

# Alfea Extensa Duo R32

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
- Better performance, optimised acoustic pressure and increased energy efficiency
- Possibility of remote piloting via Cozytouch application due to NAVISTEM 400S control system
- DHW tank with high-performance regulation

## DESCRIPTION

- Average temperature solution for all projects
- 5 models : 3 to 10 KW
- Single-phase models
- Heating and DHW integrated
- Patented coaxial heat exchanger
- Inverter regulation
- Integrated 16 L buffer tank

## AVAILABLE OPTIONS

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

## Practical trainings

that will help you save time and be more efficient.



### On-site trainings

- PAC6-03-1: Install a new product - 1 day
- PAC6-05-1: Commissioning, maintenance and service - 1 day



### Online trainings

- PAC 6-13-5: Installation & commissioning - ½ day
- PAC 6-15-5: Services test & breakdowns - ½ day



35°C

55°C

Cozytouch

homecontrol®

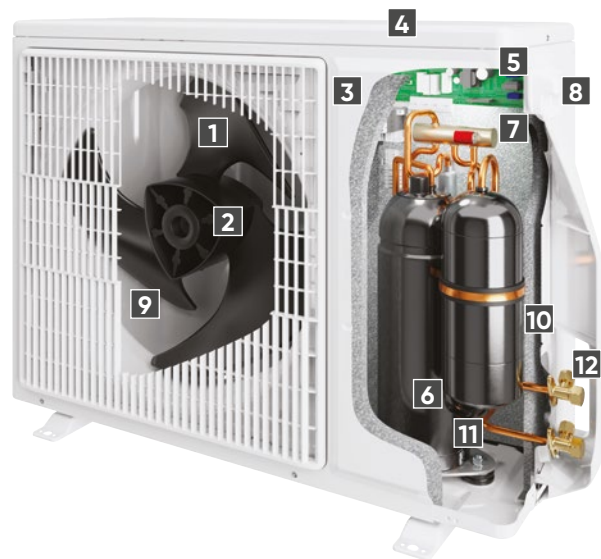
## INDOOR HYDRAULIC MODULE



- 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 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

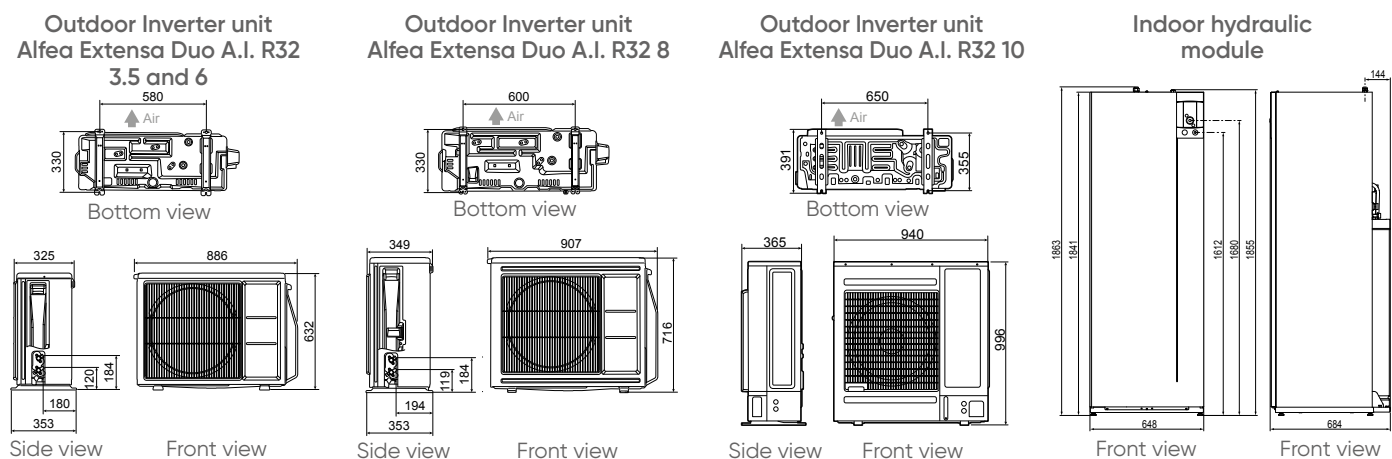


## TECHNICAL CHARACTERISTICS AND PERFORMANCES

	UNIT	ALFEA EXTENSA DUO A.I. 3 R32	ALFEA EXTENSA DUO A.I. 5 R32	ALFEA EXTENSA DUO A.I. 6 R32	ALFEA EXTENSA DUO A.I. 8 R32	ALFEA EXTENSA DUO A.I. 10 R32
<b>REFRIGERANT</b>		R32	R32	R32	R32	R32
<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++
Rated heat power (35°C/55°C)	kW		5 / 5	6 / 5	6/6	9/8
Annual energy consumption - Heating (35°C/55°C)	kWh		2322 / 3035	2594 / 3411	2982 / 3903	3 875 / 5 083
<b>Seasonal energy efficiency - Heating (35°C/55°C)</b>	%	to be confirmed	<b>175 / 125</b>	<b>175 / 125</b>	<b>177 / 128</b>	<b>178 / 130</b>
Seasonal energy efficiency - Heating (35°C/55°C) with outdoor sensor	%		177/127	177/127	179/130	180 / 132
Sound power level (indoor/outdoor) <sup>(1)</sup>	dB(A)		40 / 57	40 / 57	40 / 60	40 / 62
Declared load profile - DHW	-	L	L	L	L	L
<b>Energy class - DHW</b>	-	A+	A+	A+	A+	A+
Annual energy consumption - DHW	kWh	793	793	793	793	793
<b>Seasonal energy efficiency (%) - DHW</b>	%	<b>130</b>	<b>130</b>	<b>130</b>	<b>130</b>	<b>130</b>
<b>MAIN CHARACTERISTICS</b>						
<b>SCOP 35 °C / 55 °C</b>	-		<b>4.45 / 3.20</b>	<b>4.46 / 3.21</b>	<b>4.5 / 3.28</b>	<b>4.53 / 3.33</b>
Heating capacity +7°C/+35°C – Underfloor Heating	kW		4.50	5.50	7.50	9.50
COP +7°C/+35°C - Underfloor Heating			4.74	4.65	4.43	4.50
Heating capacity -7°C/+35°C – Underfloor Heating	kW		4.40	5.00	5.70	8.90
COP -7°C/+35°C - Underfloor Heating			2.76	2.63	2.68	2.65
Heating capacity +7°C/+45°C – Low T°radiators	kW		4.50	5.50	7.25	9.25
COP +7°C/+45°C – Low T°radiators			3.39	3.39	3.35	3.40
Heating capacity -7°C/+45°C – Low T°radiators	kW	to be confirmed	4.28	4.82	5.58	8.61
COP -7°C/+45°C – Low T°radiator			2.26	2.21	2.17	2.27
Heating capacity +7°C/+55°C - Radiators	kW		4.50	5.50	7.00	9.00
COP +7°C/+55°C - Radiators			2.64	2.67	2.66	2.70
Heating capacity -7°C/+55°C - Radiators	kW		3.90	4.25	5.30	8.00
COP -7°C/+55°C - Radiators			1.85	1.89	1.90	1.95
Additional electric back-up heater	kW		3 / 6	3 / 6	3 / 6	3 / 6
<b>INDOOR HYDRAULIC MODULE</b>						
Noise level <sup>(2)</sup>	dB(A)	to be confirmed	32	32	32	34
Net weight/filled weight <sup>(3)</sup>	kg	143 / 373	143 / 373	143 / 373	143 / 373	145 / 363
Power supply	V/Hz	230 / 50	230 / 50	230 / 50	230 / 50	230 / 50
<b>OUTDOOR UNIT</b>						
Noise level <sup>(4)</sup>	dB(A)	to be confirmed	35	35	38	38
Operating weight	kg	39	43	43	46	62
<b>REFRIGERANT CHARACTERISTICS</b>						
Min./max. length	m	3 / 30	3 / 30	3 / 30	3 / 30	3 / 30
Max. difference in height	m	20	20	20	20	20
R32 factory load	g	970	970	970	1 020	1 630
Quantity of refrigerant in tons of CO <sub>2</sub> equivalent	t	0,65	0,65	0,65	0.69	1.10

(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.

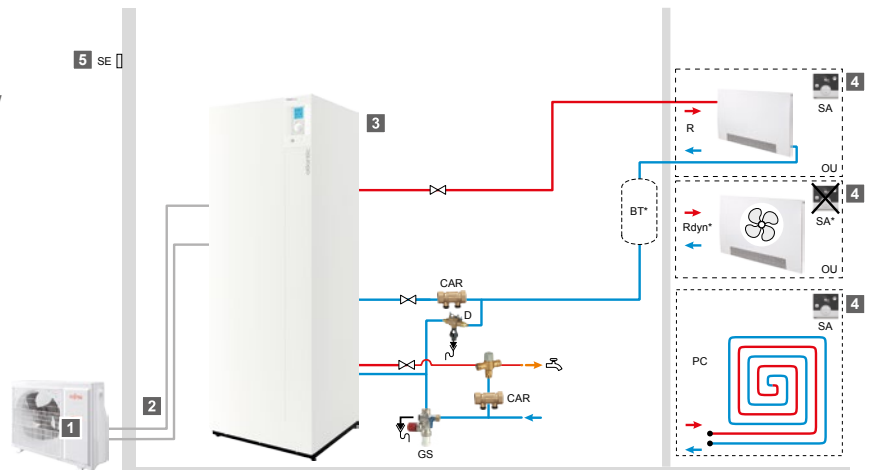
## INSTALLATION DIMENSIONS (mm)



# INSTALLATION SCHEMATICS

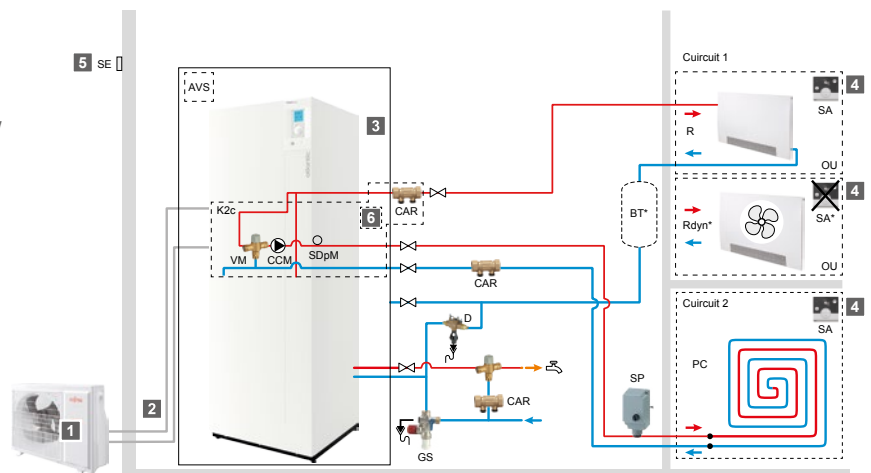
## ALFEA EXTENSA DUO A.I.R32: 1 HEATING ZONE

- 1** Outdoor unit and ground support\*
- 2** Refrigerant connections\*
- 3** Hydraulic module with integrated DHW
- 4** Room controller\*
- 5** Outdoor sensor



## ALFEA EXTENSA DUO A.I.R32: 2 HEATING ZONES

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



\*Optional