

ALFEA EXTENSA +

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



Outdoor Inverter unit



Indoor hydraulic module



Product

- COP : up to 4.52 (+7°C / +35°C)
- Compatible with all kinds of low temperature transmitters (underfloor heating/cooling, radiator, fan coil)
- Intuitive control and simplified use
- **NAVISTEM 200S** regulator
- Integrated 16L buffer tank
- Patented coaxial heat exchanger
- Inverter regulation
- Class A low energy consumption circulation pump
- Possibility to manage an electric radiator heating zone from the heat pump control panel (optional)

DESCRIPTION

- Suitable for new build and renovation
- 6 models: 5 to 16 kW - single-phase
- Performing heat pump working with outside temperature from -20°C to +35°C
- Low temperature heating (max. 55°C)

AVAILABLE OPTIONS

- 2nd circuit kit (plug-and-play kit)
- Cooling kit
- Separated hot water tank
- Electric back-up heater
- Boiler connection kit
- Control unit

SUPPLIES

Outdoor Inverter unit

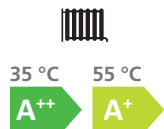
- Refrigerant circuit (R410A)
- Twin Rotary compressor

Indoor hydraulic module

- Coaxial exchanger immersed in buffer tank
- Class A low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter, etc.

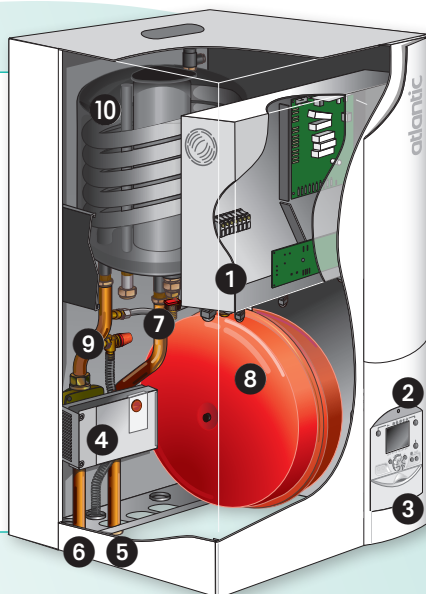


Energy class



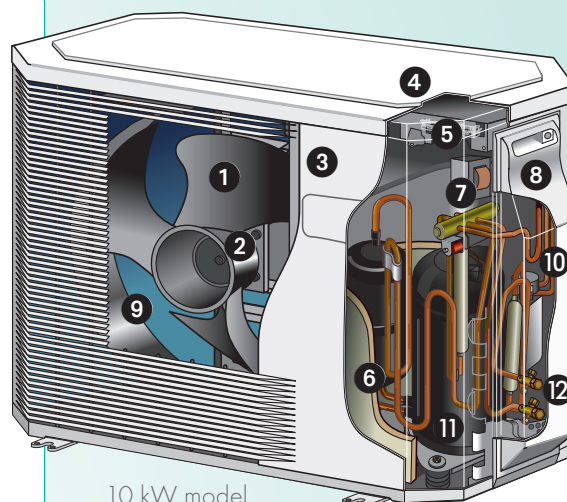
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Manometer
- 4 Class A low consumption circulation pump
- 5 Heating flow
- 6 Heating return
- 7 Refrigerant connections
- 8 Expansion vessel
- 9 Safety valve
- 10 Condenser



OUTDOOR INVERTER UNIT

- 1 Low-noise, high-output coil
- 2 Electric variable speed "Inverter" motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- 5 Connector 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



10 kW model

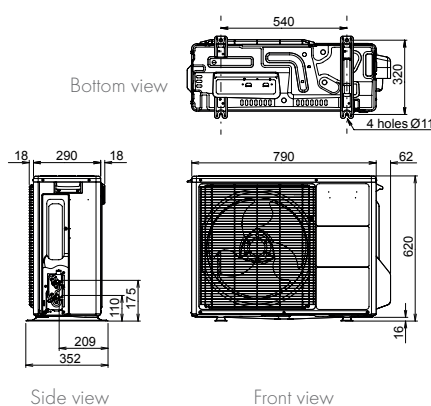
TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ALFEA EXTENSA+ 5	ALFEA EXTENSA+ 6	ALFEA EXTENSA+ 8	ALFEA EXTENSA+ 10	ALFEA EXTENSA+ 13	ALFEA EXTENSA+ 16
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS							
Heating capacity +7°C/+35°C - Floor Heating	kW	4.50	6.00	7.50	10.00	14.01	16.06
COP +7°C/+35°C - Floor Heating		4.52	4.26	4.08	4.02	4.00	3.68
Heating capacity -7°C/+35°C - Floor Heating	kW	4.10	4.60	5.70	7.40	9.45	12.93
COP -7°C/+35°C - Floor Heating		2.79	2.64	2.56	2.49	2.41	2.43
Heating capacity +7°C/+45°C - Low T°radiators	kW	4.50	5.10	6.20	8.27	10.43	13.60
COP +7°C/+45°C - Low T°radiators		3.44	3.40	3.32	3.27	3.27	3.11
Heating capacity -7°C/+45°C - Low T°radiators	kW	4.10	4.45	5.05	7.40	9.25	11.20
COP -7°C/+45°C - Low T°radiator		2.20	2.18	2.04	2.00	2.12	2.15
Heating capacity +7°C/+55°C - Radiators	kW	4.50	4.50	5.00	7.00	7.84	10.03
COP +7°C/+55°C - Radiators		2.51	2.51	2.58	2.45	2.41	2.50
Heating capacity -7°C/+55°C - Radiators	kW	3.70	3.85	5.20	7.00	7.29	8.65
COP -7°C/+55°C - Radiators		1.68	1.65	1.56	1.69	1.64	1.66
Additional electric back-up in option	kW	adjustable 3 or 6	adjustable 3 or 6	adjustable 3 or 6	adjustable 3 or 6	adjustable 3 or 6	adjustable 3 or 6
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS WITH OUTDOOR SENSOR							
Energy class - Heating (35°C/55°C)	-	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+	A++ / A+
Thermal power (35°C/55°C)	kW	4 / 4	5 / 5	7 / 6	8 / 8	11 / 9	13 / 11
Seasonal energy efficiency - Heating (35°C/55°C)	%	171 / 117	171 / 117	158 / 120	157 / 115	153 / 111	151 / 115
Annual energy consumption - Heating (35°C/55°C)	kWh	2160 / 3027	2505 / 3180	3375 / 3886	4415 / 5415	6062 / 6842	6824 / 8041
Sound power level (indoor/outdoor)	dB(A)	46 / 63	46 / 63	46 / 69	46 / 69	46 / 69	46 / 70
INDOOR HYDRAULIC MODULE							
Noise level*	dB(A)	39	39	39	39	39	39
Dimensions h x w x d	mm	800x450x480	800x450x480	800x450x480	800x450x480	800x450x480	800x450x480
Net weight/filled weight	kg	42 / 58	42 / 58	42 / 58	42 / 58	42 / 58	42 / 58
OUTDOOR UNIT							
Noise level**	dB(A)	41	41	47	47	47	48
Dimensions h x w x d	mm	620x790x290	620x790x290	620x790x290	830x900x330	1290x970x400	1290x970x400
Operating weight	kg	41	41	42	60	92	92
REFRIGERANT CHARACTERISTICS							
Min./max. length	m	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20
Max. diff. in height	m	15	15	15	15	15	15

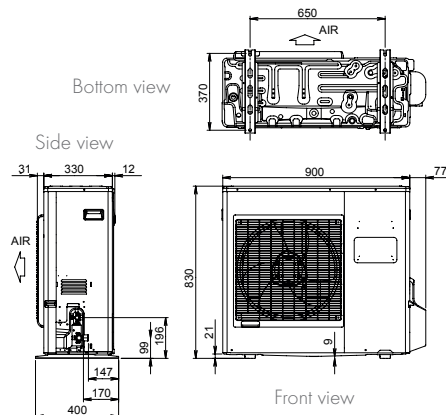
*Acoustic pressure at 1m from HP, 1,5 m high, open field, directivity 2. - **Acoustic pressure at 5m from HP, 1,5 m high, open field, directivity 2.

DIMENSIONS (MM)

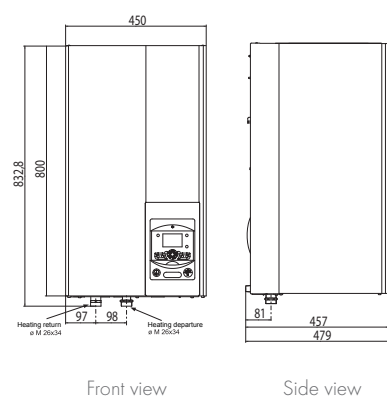
**Outdoor Inverter unit
Alfea Extensa + 5, 6 and 8**



**Outdoor Inverter unit
Alfea Extensa + 10**



**Indoor hydraulic
module**



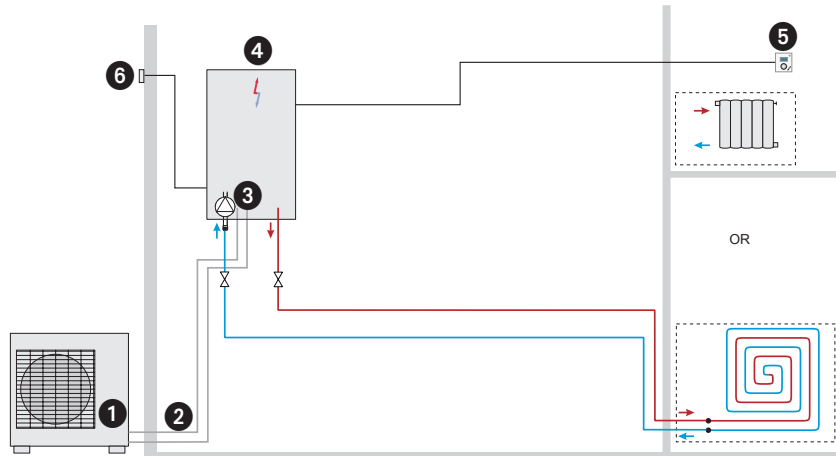
For outdoor unit dimensions of Alfea Extensa + 13 and 16, see technical characteristics and performances tables

ALFEA EXTENSA +

Installation schematics

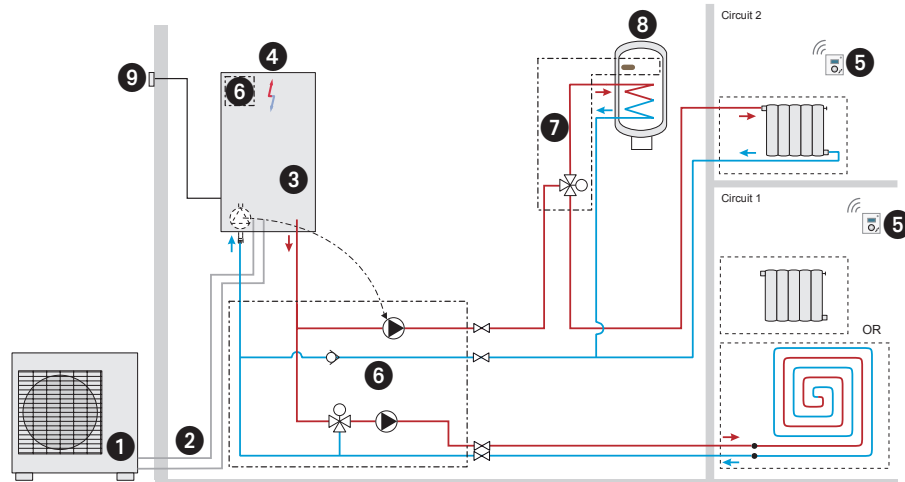
ALFEA EXTENSA +: 1 HEATING ZONE

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



ALFEA EXTENSA +: 2 HEATING ZONES + DHW PRODUCTION

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Back-up heater*
- ❺ Room radio control unit*
- ❻ 2 zones kit*
- ❼ DHW kit*
- ❽ Water tank*
- ❾ Outdoor sensor



ALFEA EXTENSA + CONNECTED TO BOILER: 2 HEATING ZONES + DHW PRODUCTION

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module
- ❹ Boiler connection kit*
- ❺ Room radio control unit*
- ❻ 2 zones kit*
- ❼ DHW kit*
- ❽ Water tank*
- ❾ Boiler
- ❿ Outdoor sensor

