

NEW

# Unico Vertical [EVAN]

Heat pump air conditioner without external unit

Cod. 02559

Cod. 02557



## SPACE SAVING

Developed vertically, it brings comfort where any other installation would be impossible, such as the corner of a room or the space between two windows.



## PRO POWER

Super cooling power (up to 3.5 kW) to meet the needs of even the largest environments.



## AVAILABLE IN RECESSED VERSION

Available for both free-standing and recessed installation (customised or with metal panel) for best architectural integration even in indoor spaces.

## CONDENSATE DRAIN

Mandatory. See the installation manual for details.









## FEATURES

- Max power: 3.5 kW
- Available in the version: HP (heat pump)
- Cooling class: A
- Refrigerant gas: R32 (GWP=675)
- Available in aesthetic and recessed version
- Floor installation for aesthetic version
- Recessed installation for naked version
- On-board touchscreen display (Only for aesthetic version).
- Multifunctional remote control with LCD display (Only for aesthetic version).
- On/off contact for enabling or energy boost
- An RS485 port is available to control the unit with external BMS in Modbus RTU language.

## FUNCTIONS

- **Cooling, heating, dehumidification and ventilation**
- **Economy function:** allows energy savings, automatically optimising machine performance
- **Auto function:** modulates the operating parameters in relation to the room temperature.
- **Silent Mode function:** mode that sets the machine to the lowest noise level. The compressor and fans are set to reduce the sound pressure down to 38 dB(A).
- **24 H timer**



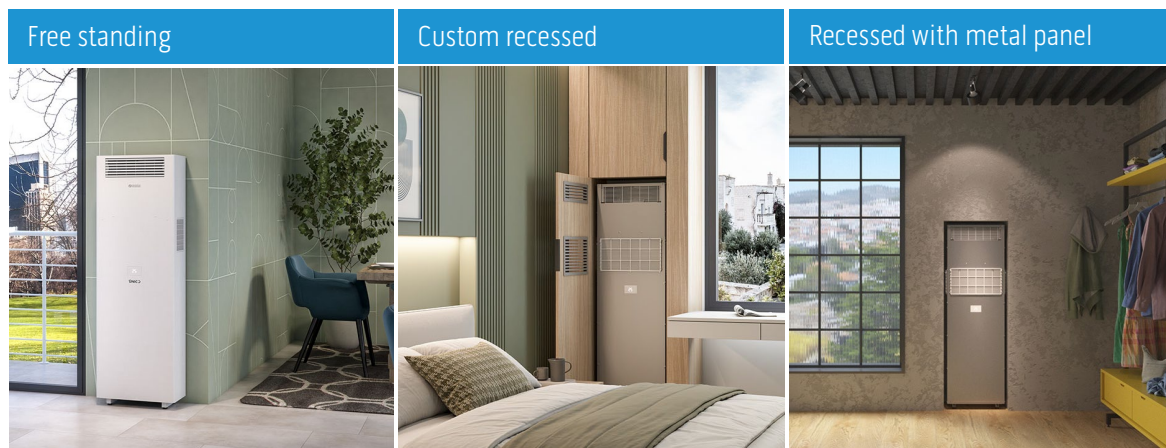
| PRODUCT CODE                                                             | Unico Vertical 35 HP EVAN |        |  | Unico Vertical-NK 35 HP EVAN                                                        |  |                                                                                       |
|--------------------------------------------------------------------------|---------------------------|--------|--|-------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|
|                                                                          | 02559                     |        |  | 02557                                                                               |  |                                                                                       |
| EAN CODE                                                                 | 8021183025590             |        |  | 8021183025576                                                                       |  |                                                                                       |
| Cooling power (min/max)                                                  |                           | kW     |  | 1,8/3,5                                                                             |  | 1,8/3,5                                                                               |
| Heating power (min/max)                                                  |                           | kW     |  | 1,7/3,2                                                                             |  | 1,7/3,2                                                                               |
| Nominal cooling capacity (1)                                             | Prated                    | kW     |  |    |  |    |
| Nominal heating capacity (1)                                             | Prated                    | kW     |  |    |  |    |
| Nominal power consumption for cooling (1)                                | PEER                      | kW     |  | 1.2                                                                                 |  | 1.2                                                                                   |
| Nominal absorption for cooling (1)                                       |                           | A      |  | 5.7                                                                                 |  | 5.7                                                                                   |
| Nominal power consumption for heating (1)                                | PCOP                      | kW     |  | 0.8                                                                                 |  | 0.8                                                                                   |
| Nominal absorption for heating (1)                                       |                           | A      |  | 3.7                                                                                 |  | 3.7                                                                                   |
| Nominal energy efficiency index (1)                                      | EERd                      |        |  | 2.6                                                                                 |  | 2.6                                                                                   |
| Nominal efficiency coefficient (1)                                       | COPd                      |        |  | 3.1                                                                                 |  | 3.1                                                                                   |
| Energy efficiency class in cooling (1)                                   |                           |        |  | A                                                                                   |  | A                                                                                     |
| Energy efficiency class in heating (1)                                   |                           |        |  | A                                                                                   |  | A                                                                                     |
| Energy consumption in "thermostat off" mode                              | PTO                       | W      |  | 21                                                                                  |  | 21                                                                                    |
| Energy consumption in "standby" mode (EN 62301)                          | PSB                       | W      |  | 0.5                                                                                 |  | 0.5                                                                                   |
| Energy consumption for double pipe appliances (1) - cooling function     | QDD                       | kWh/h  |  | 1.2                                                                                 |  | 1.2                                                                                   |
| Energy consumption for double pipe appliances (1) - heating function     | QDD                       | kWh/h  |  | 0.8                                                                                 |  | 0.8                                                                                   |
| Cooling power with Silent Mode function                                  |                           | kW     |  | 1.8                                                                                 |  | 1.8                                                                                   |
| Heating power with Silent Mode function                                  |                           | kW     |  | 1.7                                                                                 |  | 1.7                                                                                   |
| Supply voltage                                                           |                           | V-F-Hz |  | 230-1-50                                                                            |  | 230-1-50                                                                              |
| Supply voltage (min/max)                                                 |                           | V      |  | 198 / 264                                                                           |  | 198 / 264                                                                             |
| Power consumption in cooling mode (min/max)                              |                           | kW     |  | 0,5 / 1,5                                                                           |  | 0,5 / 1,5                                                                             |
| Absorption in cooling mode (min/max)                                     |                           | A      |  | 2,8 / 7,2                                                                           |  | 2,8 / 7,2                                                                             |
| Absorbed power in heating mode (min/max)                                 |                           | kW     |  | 0,3 / 1,4                                                                           |  | 0,3 / 1,4                                                                             |
| Absorption in heating mode (min/max)                                     |                           | A      |  | 2,5/6,8                                                                             |  | 2,5/6,8                                                                               |
| Maximum power consumption with electric resistance heating               |                           | kW     |  | -                                                                                   |  | -                                                                                     |
| Maximum absorption with electric resistance heating                      |                           | A      |  | -                                                                                   |  | -                                                                                     |
| Dehumidification capacity                                                |                           | l/h    |  | 1.1                                                                                 |  | 1.1                                                                                   |
| Air flow rate in cooling environment (max/med/min)                       |                           | m³/h   |  | 440/390/290                                                                         |  | 440/390/290                                                                           |
| Air flow rate in heating environment (max/med/min)                       |                           | m³/h   |  | 440/390/290                                                                         |  | 440/390/290                                                                           |
| Air flow rate with electric resistance heating environment (max/med/min) |                           | m³/h   |  | -                                                                                   |  | -                                                                                     |
| External air flow rate in cooling (max/min)                              |                           | m³/h   |  | 640/190                                                                             |  | 640/190                                                                               |
| External air flow rate in heating (max/min)                              |                           | m³/h   |  | 640/190                                                                             |  | 640/190                                                                               |
| Internal ventilation speed                                               |                           |        |  | 3                                                                                   |  | 3                                                                                     |
| External ventilation speed                                               |                           |        |  | 5                                                                                   |  | 5                                                                                     |
| Diameter wall holes**                                                    |                           | mm     |  | 202                                                                                 |  | 202                                                                                   |
| Electric resistance heating                                              |                           | kW     |  | -                                                                                   |  | -                                                                                     |
| Maximum remote control range (distance/angle)                            |                           | m / °  |  | 8 / ±80°                                                                            |  | 8 / ±80°                                                                              |
| Dimensions (WxHxD) (without packaging)                                   |                           | mm     |  | 523x1590x255                                                                        |  | 517x1585x260                                                                          |
| Dimensions (WxHxD) (with packaging)                                      |                           | mm     |  | 593x1727x328                                                                        |  | 593x1727x328                                                                          |
| Weight (without packaging)                                               |                           | kg     |  | 84                                                                                  |  | 69                                                                                    |
| Weight (with packaging)                                                  |                           | kg     |  | 87                                                                                  |  | 72                                                                                    |
| Internal sound pressure (min/max) (2)                                    |                           | dB(A)  |  |  |  |  |
| Silent Mode sound pressure level                                         |                           | dB(A)  |  | 38                                                                                  |  | 38                                                                                    |
| Degree of protection provided by covers                                  |                           |        |  | IP20                                                                                |  | IP20                                                                                  |
| Refrigerant gas*                                                         |                           | Type   |  | R32                                                                                 |  | R32                                                                                   |
| Refrigerant gas charge                                                   |                           | kg     |  | 0.4                                                                                 |  | 0.4                                                                                   |
| Global warming potential                                                 | GWP                       |        |  | 675                                                                                 |  | 675                                                                                   |
| Maximum operating pressure                                               |                           | MPa    |  | 4.28                                                                                |  | 4.28                                                                                  |
| Power cable (N° pole x section mmq)                                      |                           |        |  | 3 x 1,5                                                                             |  | 3 x 1,5                                                                               |

(1) Test conditions: the data refer to the EN14511 standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor environment DB 20°C / WB 15°C - COOLING MODE: outdoor ambient temperature DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C  
(2): Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.  
\* Hermetically sealed equipment containing fluorinated gas with GWP equivalent 675.

| CONDIZIONI LIMITE DI FUNZIONAMENTO |                                |  |                   |
|------------------------------------|--------------------------------|--|-------------------|
| Indoor ambient temperature         | Maximum temperature in cooling |  | DB 35°C - WB 24°C |
|                                    | Minimum temperature in cooling |  | DB 18°C           |
|                                    | Maximum temperature in heating |  | DB 27°C           |
|                                    | Minimum temperature in heating |  | -                 |
| Outdoor ambient temperature        | Maximum temperature in cooling |  | DB 43°C - WB 32°C |
|                                    | Minimum temperature in cooling |  | -                 |
|                                    | Maximum temperature in heating |  | DB 24°C - WB 18°C |
|                                    | Minimum temperature in heating |  | DB -15°C          |

## Installation options

Unico Vertical can be installed in various ways depending on the architectural features of the space, enabling perfect integration between building and system. Depending on the chosen installation method, additional features are available (such as air exchange via integrated HRV units, available only in recessed versions), along with different control options. Like all heat pump air conditioners without outdoor unit, Unico Vertical must be installed on an external wall and requires two 20 cm diameter holes for the heat pump unit, and an additional two 10 cm holes for the optional HRV unit.



List of useful codes

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|          |                             |                            |       |                                 |       |                                 |
|----------|-----------------------------|----------------------------|-------|---------------------------------|-------|---------------------------------|
| MODELS   | 02559                       | Unico Vertical 35 HP EVAN  | 02557 | Unico Vertical-NK 35 HP EVAN    | 02557 | Unico Vertical-NK 35 HP EVAN    |
|          | 02558                       | Unico Vertical 35 HP EVANX | 02556 | Unico Vertical-NK 35 HP EVANX   | 02556 | Unico Vertical-NK 35 HP EVANX   |
| CONTROLS | Remote control (standard)   |                            | B1029 | Wireless thermostat white/black | B1029 | Wireless thermostat white/black |
|          | On-board display (standard) |                            | B1030 | Coloured wireless thermostat    | B1030 | Coloured wireless thermostat    |
|          | -                           |                            | B1128 | Relay wireless                  | B1128 | Relay wireless                  |
| HRV      | -                           |                            | B1031 | HRV integration kit             | B1031 | HRV integration kit             |
|          | -                           |                            | B0998 | Grille kit for HRV 100mm        | B0998 | Grille kit for HRV 100mm        |
| RECESS   | -                           |                            | -     |                                 | B1032 | HP unit flush kit               |
|          | -                           |                            | -     |                                 | B1033 | Kit for built-in HP+HRV units   |