

ALFEA EXTENSA DUO +

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



Outdoor Inverter unit



Indoor hydraulic module

Product

- DHW storage tank included (190L)
- COP: up to 4.52 (+7°C / +35°C)
- Compatible with all kinds of low temperature transmitters (underfloor heating/cooling, fan coil)
- Intuitive control and simplified use
- **NAVISTEM 200S** regulator
- 16L buffer tank integrated
- 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
- 4 models: 5 to 10 kW - single-phase
- Heating and DHW integrated
- Performing heat pump working with outside temperature from -20°C to +35°C
- Low temperature heating (max. 55°C)

AVAILABLE OPTIONS

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

SUPPLIES

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor

Indoor hydraulic module

- DHW storage tank integrated (190L)
- Coaxial exchanger immersed in buffer tank
- Class A low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter, etc.

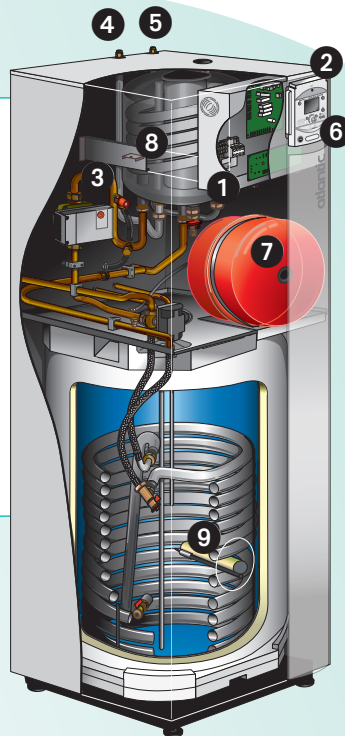


Energy class



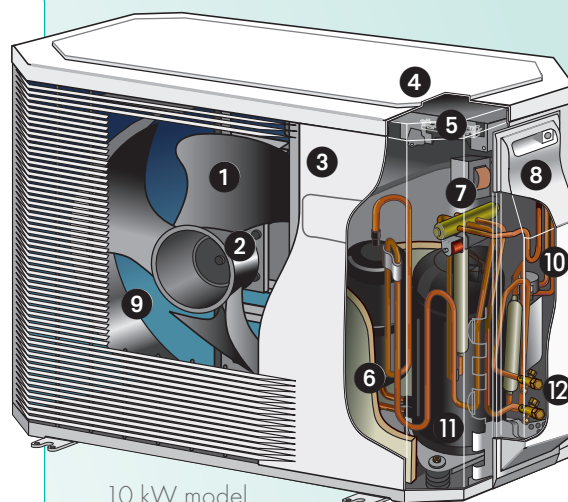
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Class A low consumption circulation pump
- 4 "Gas" refrigeration connection
- 5 "Liquid" refrigeration connection
- 6 Manometer
- 7 Expansion vessel
- 8 Condenser
- 9 DHW electric back-ups



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 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



10 kW model

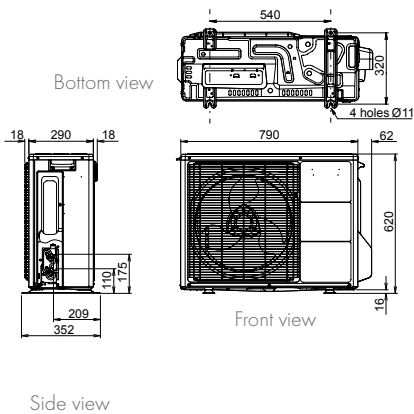
TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ALFEA EXTENSA DUO + 5	ALFEA EXTENSA DUO + 6	ALFEA EXTENSA DUO + 8	ALFEA EXTENSA DUO + 10
REFRIGERANT		R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS					
Heating capacity +7°C/+35°C – Floor Heating	kW	4.50	6.00	7.50	10.00
COP +7°C/+35°C - Floor Heating		4.52	4.26	4.08	4.02
Heating capacity -7°C/+35°C – Floor Heating	kW	4.10	4.60	5.70	7.40
COP -7°C/+35°C - Floor 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 in option	kW	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+
Thermal power (35°C/55°C)	kW	4 / 4	5 / 5	7 / 6	8 / 8
Seasonal energy efficiency - Heating (35°C/55°C)	%	171 / 117	171 / 117	158 / 120	157 / 115
Annual energy consumption - Heating (35°C/55°C)	kWh	2160 / 3027	2510 / 3183	3379 / 3891	4430 / 5422
Sound power level (indoor/outdoor)	dB(A)	46 / 63	46 / 63	46 / 69	46 / 69
Declared load profile - DHW	-	L	L	L	L
Energy class - DHW	-	A+	A+	A+	A+
Annual energy consumption - DHW	kWh	880	880	880	880
Seasonal energy efficiency (%) - DHW	%	120	120	120	120
INDOOR HYDRAULIC MODULE					
Noise level*	dB(A)	39	39	39	39
Dimensions h x w x d	mm	1850x650x698	1850x650x698	1850x650x698	1850x650x698
Net weight/filled weight	kg	152 / 366	152 / 366	152 / 366	152 / 366
OUTDOOR UNIT					
Noise level**	dB(A)	40	40	47	47
Dimensions h x w x d	mm	620x790x290	620x790x290	620x790x290	830x900x330
Operating weight	kg	41	41	42	60
REFRIGERANT CHARACTERISTICS					
Min./max. length	m	5 / 20	5 / 20	5 / 20	5 / 20
Max. diff. in height	m	15	15	15	15

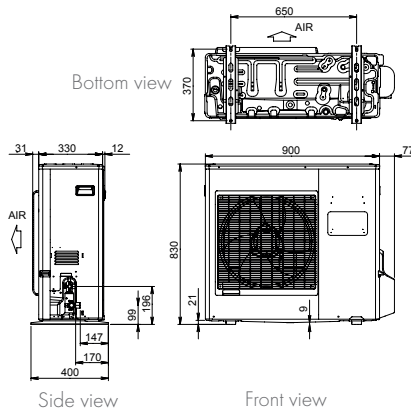
*Acoustic pressure at 1m from HP, 1,5 m high, open field, directivity 2. - **Acoustic pressure at 5m from HP, 1,5 m high, open field, directivity 2.

DIMENSIONS (MM)

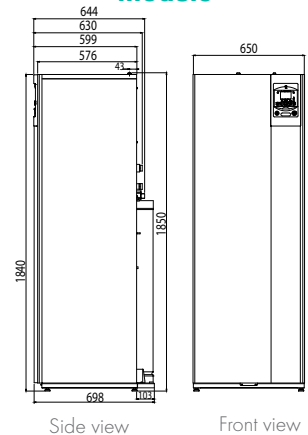
**Outdoor Inverter unit
Alfea Extensa Duo + 5, 6 and 8**



**Outdoor Inverter unit
Alfea Extensa Duo + 10**



**Indoor hydraulic
module**

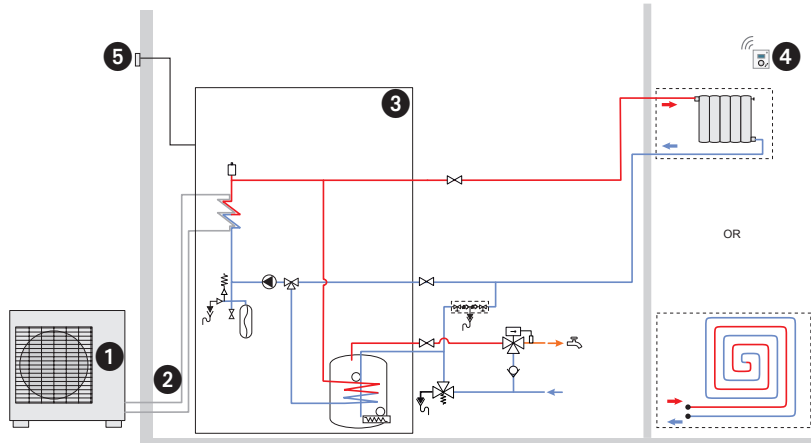


ALFEA EXTENSA DUO +

Installation schematics

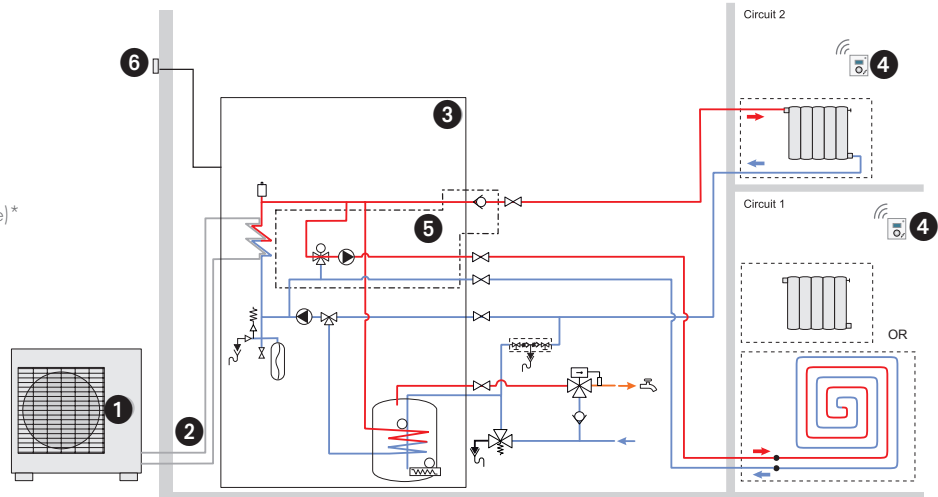
ALFEA EXTENSA DUO +: 1 HEATING ZONE

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module with integrated DHW
- ❹ Room control unit*
- ❺ Outdoor sensor



ALFEA EXTENSA DUO +: 2 HEATING ZONES

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module with integrated DHW
- ❹ Room radio control unit*
- ❺ 2nd zone kit (integrated in the hydraulic module)*
- ❻ Outdoor sensor



ALFEA EXTENSA DUO +: BOILER BACK-UP AND 2 HEATING ZONES

- ❶ Outdoor unit and ground support*
- ❷ Refrigerant connections*
- ❸ Hydraulic module with integrated DHW
- ❹ Room radio control unit*
- ❺ 2nd zone kit (integrated in the hydraulic module)*
- ❻ Boiler connection kit*
- ❼ Boiler
- ❽ Outdoor sensor

