

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.

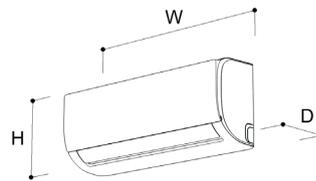
Ease of installation

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.

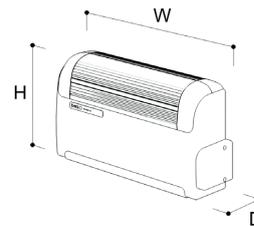
TECHNICAL INFO

- 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	❄️ 2,5	❄️ 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	PTD		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	-	-
Maximum 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.