

UNICO EVO [PVAN/EVAN]

Heat pump air conditioner without outdoor unit



SILENT MODE

With the Silent Mode function active (compressor on), it reaches a maximum of 30 dB(A).



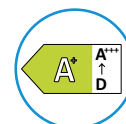
SYNC POWER SYSTEM

The new Twin Rotary compressor and the latest generation electronics are synchronised to obtain the best acoustic comfort, in all operating conditions.



HIGH EFFICIENCY

Thanks to the new compressor and to optimising all the components, Unico Evo reaches energy class A+, in cooling mode.



CONDENSATE DRAIN
Mandatory, if heating is used.
See the installation manual for details.



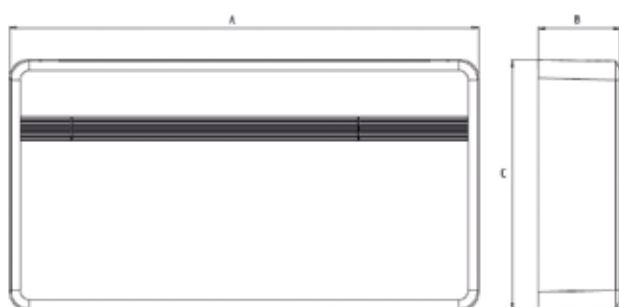
FEATURES

- Two max power models: 2.3, 2.5 and 3.1 kW
- Available in the HP version (heat pump). In the absence of the condensation drain, during installation the machine can be configured in the version "ONLY COOLING", deactivating the heating function. If necessary, it is also possible to configure the machine in "ONLY HEATING" disabling the cooling function.
- Cooling class: up to A+ (on a range between A+++ and D)
- Natural refrigerant R290 (GWP=3) for sizes 20 and 25 and R32 (GWP=675) for size 30.
- Internal layout of the machine optimised for easy maintenance.
- Large flap for homogeneous diffusion of air in the environment
- Equipped with multi-filtration system, consisting of an electrostatic filter (with anti-dust function) and activated carbon filter (effective against bad smells).
- Backlit display with touch controls on the machine.
- On /off contact for enabling or energy boost.
- There is an RS485 port designed to control the air conditioner with external BMS in Modbus RTU language.
- 100% recyclable packaging, 98% plastic free.

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 bring the sound pressure to just 30 dB(A).
- **24h timer**

DIMENSIONS AND WEIGHT



		20/25/30
A	mm	1015
B	mm	180
C	mm	540
Weight	kg	41

TECHNICAL DATA

			Unico Evo 20 HP PVAN	Unico Evo 25 HP PVAN	Unico Evo 30 HP EVAN
PRODUCT CODE			02453	02455	02525
EAN CODE			8021183024531	8021183024555	8021183025255
Cooling power (min/max)		kW	1,0 / 2,3	1,0 / 2,5	1,5 / 3,1
Heating power (min/max)		kW	1,0 / 2,2	1,0 / 2,3	1,2 / 2,7
Nominal cooling capacity (1)	Prated	kW			
Nominal heating capacity (1)	Prated	kW			
Nominal power consumption for cooling (1)	PEER	kW	0,5	0,8	1
Nominal absorption for cooling (1)		A	4,7	4,7	4,1
Nominal power consumption for heating (1)	PCOP	kW	0,4	0,5	0,8
Nominal absorption for heating (1)		A	3,4	3,4	3,4
Nominal energy efficiency index (1)	EERd		3,1	2,6	2,6
Nominal efficiency coefficient (1)	COPd		3,4	3,1	3,1
Energy efficiency class in cooling (1)			A+	A	A
Energy efficiency class in heating (1)			A	A	A
Energy consumption in "thermostat off" mode	PTO	W	14	14	14
Energy consumption in "standby" mode (EN 62301)	PSB	W	0,5	0,5	0,5
Energy consumption for double pipe appliances (1) cooling function	QDD	kWh/h	0,5	0,8	1
Energy consumption for double pipe appliances (1) heating function	QDD	kWh/h	0,4	0,5	0,8
Cooling power with Silent Mode function		kW	1,4	1,4	2,1
Heating power with Silent Mode function		kW	1,4	1,4	1,9
Supply voltage		V-F-Hz	230-1-50	230-1-50	230-1-50
Supply voltage (min/max)		V	198 / 264	198 / 264	198 / 264
Power consumption in cooling mode (min/max)		kW	0,3 / 1,0	0,3 / 1,1	0,4 / 1,6
Absorption in cooling mode (min/max)		A	2,5 / 7,0	2,5 / 7,2	1,9 / 7,6
Absorbed power in heating mode (min/max)		kW	0,3 / 1,0	0,3 / 1,0	0,3 / 1,1
Absorption in heating mode (min/max)		A	2,1 / 5,7	2,1 / 5,9	1,5 / 5,4
Maximum power consumption with electric resistance heating		kW	-	-	-
Maximum absorption with electric resistance heating		A	-	-	-
Dehumidification capacity		l/h	0,7	0,7	0,7
Air flow rate in cooling environment (max/med/min)		m³/h	195/270/380	195/270/380	210/270/410
Air flow rate in heating environment (max/med/min)		m³/h	195/270/380	195/270/380	210/270/410
Air flow rate with electric resistance heating environment		m³/h	-	-	-
External air flow rate in cooling (max/min)		m³/h	350/650	350/650	350/650
External air flow rate in heating (max/min)		m³/h	350/650	350/650	350/650
Internal ventilation speed			3	3	3
External ventilation speed			6	6	6
Diameter wall holes**		mm	162/202	162/202	162/202
Electric resistance heating			-	-	-
Maximum remote control range (distance/angle)		m / °	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
Dimensions (WxHxD) (with packaging)		mm	1100 x 605 x 290	1100 x 605 x 290	1100 x 605 x 290
Weight (without packaging)		kg	41	41	41
Weight (with packaging)		kg	43	43	43
Internal sound pressure (min/max) (2)		dB(A)			
Silent Mode sound pressure level		dB(A)	30	30	30
Degree of protection provided by covers			IP20	IP20	IP20
Refrigerant gas*		Type	R290	R290	R32
Refrigerant gas charge		kg	0,145	0,145	0,28
Global warming potential	GWP		3	3	675
Maximum operating pressure		MPa	3,1	3,1	4,2
Power cable (N° pole x section mmq)			3 x 1,5	3 x 1,5	3 x 1,5

LIMITS OF OPERATING CONDITIONS

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

(1) Test conditions: the data refer 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 ambient 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 gas with GWP equivalent to 3 (R290) and 675 (R32).

** Machine supplied with 202 mm wall opening grilles. If necessary, to replace an old Unico, the machine can also be installed with holes of 162 mm in diameter.

Energy efficiency classes refer to a range between A+++ and D.