ideal HEATING

ALFEA EXTENSA A.I.

HEAT PUMP

R32 5 6 8 10 kW

FLEXIBLE WARRANTY

A+++

ERP A+++

Suitable for new build, social housing and retrofit

35 dB(A)

Quiet Noise Level: 35 dB(A)*

474%

474% Rated Efficiency (COP)**

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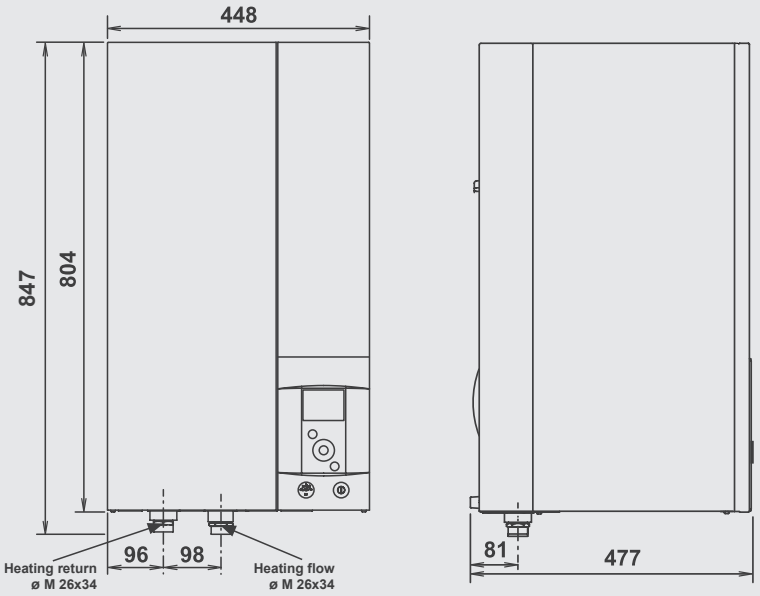
* 35dB(A) is the rated sound Pressure Level of the Alfea 5kW/6kW outdoor unit(s) from a distance of 5m level from the device, halfway between the ground and top of the outdoor unit, open field directionality.
** Efficiency Co-efficient of Performance (COP) rated at EN14825 test conditions Water 35°C, Air 7°C.

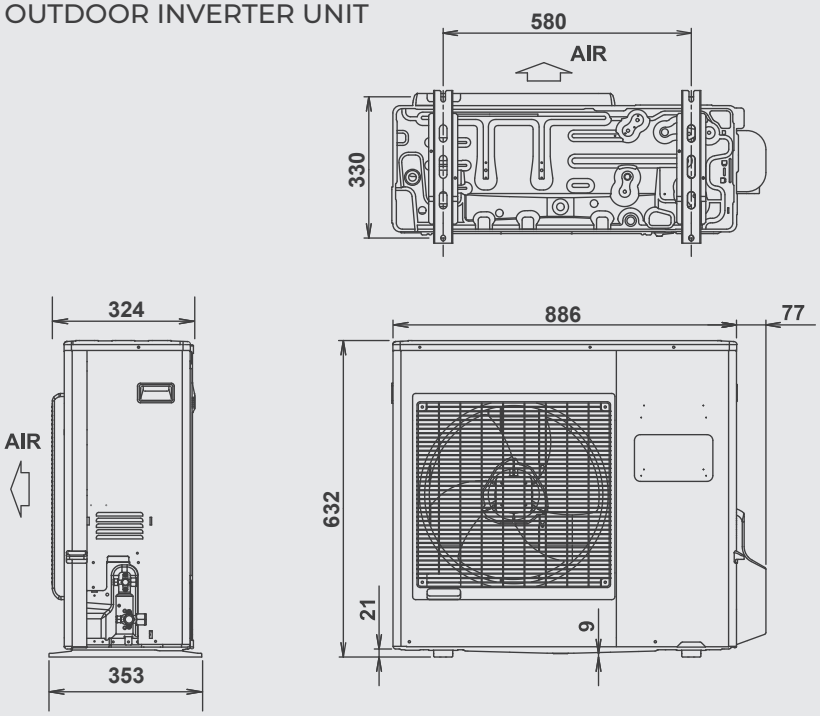
DIMENSIONS

The Ideal Alfea uses smart technology to redefine how we heat our homes. Our new refrigerant balances industry-leading efficiencies with an ultra-low environmental impact, using patented technology to uncompromisingly match performance with reliability.

INDOOR HYDRAULIC MODULE



OUTDOOR INVERTER UNIT

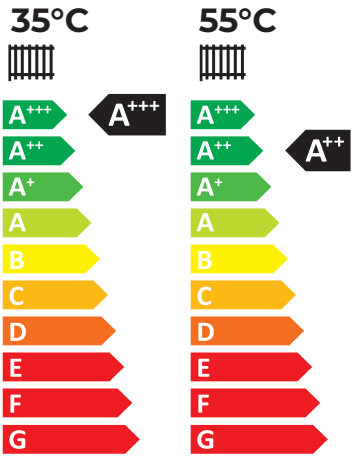


Dimensions based on the Ideal Extensa A.I. R32 5kW & 6kW.

* Efficiency Co-efficient of Performance (COP) rated at EN14511 / EN14825 test conditions Water 35°C, Air 7°C.
** 35dB(A) is the rated sound Pressure Level of the Alfea 5kW/6kW outdoor unit(s) from a distance of 5m

KEY FEATURES

- Highly efficient: COP up to 4.74*
- Seasonal efficiency: up to 4.51 SCOP (MCS)
- Impressively quiet: outdoor unit 35 dB(A)**
- Compatibility: radiator and underfloor heating systems
- Intuitive control: smart weather compensating controls
- Low carbon: zero ozone depletion and low global warming potential
- Incomparable reliability: patented co-axial heat exchanger
- Space saving: integrated buffer tank and expansion vessel
- Domestic Hot Water: hot, efficient and fast re-heat times with the Ideal heat pump cylinder



TECHNICAL SPECIFICATION

		Alfea Extensa A.I R32 5	Alfea Extensa A.I R32 6	Alfea Extensa A.I R32 8	Alfea Extensa A.I R32 10
Heat Pump Space Heating [35°C]	MCS ref	KIWA 00027/017 HP	KIWA 00027/018 HP	KIWA 00027/019 HP	KIWA 00027/020 HP
	ErP Rating	A+++	A+++	A+++	A+++
	η_s	175%	175%	177%	159%
	SCOP	4.39	4.38	4.46	4.51
Heat Pump Space Heating [55°C]	ErP Rating	A++	A++	A++	A++
	η_s	125%	125%	128%	117%
	SCOP	2.92	3.15	3.22	3.28
Heating (A7/W35)	Capacity (kW)	4.50	5.50	7.50	9.50
	Power Input (kW)	0.95	1.18	1.69	2.11
	COP	4.74	4.64	4.43	4.50
Air Temperature Range (°C)	Min/Max	-20/ +35	-20/ +35	-20/ +35	-20/ +35
Sound Data Outdoor Unit / Indoor Unit	Pressure Level 5m Outdoor / 1m Indoor dB(A)*	35/32	35/32	38/32	39/32
	Power Level dB(A)**	57/40	57/40	60/40	62/40
	MCS 020 (Q2) 4m to assessment point	Visable 42dB(A) | Pass	Visable 42dB(A) | Pass	Barrier (partial view) 42dB(A) | Pass	Barrier (partial view) 42dB(A) | Pass
Primary Flow Rate	Min / Max (l/min)	8.1/16.2	9.9/19.8	13.5/26.9	17.01/34.12
Pipework Connection Sizes	Heating F/R (mm)	28	28	28	28
	Gas Pipe - refrigeration (in)	1/2	1/2	1/2	5/8
	Liquid Pipe - refrigeration (in)	1/4	1/4	1/4	3/8
Dimensions Outdoor Unit (mm)	Width	866	866	907	940
	Depth	324	324	349	365
	Height	632	632	716	996
Dimensions Indoor Unit (mm)	Width	448	448	448	448
	Depth	477	477	477	477
	Height	847	847	847	847
Weight (kg)	Outdoor Unit / Indoor Unit	39/42	39/42	42/42	60/46
Electrical Data	Electrical Supply (50 Hz)	230 V	230 V	230 V	230 V
	Phase	Single	Single	Single	Single
	Maximum Running Current (A)	13	13	18	19
	Back-up Heater (kW)	3	3	3	3
	Fuse Rating - MCB Sizes Type D (A)*****	16	16	25	25
Refrigerant Charge (kg)****	R32	0.97	0.97	1.02	1.63

ErP in accordance with EN 14825, EN 12102-1, EN 14511, EN 16147. The energy efficiency provided may not correspond to the actual energy once installed in a building, as the efficiency is influenced by other factors such as heat loss in the distribution system and the capacity of the products in relation to building size and characteristics. *Hydraulic unit: Sound pressure level at 5m from the appliance, 1.5m off the ground, open field directionality 2 / Outdoor unit : Sound pressure level at 5m from the device, halfway between the ground and top of the outdoor unit, open field directionality 2. **The EN 12102-1, sound power level is a laboratory measurement of the emitted sound power. *** Calculation in accordance to MIS:MCS 020 Issue 1.3. ****Refrigerant R32 as per NF EN 378.1 standard. Thermal and acoustic performances are measured with 7.5m length refrigerant lines. ***** Fuse rating for Outdoor Heat Pump Unit.

IDEAL HEAT PUMP CYLINDER

The Ideal stainless steel unvented heat pump cylinder is specifically designed for installation with the Ideal heat pump. Capacities are available up to 300 litres, which includes slimline models to ensure the Ideal Heat Pump range provides a flexible system solution.

The corrugated stainless-steel coil has been specifically designed for use with heat pump applications and to maximise the available heat input.

IDEAL HEAT PUMP DHW

		180	210	250	300
Heat loss (per hour)	watts	55	62	74	86
Capacity	litres	178	208	248	287
Height	mm	1306	1494	1744	1990
Diameter	mm	550	550	550	550
Weight (empty)	kg	34	38	43	47
Weight (full)	kg	212	246	291	334
Surface area of HP coil	m^2	2.5	3	3	3
Immersion heater rating	kW	3	3	3	3
Secondary return connection		No	Yes	Yes	Yes

IDEAL HEAT PUMP DHW SLIMLINE

		180	210
Heat loss (per hour)	watts	67	74
Capacity	litres	183	202
Height	mm	1791	1963
Diameter	mm	475	475
Weight (empty)	kg	38	40
Weight (full)	kg	219	237
Surface area of HP coil	m^2	3	3
Immersion heater rating	kW	3	3
Secondary return connection		No	Yes

KEY FEATURES

- Engineered to work seamlessly with the Ideal Alfea heat pump.
- Our industry leading multi pass coil, enables fast and efficient reheat times.
- Our most powerful heat exchange delivers hot water on demand.
- High density insulation ensures remarkably low heat losses.
- Wide range of capacities available:
  - Standard model (550mm wide) - 180, 210, 250 and 300 litres
  - Slimline model (475mm wide) - 180 and 210 litres

25

25 year warranty

Lightest cylinder on the market

Highly efficient multi-coil heat exchanger