

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.

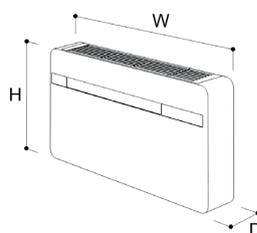
Low-charge refrigeration circuit of R290

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

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	PTD		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
Maximum 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.