

UNICO

CLIMATE CONTROL WITHOUT AN OUTDOOR UNIT



Say Goodbye To Outdoor Units

Revolutionary Air Conditioning and Heating

Unico air conditioning units have been designed specifically to eliminate the need of outdoor condensing units, reducing both installation costs and time. Even tradesmen without any refrigeration experience can easily install Unico.

THE UNICO RANGE

The Unico range is available in five models:

- Air
- Smart
- R
- Inverter
- Easy

With no more ugly, bulky outdoor units, there's no need to worry about compromising building regulations or external building aesthetics

Each model has its own key unique features and benefits. In total we offer nine Unico air conditioning variations to help meet domestic or commercial application requirements.

Five of Unico's variations provide all year round comfort, thanks to the integrated heat pump, offering cooling and heating from a single unit.

INSTALLER BENEFITS

- All installation work can be undertaken from inside the building, including the drilling of the holes and fitting of the two grilles.
- With just one unit to install and no interconnecting pipework needed, installation is made easy.
- Unico air conditioning units are supplied as a single unit, where traditionally this would have been two separate units.

INSTALLATION OPTIONS

The Smart, R, Inverter and Air models have been designed and developed for both low and high wall installation.



The impact on the outside wall is minimal with only two small grilles visible.

The Air and Easy models require 162mm diameter holes. Unico Smart, R and Inverter models require 202mm diameter holes.



FOR FURTHER INFORMATION AND APPLICATION SUPPORT SPEAK TO YOUR STOCKIST

Unico Air

Unico Air is the newest member of the Unico family, bringing a brand new sleek design and reduced unit dimensions. Unico Air also boasts reduced noise levels thanks to the use of absorbing materials around the motor and compact compressor.

- Air 8 SF - Cooling only
- Air 8 HP - With heat pump

Unit Dimensions (mm)
Width: 978 **Height:** 491 **Depth:** 164

MINIMALISTIC DESIGN

Unico Air is a compact high quality through-the-wall air conditioning and heating unit. Not only is the compressor of compact design, the high efficiency battery is also compact. All in all contributing to the overall reduced unit size compared to Smart and Inverter models. The major difference is the depth of the unit at just 164mm, rather than 229mm.

REDUCED NOISE

Utilising absorbing materials during manufacture to reduce vibration noise in operation, Unico Air's noise level can be as low as 27dB(A), compared to other Unico units operating from 34dB(A). At full speed it's still quiet at 38dB(A), compared to the Smart, R and Inverter models at 43dB(A). This makes Unico Air ideal for bedrooms, meeting rooms and other areas that require low noise levels.

MULTI FUNCTION

Unico Air operates as a cooling only unit (SF) or as a cooling and heating in one unit (HP). However Unico Air also offers a dehumidification mode, absorbing up to 14.4 litres of moisture per 24 hours.



Unico Inverter

The Unico Inverter, the first and only fixed through the wall air conditioner with DC inverter technology that does not require installation of outdoor condensing units and inter-connecting pipework.

- Inverter 12 SF - Cooling only
- Inverter 12 HP - With heat pump

Unit Dimensions (mm)
Width: 902 **Height:** 506 **Depth:** 229



ABOUT INVERTER TECHNOLOGY

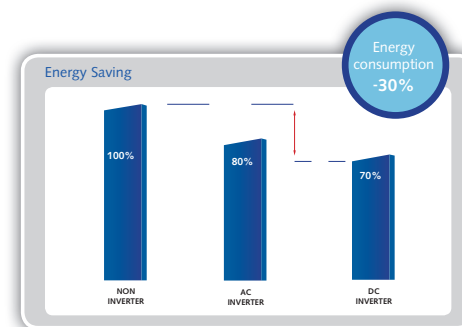
Unlike 'on-off' systems, inverter units make it possible to reach the desired temperature rapidly and keep it constant, preventing sharp changes. Unico Inverter DC units operate quietly with reduced energy consumption. Inverter technology ensures maximum efficiency and delivers optimal comfort while at the same time cutting costs.

HOW INVERTER TECHNOLOGY WORKS

The Unico Inverter DC technology constantly checks the temperature and adjusts the rotation speed of the variable-speed compressor and fan in order to guarantee optimal performance under any condition, which means reaching set temperatures quickly and more efficiently.

EFFICIENCY AND PERFORMANCE

The Unico Inverter DC range is in a class of its own, there is no equal when it comes to efficiency, consumption, performance and design.



Unico Smart & Unico R

The Unico Smart and R units offer the choice of high or low wall installations. The only difference between the Smart and R units is when external temperatures drop below 2°C, the Unico R can provide heating.

- Smart 12 SF - Cooling only
- Smart 12 HP - With heat pump
- R 12 HP - Cooling with heat pump and auxiliary boost heater

Unit Dimensions (mm)
Width: 902 Height: 516 Depth: 229

HEAT PUMP TECHNOLOGY

Smart and Unico R units that incorporate both cooling and heating modes reach very high energy efficiency levels, finding the right balance between perfect cooling and effective heating. The Smart HP and R models are ideal for providing comfortable room temperatures during the winter and summer.

OPTIMAL AIR FLOW AND DISTRIBUTION

Air flow and air distribution are key elements for achieving perfect comfort. Unico generates up to a maximum of 490m³/hr of air flow, which is distributed efficiently throughout the room due to the large sized air vent (690 x 60mm).

This results in reduced power consumption whilst still delivering the same high performance cooling and heating.

EXTRA HEAT WHEN NEEDED

When external temperatures drop below 2°C, the automatic electric element in the Unico R offers added heating.



Unico Easy

The Unico Easy is a fixed floor standing air conditioner that does not require the installation of an outdoor condensing unit. It's the fastest and easiest way to install stylish, practical and simple to use air conditioning.

- Easy SF - Cooling only
- Easy HP - With heat pump

Unit Dimensions (mm)
Width: 693 Height: 666 Depth: 276

ELEGANT AND DISCREET

The Unico Easy has been designed to integrate perfectly with any style or decor. Its soft curves and round lines together with compact size make the Unico Easy an elegant but discreet addition to any room.

HIGH PERFORMANCE AND EFFICIENCY

Unico Easy helps safeguard the environment with optimised "double-duct" technology, which ensures high performance and utmost efficiency. In fact, the Unico Easy has an A Class energy efficiency rating in cooling mode and uses only environmentally-friendly R410A refrigerant.

INTELLIGENT AUTO FUNCTION

To ensure a perfect climate in spring, summer, autumn or winter, the intelligent auto function measures the room's temperature and humidity level to define maximum climate comfort.

SEEN BUT NOT HEARD

Thanks to the use of a cross-flow fan and high efficiency soundproofing, Unico Easy delivers truly quiet operation at just 36dB(A).



	Unico Air 8 SF	Unico Air 8 HP	Unico Inverter 12 SF	Unico Inverter 12 HP	Unico Smart 12 SF	Unico Smart 12 HP	Unico R 12 HP	Unico Easy SF	Unico Easy HP
Cooling Capacity (kW)	1.8	1.8	3.1 [*]	3.1 [*]	2.6	2.6	2.6	2.05	1.9
Heating Capacity (kW)		1.7		3.0 [*]		2.5	2.5 + 2		1.9
Energy Efficiency Class (Cooling)	A	A	A	A	A	A	A	A	A
Energy Efficiency Class (Heating)		A		A		A	A		B
Max Input Power - Cooling Mode (W)	670	670	1400	1400	945	945	945	775	725
Max Input Power - Heating Mode (W)		770		1300		830	830		675
Indoor Air Flow (m³/hr) Min - Max	150 - 215	150 - 215	360 - 490	360 - 490	360 - 490	360 - 490	360 - 490	270 - 330	250 - 310
Outdoor Air Flow (m³/hr) Min - Max	380	380	350 - 520	350 - 520	350 - 520	330 - 450	330 - 450	260 - 430	250 - 310
Annual Energy Consumption Cooling 500h kWh	350	350	500	500	473	473	473	387	362.5
EER	2.60	2.60	2.70	2.70	2.75	2.75	2.75	2.65	2.62
COP		2.60		3.20		3.01	3.01		2.81
Sound Pressure at 1m dB(A) - Min - Max	27 - 38	27 - 38	34 - 43	34 - 43	34 - 43	34 - 43	34 - 43	36 - 43	36 - 43
Maximum Dehumidifying Quotient (L/24h)	14.4	14.4	26.4	26.4	26.4	26.4	26.4	24.0	21.6
Compressor Type	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Rotary
Refrigerant Gas	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Rated Voltage / Frequency	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50	220-240 / 50
Hole Diameter (mm)	162	162	202	202	202	202	202	162	162
Unit Weight (Kg)	37	37	39	39	40	40	40	43	43
FEATURES									
Room Thermostat	•	•	•	•	•	•	•	•	•
Fan Speed (In/Out)	3/1	3/1	3/6	3/6	3/3	3/3	3/3	3/2	3/3
Condensed Water Recycling System	•	•	•	•	•	•	•	•	•
Heat Pump		•		•		•	•		•
Motorized Louvers	•	•	•	•	•	•	•		
AUTOFAN Function	•	•	•	•	•	•	•	•	•
SMILE Function	•	•	•	•	•	•	•	•	•
MOON Function	•	•	•	•	•	•	•	•	•
Fan Only Function	•	•	•	•	•	•	•	•	•
Dehumidifying Function	•	•	•	•	•	•	•	•	•
Condensed Water Discharge Pump	•	•	•	•	•	•	•		
Electronic Timer	•	•	•	•	•	•	•	•	•
On Board Electronic Control System								•	•
LCD IR Remote Control	•	•	•	•	•	•	•		
Extractable LCD IR Remote								•	•
Serial Interface	Optional	Optional			Optional	Optional	Optional	Optional	Optional
Wireless Wall Control	Optional	Optional			Optional	Optional	Optional	Optional	Optional
Air Filters	•	•	•	•	•	•	•	•	•
Air Intake Grilles	•	•	•	•	•	•	•	•	•
Low Ambient Control	•	•	•	•	•	•	•		
Electrostatic and Activated Carbon Filters	•	•	•	•	•	•	•	•	•

* For Inverter models data is referred to maximum capacity

Portable Air Conditioners



FRAL SC14 AIR CONDITIONER

A unique and versatile unit allowing ducting to be fitted on both cold air and exhaust air outlets at the same time. This allows the unit to be situated inside or outside the area you are looking to cool or heat. It's extremely quiet in operation, making it one of the most popular units in the market place.

Unit Dimensions (mm)

Width: 300 **Height:** 740 **Depth:** 480

- **Cooling Capacity** - 4.1kW / 14000Btu/hr
- **Heating Capacity** - 4.1kW / 14000Btu/hr
- **Suitable Cooling Area** - 40m²
- **Noise Rating** - 52dB(a)
- **Hose Diameter** - 150mm
- **Hose Length** - 1.4m (Optional 6m)

FRAL BLIZZARD SPOT COOLER

One of the most powerful hose type units around working off a 13amp power supply. Quiet in operation and suitable for use in: computer rooms, open plan offices, factories and larger applications in need of temporary cooling.

Unit Dimensions (mm)

Width: 500 **Height:** 1250 **Depth:** 620

- **Cooling Capacity** - 7.3kW / 25000Btu/hr
- **Suitable Cooling Area** - 60m²
- **Noise Rating** - 55dB(a)
- **Tank Capacity** - 15 Litres
- **Hose Diameter** - 305mm
- **Hose Length** - 2m (Optional 6m)

FRAL AVALANCHE SPLIT AIR CONDITIONER

One of the most powerful yet flexible portable air conditioning units available. Ideal for use in almost any application such as: computer suites, offices, hospitals, hospitality venues or portable / temporary buildings.

Indoor Unit Dimensions (mm)

Width: 820 **Height:** 1030 **Depth:** 360

Outdoor Unit Dimensions (mm)

Width: 650 **Height:** 460 **Depth:** 320

- **Cooling Capacity** - 6.7kW / 23000Btu/hr
- **Suitable Cooling Area** - 55m²
- **Noise Rating** - 49dB(a)
- **Line Diameter** - 50mm
- **Line Length** - Up to 30m

Portable Evaporative Coolers

Honeywell

HONEYWELL FR12EC

Perfect for spot cooling and heating in the home or office with use of the oscillating louvers, helping improve air circulation and distribution. It's easy to position and maintain during operation with its four durable castor wheels, large 12 litre water tank and low-water alarm feature.

Unit Dimensions (mm)

Width: 380 **Height:** 720 **Depth:** 310

- **Suitable Cooling Area** - 12m²
- **Weight (Empty)** - 8kg
- **Air Flow** - 460m³/hr
- **Fan Speeds** - 4
- **Tank Capacity** - 12 Litres

HONEYWELL FR30XC

Ideal for cooling any home, office or other working environment with ample ventilation up to 30m². The 30 litre water tank and ice compartment allows you to get on with your day-to-day activities in complete comfort.

Unit Dimensions (mm)

Width: 460 **Height:** 860 **Depth:** 350

- **Suitable Cooling Area** - 30m²
- **Weight (Empty)** - 14kg
- **Air Flow** - 900m³/hr
- **Fan Speeds** - 4
- **Tank Capacity** - 30 Litres

HONEYWELL FR48EC

The perfect choice to keep indoor or semi-outdoor environments comfortably cool and breezy thanks to its powerful motor delivering strong air flow. The 48 litre water tank or continuous water supply connection along with built-in overflow protection enables long periods of unattended operation.

Unit Dimensions (mm)

Width: 620 **Height:** 870 **Depth:** 380

- **Suitable Cooling Area** - 57m²
- **Weight (Empty)** - 13kg
- **Air Flow** - 1800m³/hr
- **Fan Speeds** - 3
- **Tank Capacity** - 48 Litres



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