

ALFEA EXCELLIA DUO

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



Outdoor Inverter unit



Indoor hydraulic module

Product

- DHW storage tank included (190L)
- COP : up to 4.3 (+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
- Perfect solution for high heating demand
- 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
- 2 models: 11 and 14 kW - single-phase
- 3 models: 11, 14 and 16 kW - three-phase
- Heating and DHW integrated
- Performing heat pump working with outside temperature from -25°C to +35°C
- Working temperature of 60°C, up to -20°C outside temperature

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 with liquid reinjection technology during compression phase (R410A)
- Double fan
- Full Inverter control

Indoor hydraulic module

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

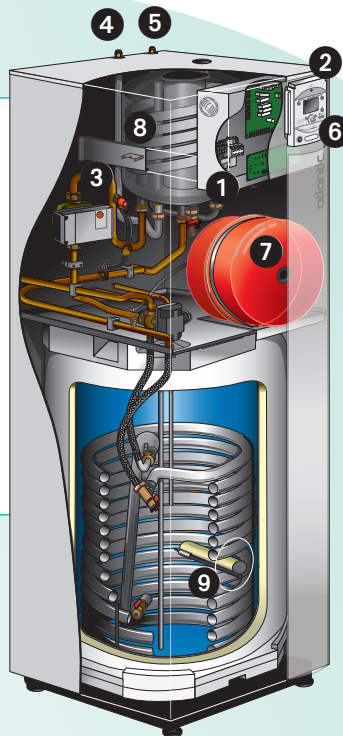


Energy class

35 °C A++	55 °C A+	 A
--------------	-------------	-------

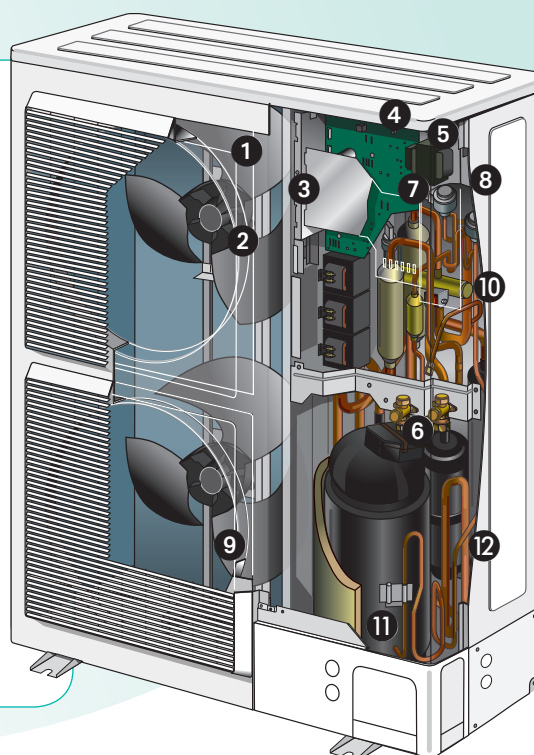
INDOOR HYDRAULIC MODULE

- 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

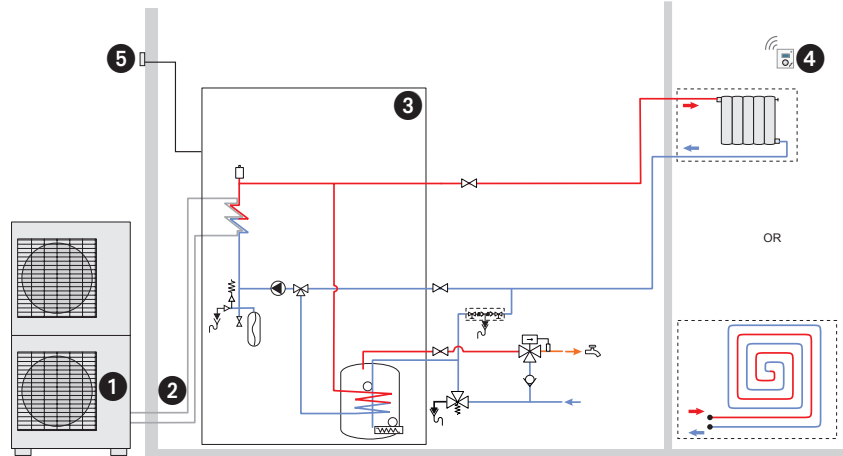


ALFEA EXCELLIA DUO

Installation schematics

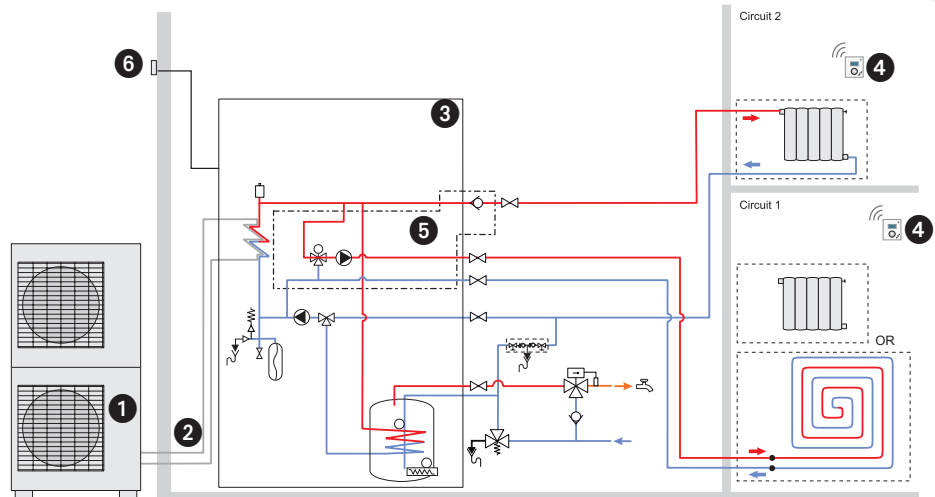
ALFEA EXCELLIA DUO: 1 HEATING ZONE

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



ALFEA EXCELLIA 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 EXCELLIA DUO CONNECTED TO 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

