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ÛNICO

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Unico

Air-to-air heat pumps without external unit

OLIMPIA SPLENDID
HOME OF COMFORT

An Italian smart factory

The new-generation Unico is proudly made in Italy, using a low-environmental impact production process

Produced with 100% renewable energy

Unico has been produced in Italy since 1998, in the Brescia factory of Olimpia Splendid. A long story that details the important technological know-how acquired by the company in the production of air conditioners without outdoor units. An experience further enhanced through the creation of a cutting-edge production hall for residential air-conditioning, fully powered by renewable electricity and distinguished by advanced automation and high efficiency.

Packaged in FSC cardboard, recyclable and plastic free

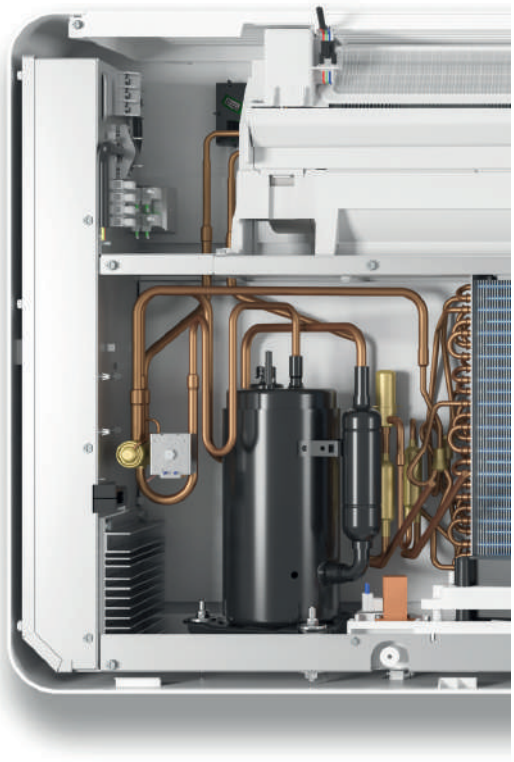
Every material has been carefully selected, including the packaging. Unico's new-generation packaging is made of FSC®-certified cardboard (sourced from responsibly managed forests adhering to strict environmental, social and economic standards), is 100% recyclable and 98% plastic free. And the manuals? They are digital and easy to access via a QR code.

The evolution of Unico

A new-generation technology featuring a sophisticated blend of components that work in perfect sync for optimal performance

The innovative Sync Power System

Low-vibration Twin Rotary compressor, state-of-the-art electronics with integrated wireless connectivity, low-noise condensate pump - these are just some of the components whose strength lies in perfect synchronisation. The innovative Sync Power System of the next-generation Unico ensures coordinated and harmonious operation of each element, increasing efficiency and guaranteeing low noise.



-49% perceived noise annoyance

Product Sound Quality tests, developed in collaboration with the Department of Architecture and Industrial Design, ACOUVI - Acoustics, Vibration and Multisensory Interactions Research Group, of the University of Campania “Luigi Vanvitelli”, have shown that the perceived noise annoyance (Psychoacoustic Annoyance Index) of the new heat pump air conditioners without external unit is reduced by up to 49% compared to previous models. At low frequencies, it is thus the quietest Unico range ever.

Installation guidelines

Simple and fast: Unico is installed from inside the home, by drilling two holes in the external wall and, where required, a third hole for condensate drainage

Watch the installation video on Youtube

No minimum installation area

The IEC 60335-2-40 standard provides the method for calculating the minimum area in which it is possible to install air conditioners containing type A3 coolant gases. Fixed air conditioners containing R290 charges greater than 152 g require verification of the usable floor area of the installation room: the higher the refrigerant charge, the larger the room must be; the lower the installation height of the machine, the larger the room must be. The table below shows the minimum usable floor areas of the rooms in which the machines can be installed, depending on the installation height and the grams of refrigerant charge (between 152 g and 988 g). Areas smaller than those indicated do not allow the installation of the air conditioner in the room in question, unless the additional precautions required by the IEC 60335-2-40 Standard are adopted (such as gas sensors, additional ventilation, etc.).

MINIMUM FLOOR AREAS PER ROOM FOR R290 GAS		Installation height			
		0,6 m	1,0 m	1,8 m	2,2 m
GAS CHARGE	≤ 152 g	Free	Free	Free	Free
	153 g	37 m²	13 m²	4 m²	3 m²
	220 g	76 m²	28 m²	8 m²	6 m²
	290 g	133 m²	48 m²	15 m²	10 m²

With reference to the IEC 60335-2-40 Standard, all Unico models in this catalogue can be installed freely inside any room, at any height and without minimum floor area limits. Even air conditioners using R290 gas have charges below 152 g: it is therefore not necessary to carry out any verification of the minimum installation area, and they can be installed indoors in any room, at any height and without minimum floor area limits.

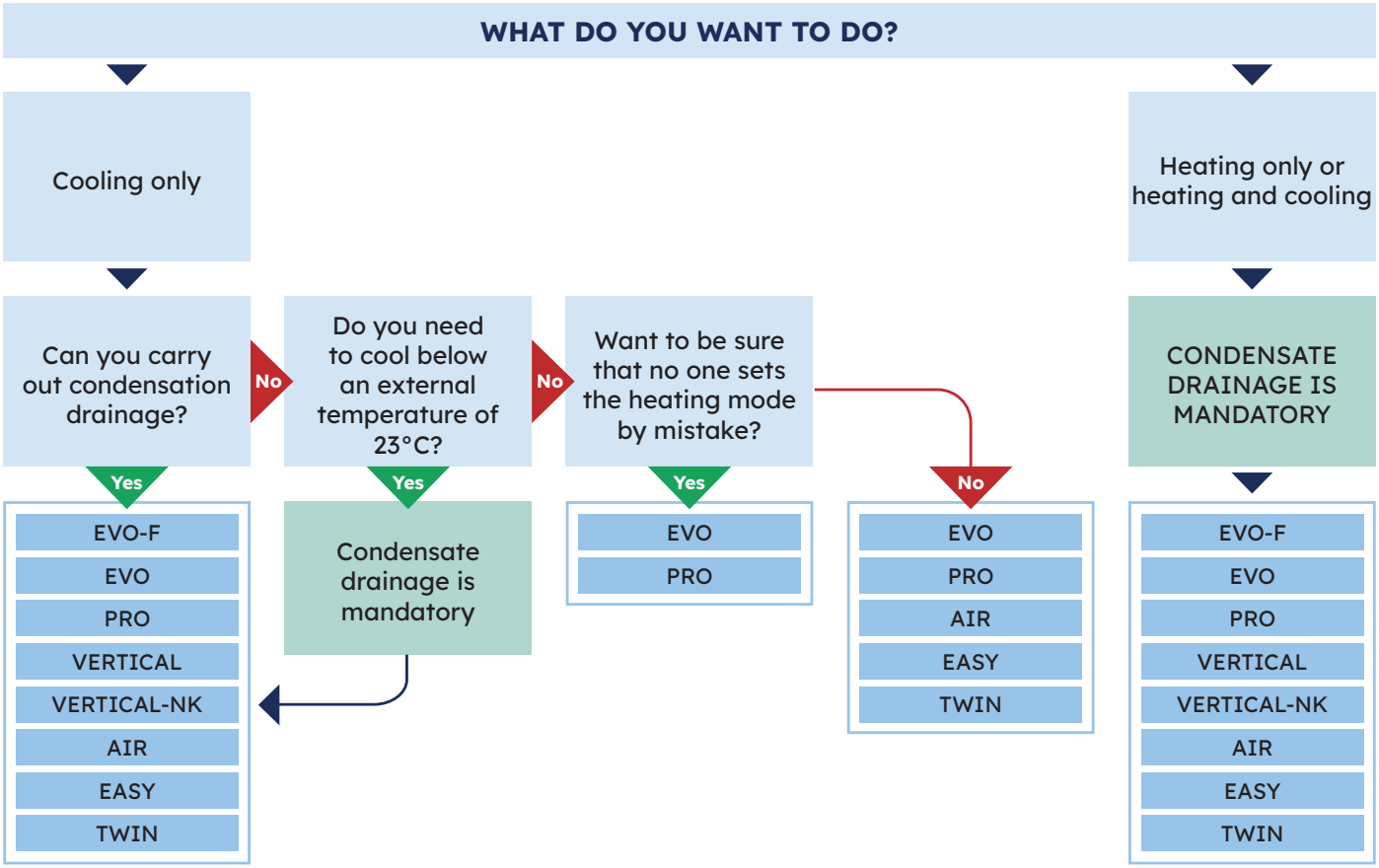
Along the perimeter, at the top or bottom

Unico can be installed along the entire perimeter wall of the home, near the floor or ceiling, in the centre of the wall or in the corners of the room (except for the Unico Easy and Unico Vertical models, which can only be installed on the floor). Check the clearance distances and installation methods in the specific manual for each model.

Outdoors, only 2 holes

The operation of Unico requires drilling two holes in the wall (160 or 200 mm), positioned as indicated in the drilling templates, which are available for download from the dedicated area of the website www.olimpiasplendid.it. As specified in the installation manuals of the individual models, it may also be necessary to create a third small hole for the condensate drain. The Unico models, previously installed, can be easily replaced, thanks to maintaining of the same centre distance of the air inlet and outlet holes. Use the drilling templates to perform the necessary checks in preparation for installation.

Condensate drain: when is it required?



Air-to-air heat pumps without external unit

			TECHNOLOGY	REFRIGERANT	ELECTRIC HEATER	ENERGY CLASS	SIZE
	**Unico Evo-F [PVA]**	**Unico Evo-F 16 HP PVA** [02522]	inverter	R290	-	A	16
	**Unico Evo [PVAN/EVAN/ EVANX]**	**Unico Evo 20 HP PVAN** [02453]	inverter	R290	-	A*	20
		Unico Evo 25 HP PVAN [02455]	inverter	R290	-	A	25
		Unico Evo 30 HP EVAN [02525]	inverter	R32	-	A	30
		Unico Evo 30 HP EVANX [02576]	inverter	R32	✓	A	30
	**Unico Pro [EVAN]**	**Unico Pro 30 HP EVAN** [02238]	inverter	R32	-	A*	30
		Unico Pro 35 HP EVAN [02239]	inverter	R32	-	A	35
	**Unico Vertical-NK [EVAN/EVANX]**	**Unico Vertical-NK 35 HP EVAN** [02557]	inverter	R32	-	A	35
		Unico Vertical-NK 35 HP EVANX [02556]	inverter	R32	✓	A	35
	**Unico Vertical [EVAN/ EVANX]**	**Unico Vertical 35 HP EVAN** [02559]	inverter	R32	-	A	35
		Unico Vertical 35 HP EVANX [02558]	inverter	R32	✓	A	35
	**Unico Air [EFA]**	**Unico Air HP EFA** [02595]	on/off	R32	-	A	20
	**Unico Easy [S2]**	**Unico Easy S2 HP** [02527]	on/off	R32	-	A	20
	**Unico Twin [RFA]**	**Unico Twin Master 30 HP RFA** [02138]	on/off	R410A	-	A	30
		Unico Twin Wall S1 [01996]					

NOMENCLATURE

- Position 1: Line name.
- Position 2: Range name.
- Position 3: Power size (20 = up to 2.0 kW nominal cooling capacity; 25 = 2.1 to 2.5 kW nominal cooling capacity: 30 = 2.6 to 3.0 kW nominal cooling capacity).
- Position 4: Operating specification (HP = heat pump).
- Position 5: Refrigerant (P = R290; E = R32; R = R410A).
- Position 6: Compressor technology (V = inverter; F = on/off).
- Position 7: Country-specific legislation (A = Europe).
- Position 8: Connectivity (N = integrated wireless control).
- Position 9: Electric heating element (X = integrated heating element).

Key

STANDARD CONTROLS

OS Home mobile application

Possibility of connection to external home automation system

Touch screen display

Remote control

FUNCTIONS

Auto Mode
Modulates the operating parameters, depending on the setpoint and ambient temperature.

Sleep Mode
Gradually adjusts the set temperature, for greater night-time well-being.

Eco Mode
It allows energy savings, optimising power to reduce consumption.

Timer
Sets automatic powering on and/or off.

Silent Mode
Reduces the noise of the product, for greater acoustic comfort.

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO EVO-F

[PVA]

Size	**16**
Energy class	**A**
Technology	**inverter**
Refrigerant	**R290**

100% post-consumer recycled plastic

It features a front band made of recycled black plastic: a material with technical performance identical to virgin plastic, but recovered from end-of-life products. This represents a first practical application of the research and development work carried out by Olimpia Splendid together with Safe, the Italian Hub of the Circular Economy Consortium, as part of the "Beyond Green" project and specifically focused on the recovery of plastics from WEEE.

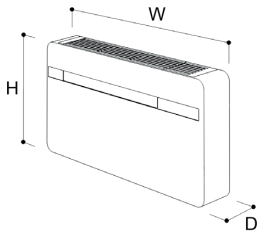
Low-charge refrigeration circuit of R290

To make sustainable comfort accessible to everyone, an innovative cooling circuit with 5mm heat exchanger coils has been designed, allowing for the required cooling capacity to be achieved with an R290 refrigerant charge below the 152 g required by law. The unit can therefore be installed in all environments, with no minimum floor area requirements.

TECHNICAL INFO

- Condensate drain mandatory at all times (even when used only for cooling). See the installation manual for details.
- Internal machine layout optimized for easy maintenance.
- Electrostatic filter with anti-dust function.
- Wide flap for even air diffusion in the room.
- Dry contact for enable or energy boost.
- There is an RS485 port prepared for controlling the unit with external BMS in Modbus RTU language.
- 100% recyclable packaging, 98% plastic free.

DIMENSIONS AND WEIGHT



		16
W	mm	1015
H	mm	540
D	mm	180
WEIGHT	kg	**41**

Cooling

Heating

Dehumidification

Ventilation

COMPATIBLE ACCESSORIES

B1029	Wireless thermostat
B1030	IAQ wireless thermostat
B1128	Relay wireless
B0984	Kit for preparing holes with a diameter of 200 mm
B0564	Grille kit diameter 160 mm
B0753	Rain cover kit for 200 mm grilles

TECHNICAL DATA

				Unico Evo-F 16 HP PVA
Product code				02522
EAN code				8021183025224
Nominal cooling capacity	Pnominale	(1)	kW	1,6
Output power in cooling mode (min/rated/max)		(1)	kW	1,0 / 1,6 / 2,1
Cooling power with Silent Mode function			kW	-
Absorbed power in cooling mode (min/rated/max)		(1)	kW	0,3 / 0,6 / 1,1
Absorption in cooling mode (min/nom/max)		(1)	A	2,5 / 6,1 / 7,4
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	0,6
Energy efficiency class in cooling		(1)		A
Indoor air flow rate in cooling mode (min/average/max)			m³/h	195 / 270 / 380
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	350 / - / 650
Dehumidification capacity			l/h	0,7
EER	EERd	(1)		2,6
Nominal heating capacity	Pnominale	(1)	kW	1,5
Output power in heating mode (min/rated/max)		(1)	kW	1,0 /1,5 / 2,1
Heating power with Silent Mode function			kW	-
Absorbed power in heating mode (min/rated/max)		(1)	kW	0,3 / 0,5 / 1,1
Absorption in heating mode (min/nom/max)		(1)	A	2,1 / 3,5 / 6,2
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,5
Energy efficiency class in heating mode		(1)		A
Indoor air flow rate in heating mode (min/average/max)			m³/h	195 / 270 / 380
Outdoor air flow rate in heating mode (min/average/max)			m³/h	350 / - / 650
COP	COPd	(1)		3,3
Electrical heating resistance (min/med/max)			kW	-
Maximum power consumption with electric resistance heating			kW	-
Maximum absorption with electric resistance heating			A	-
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-
Internal sound pressure (min/max)		(2)	dB(A)	27-42
Internal sound pressure in Silent Mode			dB(A)	-
Energy consumption in "thermostat off" mode	PTO		W	14
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5
Supply voltage			V-F-Hz	230-1-50
Supply voltage (min/max)			V	198 / 264
Power cable (N° pole x section mmq)				3 x 1,5
Internal ventilation speed				3
External ventilation speed				6
Diameter wall holes		(3)	mm	162/202
Maximum wall hole depth			m	1
Degree of protection of casing				IP20
Refrigerant gas		(4)	Type	R290
Refrigerant gas charge			kg	0,145
Global warming potential	GWP			3
Maximum operating pressure			MPa	3,10
Maximun remote control range (distance/angle)			m / °	8 / ±80°
Dimensions (WxHxD) (without packaging)			mm	1015 x 540 x 180
Dimensions (WxHxD) (with packaging)			mm	1100 x 605 x 290
Weight (without packaging)			kg	41
Weight (with packaging)			kg	43

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C
	Operating temperatures in heating mode (min/max)	DB -15°C / DB 24°C
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 35°C
	Operating temperatures in heating mode (min/max)	- / DB 27° C

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(2) Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.
(3) Machine supplied with grilles for 202 mm wall holes. If necessary, to replace an old Unico, the machine can also be installed with holes of 162 mm in diameter.
(4) Hermetically sealed equipment containing gas with a GWP equivalent of 3.

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO EVO

[PVAN/EVAN/EVANX]

Size	**20, 25, 30**
Energy class	**A+, A**
Technology	**inverter**
Refrigerant	**R290, R32**
Electric heater	✓

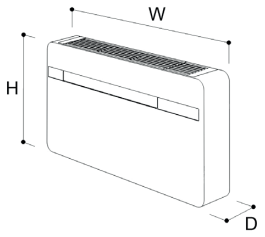
Sync Power System

The new Twin Rotary compressor and the latest generation electronics are synchronised to obtain the best acoustic comfort, in all operating conditions. At low frequencies, it is one of the quietest Olimpia Splendid models without an external unit ever produced.

Integrated electric heater in the EVANX version

Below a certain outdoor temperature, the unit (Unico Evo 30 HP EVANX model) automatically switches from heat pump to electric heating, to ensure comfort even in the coldest outdoor temperatures. The switching temperature can be set during installation (default 4°C). The electric heating element has a modulating operation, the output power varies according to the set ventilation speed.

DIMENSIONS AND WEIGHT



		20	25	30
W	mm	1015	1015	1015
H	mm	540	540	540
D	mm	180	180	180
WEIGHT	kg	**41**	**41**	**41**

- **Cooling**
- **Heating**
- **Dehumidification**
- **Ventilation**
- **Auto Mode**
- **Eco Mode**
- **Silent Mode**
- **Timer**

COMPATIBLE ACCESSORIES

B0999	Wireless control for radiators (NEW)
B0564	Grille kit diameter 160 mm
B1029	Wireless thermostat
B1030	IAQ wireless thermostat
B1128	Relay wireless
B0984	Kit for preparing holes with a diameter of 200 mm
B0620	Heating cable
B0753	Rain cover kit for 200 mm grilles

TECHNICAL INFO

- Condensate drain mandatory if used for heating. See the installation manual for details.
- In the absence of condensate drainage, it is possible to configure the machine, during installation, in COLD ONLY version by deactivating the heating function. If necessary, it is also possible to configure the machine in WARM ONLY, disttivating the heating function.
- Internal machine layout optimized for easy maintenance.
- Multi-filtering system consisting of electrostatic filter (with anti-dust function) and activated carbon filter (effective against odors).
- Wide flap for even air diffusion in the room.
- Dry contact for enable or energy boost.
- There is an RS485 port prepared for controlling the unit with external BMS in Modbus RTU language.
- 100% recyclable packaging, 98% plastic free.

TECHNICAL DATA

				Unico Evo 20 HP PVAN	Unico Evo 25 HP PVAN	Unico Evo 30 HP EVAN	Unico Evo 30 HP EVANX
Product code				02453	02455	02525	02576
EAN code				8021183024531	8021183024555	8021183025255	8021183025767
Nominal cooling capacity	Pnominale	(1)	kW	1,7	2,1	2,6	2,6
Output power in cooling mode (min/rated/max)		(1)	kW	1,0 / 1,7 / 2,3	1,0 / 2,1 / 2,5	1,5 / 2,6 / 3,1	1,5 / 2,6 / 3,1
Cooling power with Silent Mode function			kW	1,4	1,4	2,1	2,2
Absorbed power in cooling mode (min/rated/max)		(1)	kW	0,3 / 0,5 / 1,0	0,3 / 0,8 / 1,1	0,4 / 1,0 / 1,6	0,4 / 1,0 / 1,6
Absorption in cooling mode (min/nom/max)		(1)	A	2,5 / 4,7 / 7,0	2,5 / 4,7 / 7,2	1,9 / 4,1 / 7,6	1,9 / 4,1 / 7,6
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	0,5	0,8	1	1
Energy efficiency class in cooling		(1)		A+	A	A	A
Indoor air flow rate in cooling mode (min/average/max)			m³/h	195 / 270 / 380	195/270/380	210 / 270 / 410	210 / 270 / 410
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	350 / - / 650	350 / - / 650	350 / - / 650	350 / - / 650
Dehumidification capacity			l/h	0,7	0,7	0,7	0,7
EER	EERd	(1)		3,1	2,6	2,6	2,6
Nominal heating capacity	Pnominale	(1)	kW	1,5	1,7	2,4	2,4
Output power in heating mode (min/rated/max)		(1)	kW	1,0 / 1,5 / 2,2	1,0 / 1,7 / 2,3	1,2 / 2,4 / 2,7	1,2 / 2,4 / 2,7
Heating power with Silent Mode function			kW	1,4	1,4	1,9	2,1
Absorbed power in heating mode (min/rated/max)		(1)	kW	0,3 / 0,4 / 1,0	0,3 / 0,5 / 1,0	0,3 / 0,8 / 1,1	0,3 / 0,8 / 1,1
Absorption in heating mode (min/nom/max)		(1)	A	2,1 / 3,4 / 5,7	2,1 / 3,4 / 5,9	1,5 / 3,4 / 5,4	1,5 / 3,4 / 5,4
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,4	0,5	0,8	0,8
Energy efficiency class in heating mode		(1)		A	A	A	A
Indoor air flow rate in heating mode (min/average/max)			m³/h	195 / 270 / 380	195/270/380	210/270/410	210/270/410
Outdoor air flow rate in heating mode (min/average/max)			m³/h	350 / - / 650	350 / - / 650	350 / - / 650	350 / - / 650
COP	COPd	(1)		3,4	3,1	3,1	3,1
Electrical heating resistance (min/med/max)			kW	-	-	-	1,5/1,75/2,0
Maximum power consumption with electric resistance heating			kW	-	-	-	1,5/1,75/2,0
Maximum absorption with electric resistance heating			A	-	-	-	7,2 / 7,7 / 8,4
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-	-	-	210/270/410
Internal sound pressure (min/max)		(2)	dB(A)	26-40	26-40	26-42	26-42
Internal sound pressure in Silent Mode			dB(A)	30	30	30	30
Energy consumption in "thermostat off" mode	PTO		W	14	14	14	14
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5	0,5	0,5	0,5
Supply voltage			V-F-Hz	230-1-50	230-1-50	230-1-50	230-1-50
Supply voltage (min/max)			V	198 / 264	198 / 264	198 / 264	198 / 264
Power cable (N° pole x section mmq)				3 x 1,5	3 x 1,5	3 x 1,5	3 x 1,5
Internal ventilation speed				3	3	3	3
External ventilation speed				6	6	6	6
Diameter wall holes		(3)	mm	162/202	162/202	162/202	162/202
Maximum wall hole depth			m	1	1	1	1
Degree of protection of casing				IP20	IP20	IP20	IP20
Refrigerant gas		(4)	Type	R290	R290	R32	R32
Refrigerant gas charge			kg	0,145	0,145	0,28	0,28
Global warming potential	GWP			3	3	675	675
Maximum operating pressure			MPa	3,1	3,1	4,2	4,2
Maximun remote control range (distance/angle)			m / °	8 / ±80°	8 / ±80°	8 / ±80°	8 / ±80°
Dimensions (WxHxD) (without packaging)			mm	1015 x 540 x 180	1015 x 540 x 180	1015 x 540 x 180	1015 x 540 x 180
Dimensions (WxHxD) (with packaging)			mm	1100 x 605 x 290	1100 x 605 x 290	1100 x 605 x 290	1100 x 605 x 290
Weight (without packaging)			kg	41	41	41	41
Weight (with packaging)			kg	43	43	43	43

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C	- / DB 43°C	- / DB 43°C	- / DB 43°C
	Operating temperatures in heating mode (min/max)	DB -15°C / DB 24°C	DB -15°C / DB 24°C	DB -15°C / DB 24°C	DB -15°C / DB 24°C
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 35°C	DB 18°C / DB 35°C	DB 18°C / DB 35°C	DB 18°C / DB 35°C
	Operating temperatures in heating mode (min/max)	- / DB 27° C	- / DB 27° C	- / DB 27° C	- / DB 27° C

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(2) Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.
(3) Machine supplied with grilles for 202 mm wall holes. If necessary, to replace an old Unico, the machine can also be installed with holes of 162 mm in diameter.
(4) Hermetically sealed equipment containing gas with GWP equivalent to 3 (R290) and 675 (R32).

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO PRO

[EVAN]

Size	**30, 35**
Energy class	**A+, A**
Technology	**inverter**
Refrigerant	**R32**

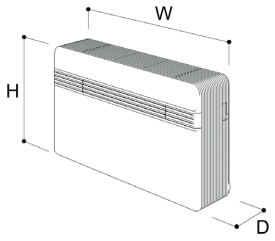
Professional performance

High cooling capacity (up to 3.5 kW), to meet the needs of even the largest spaces. Maximum acoustic comfort, in all operating conditions, thanks to state-of-the-art electronics perfectly synchronised with the compressor. And high energy efficiency (up to class A+) for air conditioning that optimises consumption.

Designed by Matteo Thun and Antonio Rodriguez

The prestigious Italian design studio has created for Olimpia Splendid a unit with clean, essential lines, awarded in numerous international competitions, minimising its visual impact on the environment and promoting seamless integration of comfort technologies into living spaces.

DIMENSIONS AND WEIGHT



		30	35
W	mm	903	903
H	mm	520	520
D	mm	215	215
WEIGHT	kg	**39**	**39**

- **Cooling**
- **Heating**
- **Dehumidification**
- **Ventilation**
- **Auto Mode**
- **Eco Mode**
- **Silent Mode**
- **Timer**

TECHNICAL INFO

- Condensate drain mandatory if used for heating. See the installation manual for details.
- In the absence of condensate drainage, it is possible to configure the machine, during installation, in COLD ONLY version by deactivating the heating function. If necessary, it is also possible to configure the machine in WARM ONLY by deactivating the heating function.
- Main internal components accessible from the front with the machine already installed.
- Multi-filtering system consisting of electrostatic filter (with anti-dust function) and activated carbon filter (effective against odors).
- Wide flap for even air diffusion in the room.
- Dry contact for enable or energy boost.
- There is an RS485 port prepared for controlling the unit with external BMS in Modbus RTU language.

COMPATIBLE ACCESSORIES

B0999	Wireless control for radiators (NEW)
B1029	Wireless thermostat
B1030	IAQ wireless thermostat
B1128	Relay wireless
B0984	Kit for preparing holes with a diameter of 200 mm
B0564	Grille kit diameter 160 mm
B0620	Heating cable
B0753	Rain cover kit for 200 mm grilles

TECHNICAL DATA

				Unico Pro 30 HP EVAN	Unico Pro 35 HP EVAN
Product code				02238	02239
EAN code				8021183022384	8021183022391
Nominal cooling capacity	Pnominale	(1)	kW	2,6	3,1
Output power in cooling mode (min/rated/max)		(1)	kW	1,9 / 2,6 / 3,4	1,9 / 3,1 / 3,5
Cooling power with Silent Mode function			kW	1,9	1,9
Absorbed power in cooling mode (min/rated/max)		(1)	kW	0,5 / 0,8 / 1,5	0,5 / 1,2 / 1,5
Absorption in cooling mode (min/nom/max)		(1)	A	3,1 / 4,0 / 7,5	3,1 / 4,3 / 7,5
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	0,8	0,8
Energy efficiency class in cooling		(1)		A+	A
Indoor air flow rate in cooling mode (min/average/max)			m³/h	350 / 390 / 490	350 / 390 / 490
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	120/ - / 600	120 / - / 600
Dehumidification capacity			l/h	1,3	1,3
EER	EERd	(1)		3,1	2,6
Nominal heating capacity	Pnominale	(1)	kW	1,8	2,4
Output power in heating mode (min/rated/max)		(1)	kW	1,5 / 1,8 / 3,0	1,5 / 2,4 / 3,2
Heating power with Silent Mode function			kW	1,5	1,5
Absorbed power in heating mode (min/rated/max)		(1)	kW	0,4 / 0,5 / 1,4	0,4 / 0,8 / 1,4
Absorption in heating mode (min/nom/max)		(1)	A	2,5 / 3,6 / 6,8	2,5 / 3,8 / 6,8
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,5	0,7
Energy efficiency class in heating mode		(1)		A	A
Indoor air flow rate in heating mode (min/average/max)			m³/h	350 / 390 / 490	350 / 390 / 490
Outdoor air flow rate in heating mode (min/average/max)			m³/h	120 / - / 600	120 / - / 600
COP	COPd	(1)		3,4	3,1
Electrical heating resistance (min/med/max)			kW	-	-
Maximum power consumption with electric resistance heating			kW	-	-
Maximum absorption with electric resistance heating			A	-	-
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-	-
Internal sound pressure (min/max)		(2)	dB(A)	32-41	32-43
Internal sound pressure in Silent Mode			dB(A)	34	34
Energy consumption in "thermostat off" mode	PTO		W	22	22
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5	0,5
Supply voltage			V-F-Hz	230-1-50	230-1-50
Supply voltage (min/max)			V	198 / 264	198 / 264
Power cable (N° pole x section mmq)				3 x 1,5	3 x 1,5
Internal ventilation speed				3	3
External ventilation speed				6	6
Diameter wall holes		(3)	mm	162 / 202	162 / 202
Maximum wall hole depth			m	1	1
Degree of protection of casing				IP 20	IP 20
Refrigerant gas		(4)	Type	R32	R32
Refrigerant gas charge			kg	0,46	0,46
Global warming potential	GWP			675	675
Maximum operating pressure			MPa	4,28	4,28
Maximun remote control range (distance/angle)			m / °	8 / ±80°	8 / ±80°
Dimensions (WxHxD) (without packaging)			mm	903 x 520 x 215	903 x 520 x 215
Dimensions (WxHxD) (with packaging)			mm	980 x 610 x 330	980 x 610 x 330
Weight (without packaging)			kg	39	39
Weight (with packaging)			kg	42	42

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C	- / DB 43°C
	Operating temperatures in heating mode (min/max)	DB -15°C / DB 24°C	DB -15°C / DB 24°C
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 35°C	DB 18°C / DB 35°C
	Operating temperatures in heating mode (min/max)	- / DB 27° C	- / DB 27° C

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(2): Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.
(3) Machine supplied with grilles for 202 mm wall holes. If necessary, to replace an old Unico, the machine can also be installed with holes of 162 mm in diameter.
(4) Hermetically sealed equipment containing fluorinated gas with GWP equivalent 675.

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO VERTICAL-NK

[EVAN/EVANX]

Size	**35**
Energy class	**A**
Technology	**inverter**
Refrigerant	**R32**
Electric heater	✓

Recessed installation, with integrable HRV

To allow perfect integration between the heat pump and the building architecture, the unit is supplied without a casing and it is compatible with different types of recessed installation (custom-made or with a metal panel). This specific installation method also allows for the integration of additional features, such as air renewal with heat recovery. Thanks to the optional dedicated kit (B1031), it is possible to install a dual flow HRV unit in the top part, with a high-efficiency enthalpy heat exchanger, featuring cross-flow, counter-current operation. In addition to traditional cooling and heating functions, Unico Vertical can also guarantee air renewal, improving indoor air quality and overall system efficiency.

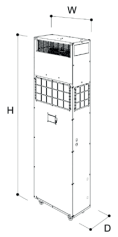
Integrated electric heater in the EVANX version

Below a certain outdoor temperature value, the unit (in the EVANX version) automatically switches from heat pump to electric heating to ensure comfort even in the coldest outdoor temperatures. The switching temperature can be set during installation (factory default is 4°C). The electric reistance has a modulating operation, the power output varies with the set ventilation speed.

TECHNICAL INFO

- Condensate drain mandatory at all times (even when used only for cooling). See the installation manual for details.
- Electrostatic filter with anti-dust function.
- Dry contact for enable or energy boost.
- Condensate basin heating cable as standard.
- There is an RS485 port prepared for controlling the unit with external BMS in Modbus RTU language.

DIMENSIONS AND WEIGHT



		EVAN	EVANX
W	mm	517	517
H	mm	1585	1585
D	mm	255	255
WEIGHT	kg	**69**	**70**

COMPATIBLE ACCESSORIES

B0999	Wireless control for radiators NEW
B1029	Wireless thermostat
B1030	IAQ wireless thermostat
B1128	Relay wireless
B0984	Kit for preparing holes with a diameter of 200 mm
B1032	Wall recess kit
B1033	Wall recess kit with HRV kit
B1031	HRV kit
B0998	Kit for 160mm grille for HRV installation
B0984	Kit for preparing holes with a diameter of 200 mm

- **Cooling**
- **Heating**
- **Dehumidification**
- **Ventilation**
- **Auto Mode**
- **Eco Mode**
- **Silent Mode**
- **Timer**

TECHNICAL DATA

				Unico Vertical-NK 35 HP EVAN	Unico Vertical-NK 35 HP EVANX
Product code				02557	02556
EAN code				8021183025576	8021183025569
Nominal cooling capacity	Pnominale	(1)	kW	3,1	3,1
Output power in cooling mode (min/rated/max)		(1)	kW	1,8 / 3,1 / 3,5	1,8 / 3,1 / 3,5
Cooling power with Silent Mode function			kW	1,8	1,8
Absorbed power in cooling mode (min/rated/max)		(1)	kW	0,5 / 0,8 / 1,5	0,5 / 0,8 / 1,5
Absorption in cooling mode (min/nom/max)		(1)	A	2,8 / 5,7 / 7,2	2,8 / 5,7 / 7,2
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	1,2	1,2
Energy efficiency class in cooling		(1)		A	A
Indoor air flow rate in cooling mode (min/average/max)			m³/h	290/390/440	280 / 380 /430
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	190 / - / 640	190 / - / 640
Dehumidification capacity			l/h	1,1	1,1
EER	EERd	(1)		2,6	2,6
Nominal heating capacity	Pnominale	(1)	kW	2,4	2,4
Output power in heating mode (min/rated/max)		(1)	kW	1,7 / 2,4 / 3,2	1,7 / 2,4 / 3,2
Heating power with Silent Mode function			kW	1,7	1,7
Absorbed power in heating mode (min/rated/max)		(1)	kW	0,3 / 0,8 / 1,4	0,3 / 0,8 / 1,4
Absorption in heating mode (min/nom/max)		(1)	A	2,5 / 3,7 / 6,8	2,5 / 3,7 / 6,8
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,8	0,8
Energy efficiency class in heating mode		(1)		A	A
Indoor air flow rate in heating mode (min/average/max)			m³/h	290/390/440	280 / 380 /430
Outdoor air flow rate in heating mode (min/average/max)			m³/h	190/640	190/640
COP	COPd	(1)		3,1	3,1
Electrical heating resistance (min/med/max)			kW	-	- / - / 2.0
Maximum power consumption with electric resistance heating			kW	-	2.0
Maximum absorption with electric resistance heating			A	-	8,7
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-	280 / 380 /430
Internal sound pressure (min/max)		(2)	dB(A)	36-44	36-44
Internal sound pressure in Silent Mode			dB(A)	38	38
Energy consumption in "thermostat off" mode	PTO		W	21	21
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5	0,5
Supply voltage			V-F-Hz	230-1-50	230-1-50
Supply voltage (min/max)			V	198 / 264	198 / 264
Power cable (N° pole x section mmq)				3 x 1,5	3 x 1,5
Internal ventilation speed				3	3
External ventilation speed				5	5
Diameter wall holes		(3)	mm	202	202
Maximum wall hole depth			m	1	1
Degree of protection of casing				IP20	IP20
Refrigerant gas		(4)	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
Maximun remote control range (distance/angle)			m / °	8 / ±80°	8 / ±80°
Dimensions (WxHxD) (without packaging)			mm	517x1585x255	517x1585x255
Dimensions (WxHxD) (with packaging)			mm	593x1727x328	593x1727x328
Weight (without packaging)			kg	69	70
Weight (with packaging)			kg	72	75

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C	- / DB 43°C
	Operating temperatures in heating mode (min/max)	DB -15°C / DB 24°C	DB -15°C / DB 24°C
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 35°C	DB 18°C / DB 35°C
	Operating temperatures in heating mode (min/max)	- / DB 27° C	- / DB 27° C

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(2): Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.
(3) Machine supplied with grilles for 202 mm wall holes.
(4) Hermetically sealed equipment containing fluorinated gas with GWP equivalent 675.

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO VERTICAL

[EVAN/EVANX]

Size	**35**
Energy class	**A**
Technology	**inverter**
Refrigerant	**R32**
Electric heater	✓

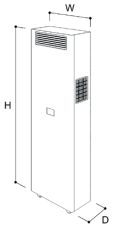
Professional performance, with compact overall dimensions

Up to 3.5 kW power in cooling mode and 3.2 kW in heating mode, to meet the needs of even large environments, with reduced overall dimensions. The vertical layout allows for a high-power heat pump to be enclosed in a particularly compact geometry, perfect for bringing comfort to areas where any other installation would be impossible, such as the corner of a room or the space between two windows.

Integrated electric heater in the EVANX version

Below a certain outdoor temperature value, the unit (in the EVANX version) automatically switches from heat pump to electric heating to ensure comfort even in the coldest outdoor temperatures. The switching temperature can be set during installation (factory default is 4°C). The electric reistance has a modulating operation, the power output varies with the set ventilation speed.

DIMENSIONS AND WEIGHT



		EVAN	EVANX
W	mm	523	523
H	mm	1590	1590
D	mm	260	260
WEIGHT	kg	**84**	**85**

- **Cooling**
- **Heating**
- **Dehumidification**
- **Ventilation**
- **Auto Mode**
- **Eco Mode**
- **Silent Mode**
- **Timer**

COMPATIBLE ACCESSORIES

B0999	Wireless control for radiators NEW
B1029	Wireless thermostat
B1030	IAQ wireless thermostat
B1128	Relay wireless
B0984	Kit for preparing holes with a diameter of 200 mm

TECHNICAL INFO

- Condensate drain mandatory at all times (even when used only for cooling). See the installation manual for details.
- Electrostatic filter with anti-dust function.
- Dry contact for enable or energy boost.
- Condensate basin heating cable as standard.
- There is an RS485 port prepared for controlling the unit with external BMS in Modbus RTU language.

TECHNICAL DATA

				Unico Vertical 35 HP EVAN	Unico Vertical 35 HP EVANX
Product code				02559	02558
EAN code				8021183025590	8021183025583
Nominal cooling capacity	Pnominale	(1)	kW	3,1	3,1
Output power in cooling mode (min/rated/max)		(1)	kW	1,8 / 3,1 / 3,5	1,8 / 3,1 / 3,5
Cooling power with Silent Mode function			kW	1,8	1,8
Absorbed power in cooling mode (min/rated/max)		(1)	kW	0,5 / 0,8 / 1,5	0,5 / 0,8 / 1,5
Absorption in cooling mode (min/nom/max)		(1)	A	2,8 / 5,7 / 7,2	2,8 / 5,7 / 7,2
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	1,2	1,2
Energy efficiency class in cooling		(1)		A	A
Indoor air flow rate in cooling mode (min/average/max)			m³/h	290/390/440	280 / 380 /430
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	190 / - / 640	190 / - / 640
Dehumidification capacity			l/h	1,1	1,1
EER	EERd	(1)		2,6	2,6
Nominal heating capacity	Pnominale	(1)	kW	2,4	2,4
Output power in heating mode (min/rated/max)		(1)	kW	1,7 / 2,4 / 3,2	1,7 / 2,4 / 3,2
Heating power with Silent Mode function			kW	1,7	1,7
Absorbed power in heating mode (min/rated/max)		(1)	kW	0,3 / 0,8 / 1,4	0,3 / 0,8 / 1,4
Absorption in heating mode (min/nom/max)		(1)	A	2,5 / 3,7 / 6,8	2,5 / 3,7 / 6,8
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,8	0,8
Energy efficiency class in heating mode		(1)		A	A
Indoor air flow rate in heating mode (min/average/max)			m³/h	290/390/440	280 / 380 /430
Outdoor air flow rate in heating mode (min/average/max)			m³/h	190/640	190/640
COP	COPd	(1)		3,1	3,1
Electrical heating resistance (min/med/max)			kW	-	- / - / 2.0
Maximum power consumption with electric resistance heating			kW	-	2.0
Maximum absorption with electric resistance heating			A	-	8,7
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-	280 / 380 /430
Internal sound pressure (min/max)		(2)	dB(A)	36-44	36-44
Internal sound pressure in Silent Mode			dB(A)	38	38
Energy consumption in "thermostat off" mode	PTO		W	21	21
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5	0,5
Supply voltage			V-F-Hz	230-1-50	230-1-50
Supply voltage (min/max)			V	198 / 264	198 / 264
Power cable (N° pole x section mmq)				3 x 1,5	3 x 1,5
Internal ventilation speed				3	3
External ventilation speed				5	5
Diameter wall holes		(3)	mm	202	202
Maximum wall hole depth			m	1	1
Degree of protection of casing				IP20	IP20
Refrigerant gas		(4)	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
Maximun remote control range (distance/angle)			m / °	8 / ±80°	8 / ±80°
Dimensions (WxHxD) (without packaging)			mm	523x1590x260	523x1590x260
Dimensions (WxHxD) (with packaging)			mm	593x1727x328	593x1727x328
Weight (without packaging)			kg	84	85
Weight (with packaging)			kg	87	90

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C	- / DB 43°C
	Operating temperatures in heating mode (min/max)	DB -15°C / DB 24°C	DB -15°C / DB 24°C
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 35°C	DB 18°C / DB 35°C
	Operating temperatures in heating mode (min/max)	- / DB 27° C	- / DB 27° C

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(2): Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.
(3) Machine supplied with grilles for 202 mm wall holes.
(4) Hermetically sealed equipment containing fluorinated gas with GWP equivalent 675.

Installation specifications

Vertically developed air-to-air heat pumps without external unit are easily integrated into the building architecture and offer a complete solution to manage the climate comfort of any room

Perfect architectural integration

As with all air-to-air heat pumps without an external unit, Unico Vertical and Unico Vertical-NK must be installed on a perimeter wall, aligned with the respective 20 cm diameter holes. Positioning the unit indoors is easy, thanks to a particularly compact geometry, which allows for even a corner of a room to be used, or the space between two windows, often unused.

Depending on the architectural characteristics of the environment, it is also possible to choose between free-standing floor installation or recessed installation (custom-built or with the optional metal panel): the latter option also allows the integration of a HRV unit in the top part, which will require two additional 16 cm diameter holes in the perimeter wall.

Free-standing installation

The Unico Vertical 35 HP EVAN (02559) and Unico Vertical 35 HP EVANX (02558) models feature an all-metal casing and can be installed on the floor in free-standing configuration.

Recessed installation

The Unico Vertical-NK 35 HP EVAN (02557) and Unico Vertical-NK 35 HP EVANX (02556) models are without aesthetics and can be embedded in the wall, using the optional metal panel (B1032 for the heat pump and B1033 for the HRV unit, if any). If no external control system, mandatory installation of a wireless thermostat (B1029 or B1030).

Custom built-in installation

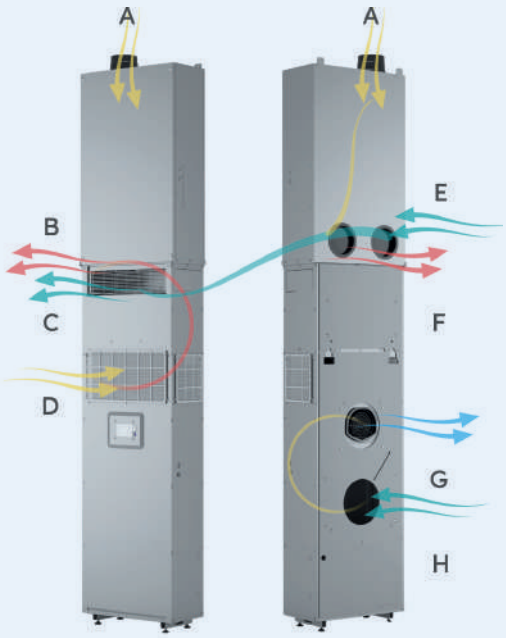
The Unico Vertical-NK 35 HP EVAN (02557) and Unico Vertical-NK 35 HP EVANX (02556) models feature no aesthetic casing and can be recessed into the wall, creating a custom-made cabinet. The installation of a wireless thermostat (B1029 or B1030) is recommended for easier access to the control panel.

Integrable HRV

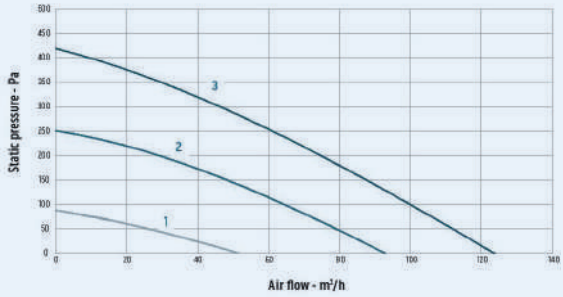
How to convert air-to-air heat pumps without an external unit into complete air treatment units

The special-purpose kit (cod. B1031) allows for a double-flow HRV unit with heat recovery can be integrated into Unico Vertical-NK. In addition to traditional cooling and heating functions, Unico Vertical can also guarantee effective and efficient air renewal, improving indoor air quality and overall system efficiency. The HRV unit is in fact equipped with a high-efficiency enthalpy heat exchanger, featuring cross-flow, counter-current operation.

A) HRV air intake
B) Heating/cooling air delivery
C) HRV air supply
D) Heating/cooling air return
E) HRV external air intake
F) HRV exhaust
G) External air exhaust in heating/cooling mode
H) External air intake - heating/cooling



Maximum flow rate @100 Pa	**m3/h**	103
Electrical power consumption (at the maximum flow rate)	**W**	58
SEC class (local demand control)		A
SEC control (central environment control)		NA
SEC class (manual control - No demand control ventilation)		B
Thermal efficiency		77%
Reference flow rate	**m3/h**	72
Reference pressure difference	**Pa**	0
Specific power consumption (SPI)	**W/m3/h**	0.389
Sound power level (LWA)	**dB(A)**	56
Electrical power supply	**V/F/Hz**	220-240/1/50-60
IP protection rating		X2
Sound pressure @2m(1)	**dB(A)**	29
Max room temperature	**°C**	40
HRV kit dimensions (W x H x D)	**mm**	508 x 932 x 234
Unico + HRV kit dimensions (W x H x D)	**mm**	517 x 2517 x 255



	Speed%	m³/h max
1	40	52
2	70	93
3	100	124

(1) Sound pressure level at 2 m in free field, speed 40%, reported for comparison purposes only.

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO AIR

[EFA]

Size	**20**
Energy class	**A**
Technology	**on/off**
Refrigerant	**R32**

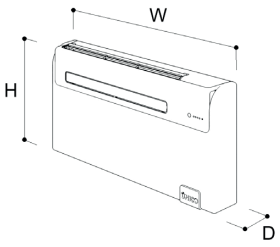
Ultra-slim design: only 16 cm deep

All Unico's technology is contained in a particularly compact volume (only 16 cm thick) that simplifies positioning in the smallest spaces of the home, where it easily integrates thanks to its minimalist design. Its reduced overall dimensions does not compromise acoustic comfort: thanks to sound-absorbing and anti-vibration materials and the Sleep function, the noise level of the unit is among the lowest.

Also suitable for recessed installation

Its reduced thickness makes it suitable for recessed installation, which makes Unico invisible even inside the home. With the use of the special formwork (1114x171xh125 mm) and the paintable front metal closing panel (1173x9xh754 mm), integrating the unit into the interior design of the room is even easier.

DIMENSIONS AND WEIGHT



		Unico Air
W	mm	978
H	mm	491
D	mm	164
WEIGHT	kg	**37**

- **Cooling**
- **Heating**
- **Dehumidification**
- **Ventilation**
- **Auto Mode**
- **Sleep Mode**
- **Timer**

COMPATIBLE ACCESSORIES

B1015	Wireless kit
B1014	Wireless serial interface
B1012	Wireless wall control
B0776	Recessed closing panel
B0775	Recessed formwork
B0564	Grille kit diameter 160 mm
B0620	Heating cable
B0753	Rain cover kit for 200 mm grilles

TECHNICAL INFO

- Condensate drain mandatory if used for heating. See the installation manual for details.
- Multi-filtering system consisting of electrostatic filter (with anti-dust function) and activated carbon filter (effective against odors).
- Wide flap for even air diffusion in the room.

TECHNICAL DATA

				Unico Air HP EFA
Product code				02595
EAN code				8021183025958
Nominal cooling capacity	Pnominale	(1)	kW	1,8
Output power in cooling mode (min/rated/max)		(1)	kW	- / 1,8 / -
Cooling power with Silent Mode function			kW	-
Absorbed power in cooling mode (min/rated/max)		(1)	kW	- / 0,7 / -
Absorption in cooling mode (min/nom/max)		(1)	A	- / 3,1 / -
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	0,7
Energy efficiency class in cooling		(1)		A
Indoor air flow rate in cooling mode (min/average/max)			m³/h	150/180/215
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	- / - / 380
Dehumidification capacity			l/h	0,6
EER	EERd	(1)		2,6
Nominal heating capacity	Pnominale	(1)	kW	1,7
Output power in heating mode (min/rated/max)		(1)	kW	- / 1,7 / -
Heating power with Silent Mode function			kW	-
Absorbed power in heating mode (min/rated/max)		(1)	kW	- / 0,5 / -
Absorption in heating mode (min/nom/max)		(1)	A	- / 2,5 / -
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,5
Energy efficiency class in heating mode		(1)		A
Indoor air flow rate in heating mode (min/average/max)			m³/h	150/180/215
Outdoor air flow rate in heating mode (min/average/max)			m³/h	- / - / 380
COP	COPd	(1)		3,1
Electrical heating resistance (min/med/max)			kW	-
Maximum power consumption with electric resistance heating			kW	-
Maximum absorption with electric resistance heating			A	-
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-
Internal sound pressure (min/max)		(2)	dB(A)	27-38
Internal sound pressure in Silent Mode			dB(A)	-
Energy consumption in "thermostat off" mode	PTO		W	14,0
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5
Supply voltage			V-F-Hz	230-1-50
Supply voltage (min/max)			V	198 / 264
Power cable (N° pole x section mmq)				3 x 1,5
Internal ventilation speed				3
External ventilation speed				1
Diameter wall holes		(3)	mm	162
Maximum wall hole depth			m	1
Degree of protection of casing				IP 20
Refrigerant gas		(4)	Type	R32
Refrigerant gas charge			kg	0,32
Global warming potential	GWP			675
Maximum operating pressure			MPa	4,20
Maximun remote control range (distance/angle)			m / °	8 / ±80°
Dimensions (WxHxD) (without packaging)			mm	978 x 491 x 164
Dimensions (WxHxD) (with packaging)			mm	1060 x 595 x 250
Weight (without packaging)			kg	37
Weight (with packaging)			kg	41

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C
	Operating temperatures in heating mode (min/max)	DB -15°C / DB 24°C
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 35°C
	Operating temperatures in heating mode (min/max)	- / DB 27° C

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(2): Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.
(3) Machine supplied with grilles for 162 mm wall holes.
(4) Hermetically sealed equipment containing fluorinated gas with GWP equivalent 675.

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO EASY

[S2]

Size	**20**
Energy class	**A**
Technology	**on/off**
Refrigerant	**R32**

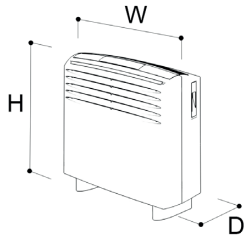
Versatile installation

Its particular geometry (less than 70 cm in width) makes it perfect to exploit space under windows, and the presence of support feet (supplied as standard) allow easy installation even against non-load-bearing walls (it must be secured to the wall only for anti-tipping purposes).

Excellent air distribution in the room

Unlike other models in the range, the air intake occurs through the front grille, while the treated air (cooled or heated) exits via the upper grille, promoting optimal comfort distribution in the room and avoiding direct airflow towards the occupants of the room.

DIMENSIONS AND WEIGHT



		Unico Easy
W	mm	693
H	mm	665
D	mm	276
WEIGHT	kg	**34,4**

- **Cooling**
- **Heating**
- **Dehumidification**
- **Ventilation**
- **Auto Mode**
- **Sleep Mode**
- **Timer**

TECHNICAL INFO

- Condensate drain mandatory if used for heating. See the installation manual for details.
- Electrostatic filter with anti-dust function.

COMPATIBLE ACCESSORIES

B0564	Grille kit diameter 160 mm
B0753	Rain cover kit for 200 mm grilles

TECHNICAL DATA

				Unico Easy S2 HP
Product code				02527
EAN code				8021183025279
Nominal cooling capacity	Pnominale	(1)	kW	2,0
Output power in cooling mode (min/rated/max)		(1)	kW	- / 2,0 / -
Cooling power with Silent Mode function			kW	-
Absorbed power in cooling mode (min/rated/max)		(1)	kW	- / 0,8 / 1,05
Absorption in cooling mode (min/nom/max)		(1)	A	-/ 3,5 / 5,6
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	0,8
Energy efficiency class in cooling		(1)		A
Indoor air flow rate in cooling mode (min/average/max)			m³/h	335 / 370 / 405
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	- / - / 505
Dehumidification capacity			l/h	2,2
EER	EERd	(1)		2,6
Nominal heating capacity	Pnominale	(1)	kW	2,0
Output power in heating mode (min/rated/max)		(1)	kW	- / 2,0 / -
Heating power with Silent Mode function			kW	-
Absorbed power in heating mode (min/rated/max)		(1)	kW	- / 0,7 / 1,05
Absorption in heating mode (min/nom/max)		(1)	A	-/ 3,0 / 5,6
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,7
Energy efficiency class in heating mode		(1)		B
Indoor air flow rate in heating mode (min/average/max)			m³/h	335 / 370 / 405
Outdoor air flow rate in heating mode (min/average/max)			m³/h	- / - / 505
COP	COPd	(1)		2,9
Electrical heating resistance (min/med/max)			kW	-
Maximum power consumption with electric resistance heating			kW	-
Maximum absorption with electric resistance heating			A	-
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-
Sound pressure (EN 12102:2013)			dB(A)	60
Internal sound pressure in Silent Mode			dB(A)	-
Energy consumption in "thermostat off" mode	PTO		W	1,0
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5
Supply voltage			V-F-Hz	220/240-1-50
Supply voltage (min/max)			V	198 / 264
Power cable (N° pole x section mmq)				3 x 1,5
Internal ventilation speed				3
External ventilation speed				2
Diameter wall holes		(3)	mm	162
Maximum wall hole depth			m	1
Degree of protection of casing				IPX0
Refrigerant gas		(4)	Type	R32
Refrigerant gas charge			kg	0,285
Global warming potential	GWP			675
Maximum operating pressure			MPa	4,2
Maximun remote control range (distance/angle)			m / °	8 / ±80°
Dimensions (WxHxD) (without packaging)			mm	693 x 665 x 276
Dimensions (WxHxD) (with packaging)			mm	770 x 865 x 423
Weight (without packaging)			kg	34,4
Weight (with packaging)			kg	39,6

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C
	Operating temperatures in heating mode (min/max)	DB -5°C / DB 24°C
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 32°C
	Operating temperatures in heating mode (min/max)	- / DB 27° C

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(3) Machine supplied with grilles for 162 mm wall holes.
(4) Hermetically sealed equipment containing fluorinated gas with GWP equivalent 675.

AIR-TO-AIR HEAT PUMPS WITHOUT EXTERNAL UNIT

UNICO TWIN

[RFA]

Size	**30**
Energy class	**A**
Technology	**on/off**
Refrigerant	**R410A**

Twin Technology

The solution for air conditioning two rooms at the same time, without the installation of the outdoor unit. The two indoor units, connected by refrigerant circuit, can operate either independently or in parallel. In the latter case, the two units share the available power and are forced at minimum speed.

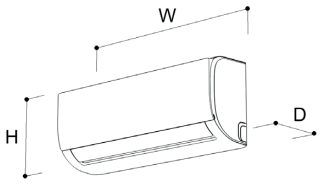
Ease of installation

The first unit (master) is installed on the perimeter wall of the first room to be air conditioned. The second unit (wall), installed in the second room to be air conditioned, connects to the first one through refrigerant taps housed in the right side of the master unit.The maximum length of the refrigerant lines is 10 meters. It is not possible to add gas in addition to the precharge.

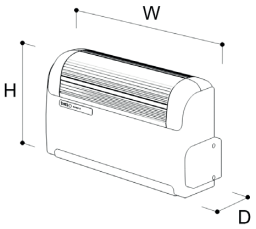
TECHNICAL INFO

- Condensate drain mandatory if used for heating. See the installation manual for details.
- Multi-filtering system consisting of electrostatic filter (with anti-dust function) and activated carbon filter (effective against odors).
- Wide flap for even air diffusion in the room.

DIMENSIONS AND WEIGHT



		Wall
W	mm	805
H	mm	285
D	mm	194
WEIGHT	kg	**7,5**



		Master
W	mm	944
H	mm	516
D	mm	229
WEIGHT	kg	**40,5**

- **Cooling**
- **Heating**
- **Dehumidification**
- **Ventilation**
- **Auto Mode**
- **Sleep Mode**
- **Timer**

COMPATIBLE ACCESSORIES

B0564	Grille kit diameter 160 mm
B0984	Kit for preparing holes with a diameter of 200 mm
B0620	Heating cable
B0753	Rain cover kit for 200 mm grilles

TECHNICAL DATA

				Unico Twin Master 30 HP RFA	Unico Twin Wall S1
Product code				02138	01996
EAN code				8021183021387	8021183019964
Nominal cooling capacity	Pnominale	(1)	kW	2,6	2,5
Output power in cooling mode (min/rated/max)		(1)	kW	- / 2,6 / -	- / 2,5 / -
Cooling power with Silent Mode function			kW	-	
Absorbed power in cooling mode (min/rated/max)		(1)	kW	-/ 0,9 / 1,2	-/ 0,9 / 1,2
Absorption in cooling mode (min/nom/max)		(1)	A	- / 4,3 / 5,4	- / 4,2 / 5,4
Energy consumption for double-duct equipment - cooling	QDD	(1)	kWh/h	0,9	-
Energy efficiency class in cooling		(1)		A	-
Indoor air flow rate in cooling mode (min/average/max)			m³/h	360 / 430 / 490	180 / 230 / 310
Outdoor air flow rate in cooling mode (min/average/max)			m³/h	340 /370 / 500	-
Dehumidification capacity			l/h	1,1	1,0
EER	EERd	(1)		2,7	-
Nominal heating capacity	Pnominale	(1)	kW	2,5	2,2
Output power in heating mode (min/rated/max)		(1)	kW	- / 2,5 / -	- / 2,2 / -
Heating power with Silent Mode function			kW	-	-
Absorbed power in heating mode (min/rated/max)		(1)	kW	- / 0,8 / 1,1	- / 0,7 / 1,1
Absorption in heating mode (min/nom/max)		(1)	A	- / 3,5 / 4,8	- / 3,2 / 4,8
Energy consumption for double-duct equipment - heating	QDD	(1)	kWh/h	0,8	-
Energy efficiency class in heating mode		(1)		A	-
Indoor air flow rate in heating mode (min/average/max)			m³/h	330 / 400 / 450	310 /360 / 470
Outdoor air flow rate in heating mode (min/average/max)			m³/h	340 /370 / 500	-
COP	COPd	(1)		3,1	-
Electrical heating resistance (min/med/max)			kW	-	-
Maximum power consumption with electric resistance heating			kW	-	-
Maximum absorption with electric resistance heating			A	-	-
Indoor air flow rate with electric resistance in heating mode (min/med/max)			m³/h	-	-
Internal sound pressure (min/max)		(2)	dB(A)	33-42	25-36
Internal sound pressure in Silent Mode			dB(A)	-	-
Energy consumption in "thermostat off" mode	PTO		W	14,0	-
Energy consumption in "standby" mode (EN 62301)	PSB		W	0,5	-
Supply voltage			V-F-Hz	230-1-50	-
Supply voltage (min/max)			V	198 / 264	-
Power cable (N° pole x section mmq)				3 x 1,5	3 x 1
Internal ventilation speed				3	3
External ventilation speed				3	-
Diameter wall holes		(3)	mm	162/202	-
Maximum wall hole depth			m	1	-
Degree of protection of casing				IP20	IPX1
Refrigerant gas		(4)	Type	R410A	-
Refrigerant gas charge			kg	0,78	-
Global warming potential	GWP			2088	-
Maximum operating pressure			MPa	-	-
Maximun remote control range (distance/angle)			m / °	8 / ± 80°	-
Dimensions (WxHxD) (without packaging)			mm	944 x 516 x 229	805 x 285 x 194
Dimensions (WxHxD) (with packaging)			mm	980 x 610 x 350	870 x 360 x 270
Weight (without packaging)			kg	40,5	7,5
Weight (with packaging)			kg	44	9,6
Liquid connection pipeline diameter			inch - mm	-	1/4 - 6,35
Connecting gas pipeline diameter			inch - mm	-	3/8 - 9,52
Maximum piping length			m	-	10
Maximum height difference			m	-	5

LIMITS OF OPERATING CONDITIONS

Outdoor environment	Operating temperatures in cooling mode (min/max)	- / DB 43°C	-
	Operating temperatures in heating mode (min/max)	DB -10°C / DB 24°C	-
Indoor environment	Operating temperatures in cooling mode (min/max)	DB 18°C / DB 35°C	-
	Operating temperatures in heating mode (min/max)	- / DB 27° C	-

(1) Test conditions: the nominal data refers to the EN14511 Standard - HEATING MODE: Temperature: outdoor environment DB 7°C / WB 6°C; indoor ambient DB 20°C / WB 15°C - COOLING MODE: Temperature: outdoor environment DB 35°C / WB 24°C; indoor environment DB 27°C / WB 19°C. The energy efficiency classes refer to a range between A+++ and D.
(2) Declaration of test data in a semi-anechoic chamber at a distance of 2m, minimum pressure in ventilation only.
(3) Machine supplied with grilles for 202 mm wall holes. If necessary, to replace an old Unico, the machine can also be installed with holes of 162 mm in diameter.
(4) Equipment not hermetically sealed containing fluorinated gases with an equivalent GWP of 2088.

Accessories

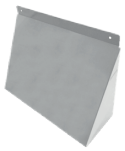
Controls

B0999	**Wireless control for radiators** When installed on existing radiators, it can be wirelessly connected to the heat pump air conditioner via the home wireless network. Controllable via the OS Home app, allowing for scenarios to be programmed that activate one of the two heating systems based on specific conditions. Compatible with the main valve bodies available on the market and easily replaceable with the existing manual valve or traditional thermostatic control already installed on the radiators.	
B1029	**Wireless thermostat** Wireless wall control with black and white display (wireless to Unico and equipped with OS Smart System app), complete with receiver to be installed on Unico. Battery operated. Equipped with temperature measurement.	
B1030	**IAQ wireless thermostat** Wireless colour wall control (wireless to Unico and equipped with OS Smart System app), complete with receiver to be installed on Unico. Mains powered, can be installed on 503 electrical box and on round box. Equipped with temperature, humidity and internal air quality measurement.	
B1128	**Relay wireless** To wirelessly control other generators or external electrical heating elements, based on the external temperature and the difference between the internal temperature and the set-point temperature.	
B1015	**Wireless kit** Wireless/bluetooth interface board to integrate connectivity into units when it is not present.	
B1014	**Wireless serial interface** Interface for receiving wireless commands (desired temperature, ventilation speed, air deflector operation and air change function) or via contacts (Cooling or Heating operating mode, ventilation speed). Presence sensor contact or Sleep mode. Alarm output in case of malfunction.	
B1012	**Wireless wall control** Battery-powered wall-mounted control for sending wireless commands (desired temperature, ventilation speed, air deflector operation).	

Installation kit

B0984	**Kit for preparing holes with a diameter of 200 mm** Kit for preparing holes with a diameter of 200 mm equipped with a pair of 200mm folding grids, a pair of 200mm internal flanges, a pair of universal PP sheets, templates for each compatible model (there are no support brackets, which are included in the machine packaging).	
B0564	**Grille kit diameter 160 mm** Pair of inside flanges Ø 160 mm, pair of outside folding grilles Ø 160 mm.	

Installation kit

B0620	**Heating cable** To prevent the formation of ice in the condensation trap for drainage (heating cable already standard on Unico Vertical).	
B0753	**Rain cover kit for 200 mm grilles** To be installed on the outside wall to protect the holes (for installations in extreme weather conditions). Designed for ø 200 mm grilles. This product is available by special order only. The packaging contains 2 elements (1 for each hole).	

Recess kit

B0776	**Recessed closing panel** Designed to completely blend Unico Air into the building architecture.	
B0775	**Recessed formwork** Supplied for quick installation of Unico Air, pre-drilled for product installation.	
B1032	**Wall recess kit** Metal panel with delivery and extraction grille that can be used for built-in installations of Unico Vertical-NK.	
B1033	**Wall recess kit with HRV kit** Metal panel with delivery and return air grille, that can be used for recessed installation of Unico Vertical-NK when combined with the HRV kit (B1031).	

HRV kit

B1031	**HRV kit** Crossflow enthalpic heat recovery unit for air exchange, ducted extraction and delivery through Unico Vertical-NK delivery grille. Maximum flow rate at 100 Pa equal to 103 m3/h. Can be controlled in combination with Unico Vertical-NK from the Wireless IAQ control (code B1030).	
B0998	**Kit for 160mm grille for HRV installation** Kit for holes with diameter 160 mm for HRV (code B1031) equipped with a pair of folding grilles d. 160mm, a pair of internal flanges d. 160mm, a pair of universal PP sheets.	

Wireless connectivity

To control the units via smartphone and tablet

Olimpia Splendid's Unico air-to-air heat pumps without external unit can be easily controlled, both when at home and away, via smartphone and tablet. In the different models, wireless connectivity is either integrated as standard or can be integrated via optional controls (B1029, B1030 and B1015), as indicated in the relative technical data sheet. The only exceptions are the Unico Easy and Unico Twin models, for which connectivity is not available.

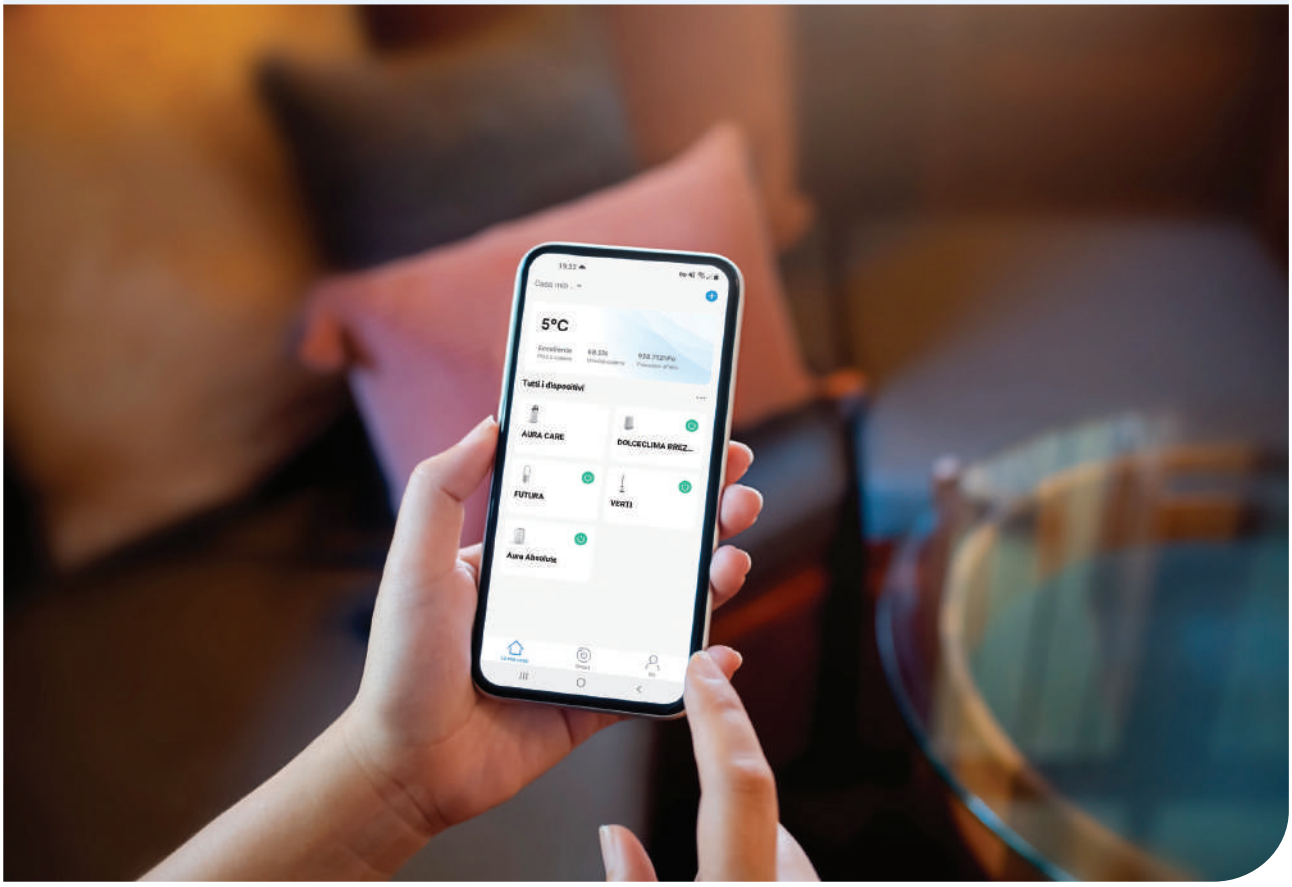
OS Home
App available for models with integrated wireless connectivity.

OS Smart System
App available for models with the B1029 or B1030 wireless thermostat installed.

Olimpia Splendid Unico
App available for models where connectivity can be integrated via the B1015 wireless kit.

All applications allow for the control of one or more units installed in the home, the display of the room temperature and the setting of the main modes (cooling, heating, dehumidification and ventilation), as well as the programming of the on and off timers.

Further information on the advanced control features of each application can be found in the relative manuals, which can be downloaded from the website Olimpiasplendid.it



Air Hybrid System

To optimise and electrify a gas heating system with Unico

40% of the energy consumption of the European Union is attributable to buildings, where 80% of demand is linked to the provision of indoor climate comfort and domestic hot water (source: TEHA and Enel Foundation dossier, 2024.). In this context, heat pump air conditioners without external unit represent a key technology for improving efficiency and electrifying domestic comfort systems, with a low architectural impact, but the complete replacement of gas heating systems is not always possible.

In cases where the absence of building insulation or particularly cold external climates limit the use of Unico for winter heating, it is possible to convert the existing system into a hybrid system, combining the gas boiler with heat pump air conditioners.

The hybridization intervention is immediately accessible and effective, thanks to Olimpia Splendid's B0999 wireless radiator control. Installed on existing terminals, it can be wirelessly connected to the heat pump air conditioner via the home wireless network. Controllable via the OS Home app, it allows scenarios to be programmed that activate either heating system based on specific conditions, so as to optimize consumption and comfort.