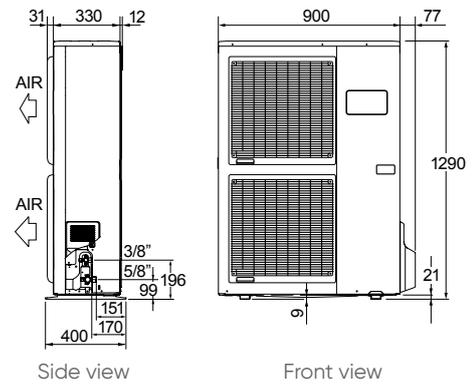
Side-by-side indoor hydraulic module



Outdoor Inverter unit Alfea Hybrid Duo Oil A.I. 9, 11, 14 single-phase



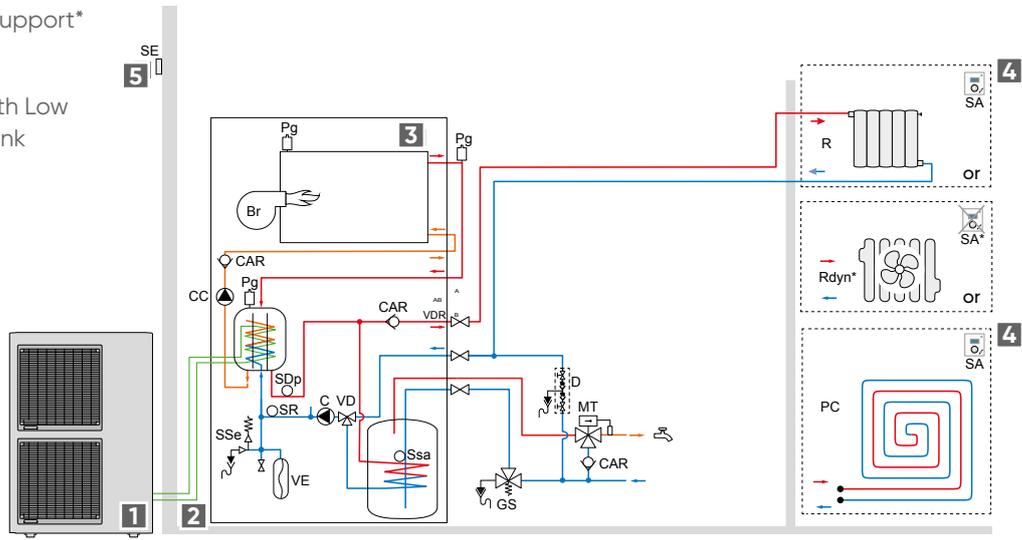
Outdoor Inverter unit Alfea Hybrid Duo Oil A.I. 11, 14, 16 three-phase



# INSTALLATION SCHEMATICS

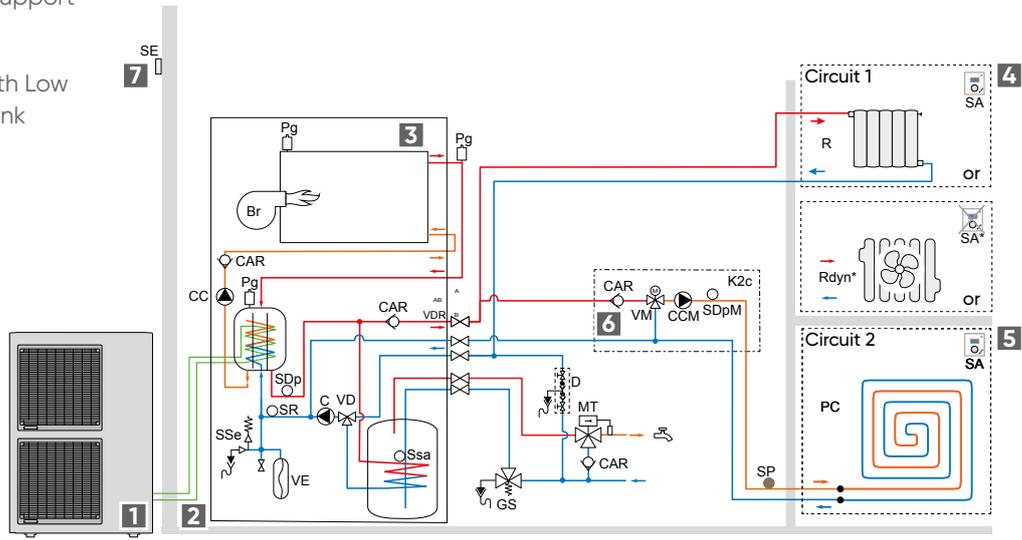
## ALFEA HYBRID DUO OIL A.I.: 1 HEATING ZONE

- 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 14 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

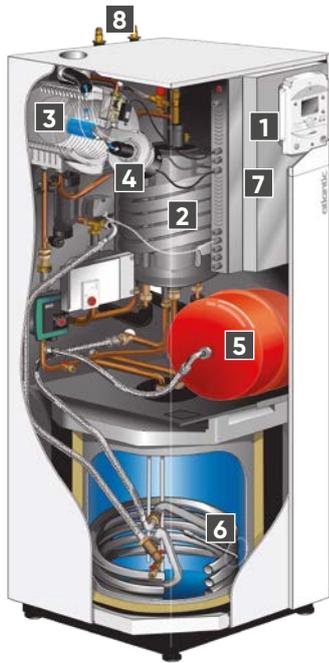
\*Available for Alfea Hybrid Duo Gas R models



55°C

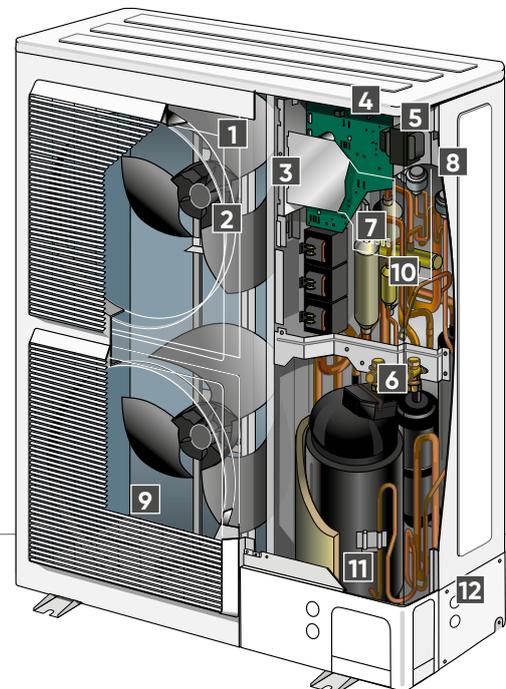


## INDOOR HYDRAULIC MODULE



- 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

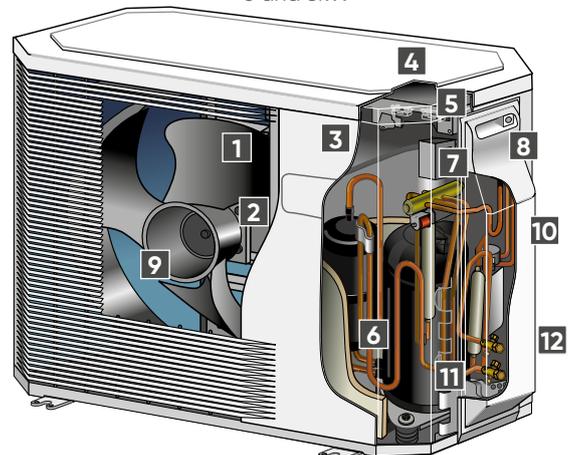
Outdoor Inverter unit  
11, 14 and 16kW



## 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



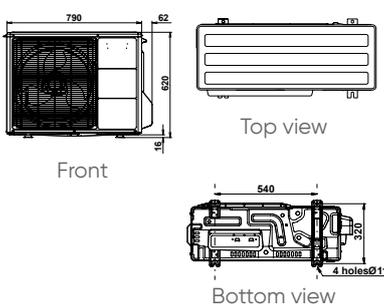
# TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ALFÉA HYBRID DUO GAS R 6	ALFÉA HYBRID DUO GAS R 8	ALFÉA HYBRID DUO GAS 11	ALFÉA HYBRID DUO GAS 14	ALFÉA HYBRID DUO GAS TRI 11	ALFÉA HYBRID DUO GAS TRI 14	ALFÉA 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

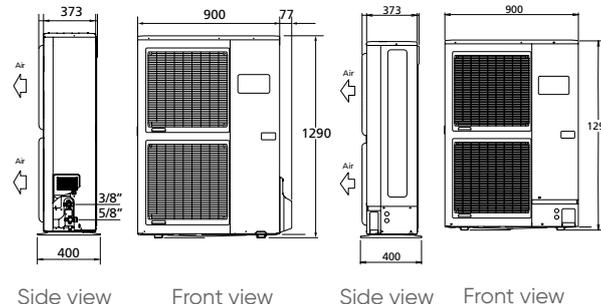
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1m from HP,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

## INSTALLATION DIMENSIONS (MM)

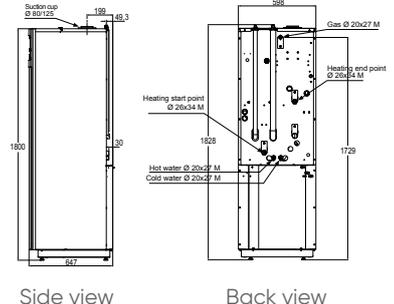
Outdoor Inverter unit Alfea Hybrid Duo Gas R6, R8



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



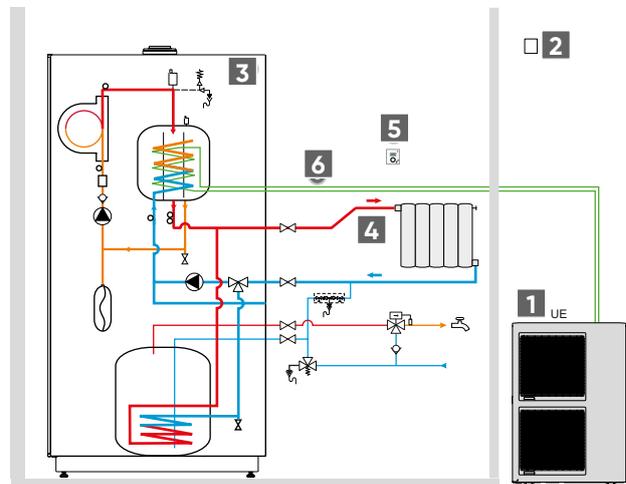
Indoor hydraulic module



# INSTALLATION SCHEMATICS

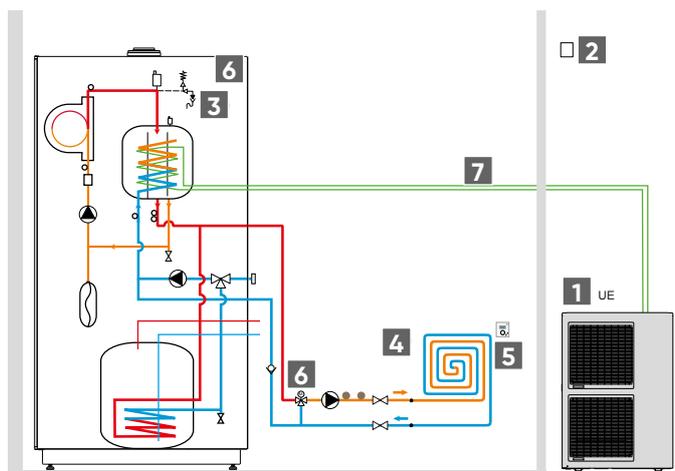
## ALFEA HYBRID DUO GAS: 1 HEATING ZONE

- 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\*



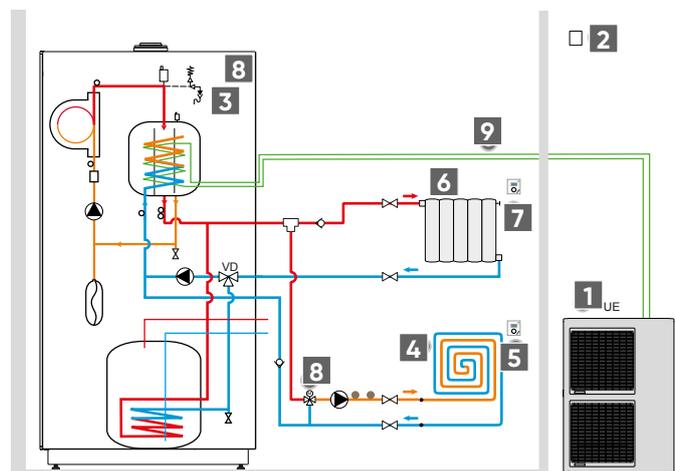
## ALFEA HYBRID DUO GAS: 1 HEATING ZONE + UNDERFLOOR HEATING

- 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\*



\*Optional

# Alfea range accessories

## ROOM CONTROLLER UNIT NAVILINK A59



### + 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 (Mileo)
  - Extra-high performance coil (Mileo+)

### DESCRIPTION

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

## 2 ZONES KIT



2 zones kit for single service heat pump

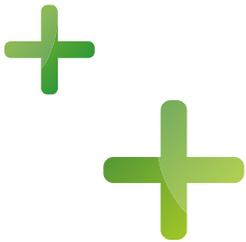
### + PRODUCT

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

### DESCRIPTION

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

## COOLING KIT



### + PRODUCT

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

### DESCRIPTION

- Plug-in cooling kit
- Allows reversibility function

## HEAT PUMP ADDITIONAL RELAY KIT



### + PRODUCT

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

### DESCRIPTION

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

## ACCESSORIES FOR OUTDOOR UNIT



White PVC floor support (x2)



Black rubber floor support (x2)



Wall bracket\* 600 mm (with bar)



Heating cable



Refrigerant pipes\*\*



Protection pipes for refrigerant pipes

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

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

# Air-to-water heat pumps

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

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



## TECHNICAL BENEFITS

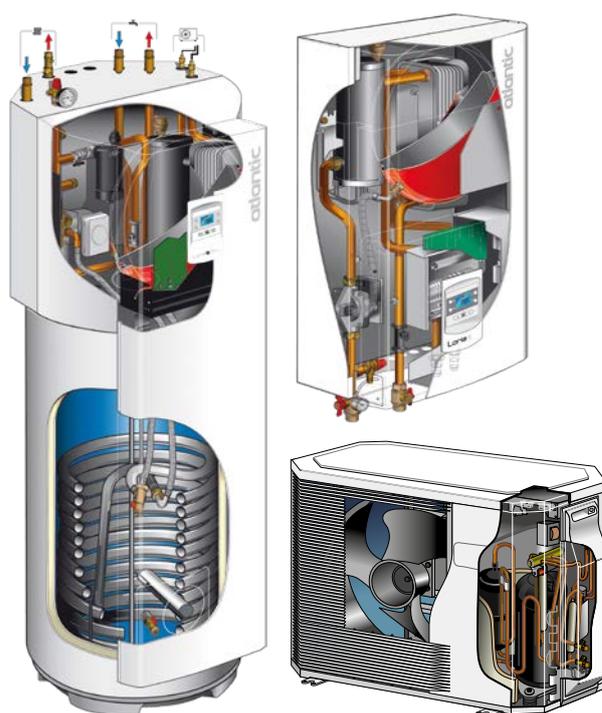
### Ergonomic design, in a small space!

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

### Complete and simple solution for new build projects

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

\*Optional

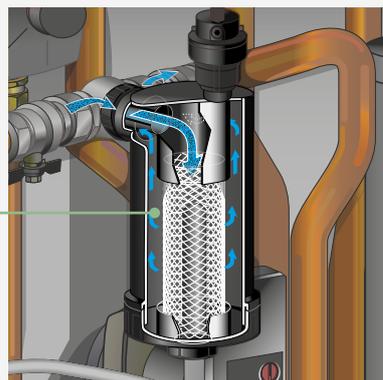


# Loria range



## Easy maintenance

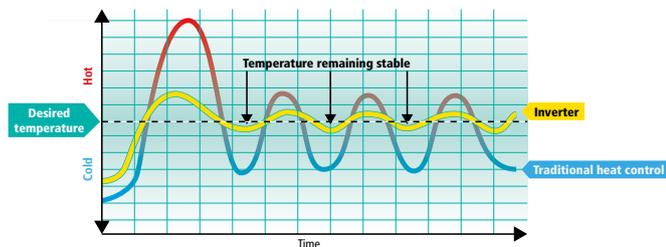
- Hinged electric cabinet to access internal components
- Loria: filter valve (as standard), easy to remove and clean
- Loria Duo: Magnetic mud filter (as standard)



## Easy set-up

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

Comparison between Inverter and traditional heat control



## Performances

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

## Atlantic control system NAVISTEM 100H

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



# Loria

Split air-to-water heat pump

Energy-efficient solution for new build projects



## + BENEFITS

- Space-saving indoor hydraulic module with plate heat exchanger
- One or two heating zone(s) management

### DESCRIPTION

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

- Compact solution for new build projects

### AVAILABLE OPTIONS

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

\*Models without electric back-up available

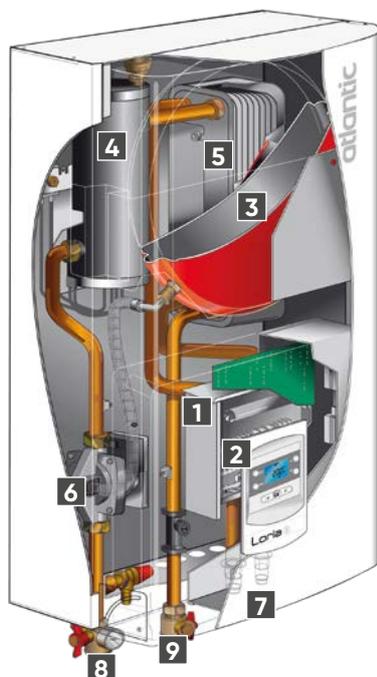


35°C



55°C

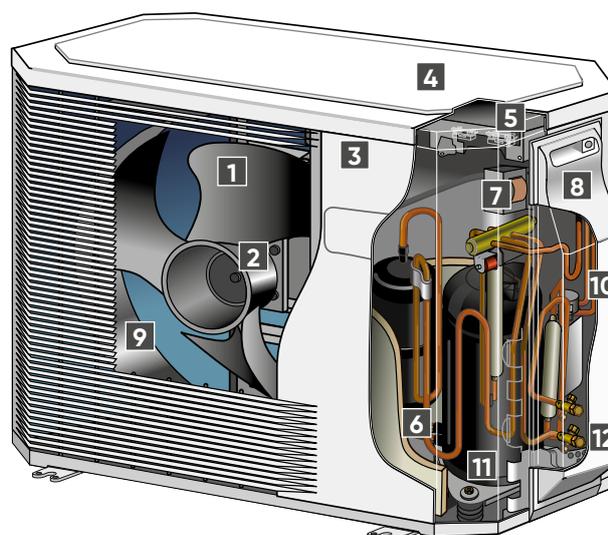
## INDOOR HYDRAULIC MODULE



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

## OUTDOOR INVERTER UNIT

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



\*\*Depending on models

## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	LORIA 6004	LORIA 6006	LORIA 6008	LORIA 6010
<b>REFRIGERANT</b>		R410A	R410A	R410A	R410A
<b>ENERGY EFFICIENCY 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>
Rated heat output (35°C/55°C)	kW	4 / 4	6 / 5	7 / 6	9/7
Annual energy consumption - Heating (35°C/55°C)	kWh	1884 / 2708	2588 / 2933	3226 / 4197	4481 / 5256
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	<b>%</b>	<b>181 / 127</b>	<b>186 / 128</b>	<b>166 / 124</b>	<b>154 / 116</b>
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	183 / 129	188 / 130	168 / 126	156 / 118
Sound power level (indoor/outdoor) <sup>(1)</sup>	dB(A)	44 / 64	44 / 64	44 / 69	44 / 68
<b>MAIN CHARACTERISTICS</b>					
<b>SCOP 35 °C / 55 °C</b>	<b>-</b>	<b>4.6 / 3.25</b>	<b>4.72 / 3.27</b>	<b>4.6 / 3.25</b>	<b>4.22 / 3.20</b>
Heating capacity +7°C/+35°C – Underfloor Heating	kW	4.00	6.00	7.50	10.42
COP +7°C/+35°C - Underfloor Heating		4.80	4.45	4.15	4.40
Heating capacity -7°C/+35°C – Underfloor Heating	kW	4.10	5.00	5.90	7.94
Power consumption -7°C/+35°C - Underfloor Heating	kW	1.46	1.79	2.46	3.11
COP -7°C/+35°C - Underfloor Heating		2.80	2.80	2.40	2.55
Heating capacity +7°C/+45°C – Low T°radiators	kW	4.00	5.10	6.20	8.51
COP +7°C/+45°C – Low T°radiators		3.50	3.50	3.35	3.54
Heating capacity -7°C/+45°C – Low T°radiators	kW	4.10	4.50	5.15	7.38
COP -7°C/+45°C – Low T°radiator		2.30	2.26	2.10	2.11
Heating capacity +7°C/+55°C – Low T°radiators	kW	3.68	4.27	5.53	6.98
COP +7°C/+55°C – Low T°radiators		2.65	2.67	2.68	2.65
Heating capacity -7°C/+55°C – Low T°radiators	kW	3.72	3.88	5.03	6.47
COP -7°C/+55°C – Low T°radiators		1.90	1.92	1.70	1.78
Electric back-up heater	kW	3	3	3	3
<b>INDOOR HYDRAULIC MODULE</b>					
Noise level <sup>(2)</sup>	dB(A)	36	36	36	36
Net weight/filled weight	kg	37.5 / 41.5	37.5 / 41.5	37.5 / 41.5	37.5 / 41.5
Min./Max. outdoor temperature for heating	°C	-20 / +35	-20 / +35	-20 / +35	-20 / +35
Power supply	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
<b>OUTDOOR UNIT</b>					
Noise level <sup>(3)</sup>	dB(A)	42	42	47	47
Operating weight	kg	41	41	42	60
<b>REFRIGERANT CHARACTERISTICS</b>					
Min./max. length	m	5 / 30	5 / 30	5 / 30	5 / 30
Max. difference in height	m	20	20	20	20
R410A factory load	g	1100	1100	1400	1800
Quantity of refrigerant in tons of CO <sub>2</sub> equivalent	t	2	2	3	4

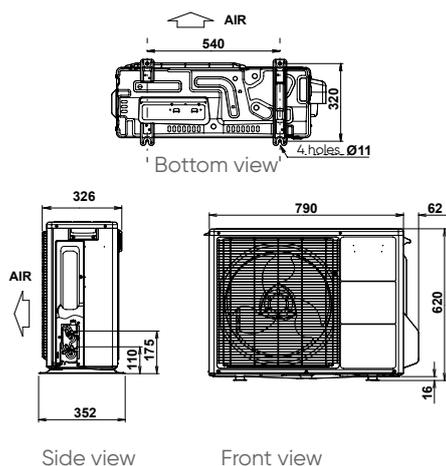
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment.

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

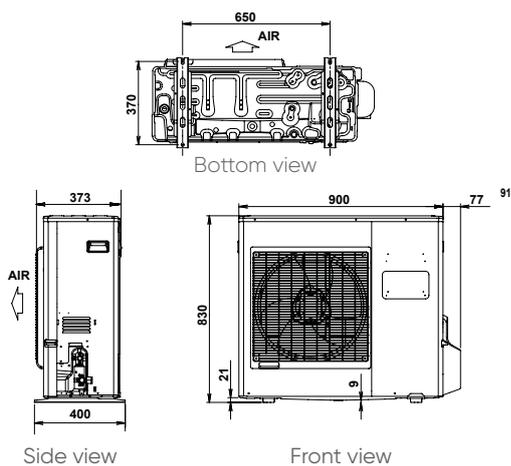
(3) Acoustic pressure at 5m from HP, 1.5 m height, open field, directivity 2.

## INSTALLATION DIMENSIONS (MM)

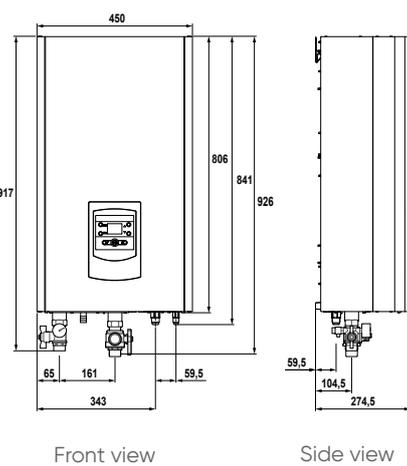
Loria 4,6 and 8kW  
Outdoor Inverter unit



Loria 10kW  
Outdoor Inverter unit



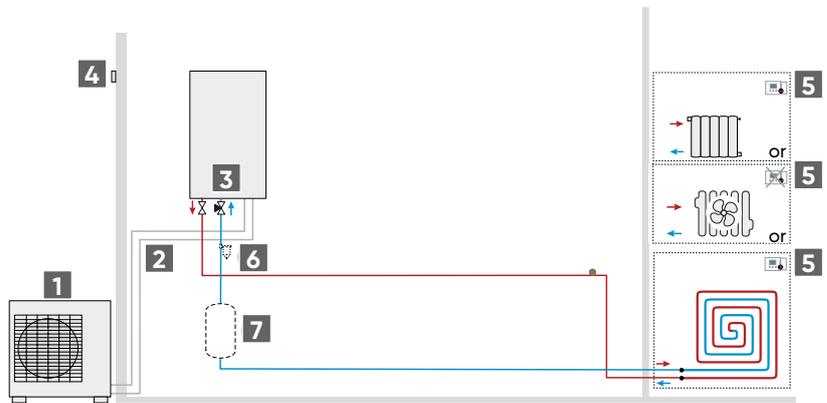
Indoor hydraulic module



# INSTALLATION SCHEMATICS

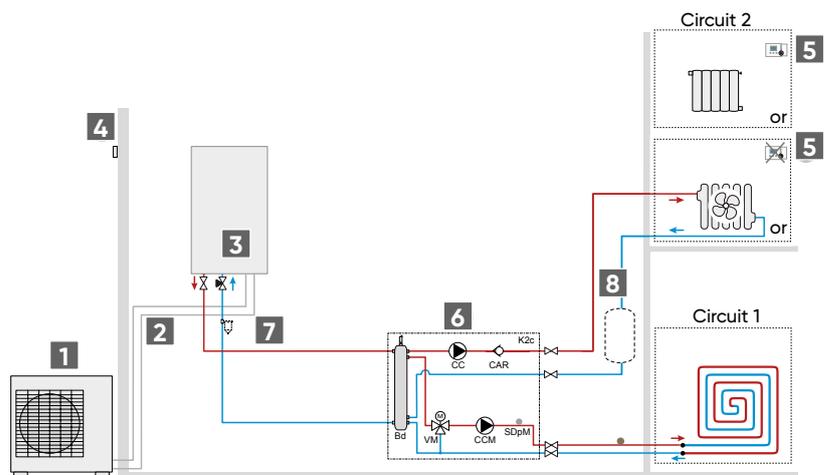
## LORIA: 1 HEATING ZONE

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



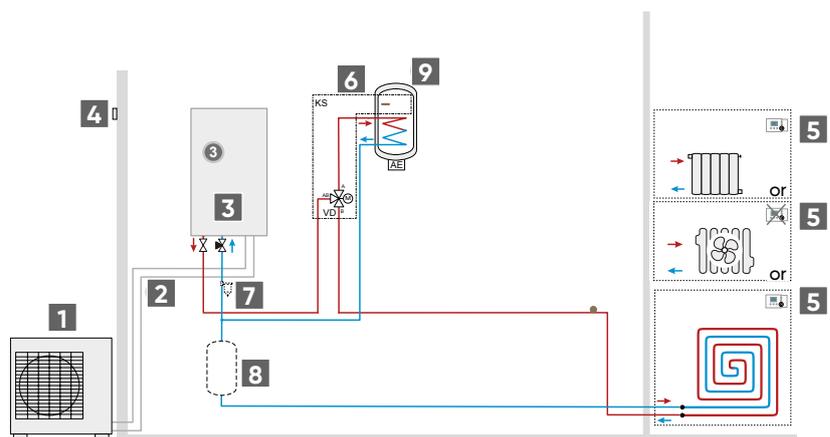
## LORIA: 2 HEATING ZONES

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



## LORIA: 1 HEATING ZONE + DHW PRODUCTION

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



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

# Loria Duo

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



## BENEFITS

- Space-saving indoor hydraulic module
- Magnetic mud filter

### DESCRIPTION

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

- High performance of DHW service
- DHW tank (190 L) with high-performance regulation

### AVAILABLE OPTIONS

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



35°C

55°C

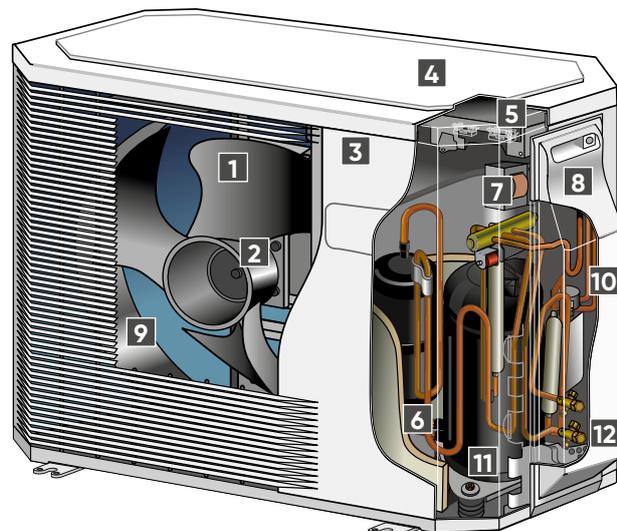
## INDOOR HYDRAULIC MODULE



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

## OUTDOOR INVERTER UNIT

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



## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	LORIA DUO 6004	LORIA DUO 6006	LORIA DUO 6008	LORIA DUO 6010
<b>REFRIGERANT</b>		R410A	R410A	R410A	R410A
<b>ENERGY EFFICIENCY CHARACTERISTICS</b>					
<b>Energy class - Heating (35°C/55°C)</b>		A+++ / A++	A+++ / A++	A++ / A++	A++ / A++
Rated heat output (35°C/55°C)	kW	4 / 4	6 / 5	7 / 6	9/7
Annual energy consumption - Heating (35°C/55°C)	kWh	1884 / 2708	2588 / 2933	3226 / 4197	4481 / 5256
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	181 / 127	186 / 128	166 / 124	154 / 116
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	183 / 129	188 / 130	168 / 126	156 / 118
Sound power level (indoor/outdoor) <sup>(1)</sup>	dB(A)	44 / 62	44 / 62	44 / 69	44 / 68
Declared load profile - DHW		L	L	L	L
<b>Energy class - DHW</b>		A+	A+	A+	A+
Annual water heating energy consumption	kWh	966	966	966	966
<b>Seasonal water heating energy efficiency (%)</b>	%	130	130	130	130
<b>MAIN CHARACTERISTICS</b>					
<b>SCOP 35 °C / 55 °C</b>	-	4.6 / 3.25	4.72 / 3.27	4.22 / 3.20	
Heating capacity +7°C/+35°C – Underfloor Heating	kW	4.07	6.02	7.47	10.42
COP +7°C/+35°C – Underfloor Heating		4.96	4.70	4.22	4.40
Heating capacity -7°C/+35°C – Underfloor Heating	kW	4.42	5.20	5.96	7.94
Power consumption -7°C/+35°C – Underfloor Heating	kW	1.42	1.77	2.33	3.11
COP -7°C/+35°C – Underfloor Heating		3.11	2.94	2.56	2.55
Heating capacity +7°C/+45°C – Low T°radiators	kW	4.09	4.98	6.40	8.51
COP +7°C/+45°C – Low T°radiators		3.62	3.51	3.37	3.54
Heating capacity -7°C/+45°C – Low T°radiators	kW	4.24	4.62	5.74	7.38
COP -7°C/+45°C – Low T°radiator		2.48	2.38	2.21	2.11
Heating capacity +7°C/+55°C – Low T°radiators	kW	3.68	4.27	5.53	6.98
COP +7°C/+55°C – Low T°radiators		2.65	2.67	2.68	2.65
Heating capacity -7°C/+55°C – Low T°radiators	kW	3.72	3.88	5.03	6.47
COP -7°C/+55°C – Low T°radiators		1.90	1.92	1.70	1.78
Electric back-up heater	kW	3	3	3	3
<b>INDOOR HYDRAULIC MODULE</b>					
Noise level <sup>(2)</sup>	dB(A)	36	36	36	36
Net weight/filled weight	kg	138 / 332	138 / 332	138 / 332	138 / 332
Power supply	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
<b>OUTDOOR UNIT</b>					
Noise level <sup>(3)</sup>	dB(A)	40	40	47	47
Operating weight	kg	41	41	42	60
<b>REFRIGERANT CHARACTERISTICS</b>					
Min./max. length	m	5 / 30	5 / 30	5 / 30	5 / 30
Max. difference in height	m	20	20	20	20
HFC R410A factory load	g	1100	1100	1400	1800
Quantity of refrigerant in tons of CO <sub>2</sub> equivalent	t	2	2	3	4

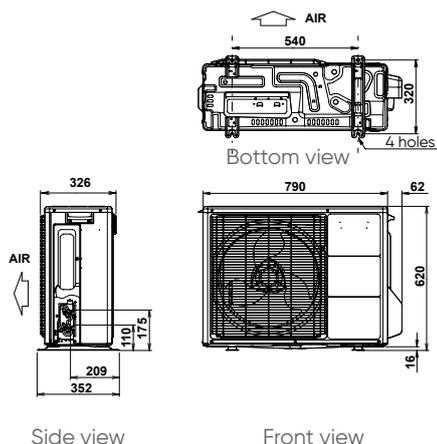
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment.

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

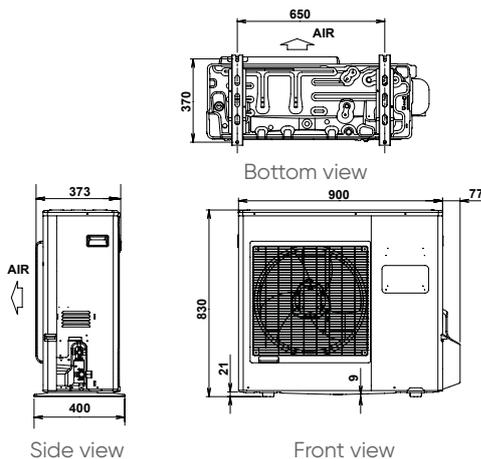
(3) Acoustic pressure at 5m from HP, 1.5 m height, open field, directivity 2.

## INSTALLATION DIMENSIONS (MM)

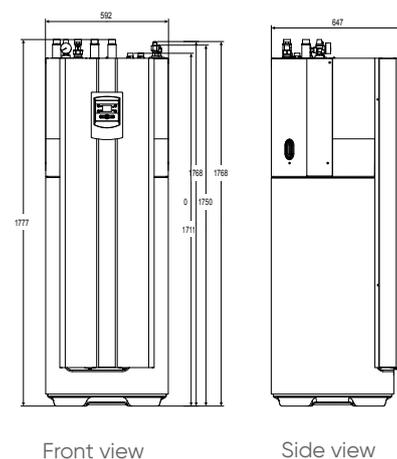
Loria Duo 4, 6 and 8 kW  
Outdoor Inverter unit



Loria Duo 10 kW  
Outdoor Inverter unit



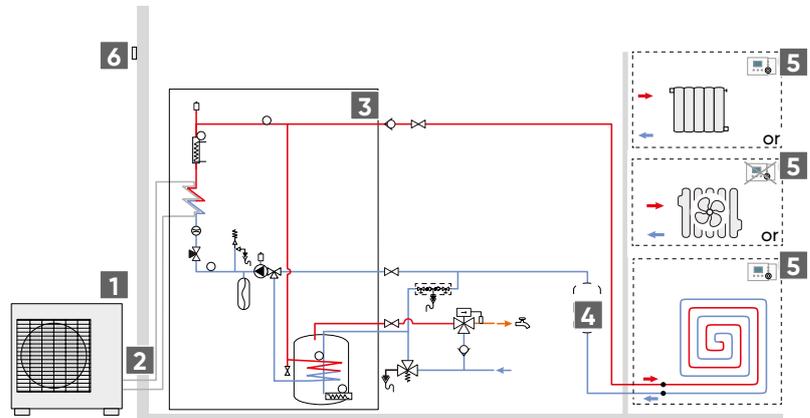
Indoor hydraulic module



# INSTALLATION SCHEMATICS

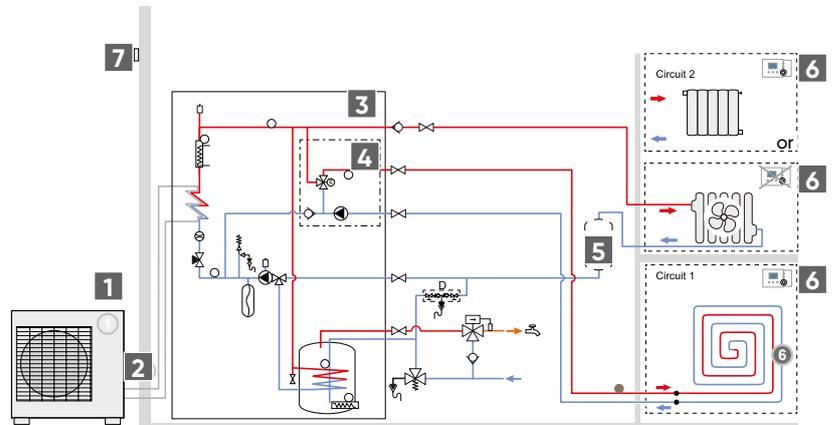
## LORIA DUO: 1 HEATING ZONE

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



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

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



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

# Loria range accessories

## ROOM SENSOR UA55



### + PRODUCT

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

### DESCRIPTION

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

## MAGNETIC MUD FILTER (FOR LORIA)



### + PRODUCT

- Capture impurities 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+



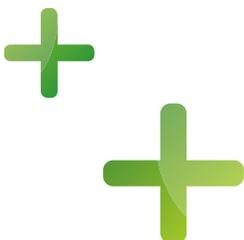
### + PRODUCT

- DHW kit allowing quick connection between DHW tank and heat pump
- 2 ranges:
  - High-performance coil (Mileo)
  - Extra-high performance coil (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

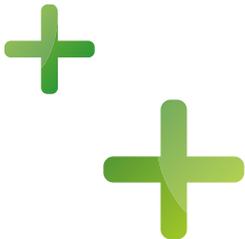
### + PRODUCT

- 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

# Aurea M

Monobloc air-to-water heat pump  
Flexible solution for all projects



## + BENEFITS

- Easy installation and maintenance (no refrigerant fluid to handle)
- Compact solution: All hydraulic components are in the indoor unit

- Piping length optimized

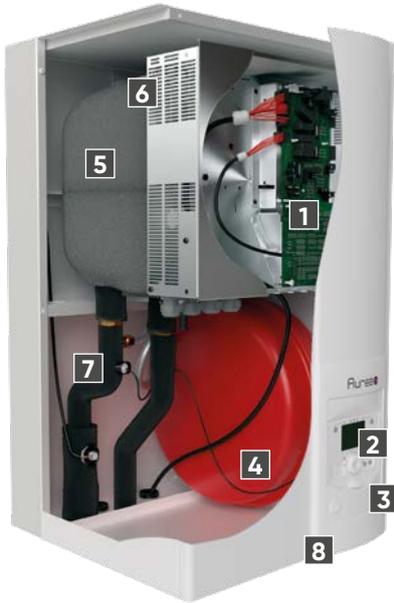
## DESCRIPTION

- Average temperature solution for all project
- 4 models from 5 to 16 kW
- Cooling integrated as standard
- Single-phase models

## AVAILABLE OPTIONS

- 2 zone kit
- Separate hot water tank
- Boiler connection kit
- Room controller

## INDOOR HYDRAULIC MODULE



- 1** Electric board
- 2** User interface/regulator
- 3** Manometer
- 4** Expansion vessel
- 5** 20 L buffer tank
- 6** DHW electric back-up (optional)
- 7** Flow-meter

## OUTDOOR INVERTER UNIT



- 1** "Inverter" control module
- 2** Connection terminal (power supplies and interconnection)
- 3** Safety valve
- 4** Noise and temperature-insulated compressor
- 5** Circulation pump
- 6** Plate heat exchanger
- 7** Electrical variable speed motor

# TECHNICAL CHARACTERISTICS AND PERFORMANCES

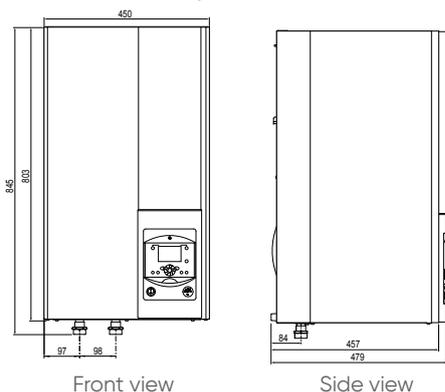
EIP

	UNIT	AUREA M 5	AUREA M 8	AUREA M 10	AUREA M 16
<b>REFRIGERANT</b>		R410A	R410A	R410A	R410A
<b>ENERGY EFFICIENCY CHARACTERISTICS</b>					
<b>Energy class - Heating (35°/55°)</b>	/	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Rated heat output (35°/55°)	kW	4 / 4	7 / 6	8 / 7	12 / 10
Annual energy consumption - Heating (35°/55°)	kWh	2137 / 2973	3505 / 4068	3827 / 4736	6527 / 6857
<b>Seasonal energy efficiency - Heating (35°/55°)</b>	%	167 / 119	162 / 123	161 / 117	151 / 121
Energy seasonal efficiency - Heating (35°/55°) with outdoor temperature sensor	%	169 / 121	164 / 125	163 / 119	153 / 123
Sound power level (Indoor / outdoor) <sup>(1)</sup>	dB(A)	46 / 60	46 / 62	46 / 65	46 / 66
<b>MAIN CHARACTERISTICS</b>					
<b>SCOP 35 °C / 55 °C</b>	-	4.25 / 3.06	4.13 / 3.15	4.10 / 3.01	3.86 / 3.10
Heating capacity +7°C / +35°C - heating floor	kW	5	8	10	16
COP +7°C / 35°C - heating floor		4.20	4.50	4.35	3.92
Heating capacity -7°C / +35°C - heating floor	kW	3.55	7.10	8	12.5
Input power -7°C / +35°C - heating floor	kW	1.38	2.93	3.32	5.68
COP -7°C / +35°C - PC		2.57	2.42	2.41	2.20
Heating capacity +7°C / 55°C - high temp radiator	kW	3.88	7.5	8.9	12.80
COP +7°C / 55°C - high temp radiator		2.49	2.81	2.74	2.51
Heating capacity -7°C / +55°C - high temp radiator	kW	2.91	4.80	5.80	8.40
COP -7°C / 55°C - high temp radiator		1.64	1.63	1.73	1.52
Power supply		230 V-50 Hz	230 V-50 Hz	230 V-50 Hz	230 V-50 Hz
<b>INDOOR HYDRAULIC MODULE</b>					
Noise level <sup>(2)</sup>	dB(A)	39	39	39	39
Net weight / filled weight	kg	40/62	40/62	40/62	40/62
Power supply	V / Hz	230 / 50	230 / 50	230 / 50	230 / 50
<b>OUTDOOR UNIT</b>					
Noise level <sup>(3)</sup>	dB(A)	38	40	43	44
Operating weight	kg	49	72	72	117
<b>REFRIGERANT CHARACTERISTICS</b>					
R410A factory load	g	1050	1720	1720	2990
Amount of fluid expressed in CO <sub>2</sub> equivalent	t	2.19	3.59	3.59	6.24

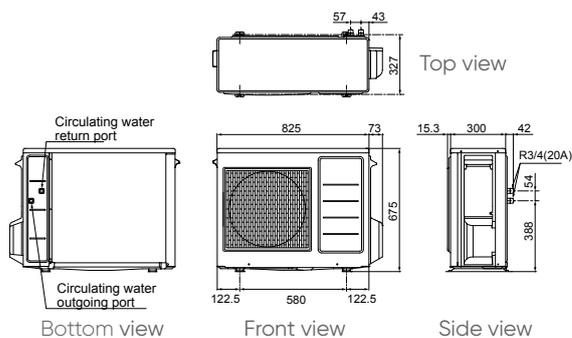
(1) Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. (2) Acoustic pressure at 1m from HP,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

## INSTALLATION DIMENSIONS (MM)

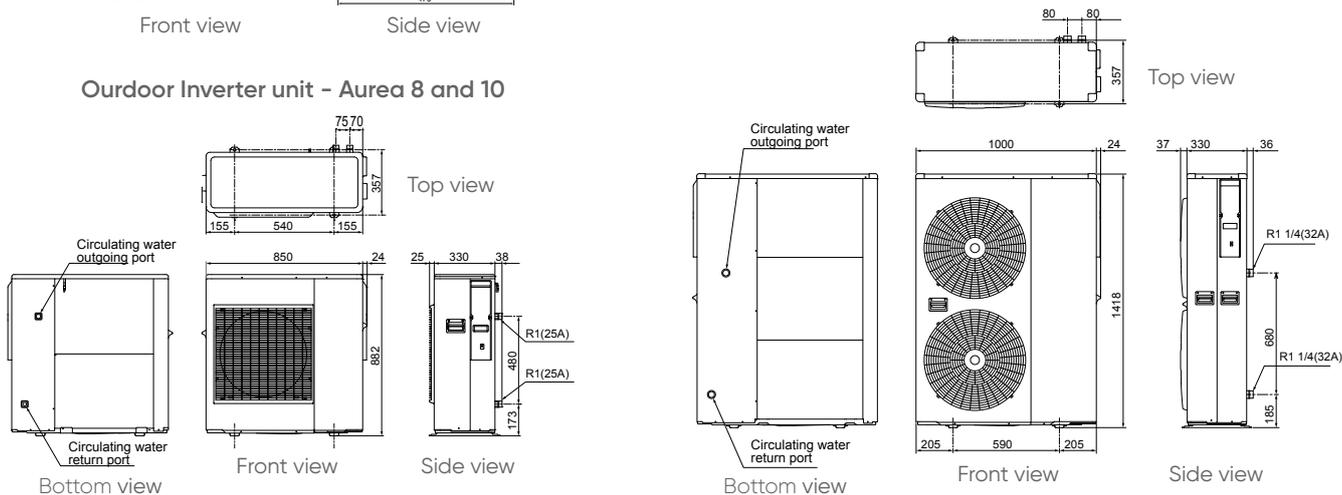
Indoor hydraulic module



Outdoor Inverter unit - Aurea 5



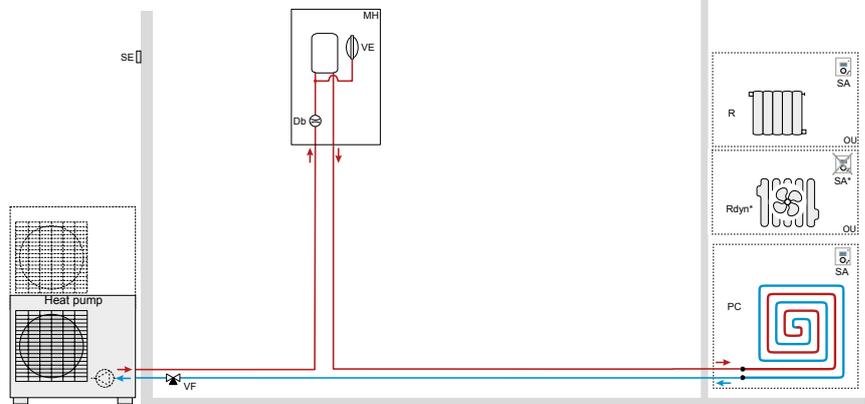
Outdoor Inverter unit - Aurea 16



# INSTALLATION SCHEMATICS

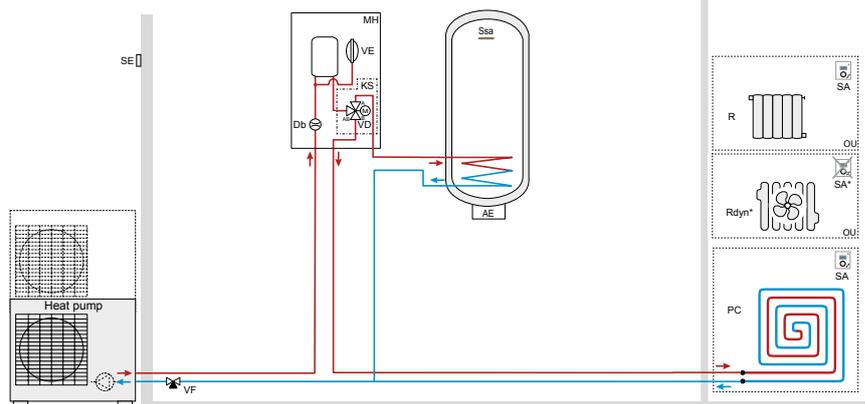
## AUREA M: 1 HEATING ZONE

- Db** - Flow-meter
- MH** - Hydraulic unit
- PC** - Underfloor heating
- R** - Radiator
- Rdyn\*** - Dynamic radiator
- SA\*** - Room controller  
(optional/except with Rdyn)
- SE** - Outdoor sensor
- VE** - Expansion vessel
- VF** - Filter valve



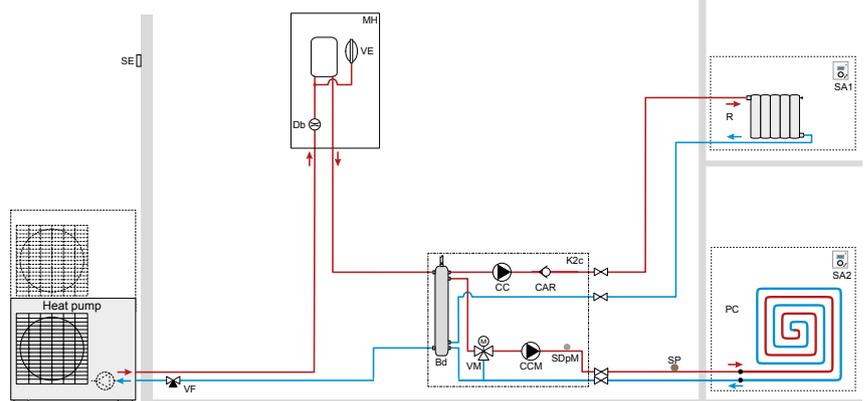
## AUREA M: 1 HEATING ZONE + DHW PRODUCTION

- AE** - Electrica back-up
- Db** - Flow-meter
- KS** - DHW kit
- MH** - Hydraulic unit
- PC** - Underfloor heating
- R** - Radiator
- Rdyn\*** - Dynamic radiator
- SA\*** - Room controller  
(optional/except with Rdyn)
- SSa** - DHW sensor
- SE** - Outdoor sensor
- VD** - Directional valve
- VE** - Expansion vessel
- VF** - Filter valve



## AUREA M: 2 HEATING ZONES

- Bd** - Decoupling cylinder
- CAR** - Check valve
- CC** - Direct circuit circulation pump
- CCM** - Mixed circuit circulation
- Db** - Flow-meter
- K2c** - 2-circuit kit
- MH** - Hydraulic unit
- PC** - Underfloor heating
- R** - Radiator
- Rdyn\*** - Dynamic radiator
- SA1** - Room thermostat (option/circuit 1)
- SA2** - Room thermostat (option/circuit 2)
- SE** - Outdoor sensor
- SP** - Thermal safety device for under-floor heating
- VE** - Expansion vessel
- VF** - Filter valve
- VM** - Mixing valve



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

# Wall-In

Integration system of the outdoor unit



## + BENEFITS

- Outdoor unit invisible from outside
- Performant mechanical separation to avoid transfer of vibrations

### DESCRIPTION

- Innovative solution to integrate the outdoor unit into the building
- Kit with 3 parts possible to supply to the building site according to the construction phase
- Compliant for outdoor units of Alfea Extensa A.I. and 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 to the wall
- Box: Complete cover of the outdoor unit (supplied assembled)

- Condensat collection and evacuation

- Patented separation of air flow to maintain the performance

### AVAILABLE OPTIONS

#### Grid

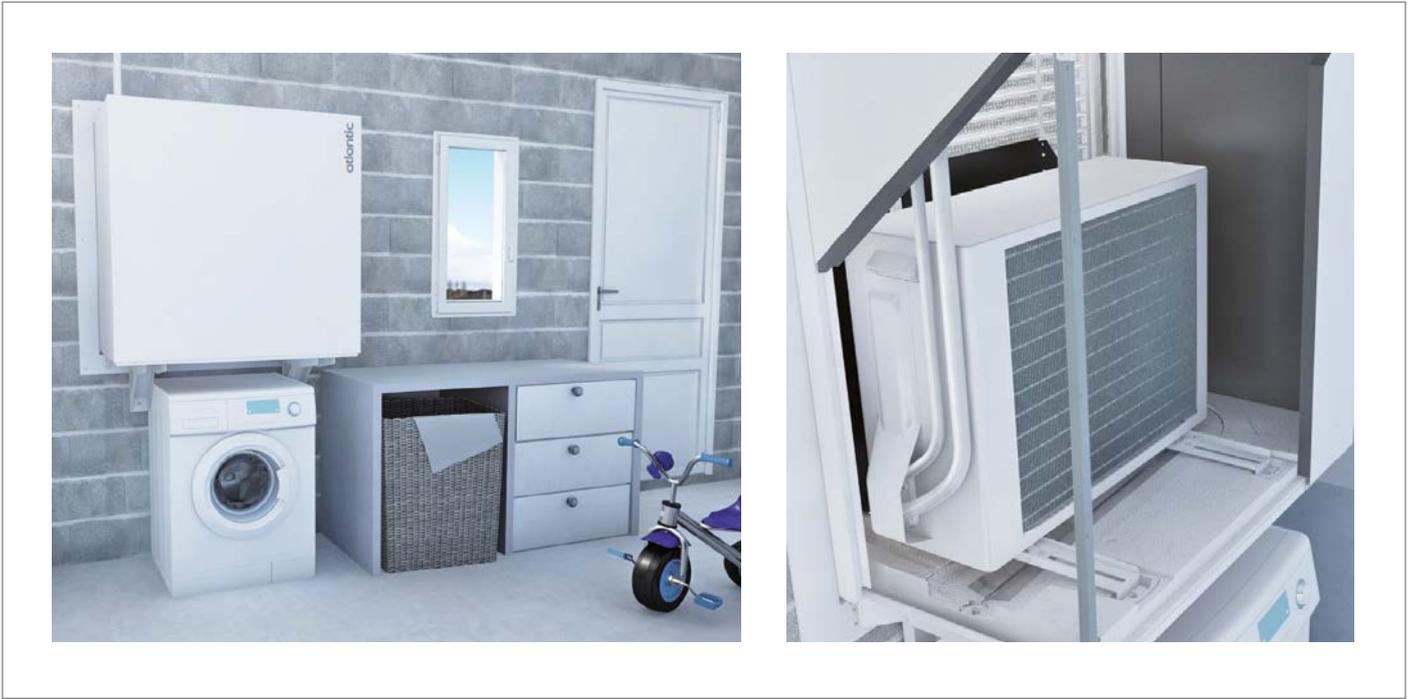
- Anti-corrosive protection
- Condensat guides to avoid external water traces
- Bird-safe grid

#### Internal frame

- Integrated seals
- Reinforced supports

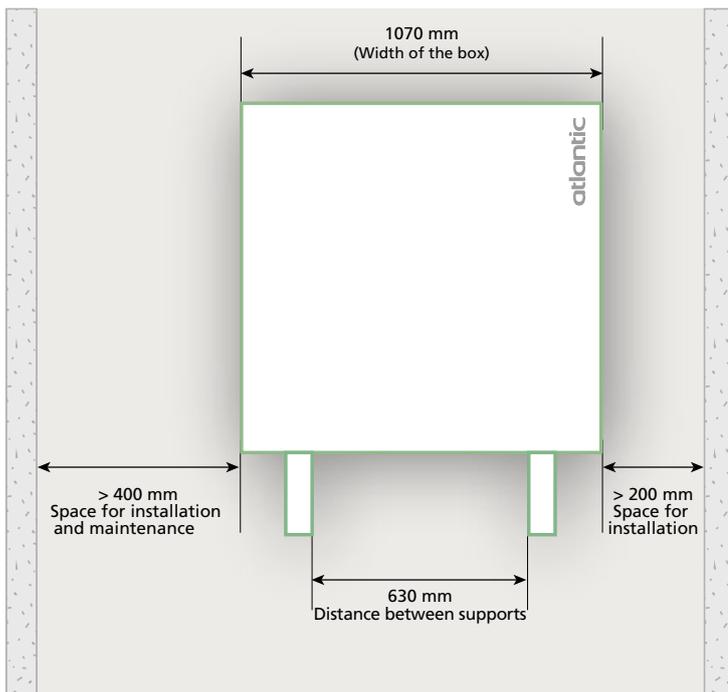
#### Internal box

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

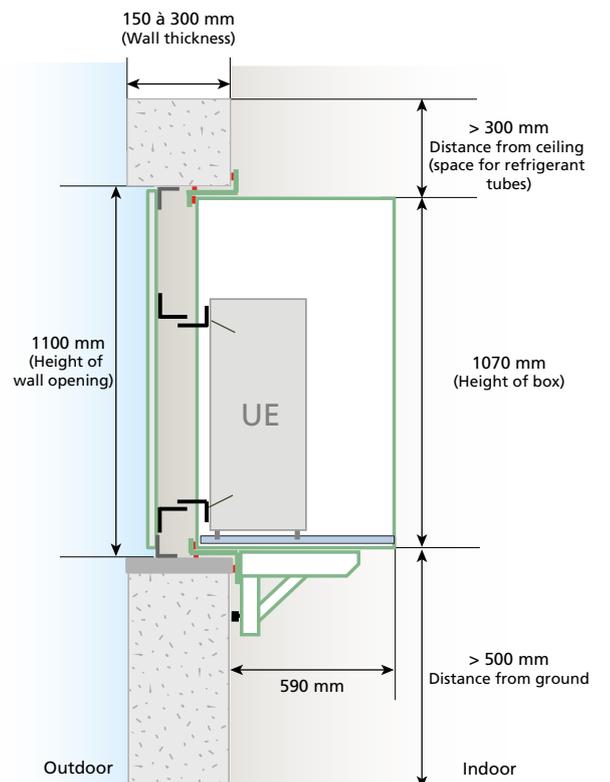


## INSTALLATION DIMENSIONS (MM)

Requested surface on the wall: 1100 x 1100 mm



Front view (indoor)



Side view

# 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

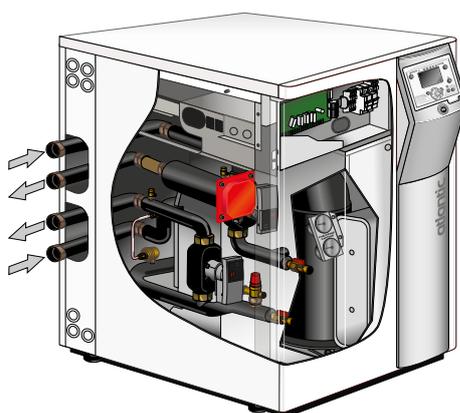


## ATLANTIC GEOLIA

**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 range

## GROUNDWATER COLLECTION SYSTEM

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



## VERTICAL COLLECTION SYSTEM

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



## HORIZONTAL COLLECTION SYSTEM

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



# Atlantic Geolia

Ground source heat pump

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



35°C



35°C



55°C

## 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>						
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>						
Rated heat output (35°C/55°C) - brine	kW	6 / -	8 / -	12 / -	14 / 13	19 / 18
Seasonal energy efficiency - Heating (35°C/55°C) - brine	%	157 / -	155 / -	166 / -	179 / 142	179 / 136
Annual energy consumption - Heating (35°C/55°C) - brine	kWh	3369 / -	4074 / -	5644 / -	6386 / 7546	8604 / 10337
Acoustic level (indoor) <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)				
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)

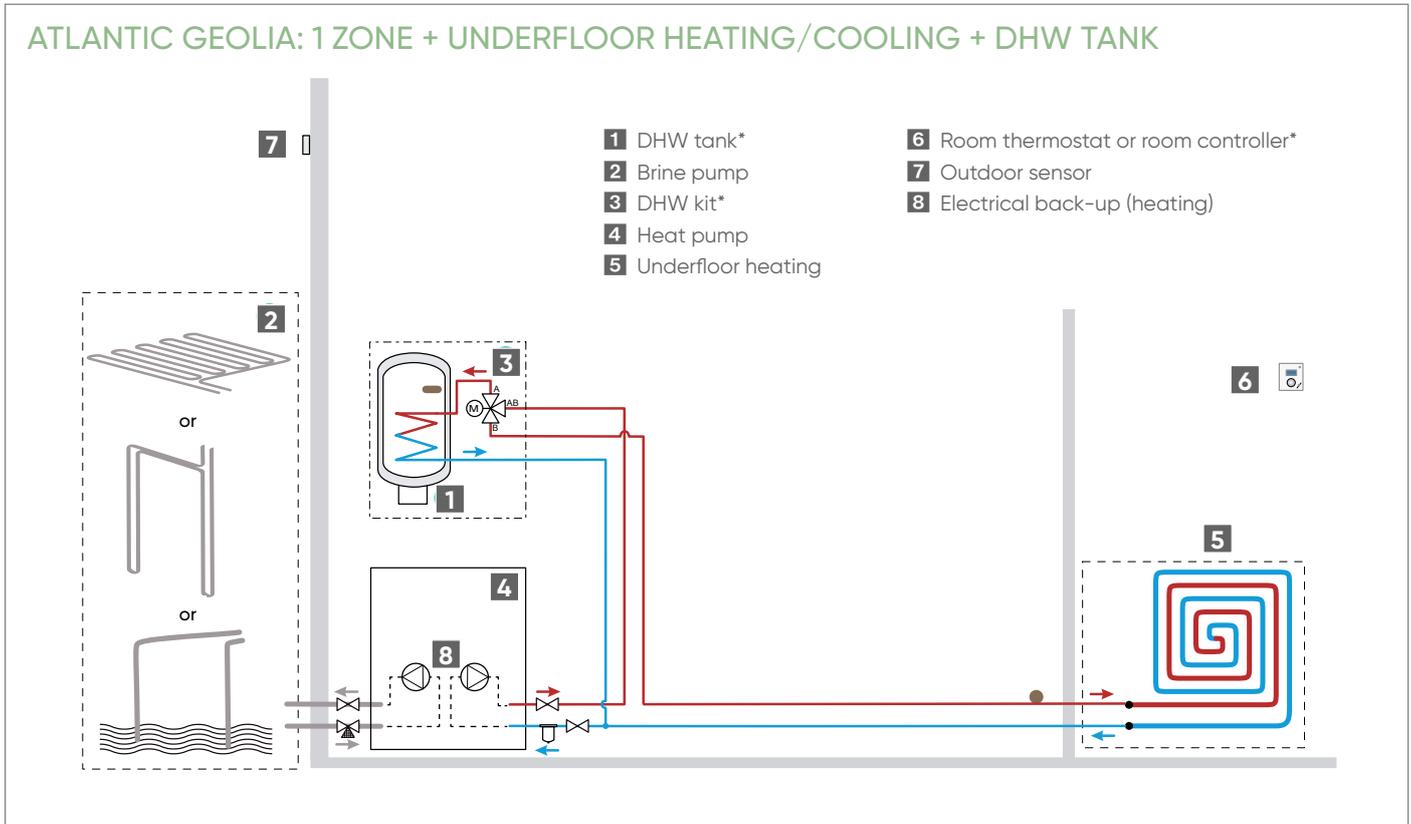


\*Depending on models

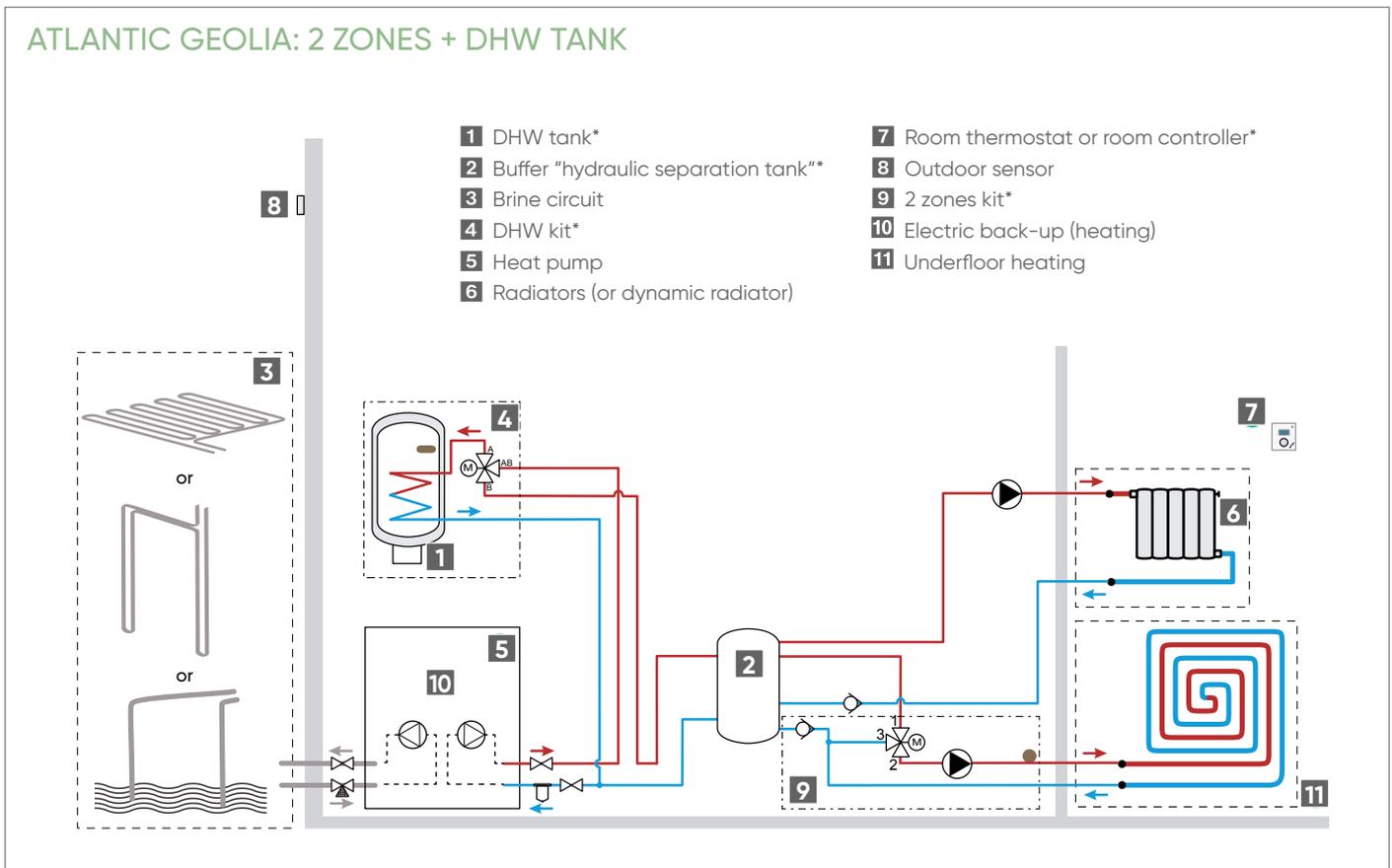
# Atlantic Geolia

## INSTALLATION SCHEMATICS

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



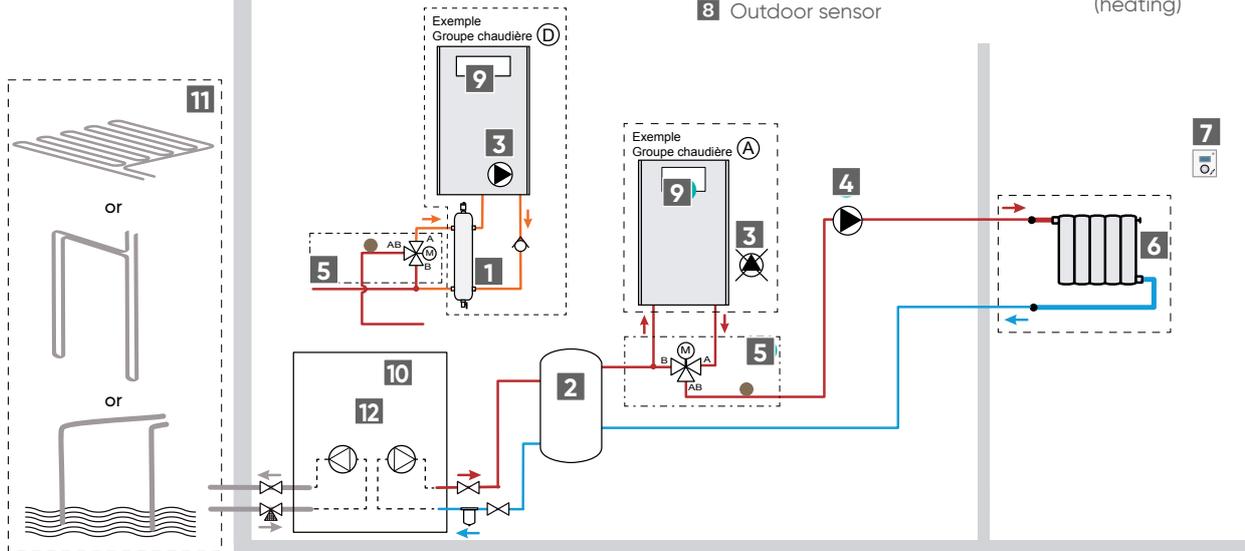
### ATLANTIC GEOLIA: 2 ZONES + DHW TANK



\*Optional

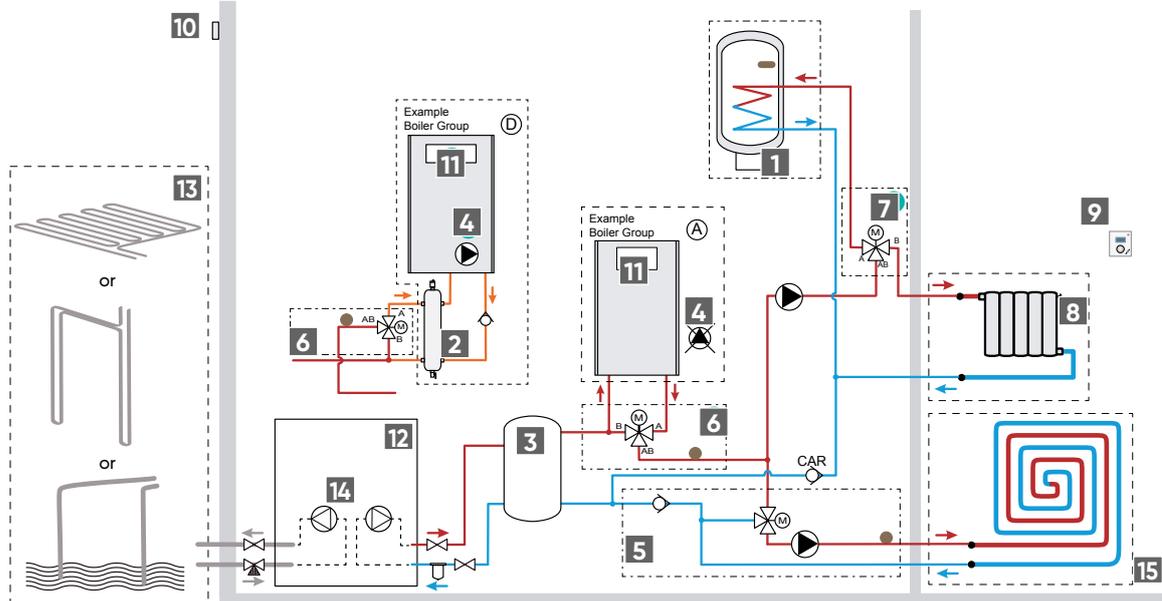
## ATLANTIC GEOLIA: 1 ZONE + BOILER CONNECTION

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



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

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

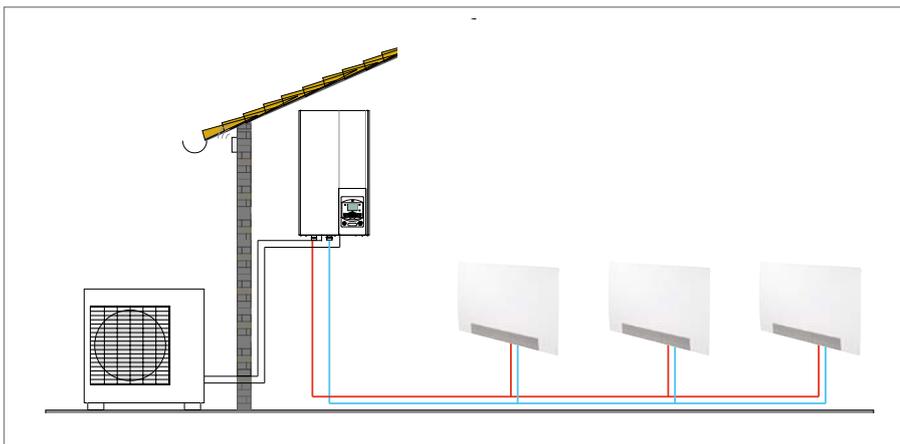
## TECHNICAL CHARACTERISTICS

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	
<b>55°C/45°C</b>							
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	
<b>45°C/40°C</b>							
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	
<b>35°C/30°C</b>							
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	
<b>7°C/12°C</b>							
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	
<b>ELECTRICAL CHARACTERISTICS</b>							
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	
<b>ACOUSTIC CHARACTERISTICS</b>							
Power	dB(A)	37	42	37	42	37	43
Pressure <sup>(2)</sup>	dB(A)	23	29	23	29	23	31
<b>AIR SYSTEM</b>							
Air flow rate	m³/h	150		150		290	
<b>PHYSICAL CHARACTERISTICS</b>							
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	

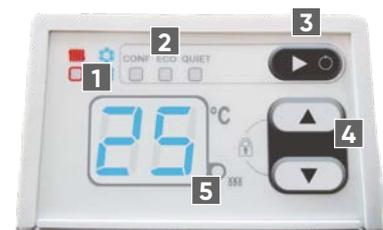
(1) Heating panel electric power

(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





WORLD LEADING BRAND OF INDOOR THERMAL COMFORT



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



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