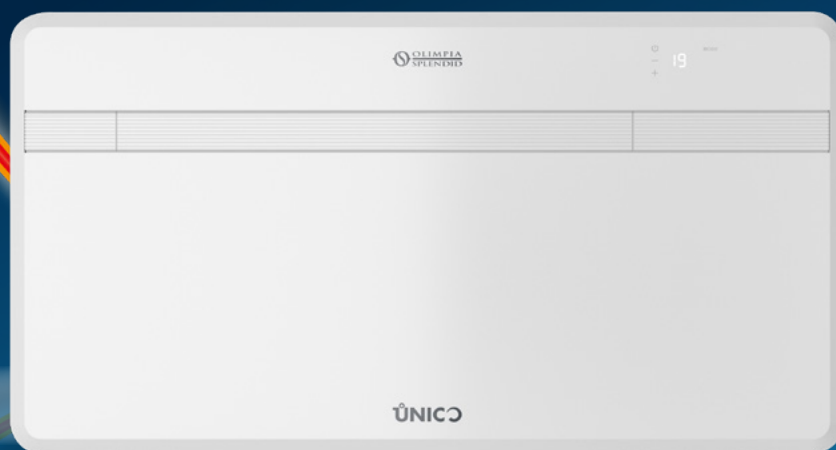


# UNICO EVO

THE EVOLUTION OF HEAT PUMP AIR CONDITIONERS WITHOUT OUTDOOR UNIT

COME INTO  
THE FUTURE  
OF COMFORT





HEAT PUMP AIR  
CONDITIONERS

# WITHOUT OUTDOOR UNIT

## UNICO EVO

is the range of air conditioners that provide maximum indoor comfort with minimal architectural and environmental impact.

### **On the façade or terrace:**

no outdoor unit, just 2 holes that preserve the beauty of buildings and cities.

### **What about indoors?**

The ideal comfort in every season, sustainable and efficient, thanks to the full electric and to R290 natural refrigerant.

THE COMFORT  
OF THE FUTURE

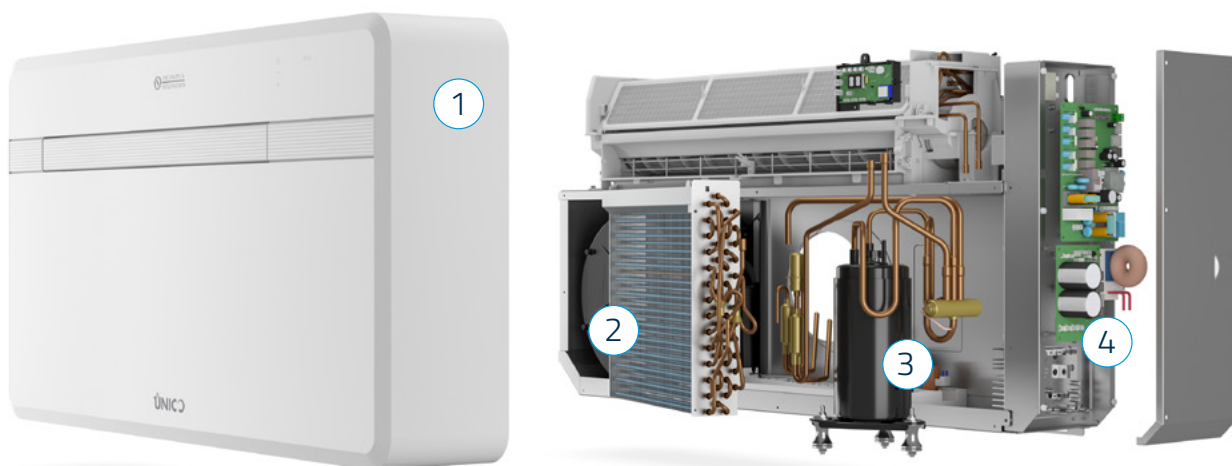
IS ALREADY  
HERE



Unico Evo is the evolution of heat pump air conditioners without outdoor unit.

A next-generation technology based on a refrigeration circuit with R290 refrigerant and a rationalized, easy-maintenance design that is home to a mix of elements whose strength is their perfect synchronization.

Unico Evo's innovative *Sync Power System* ensures the coordinated and harmonious operation of each element to increase performance and guarantee the quietness of the entire unit.



## UP TO CLASS A+

The new compressor and the optimization of all components allow reaching up to class A+ energy efficiency in cooling.

Not only that: thanks to the *Sync Power System*, Unico Evo is more efficient in all operating conditions.

## ONLY 30 DB(A) IN SILENT MODE

The Twin Rotary compressor and the latest generation electronics are synchronized to achieve the best acoustic comfort under any operating condition.

At low frequencies, Unico Evo is thus the most silent range of Unico ever. With the Silent Mode function on, it reaches a maximum of 30 dB(A) sound pressure, even when the compressor is running.

**Feel the comfort, enjoy the silence.**

- RATIONALIZED AND OPTIMIZED INTERNAL LAYOUT
- 1 TOTAL FLAT MONOBLOC DESIGN
- 2 R290 REFRIGERATION CIRCUIT WITH 5MM BATTERIES
- 3 LOW-VIBRATION TWIN ROTARY COMPRESSOR
- 4 NEW GENERATION ELECTRONICS, PROGRAMMABLE FOR COOLING-ONLY OR HEAT PUMP VERSIONS

FEEL THE  
COMFORT

# ENJOY THE SILENCE

Acoustics is a fundamental element of indoor well-being, and the quietness of a product is therefore an integral part of its comfort promise. However, the relationships between sound stimuli and auditory sensations generated in humans cannot be described by power or sound pressure data.

A product's ability to respect the tranquillity of the home depends on 4 main psychoacoustic quantities, which are perfectly described by the Psychoacoustic Annoyance Index.



**Loudness:** subjective perception of the intensity of a sound.



**Roughness:** sensation caused by the modulation of the intensity of a sound at frequencies too high to be distinguished separately.

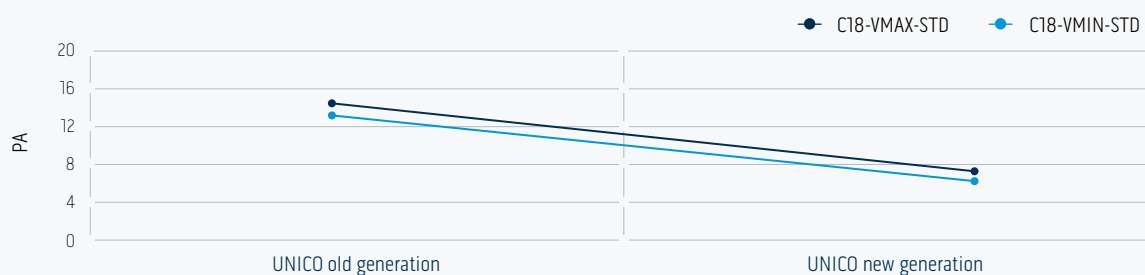


**Fluctuation strength:** sensation caused by the modulation of the intensity of a sound at frequencies so low that they are individually distinguishable.



**Sharpness:** sensation caused by the presence of high-frequency components in a sound.

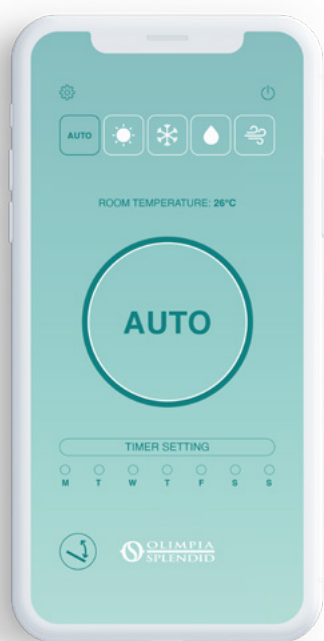
Tests on Product Sound Quality, developed in collaboration with the ACOUVI research group (Acoustics, Vibration, and Multisensory Interactions) of the University of Campania 'Luigi Vanvitelli', have shown how Unico Evo reduces perceived noise annoyance (PA Index) by up to 49%\* compared to previous heat pump air conditioners without outdoor unit. The new generation of Unico is thus scientifically quieter.



\*test condition: cooling operation with setpoint at 18°C, at minimum and maximum speed.

# COMFORT

ALWAYS



## UNDER CONTROL

Unico Evo heat pump air conditioners without outdoor unit has also seen an evolution in the command technology with the aim to improve both user experience and remote assistance. Thanks to the new RS485 port and integrated Wi-Fi, they can be more easily controlled, both from inside and outside the home.

### ONBOARD TOUCH DISPLAY OR REMOTE CONTROL

Unico Evo features onboard backlit display with touch controls and full digital remote control.

### HOME AUTOMATION

Through the RS485 port for air conditioner control via external BMS using Modbus RTU protocol, Unico Evo can be connected to home automation.

### FROM A SMARTPHONE WITH THE OS HOME APP

By downloading the app from Apple and Android stores, you can check the room temperature, set the main modes, program the on and off timers. But also create operating synergies between different Olimpia Splendid devices and improve remote assistance.

**Everything is simpler.**





# THE COMFORT THAT RESPECTS THE PLANET

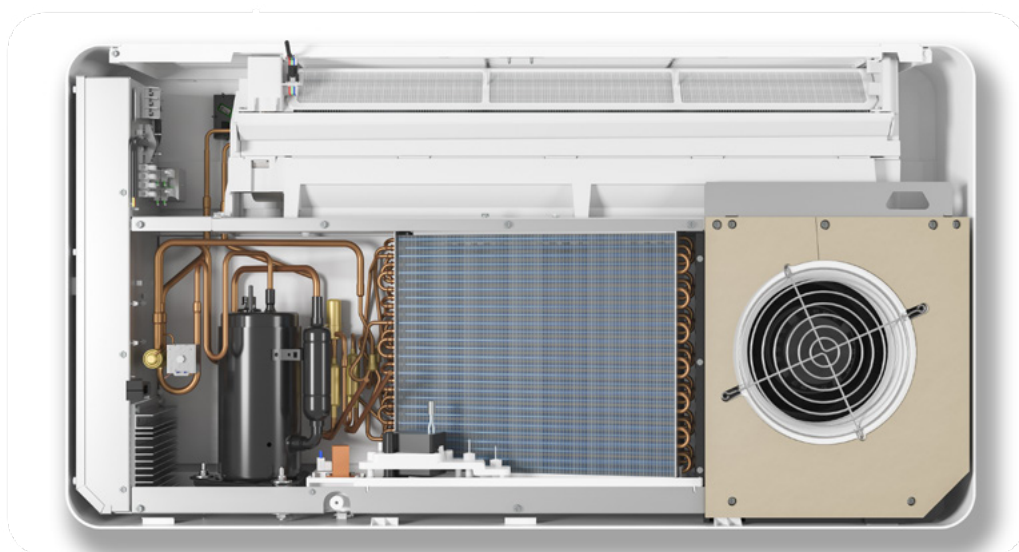
|                    |        | Air conditioner installation height |                   |                   |                   |
|--------------------|--------|-------------------------------------|-------------------|-------------------|-------------------|
|                    |        | 0,6m                                | 1,0m              | 1,8m              | 2,2m              |
| Refrigerant charge | <152 g | No restrictions                     | No restrictions   | No restrictions   | No restrictions   |
|                    | 153 g  | 37 m <sup>2</sup>                   | 13 m <sup>2</sup> | 4 m <sup>2</sup>  | 3 m <sup>2</sup>  |
|                    | 220 g  | 76 m <sup>2</sup>                   | 28 m <sup>2</sup> | 8 m <sup>2</sup>  | 6 m <sup>2</sup>  |
|                    | 290 g  | 133 m <sup>2</sup>                  | 48 m <sup>2</sup> | 15 m <sup>2</sup> | 10 m <sup>2</sup> |

Minimum floor areas for refrigerant R290  
(according to IEC 60335-2-40)

## THE NATURAL REFRIGERANT R290 WITH A NEAR-TO-ZERO GWP

To make sustainable comfort a standard within everyone's reach, an innovative refrigeration circuit with 5mm batteries has been designed, allowing up to 2.5 kW of cooling power to be achieved with a refrigerant charge below the limit of 152 g, as prescribed by regulations.

**Unico Evo can thus be installed in all environments, without minimum limits of floor area and installation height.**





## PRODUCED WITH 100% RENEWABLE ENERGY

Unico Evo is manufactured in Italy at Olimpia Splendid's smart factory: a facility specialized in the production of heat pump air conditioners without outdoor unit, powered 100% by electricity from renewable sources and characterized by high levels of automation and efficiency.

**Sustainable,  
since birth.**



## PACKAGED IN FSC CARDBOARD, RECYCLABLE AND PLASTIC-FREE

The rigorous selection of materials also extends to packaging. The packaging of Unico Evo is made of FSC® certified cardboard (sourced from forests managed fairly and responsibly according to strict environmental, social, and economic standards), 100% recyclable and 98% plastic-free. And the manuals? Digital and easily accessible via a QR code.

**Small, significant choices  
to respect our Planet.**

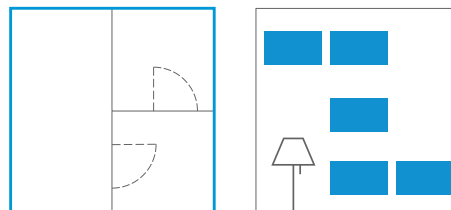




# INSTALLATION

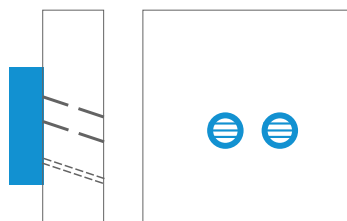
## ANYWHERE ALONG THE PERIMETER, HIGH OR LOW

Unico Evo can be installed anywhere along the entire perimeter of the house, near the floor or ceiling, in the center of the wall, or in the corners of the room.



## OUTSIDE, ONLY TWO HOLES

For the operation of Unico, only two holes in the wall (200 mm) are necessary. For all heat pump versions, condensate drain is also required (except for units set for cooling-only operation during installation).



# FUNCTIONS



COOLING



HEATING



DEHUMIDIFICATION



VENTILATION



### ECO MODE

It saves energy by automatically optimising machine performance.



### AUTO MODE

It modulates operating parameters in relation to room temperature.



### SILENT MODE

To reduce the sound pressure level to 30 dB(A), set the compressor and fans to the lowest level.



### TIMER 24H

From the remote control or from the APP, two different on/off timers can be set.

# TECHNICAL DATA

|                                    |                                         | Unico EVO<br>20 HP PVAN | Unico EVO<br>25 HP PVAN |
|------------------------------------|-----------------------------------------|-------------------------|-------------------------|
| Code                               |                                         | 02453                   | 02455                   |
| COOLING                            | Power (min/max)                         | 1,0/2,3 kW              | 1,0/2,5 kW              |
|                                    | Nominal capacity                        | 1,7 kW                  | 2,1 kW                  |
|                                    | Declared Energy Efficiency Ratio – EERd | 3,1                     | 2,6                     |
|                                    | Energy Efficiency Class                 | A+                      | A                       |
| HEATING                            | Power (min/max)                         | 1,0/2,2 kW              | 1,0/2,3 kW              |
|                                    | Nominal capacity                        | 1,5 kW                  | 1,7 kW                  |
|                                    | Declared Energy Efficiency Ratio – COPd | 3,4                     | 3,1                     |
|                                    | Energy Efficiency Class                 | A                       | A                       |
| Internal sound pressure (min/max)  |                                         | 26/40 dB(A)             | 26/40 dB(A)             |
| Sound pressure level - Silent Mode |                                         | 30 dB(A)                | 30 dB(A)                |
| Size (LxHxD)                       |                                         | 1015x540x180 mm         | 1015x540x180 mm         |

Test conditions: data refer to standard EN14511 - HEATING MODE: Outdoor ambient temperature DB 7°C / WB 6°C; indoor ambient temperature DB 20°C / WB 15°C – COOLING MODE: Outdoor ambient temperature DB 35°C / WB 24°C; indoor ambient temperature DB 27°C / WB 19°C  
Sound pressure: test data declared in a semi-anechoic chamber at a distance of 2 m, minimum pressure in fan-only mode.



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Olimpia Splendid is an Italian company that, since 1956, has been designing, manufacturing and marketing products for Air Conditioning, Heating and Air Treatment. The Home of Comfort payoff describes our commitment to creating innovative, environmentally friendly products with an unmistakable Made in Italy design. Our goal is to satisfy, in every season, the needs of our customers worldwide. Comfort at Home is the result.

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