ALFEA EXTENSA ©

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





Indoor hydraulic module



Outdoor Inverter unit

Product

- COP up to 4.52 (+7°C / +35°C)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive interface and simplified use
- NAVISTEM 400S regulator
- Integrated 16L buffer tank

- Patented coaxial heat exchanger
- Inverter regulation
- Possibility to manage an electric radiator heating zone from the heat pump control panel (option)
- Possibility of remote piloting through a smartphone or a tablet, thanks to the Cozytouch compatibility

DESCRIPTION

- Suitable for new build and renovation
- 4 models: 5 to 10 kW single-phase
- Performing heat pump working with outside temperature from -20°C to +35°C
- Average temperature heating (max. 55°C)

AVAILABLE OPTIONS

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

SUPPLIES

Indoor hydraulic module

- Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter, etc
- Electric back-up heater*

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor

^{*}Models without electric back-up available









Energy class

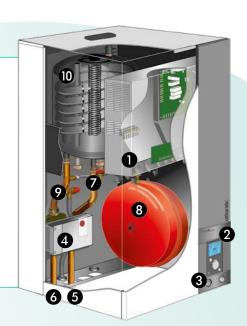






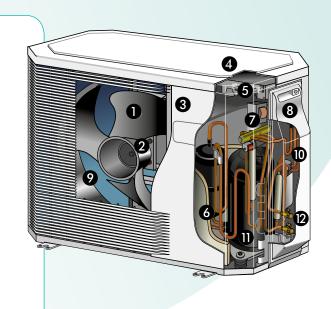
INDOOR HYDRAULIC MODULE

- 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
- Safety valve
- 10 Coaxial heat exchanger



OUTDOOR INVERTER UNIT

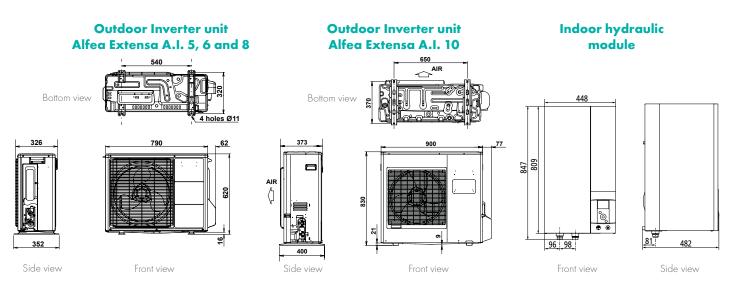
- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- **5** Connection terminals (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- **9** 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"
- Refrigerating connection valves (flared connectors) with protective cover



	UNIT	ALFEA EXTENSA A.I. 5	ALFEA EXTENSA A.I. 6	ALFEA EXTENSA A.I. 8	ALFEA EXTENSA A.I. 1
REFRIGERANT		R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS					
Heating capacity $+7^{\circ}\text{C}/+35^{\circ}\text{C}$ - Underfloor Heating	kW	4.50	6.00	7.50	10.00
$COP + 7^{\circ}C / + 35^{\circ}C$ - 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
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS					
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) with outdoor sensor	%	171 / 117	171 / 117	158 / 120	157 / 115
Seasonal energy efficiency - Heating (35°C/55°C)	%	169 / 115	169 / 115	156 / 118	155/ 113
Annual energy consumption - Heating (35°C/55°C)	kWh	2160 / 3027	2505 / 3180	3375 / 3886	4415 / 5415
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	46 / 63	46 / 63	46 / 69	46 / 69
INDOOR HYDRAULIC MODULE					
Noise level ⁽²⁾	dB(A)	39	39	39	39
Net weight/filled weight ⁽³⁾	kg	46 / 62	46 / 62	46 / 62	46 / 62
Power supply		230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
OUTDOOR UNIT					
Noise level ⁽⁴⁾	dB(A)	41	41	47	47
Operating weight	kg	41	41	42	60
REFRIGERANT CHARACTERISTICS					
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 ₂ 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 1 m 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.

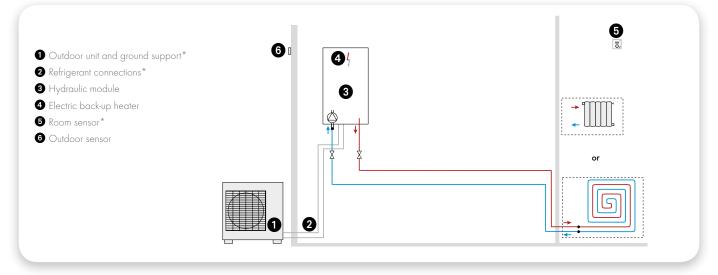
DIMENSIONS (MM)



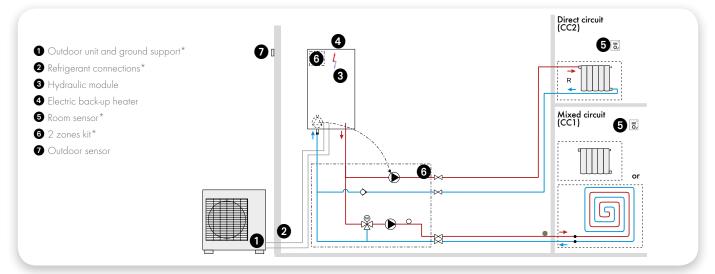
ALFEA EXTENSA ©

Installation schematics

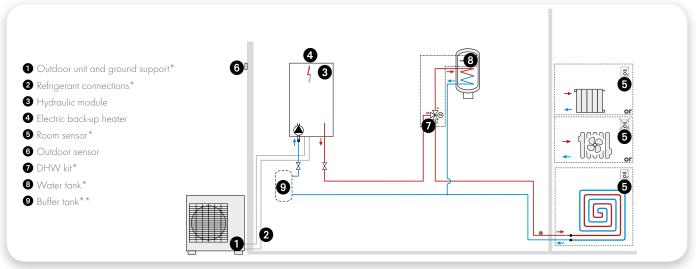
ALFEA EXTENSA A.I.: 1 HEATING ZONE



ALFEA EXTENSA A.I.: 2 HEATING ZONES



ALFEA EXTENSA A.I.: 1 HEATING ZONE + WATER TANK



ALFEA EXTENSA DUO

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





Indoor hydraulic module



Outdoor Inverter unit

Product

- Integrated DHW storage tank (190L)
- COP up to 4.52 (+7°C / +35°C)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive interface and simplified use
- NAVISTEM 400S regulator

- Integrated 16L buffer tank
- Patented coaxial heat exchanger
- Inverter regulation
- Possibility to manage an electric radiator heating zone from the heat pump control panel (option)
- Possibility of remote piloting through a smartphone or a tablet, thanks to the Cozytouch compatibility

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
- Average temperature heating (max. 55°C)

AVAILABLE OPTIONS

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

SUPPLIES

Indoor hydraulic module

- DHW storage tank integrated (190L)
- Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter, etc.
- Electric back-up heater*

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor

^{*}Models without electric back-up available











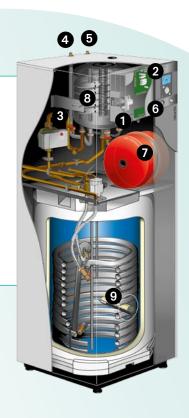






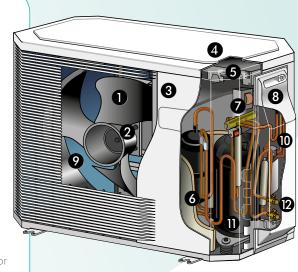
INDOOR HYDRAULIC MODULE

- 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-ups



OUTDOOR INVERTER UNIT

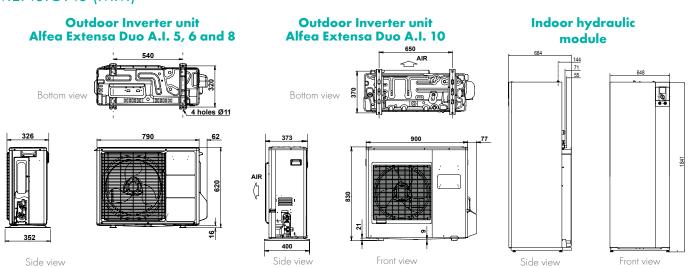
- 1 Low-noise, high-output ventilator
- 2 Electric variable speed motor
- 3 "Inverter" control module
- 4 Control lights and buttons
- **5** Connection terminal blocks (power supply and interconnection)
- 6 Refrigerant accumulator bottle
- 7 Cycle reversing valve
- 8 Anti-corrosion treated metal cover
- 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
- Refrigerating connection valves (flared connectors) with protective cover



	UNIT	DUO A.I. 5	DUO A.I. 6	DUO A.I. 8	DUO A.I. 10
REFRIGERANT		R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS					
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
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTICS					
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) with outdoor sensor	%	171 / 117	171 / 117	158 / 120	157 / 115
Seasonal energy efficiency - Heating (35°C/55°C)	%	169 / 115	169 / 115	156 / 118	155/113
Annual energy consumption - Heating (35°C/55°C)	kWh	2160 / 3027	2505 / 3180	3375 / 3886	4415 / 5415
Sound power level (indoor/outdoor)(1)	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 ⁽²⁾	dB(A)	39	39	39	39
Net weight/filled weight ⁽³⁾	kg	152 / 373	152 / 373	152 / 373	152 / 373
Power supply		230V / 50Hz	230V / 50Hz	230V / 50Hz	230V / 50Hz
OUTDOOR UNIT					
Noise level ⁽⁴⁾	dB(A)	41	41	47	47
Operating weight	kg	41	41	42	60
REFRIGERANT CHARACTERISTICS					
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 ₂ equivalent	t	2	2	3	4

ALFEA EXTENSA ALFEA EXTENSA

DIMENSIONS (MM)

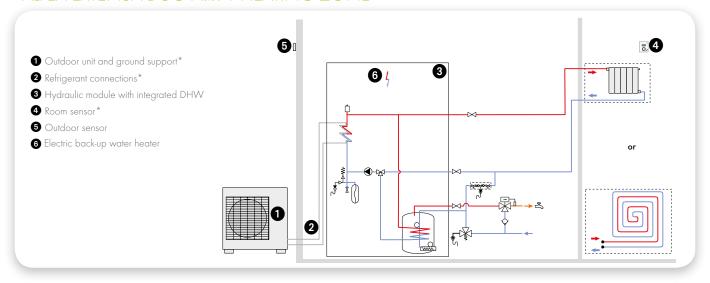


⁽¹⁾ Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1 m from HP,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

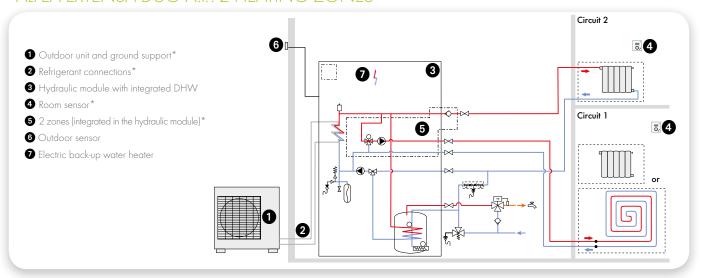
ALFEA EXTENSA DUO

Installation schematics

ALFEA EXTENSA DUO A.I.: 1 HEATING ZONE



ALFEA EXTENSA DUO A.I.: 2 HEATING ZONES



ALFEA EXCELLIA

Split air-to-water heat pump for improved performances
High performance solution for large houses and/or cold climate





Indoor hydraulic module



Outdoor Inverter unit

Product

- COP up to 4.3 (+7°C / +35°C)
- Compatible with all kinds of heating devices (underfloor heating/cooling, radiators, fan coils)
- · Intuitive interface and simplified use
- NAVISTEM 400S regulator
- · Perfect solution for high heating demand
- Integrated 16L buffer tank

- Patented coaxial heat exchanger
- Inverter regulation
- Possibility to manage an electric radiator heating zone from the heat pump control panel (option)
- Possibility of remote piloting through a smartphone or a tablet, thanks to the Cozytouch compatibility

DESCRIPTION

- Suitable for new build and renovation
- 2 models: 11 and 14 kW single-phase
- 3 models: 11, 14 and 16kW three-phase
- Heating only
- Performing heat pump working with outside temperature from -25°C to +35°C
- Working temperature of 60°C, down to -20°C outside temperature

AVAILABLE OPTIONS

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

SUPPLIES

Indoor hydraulic module

- · Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Expansion vessel, valve, etc.
- Electric panel and terminal blocks
- Electric back-up heater*

Outdoor Inverter unit

- Refrigerant circuit uses liquid reinjection technology during compression phase (R410A)
- Twin Rotary compressor
- Double fan

^{*}Models without electric back-up available











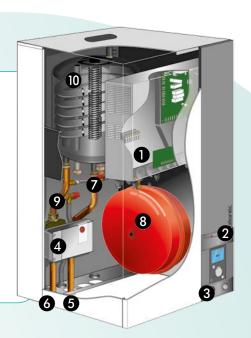






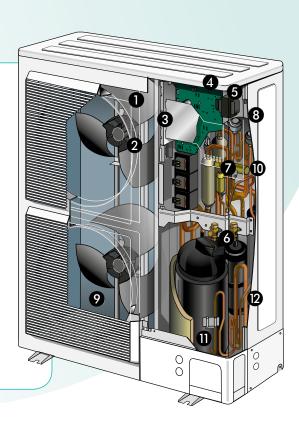
INDOOR HYDRAULIC MODULE

- 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
- 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
- Refrigerating connection valves (flared connectors) with protective cover



UNIT

		A.I. I I	A.I. 14	/\.l.	A.I. INI 14	A.I. IKI 10
REFRIGERANT		R410A	R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS						
Heating capacity +7°C/+35°C – Underfloor Heating	kW	10.80	13.50	10.80	13.00	15.1 <i>7</i>
COP +7°C/+35°C - Underfloor Heating		4.25	4.18	4.30	4.18	4.10
Heating capacity -7°C/+35°C – Underfloor Heating	kW	10.38	11.54	10.38	12.20	12.98
COP -7°C/+35°C - Underfloor Heating		2.40	2.27	2.43	2.38	2.40
Heating capacity +7°C/+45°C – Low T°radiators	kW	9.05	11.32	9.90	12.10	12.75
COP +7°C/+45°C – Low T°radiators		3.21	3.07	3.32	3.20	3.21
Heating capacity -7°C/+45°C – Low T°radiators	kW	9.16	11.41	9.98	10.70	12.95
COP -7°C/+45°C – Low T°radiator		2.00	1.93	2.16	2.08	2.03
Heating capacity +7°C/+55°C - Radiators	kW	7.59	9.48	9.29	10.60	12.24
COP +7°C/+55°C – Radiators		2.47	2.40	2.64	2.41	2.48
Heating capacity -7°C/+55°C - Radiators	kW	7.57	9.20	9.27	10.10	12.00
COP -7°C/+55°C – Radiators		1.66	1.81	1.82	1.79	1.74
Additional adjustable electric back-up heater	kW	6	6	9	9	9
energy efficiency & acoustic characteristic						
Energy class - Heating (35°C/55°C)	-	A++ / A+				
Rated heat output (35°C/55°C)	kW	11/9	13 / 11	11/9	13 / 11	14 / 13
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	153 / 114	150 / 115	156 / 114	152 / 119	151 / 119
Seasonal energy efficiency - Heating (35°C/55°C)	%	151 / 112	148/113	154 / 112	150 / 117	149 / 117
Annual energy consumption - Heating (35°C/55°C)	kWh	6062 / 6623	6824 / 8041	5930 / 6669	6738 / 7803	7408 / 9062
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	46 / 69	46 / 69	46 / 68	46 / 69	46 / 69
INDOOR HYDRAULIC MODULE						
Noise level ⁽²⁾	dB(A)	39	39	39	39	39
Net weight/filled weight ⁽³⁾	kg	46 / 62	46 / 62	46 / 62	46 / 62	46 / 62
Power supply		230 V / 50 Hz	230 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 H
OUTDOOR UNIT						
Noise level ⁽⁴⁾	dB (A)	47	47	46	47	47
Operating weight	kg	92	92	99	99	99
REFRIGERANT CHARACTERISTICS						
Min./max. length	m	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20
Max. difference in height	m	15	15	15	15	15
R410A factory load	g	2500	2500	2500	2500	2500
Quantity of refrigerant in tons of CO ₂ equivalent	t	5	5	5	5	5

ALFEA EXCELLIA ALFEA EXCELLIA

A.I. 14

A.I. TRI 11

ALFEA EXCELLIA ALFEA EXCELLIA ALFEA EXCELLIA

A.I. TRI 14

A.I. TRI 16

DIMENSIONS (MM)

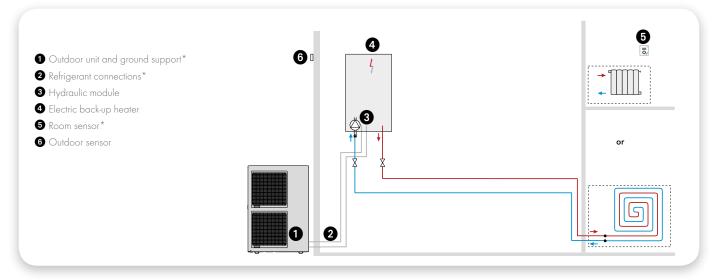
Indoor hydraulic Outdoor Inverter unit Alfea Excellia **Outdoor Inverter unit Alfea Excellia** A.I. 11 and 14 single-phase A.I. 11, 14 and 16 three-phase module 650 650 Air <\ra>Air Flow opening (Ø20) 4 holes (Ø10) 448 Flow opening (Ø20) Bottom view Bottom view 373 900 373 900 847 Air 1290 1290 Air 81 482 96 98 400 400 Side view Front view Side view Front view Front view Side view

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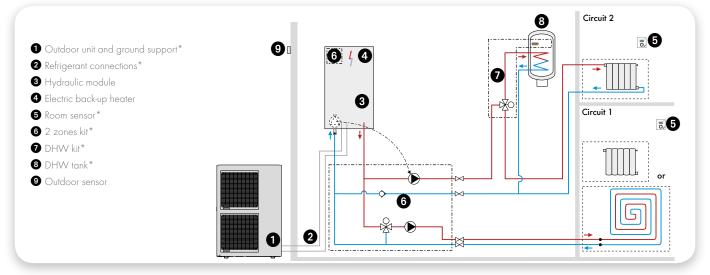
ALFEA EXCELLIA

Installation schematics

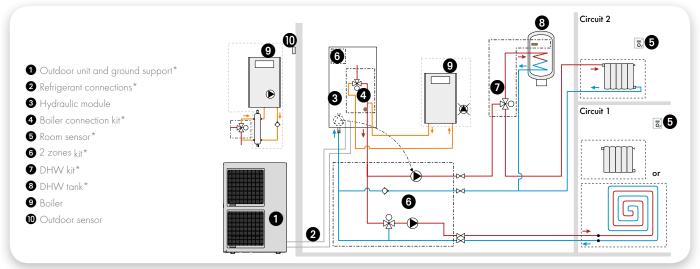
ALFEA EXCELLIA A.I.: 1 HEATING ZONE



ALFEA EXCELLIA A.I.: 2 HEATING ZONES AND DHW PRODUCTION



ALFEA EXCELLIA A.I. CONNECTED TO BOILER: 2 HEATING ZONES + DHW PRODUCTION



ALFEA EXCELLIA DUO

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





Indoor hydraulic module



Outdoor Inverter unit

Product

- Integrated DHW storage tank (190L)
- COP up to 4.3 (+7°C / +35°C)
- Compatible with all kinds of heating devices (underfloor heating/cooling, radiators, fan coils)
- Intuitive interface and simplified use
- NAVISTEM 400S regulator
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AVAILABLE OPTIONS

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

SUPPLIES

Indoor hydraulic module

- DHW storage tank integrated (190L)
- Coaxial exchanger immersed in buffer tank
- Low consumption circulation pump
- Expansion vessel, pressure meter, etc.
- Outdoor sensor
- Electric back-up heater*

Outdoor Inverter unit

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

^{*}Models without electric back-up available









Energy class

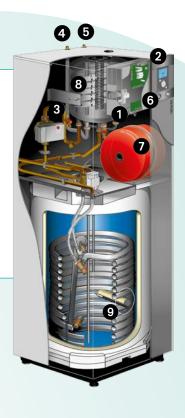






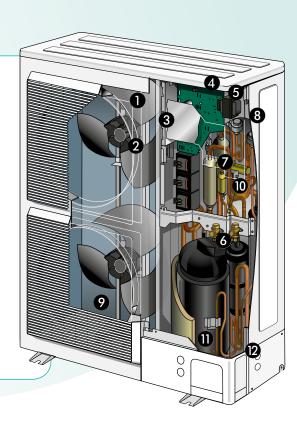
INDOOR HYDRAULIC MODULE

- 1 Electric board
- 2 User interface/regulator
- 3 Low consumption circulation pump
- 4 "Gas" refrigeration connection
- **5** "Liquid" refrigeration connection
- **6** Manometer
- Expansion vessel
- 8 Coaxial heat exchanger
- 9 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** Connection terminal blocks (power supply and interconnection)
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- 8 Anti-corrosion treated metal cover
- 9 High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
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- 11 Noise and temperature insulated "Inverter" compressor
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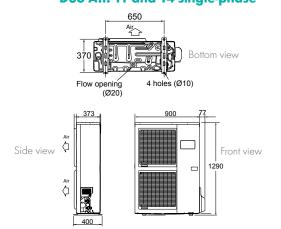


	UNIT	ALFEA EXCELLIA DUO A.I. 11	Alfea excellia Duo a.i. 14	Alfea excellia Duo a.i. Tri 11	Alfea excellia Duo a.i. Tri 14	Alfea excell Duo a.i. Tri 1
REFRIGERANT		R410A	R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS						
Heating capacity +7°C/+35°C – Underfloor Heating	kW	10.80	13.50	10.80	13.00	15.17
COP +7°C/+35°C - Underfloor Heating		4.25	4.18	4.30	4.18	4.10
Heating capacity -7°C/+35°C – Underfloor Heating	kW	10.38	11.54	10.38	12.20	12.98
COP -7°C/+35°C - Underfloor Heating		2.40	2.27	2.43	2.38	2.40
Heating capacity +7°C/+45°C – Low T°radiators	kW	9.05	11.32	9.90	12.10	12.75
COP +7°C/+45°C – Low T°radiators		3.21	3.07	3.32	3.20	3.21
Heating capacity -7°C/+45°C – Low T°radiators	kW	9.16	11.41	9.98	10.70	12.95
COP -7°C/+45°C – Low T°radiator		2.00	1.93	2.16	2.08	2.03
Heating capacity +7°C/+55°C - Radiators	kW	7.59	9.48	9.29	10.60	12.24
COP +7°C/+55°C – Radiators		2.47	2.40	2.64	2.41	2.48
Heating capacity -7°C/+55°C - Radiators	kW	7.57	9.20	9.27	10.10	12.00
COP -7°C/+55°C – Radiators		1.66	1.81	1.82	1.79	1.74
Additional electric back-up heater	kW	6	6	9	9	9
ENERGY EFFICIENCY & ACOUSTIC CHARACTERISTIC	S					
Energy class - Heating (35°C/55°C)	-	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
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	153 / 114	150 / 115	156 / 114	152 / 119	151 / 119
Seasonal energy efficiency - Heating (35°C/55°C)	%	151 / 112	148 / 113	154 / 112	150 / 117	149 /117
Annual energy consumption - Heating (35°C/55°C)	kWh	6062 / 6623	6824 / 8041	5930 / 6669	6738 / 7803	7408 / 9062
Sound power level (indoor/outdoor)(1)	dB(A)	46 / 69	46 / 69	46 / 68	46 / 69	46 / 69
Declared load profile - DHW	-	L	L	L	L	L
Energy class - DHW	-	А	А	А	А	А
Annuel water heating energy consumption	kWh	1166	1166	1166	1166	1166
Seasonal water heating energy efficiency (%)	%	88	88	88	88	88
INDOOR HYDRAULIC MODULE						
Noise level ⁽²⁾	dB(A)	39	39	39	39	39
Net weight/filled weight(3)	kg	155 / 373	155 / 373	155 / 373	155 / 373	155 / 373
Power supply		230 V / 50 Hz	230 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 H
OUTDOOR UNIT						
Noise level ^[4]	dB(A)	47	47	46	47	47
Operating weight	kg	92	92	99	99	99
REFRIGERANT CHARACTERISTICS						
Min./max. length	m	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20
Max. difference in height	m	15	15	15	15	15
R410A factory load	g	2500	2500	2500	2500	2500
Quantity of refrigerant in tons of CO ₂ equivalent	t	5	5	5	5	5

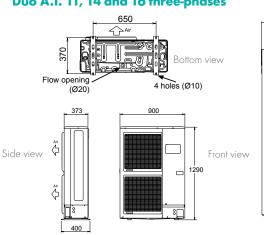
⁽¹⁾ Sound power level is a laboratory measurement of the sound power emitted by the product, but it does not correspond to the sound perceived. Used by acoustics specialists, it allows to measure the sound pressure level of the product in its working environment. - (2) Acoustic pressure at 1 m from HP,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

DIMENSIONS (MM)

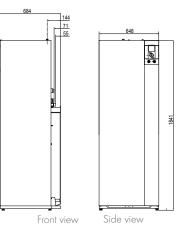
Outdoor Inverter unit Alfea Excellia Duo A.I. 11 and 14 single-phase



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



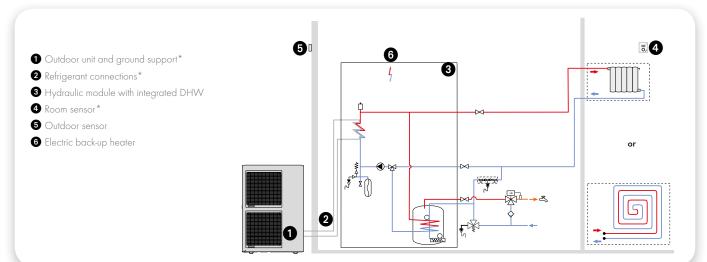
Indoor hydraulic module



ALFEA EXCELLIA DUO

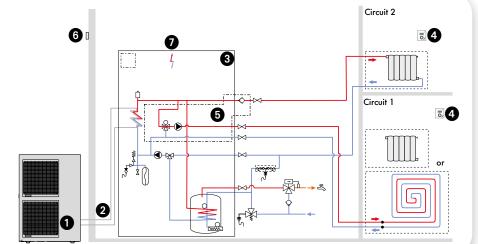
Installation schematics

ALFEA EXCELLIA DUO A.I.: 1 HEATING ZONE

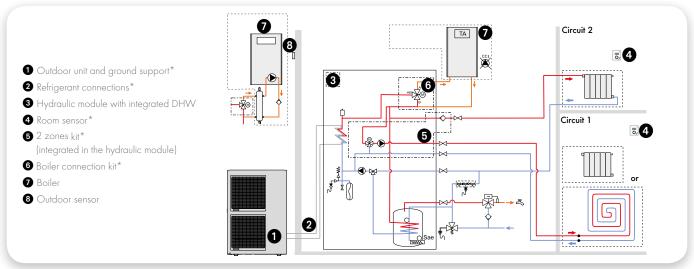


ALFEA EXCELLIA DUO A.I.: 2 HEATING ZONES

- Outdoor unit and ground support*
 Refrigerant connections*
- 3 Hydraulic module with integrated DHW
- 4 Room sensor*
- 5 2 zones kit* (integrated in the hydraulic module)
- 6 Outdoor sensor
- Telectric back-up heater



ALFEA EXCELLIA DUO A.I. CONNECTED TO BOILER: BACK-UP AND 2 HEATING ZONES



ALFEA HYBRID DUO OIL LOW NOX

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





Indoor hydraulic module



Outdoor Inverter unit

- Built-in 25 kW low NOx oil burner (<80 mg/kWh)
- Integrated 125L stainless steel DHW tank
- High temperature solution (80°C) for renovation projects
- Ergonomic control: outdoor sensor control (standard supply) and programmable indoor temperature
- NAVISTEM 200S regulator

- COP up to 4.08 (+7°C / +35°C)
- Patented coaxial heat exchanger
- Inverter regulation
- Low energy consumption circulation pump
- Easy installation and maintenance: hinged heating element access panel, accessible components, maintenance platform integrated in burner

DESCRIPTION

- Replacement of existing oil boiler
- 4 models: 11 to 14kW single-phase (chimney/flue)
- 6 models: 11 to 16kW three-phase (chimney/flue)
- Heating and DHW integrated
- 1 or 2 heating zones
- Performing heat pump working with outside temperature from -25°C to +35°C

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play kit)
- Room sensor

SUPPLIES

Indoor hydraulic module

- Fully integrated system with coaxial exchanger and oil exchanger
- 125L stainless steel DHW tank
- Built-in 25 kW low NOx oil burner (<80 mg/kWh)
- Heat circulation pump
- Expansion vessel, valve, pressure meter
- Outdoor sensor
- · Motorised mixing valve

Outdoor Inverter unit

Outdoor Inverter unit with Twin Rotary compressor







Energy class

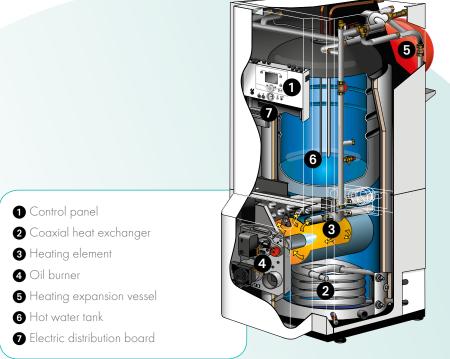






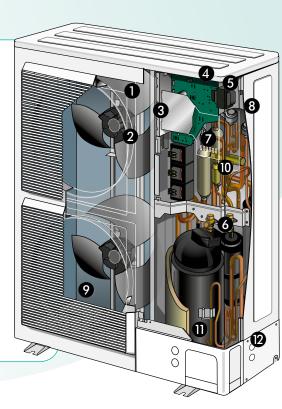


INDOOR HYDRAULIC MODULE



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
- High performance exchange surface evaporator; anti-corrosion treated hydrophilic aluminium fins and grooved copper tubes
- Electronic expansion valve
- 1 Noise and temperature insulated "Inverter" compressor
- Refrigerating connection valves (flared connectors) with protective cover



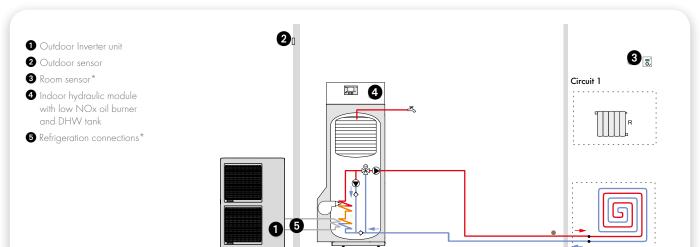
	UNIT	ALFEA HYBRID DUO OIL LOW NOx 11	ALFEA HYBRID DUO OIL LOW NOx 14+	ALFEA HYBRID DUO OIL LOW NOx TRI 11	ALFEA HYBRID DUO OIL LOW NOx TRI 14	ALFEA HYBRI DUO OIL LO\ NOx TRI 16
REFRIGERANT		R410A	R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS						
Heating capacity +7°C/+35°C - Underfloor Heating	kW	10.30	13.50	10.60	13.25	14.89
COP +7°C/+35°C	-	3.95	3.80	3.90	4.08	3.96
Heating capacity -7°C/+35°C - Underfloor Heating	kW	10.10	11.22	9.75	13.00	13.50
COP -7°C /+35°C	-	2.56	2.4	2.65	2.51	2.5
Heating capacity +7°C/+45°C - Low T° radiators	kW	9.05	11.32	10.10	12.60	13.00
COP +7°C/+55°C	-	3.21	3.07	3.36	3.31	3.25
Heating capacity -7°C/+45°C - Low T° radiators	kW	8.33	10.41	8.66	12.5	13
COP -7°C/+45°C	-	2.06	1.99	2.14	2.08	2.04
Nominal thermal power of oil back-up	kW	25	25	25	25	25
ENERGY EFFICIENCY CHARACTERISTICS - HEATIN	G - AVER					
Energy class - Heating (55°C)	- 1347	A+	A+	A+	A+	A+
Thermal power - heat pump (55°C) Seasonal energy efficiency - Heating (55°C)	kW	10	13	11	13	14
with outdoor sensor	%	113	113	118	116	115
Seasonal energy efficiency - Heating (55°C)	%	111	111	116	114	113
Annual energy consumption - Heating (55°C)	kWh	7266	8806	7424	8896	9734
Sound power level (indoor/outdoor)(1)	dB(A)	44 / 69	44 / 70	44 / 68	44 / 68	44 / 69
ENERGY EFFICIENCY CHARACTERISTICS - DHW - ,	AVERAGE	CLIMAT				
Declared load profile	-	Μ	Μ	М	М	M
Energy class - DHW	-	Α	А	А	А	А
Annual energy consumption - DHW	kWh	616	616	616	616	616
Seasonal energy efficiency (%) - DHW	%	82	82	82	82	82
INDOOR HYDRAULIC MODULE						
Noise level on Thermodynamic mode ⁽²⁾	dB(A)	36	36	36	36	36
Dim. chimney version h x w x d	mm	1711x670x1075	1711x670x1075	1711x670x1075	1711x670x1075	1711x670x107
Dim. room sealed system version h x w x d		1711x670x1206	1711x670x1206	1711x670x1206	1711x670x1206	1711x670x120
Net weight/filled weight	kg	215 / 482	215 / 482	215 / 482	215 / 482	215 /482
HYDRAULIC CHARACTERISTICS						
Combustion chamber capacity	L	142	142	142	142	142
Max working pressure	bar	3	3	3	3	3
Expansion vessel capacity	L	18	18	18	18	18
ELECTRICAL CONNECTIONS						
Power supply	V / Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 H
Standby mode consumption	W	5	5	5	5	5
HYDRAULIC CONNECTIONS	"	1 /0/ 0/	1 /0/ 0/	1 / 0 / 0 /	1 / 0 / 0 /	1 /0/ 0/
Ø Heating circ. inlet and outlet	" - mm	1 / 26×34	1 / 26×34	1 / 26 x 34	1 / 26×34	1 / 26×34
Ø DHW circ. inlet and outlet (male thread)	" - mm	3/4 / 20×27	3/4 / 20×27	3/4 / 20×27	3/4 / 20×27	3/4 / 20×27
CHIMNEY CONNECTION Ø Chimney inlet and outlet		105 / 100	105 / 100	125 / 139	105 / 100	105 / 100
Burner optimum depression	m Pa	125 / 139 15	125 / 139 15	125 / 139	125 / 139 15	125 / 139 15
ROOM SEALED SYSTEM CONNECTION DEPENDIN			15	15	13	13
Ø Pipe		80 / 125	80 / 125	80 / 125	80 / 125	80 / 125
OPERATING RANGE	mm	60 / 123	60 / 123	60 / 123	60 / 123	60 / 123
	°C	25 / .25	25 / .25	25 / .25	25 / .25	25 / .25
Min./max. hot/cold outdoor temperature (heat pump) Heating flow water max T°	°C	-25 / +35 80	-25 / +35 80	-25 / +35 80	-25 / +35 80	-25 / +35 80
Max water T°(heat pump)	°C	60	60	60	60	60
OUTDOOR UNIT		00	00	00	00	00
Noise level ^[3]	dB(A)	46	47	46	47	48
Operating weight	ав(А) kg	92	92	99	99	99
Power supply	V / Hz	230 V / 50 Hz	230 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 H
REFRIGERANT CHARACTERISTICS	¥ / 11Z	200 4 / 30 112	200 7 / 30 112	400 7 / 30112	400 7 / 30 112	400 7 / 30 11
R410A factory load		2500	2500	2500	2500	2500
Quantity of refrigerant in tons of CO ² equivalent	9	5	5	5	5	5
Min./max. length	m	5 / 20	5 / 20	5 / 20	5 / 20	5 / 20
Max. difference in height	m	15	15	15	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 1 m 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.

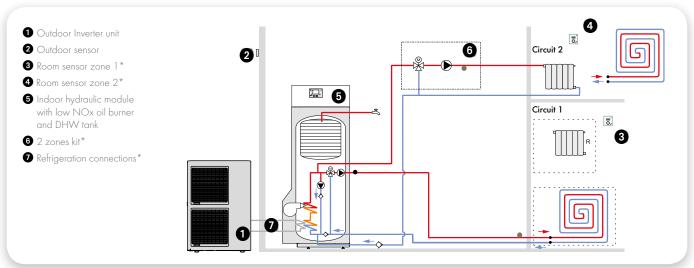
ALFEA HYBRID DUO OIL LOW NOX

Installation schematics

ALFEA HYBRID DUO OIL LOW NOX: 1 HEATING ZONE



ALFEA HYBRID DUO OIL LOW NOX: 2 HEATING ZONES

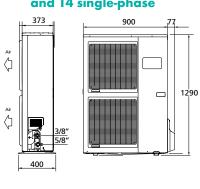


*Option

Side view

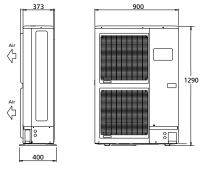
DIMENSIONS (MM)

Outdoor Inverter unit Alfea Hybrid Duo Oil Low NOx 11 and 14 single-phase



Front view

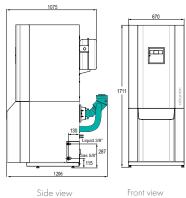
Outdoor Inverter unit Alfea Hybrid Duo Oil Low NOx 11, 14, 16 three-phase



Front view

Side view

Indoor hydraulic module



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



- Condensing and modulating gas generator
- Included 120L enamelled steel DHW storage tank
- High temperature solution (80°C) for renovation projects
- COP up to 4.37 (+7°C/+35°C)
- Ergonomic control: outdoor sensor control (standard supply) and programmable indoor temperature
- NAVISTEM 2005 regulator
- Improved heat pump performance at low temperature
- Easy installation and maintenance: hinged heating element access panel, accessible components, maintenance platform integrated in burner
- Patented coaxial heat exchanger
- Inverter regulation
- Low energy consumption circulation pump
- Innovation with Alfea Hybrid Duo Gas R models: cooling mode & new control option allowing energy cost input to optimise heating with more energy savings

DESCRIPTION

- Replacement of existing gas boiler
- 4 models: 6, 8, 11 and 14kW single-phase
- 3 models: 11, 14 and 16kW three-phase
- · Heating and DHW integrated
- Performing heat pump working with outside temperature from -25°C to +35°C
- 1 or 2 heating zones
- Control: new feature allowing energy cost input to optimise heating with more energy savings*
- · Cooling mode*

AVAILABLE OPTIONS

- 2 zones kit (plug-and-play kit)
- · Boiler connection kit
- Cooling kit*
- Room sensor

SUPPLIES

Indoor hydraulic module

- Coaxial exchanger
- Condensing boiler, 24kW supplied with propane option (natural gas diaphragm supplied)
- 120L glass-lined steel hot water tank with ACI protection
- Low energy consumption circulation pumpl
- Expansion vessel, valve, pressure meter
- Outdoor sensor
- Motorised mixing valve

Outdoor Inverter unit

Outdoor Inverter unit with Twin Rotary compressor







Energy class



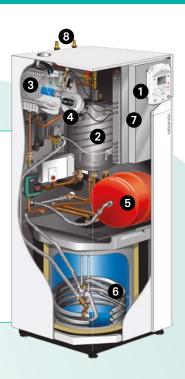






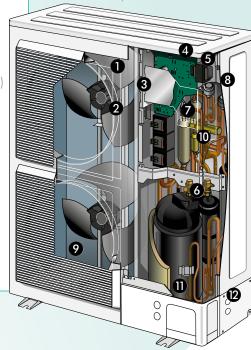
INDOOR HYDRAULIC MODULE

- 1 Control panel
- 2 Coaxial heat exchanger
- 3 Gas condensing unit
- 4 Gas burner
- **5** Heating expansion vessel
- 6 Hot water tank
- Electric distribution board
- 8 Refrigerant connections



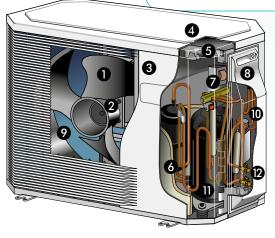
OUTDOOR INVERTER UNIT

- 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
- 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
- Refrigerating connection valves (flared connectors) with protective cover



Outdoor Inverter unit 11, 14 and 16kW

Outdoor Inverter unit 6 and 8kW



		UNIT	ALFÉA HYBRID DUO GAS R 6	ALFÉA HYBRID DUO GAS R 8	ALFEA HYBRID DUO GAS 11	ALFEA HYBRID DUO GAS 14	ALFEA HYBRID DUO GAS TRI 11	ALFEA HYBRID DUO GAS TRI 14	ALFEA HYBRID DUO GAS TRI 16
	THERMODYNAMIC PERFORMANCE		<i>37</i> 10 11 0	O/ to it o	O/ 10 11	371314	O/ 10 TRI TT	O/ 10 110 14	<i>57</i> 10 110 10
	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
	CONDENSING GAS BACK-UP BURNER PERFORMAN	NCES							
	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
ErP	ENERGY EFFICIENCY & ACOUSTIC VALUES								
	Energy class - Heating (55°C)	-	A+	A+	A+	A+	A+	A+	A+
	Rated heat output (55°C) Pac	kW	5	6	9	11	9	11	13
	Seasonal energy efficiency - Heating (55°C)	%	117	120	114	115	114	119	119
	with outdoor sensor								
	Seasonal energy efficiency - Heating (55°C)	%	115	118	112	113	112	117	117
	Annual energy consumption - Heating (55°C)	kWh	3180	3836	6841	8041	6669	7803	9062
	Sound power level (indoor/outdoor) ⁽¹⁾	dB (A)	46 / 63	46 / 69	46 / 69	46 / 70	46 / 66	46 / 68	46 / 69
ErP	DHW ENERGY EFFICIENCY								
	Declared load profile	-	XXL	XXL	XXL	XXL	XXL	XXL	XXL
	Energy class - DHW	-	В	В	В	В	В	В	В
	Seasonal energy efficiency (%) - DHW	kWh	6446	6446	6446	6446	6446	6446	6446
	Seasonal energy efficiency (%) - DHW	%	74	74	74	74	74	74	74
	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
	BALANCE FLUE CONNECTION (VERTICAL AND HO								
	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
	CHIMNEY CONNECTION								
	Ø Smoke tubes	mm	80	80	80	80	80	80	80
	INDOOR HYDRAULIC MODULE								
	Noise level ⁽²⁾	dB (A)	39	39	39	39	39	39	39
	Dimensions h x w x d	mm				1800x598x647			
	Operating weight	kg	135 / 278	135 / 278	135 / 278	135 / 278	135 / 278	135 / 278	135 / 278
	OUTDOOR UNIT								
	Noise level ⁽³⁾	dB(A)	41	47	47	48	44	46	47
	Operating weight	kg	41	42	92	92	99	99	99
	Power supply	V / Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz	400 V / 50 Hz
	REFRIGERANT CHARACTERISTICS								
	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 ² 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 1 m from HP, 1,5 m height, directivity 2 - (3) Acoustic pressure at 1 m from HP, 5 m height, directivity 2

DIMENSIONS (MM)

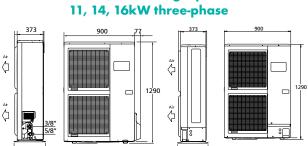
Outdoor Inverter unit Alfea Hybrid Duo Gas R6, R8

Top view

540 4 holes@1

Side view

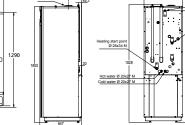
Outdoor Inverter unit Alfea Hybrid Duo Gas 11, 14kW single-phase and 11, 14, 16kW three-phase



Side view

Front view

Front view



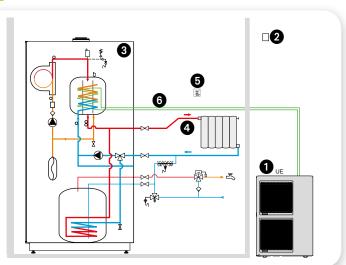
Indoor hydraulic module

ALFEA HYBRID DUO GAS / GAS R

Installation schematics

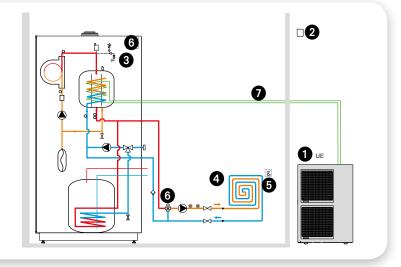
ALFFA HYBRID DUO GAS: 1 HFATING 70NF

- 1 Outdoor Inverter unit
- 2 Outdoor sensor
- 3 Indoor hydraulic module with back-up boiler and DHW tank
- 4 Radiators
- **5** Room sensor*
- 6 Refrigeration connections*



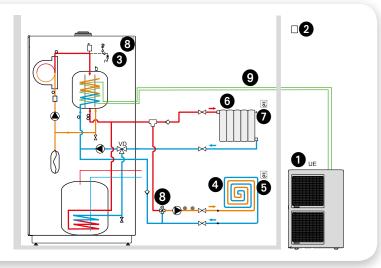
ALFEA HYBRID DUO GAS: 1 HEATING ZONE - UNDERFLOOR HEATING

- 1 Outdoor Inverter unit
- 2 Outdoor sensor
- 3 Indoor hydraulic module with back-up boiler and DHW tank
- 4 Underfloor heating
- **5** Room sensor*
- 6 2 zones kit or floor heating*
- 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 sensor zone 1*
- **6** Radiators
- 7 Room sensor zone 2*
- 8 2 zones kit or underfloor heating*
- 9 Refrigeration connections*



ALFEA RANGE ACCESSORIES

ROOM SENSOR UNIT NAVILINK A59







- Indoor temperature and operating mode display
- Possibility of set temperature modification
- Easy management of Absence and Vacation modes

DESCRIPTION

- Power supply by wire or by battery
- Indoor temperature measurement
- Main functions control: ambiant temperature and operating modes settings

ROOM SENSORS NAVILINK A75 / A78







- Indoor temperature and operating mode display
- Possibility of set temperature modification
- Easy management of Absence and Vacation modes
- Possibility of hourly programming
- Energy consumption indicator

DESCRIPTION

- 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:
 - standard (Mileo)
 - thermodynamique optimisation (Mileo+)

DESCRIPTION

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



2 zones kit for single service heat pump

Product

- 2 zones kit for dual service heat pump (except Alfea Hybrid Duo Gas)
- Integrated low consumption circulation pump (exept for Hybrid range)

DESCRIPTION

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

COOLING KIT





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

DESCRIPTION

- Plug-in cooling kit
- Allows reversibility function (available for all Alfea models, exept for Alfea Hybrid Duo Oil Low NOx)

HEAT PUMP ADDITIONAL RELAY KIT







- 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 6kW

DESCRIPTION

- 6KW 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



Refrigerant



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.





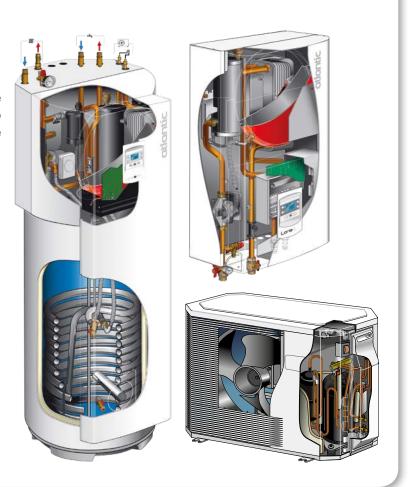
■ TECHNICAL BENEFITS

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 Duol



LORIA RANGE



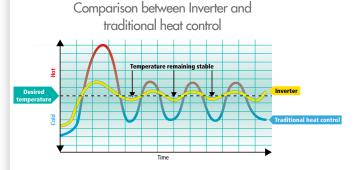
Easy maintenance

- Hinged electric cabinet to access internal components
- Loria: filter valve (as standard) outside the hydraulic module, easy to remove and clean



Easy set-up

- Inverter regulation, acting directly on the compressor rate
- Configurable temperature control
- Choice of control options:
- 2 heating zones
- Cooling
- DHW storage tank
- Floor drying programme



Performances

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

Atlantic regulator

NAVISTEM 100H

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



LORIA

Split energy-efficient air-to-water heat pump Average temperature solution for new build projects





Indoor hydraulic module



Outdoor Inverter unit



- COP up to 4.80 (+7°/+35°)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- NAVISTEM 100H regulator

- Space-saving indoor hydraulic module
- Integrated electric back-up heater
- Inverter regulation
- One or two heating zone(s) management

DESCRIPTION

- Simple solution for new build projects
- 4 models: 4 to 10 kW single-phase
- Performing heat pump working with outside temperature from -20°C to +35°C
- Heating departure temperature max. 55°C

AVAILABLE OPTIONS

- Magnetic mud filter
- 2 zones kit (plug-and-play kit)
- Cooling kit
- Separated hot water tank
- Room sensor

SUPPLIES

Indoor hydraulic module

- Plate heat exchanger
- Low consumption circulation pump
- Outdoor sensor
- Expansion vessel, pressure meter
- Filter valve
- Electric back-up heater

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor
- Full Inverter control



Energy class

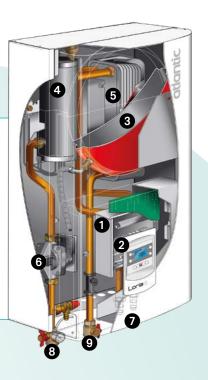






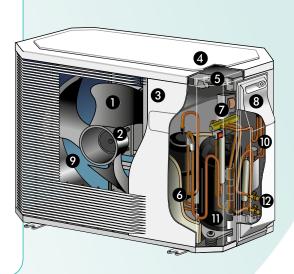
INDOOR HYDRAULIC MODULE

- 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
- 2 Refrigerating connection valves (flared connectors) with protective cover



	UNIT	LORIA 6004	LORIA 6006	LORIA 6008	LORIA 6010
REFRIGERANT		R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS					
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	k₩	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
ENERGY EFFICIENCY CHARACTERISTICS					
Energy class - Heating (35°C/55°C)		A+++ / A++	A+++ / A++	A++ / A++	A++ / A++
Rated heat output (35°C/55°C)	k₩	4 / 4	6 / 5	7/6	9/7
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	183 / 129	188 / 130	168 / 126	156 / 118
Seasonal energy efficiency - Heating (35°C/55°C)	%	181 / 127	186 / 128	166 / 124	154 / 116
Annual energy consumption - Heating (35°C/55°C)	kWh	1884 / 2708	2588 / 2933	3226 / 4197	4481 / 5256
Sound power level (indoor/outdoor) ⁽¹⁾	dB(A)	44 / 64	44 / 64	44 / 69	44 / 68
INDOOR HYDRAULIC MODULE					
Noise level ^[2]	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		230 V 50 Hz			
OUTDOOR UNIT					
Noise level ⁽³⁾	dB(A)	42	42	47	47
Operating weight	kg	41	41	42	60
REFRIGERANT CHARACTERISTICS					
Min./max. length	m	5 / 30	5 / 30	5 / 30	5 / 30
Max. difference in height	m	20	20	20	20
R410A factory load	9	1100	1100	1400	1800
Quantity of refrigerant in tons of CO ₂ 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.

DIMENSIONS (MM)

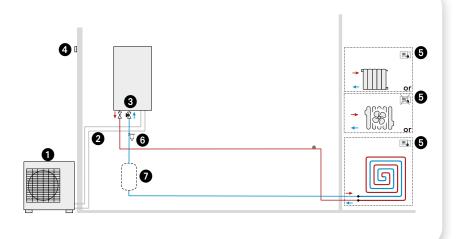
Loria 4,6 and 8kW Ourdoor Inverter unit Ourdoor Inverter unit AIR Bottom view Front view Front view Loria Duo 10kW Ourdoor Inverter unit Indoor hydraulic module Indoor hydraulic module Side view Front view Front

LORIA

Installation schematics

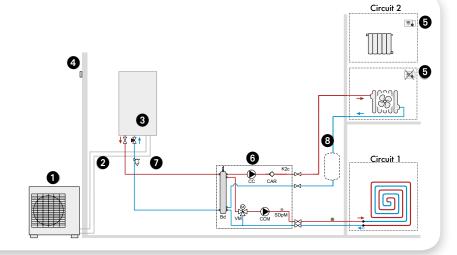
LORIA 6000: 1 HEATING ZONE

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



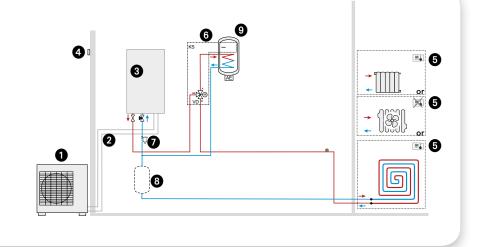
LORIA 6000: 2 HEATING ZONES

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



LORIA 6000: 1 HEATING ZONE + DHW PRODUCTION

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



LORIA DUO

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





Indoor hydraulic module



Outdoor Inverter unit



- Integrated DHW storage tank (190L) with coil and electric back-up heater
- COP up to 4.96 (+7°/+35°)
- Compatible with all kinds of low temperature heating devices (underfloor heating/cooling, radiators, fan coils)
- NAVISTEM 100H regulator

- Space-saving indoor hydraulic module due to plate heat exchanger
- Integrated magnetic mud
- Inverter regulation
- One or two heating zones management

DESCRIPTION

- Simple solution for new build projects
- 4 models: 4 to 10 kW single-phase
- Performing heat pump working with outside temperature from -20°C to +35°C
- Heating flow temperature max. 55°C

AVAILABLE OPTIONS

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

SUPPLIES

Indoor hydraulic module

- Plate heat exchanger
- Magnetic mud filter with a screen filter, decanting effect and magnetic effect
- Low consumption circulation pump
- DHW storage tank integrated (190L)
- Outdoor sensor
- Expansion vessel, pressure meter
- Electric back-up heater

Outdoor Inverter unit

- Refrigerant circuit (R410A)
- Twin Rotary compressor
- Full Invertor control

Energy class









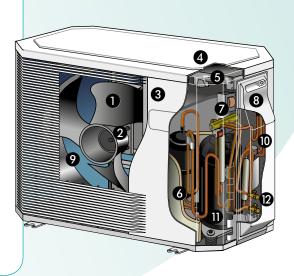
INDOOR HYDRAULIC MODULE

- 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 DHW connections
- **9** Refrigerant connections
- **10** DHW tank
- **1** 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
- 1 Noise and temperature insulated "Inverter" compressor
- 2 Refrigerating connection valves (flared connectors) with protective cover



REFRIGERANT		R410A	R410A	R410A	R410A
MAIN CHARACTERISTICS					
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
ENERGY EFFICIENCY CHARACTERISTICS					
Energy class - Heating (35°C/55°C)		A+++ / A++	A+++ / A++	A++ / A++	A++ / A+
Rated heat output (35°C/55°C)	kW	4 / 4	6/5	7/6	9/7
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%	183 / 129	188 / 130	168 / 126	156 / 11
Seasonal energy efficiency - Heating (35°C/55°C)	%	181 / 127	186 / 128	166 / 124	154 / 11
Annual energy consumption - Heating (35°C/55°C)	kWh	1884 / 2708	2588 / 2933	3226 / 4197	4481 / 52
Sound power level (indoor/outdoor)(1)	dB(A)	44 / 62	44 / 62	44 / 69	44 / 68
Declared load profile - DHW		L	L	L	L
Energy class - DHW		A+	A+	A+	A+
Annual water heating energy consumption	kWh	966	966	966	966
Seasonal water heating energy efficiency (%)	%	130	130	130	130
INDOOR HYDRAULIC MODULE					
Noise level (2)	dB(A)	36	36	36	36
Net weight/filled weight	kg	138/332	138 / 332	138 /332	138 /33
Power supply		230 V 50 Hz	230 V 50 Hz	230 V 50 Hz	230 V 50
OUTDOOR UNIT					
Noise level (3)	dB(A)	40	40	47	47
Operating weight	kg	41	41	42	60
REFRIGERANT CHARACTERISTICS					
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 ₂ equivalent	+	2	2	3	4

UNIT LORIA DUO 6004 LORIA DUO 6006 LORIA DUO 6008 LORIA DUO 6010

DIMENSIONS (MM)

Loria Duo 4, 6 and 8kW Ourdoor Inverter unit Ourdoor Inverter unit AIR Side view Front view Indoor hydraulic module Indoor hydraulic module Ourdoor Inverter unit Indoor hydraulic module Side view Front view Front view Side view Front view Side view Front view Side view Front view Side view

⁽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.

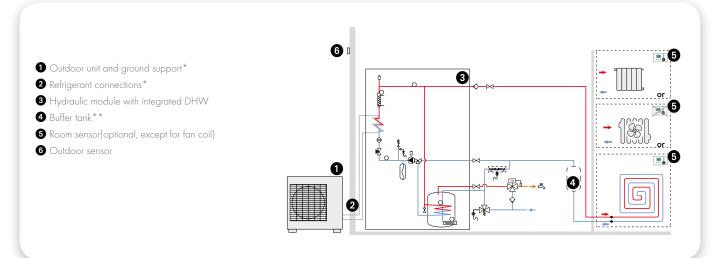
⁽²⁾ Acoustic pressure at 1m from HP, 1.5 m height, open field, directivity 2.

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

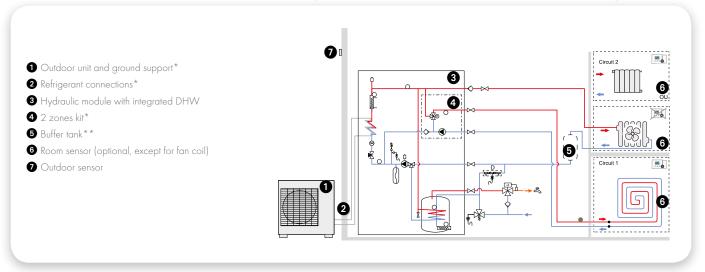
LORIA DUO

Installation schematics

LORIA DUO 6000: 1 HEATING ZONE



LORIA DUO 6000: 2 HEATING ZONES (UNDERFLOOR HEATING + RADIATORS)



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 of the heating circuit

DESCRIPTION

- Magnetic mud filter with a screen filter, decanting effect and magnetic effect (for Loria)
- Integrated in Loria Duo

DOMESTIC HOT WATER TANK MILEO / MILEO+



Product

- DHW kit allowing quick connection between DHW tank and heat pump
- 2 ranges:
 - standard (Mileo)
 - thermodynamique optimisation (Mileo+)

DESCRIPTION

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

MODEM HARNESS KIT





 Remote piloting of your heat pump operating modes

DESCRIPTION

 Modem harness allowing to switch heat pump operating mode remotely





2 zones kit for single service heat pump

Product

- Integrated low consumption circulation pump
- Compatible with underfloor heating/ cooling, radiators, fan coils
- Equipped with hydraulic compensator for Loria single service heat pump

DESCRIPTION

 2 zones kit for dual service heat to control two hydraulic zones

COOLING KIT





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

DESCRIPTION

- Plug-in cooling kit
- Allows reversibility function (for Loria & Loria Duo)

RETRACTOR STRUCTURE KIT





- Hides the lower part of the hydraulic module installation
- Makes hydraulic module installation more user-friendly and aestetic

DESCRIPTION

 Allowing to derive a heat pump pipes upwards behind hydraulic module

ACCESSORIES FOR OUTDOOR UNIT



White PVC floor support (x2)



Black rubber floor support (x2)



Wall bracket* 600 mm (with bar)



Heating cable



Refrigerant pipes**



Protection pipes for refrigerant pipes

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

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

WALL-IN

Integration system of the outdoor unit



- Product
 - Outdoor unit invisible from outside
 - Mechanical separation to avoid transfer of vibrations
- Condensat collection and evacuation
- Patented separation of air flow to maintain the performance

DESCRIPTION

- Innovative solution to integrate the outdoor unit into the building
- Kit with 3 parts possible to supply to the building site according to the construction phase
- Compliant for outdoor units of ALFEA Extensa+ and Loria up to 8 kW
- For spaces without thermal insulation

SUPPLIES

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

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)



DIMENSIONS (MM)

Surface on the wall to plan : 1100 \times 1100 mm

