

Low Profile



Forced air evaporator



946 a 12.600 Kcal/h 1.100 a 14.644 W

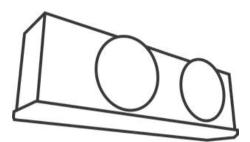
May - 2022



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Forced Air Evaporator



Up to 4m height cameras

Options

- Factory-mounted TX/EXV valves
- Defrost heaters for medium temperature
- Fins with epoxy coating
- Stainless steel casing
- Electronic motors

Aplications











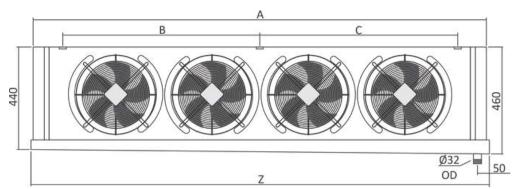
Benefits

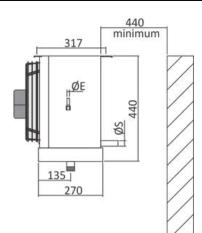
- Electric defrost system with quick response
- Standardized electrical assemblies (NBR5410)
- Fully removable and tilting drainage tray
- Plug & Play concept: Ease of installation and operation
- Greater range of capacities
- Higher thermal and energy efficiency
- Longer useful life
- Adaptable to all refrigerants (R22, R134a, R448, and R449)

Standard Version

- Copper tubes with 3/8" outer diameter
- Spacing between aluminum fins approximately 4.6 (5.5mm)
- 4 types of defrost: Air, electric, hot gas, and glycol
- Stainless steel fixings and supports
- Circuit optimized for performance and Venturi distribution system
- Connector resistant to temperature changes, vibrations, and impacts
- Ø300mm fan motor
- Electric defrost
- Easily removable side access doors
- Tilting and interchangeable drain tray
- White electrostatic paint on tray and casing
- Electric resistors removable from the rear of the unit

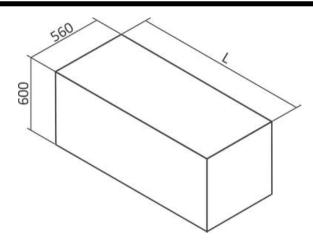
Dimensions





Model		А	В	С	Z	E	S
0012	1	678			710	1/2"	1/2"
0013	1	678			710	1/2"	1/2"
0014	1	678			710	1/2"	1/2"
0022	2	1078			1110	1/2"	1/2"
0023	2	1078			1110	1/2"	3/4"
0024	2	1078			1110	1/2"	3/4"
0033	3	1478			1510	1/2"	7/8"
0034	3	1478			1510	1/2"	7/8"
0043	4	1878	800	830	1910	1/2"	7/8"
0044	4	1878	800	830	1910	1/2"	1 1/8"

Packaging

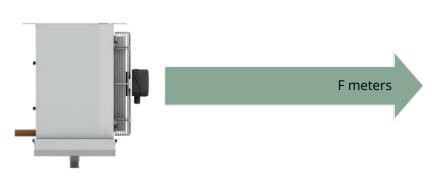


Model		L.
0012	1	850
0013	1	850
0014	1	850
0022	2	1250
0023	2	1250
0024	2	1250
0033	3	1650
0034	3	1650
0043	4	2050
0044	4	2050

The evaporators are individually packed, using recyclable materials, ensuring their integrity during transportation

Air range

Air flow rectification grid (Patent Pending)



Range of air with a final speed of 0.25 m/s. The final speed is achieved under open field conditions. The range of air cannot be considered an absolute value, as many factors influence this distance

Model		F (m)
0012	1	7,6
0013	1	7,4
0014	1	7,2
0022	2	8,6
0023	2	8,4
0024	2	8,2
0033	3	9,4
0034	3	9,2
0043	4	10,4
0044	4	10,2

Capacidades • Motoventilador AC

DTT	1Z	Kca	al/h	Wa	atts
DT 7	ĸ	TEV -27°C • Ter	np. Cam20°C	TEV -27°C • Temp. Cam20°C	
Model		Capacity	Air flow rate m³/h (50Hz)	Capacity	Airflow m³/h(50Hz)
0012	1	1616	1400	1879	1400
0013	1	2030	1320	2361	1320
0014	1	2432	1150	2828	1150
0022	2	3833	2800	4458	2800
0023	2	4760	2640	5536	2640
0024	2	5566	2400	6473	2400
0033	3	5880	3956	6838	3956
0034	3	6528	3540	7592	3540
0043	4	9282	5200	10795	5200
0044	4	10189	4800	11850	4800

Multiplication factor for capacity							
Temp. de la Cam. ºC	-30	-25	-20	15	-10		
R507	0,88	0,97	1,02	1,04	1,06		
R22	0,9	0,97	1,01	1,03	1,04		

DTO	V	Kca	al/h	Wa	atts
DT 8	ĸ	TEV -5°C • Temp. Cam. +3°C		TEV -5°C • Ter	np. Cam. +3°C
Model		Capacity	Air flow rate m³/h (50Hz)	Capacity	Air flow rate m³/h (50Hz)
0012	1	1950	1400	2268	1400
0013	1	2430	1250	2826	1250
0014	1	2906	1150	3380	1150
0022	2	4322	2800	5026	2800
0023	2	5342	2540	6213	2540
0024	2	6200	2300	7211	2300
0033	3	8390	3800	9758	3800
0034	3	9471	3500	11015	3500
0043	4	10666	5000	12405	5000
0044	4	12575	4600	14625	4600

Multiplication factor for capacity							
Temp. de la Cam. ºC	-5	0	3	5	10		
R507	0,94	0,98	0,99	1,02	1,06		
R22	0,91	0,95	0,98	0,97	1,03		
R134a	0,85	0,9	0,92	0,95	0,96		

DT 1	εv	Kc	al/h	Wa	atts
DTI	л	TEV +5°C • Ter	np. Cam. +20°C	TEV +5°C • Ten	np. Cam. +20°C
Model		Capacity	Air flow rate m³/h (50Hz)	Capacity	Air flow rate m³/h (50Hz)
0012	1	4385	1280	5100	1280
0013	1	6403	1150	7447	1150
0014	1	7011	1080	8154	1080
0022	2	10333	2600	12017	2600
0023	2	12108	2300	14082	2300
0024	2	14892	2200	17319	2200
0033	3	19606	3540	22802	3540
0034	3	22517	3150	26187	3150
0043	4	25215	4500	29325	4500
0044	4	30144	4200	35057	4200

Electrical characteristics

			notor	Defrost re	esistence
Model		230V 1~ W	230V 1~ A	w	230V 1~ A
0012	1	120	0,80	2x500	4,5
0013	1	120	0,80	2x500	4,5
0014	1	120	0,80	2x500	4,5
0022	2	240	1,60	2x1000	9,1
0023	2	240	1,60	2x1000	9,1
0024	2	240	1,60	2x1000	9,1
0033	3	360	2,40	2x1500	13,7
0034	3	360	2,40	2x1500	13,7
0043	4	480	3,20	2x2000	18,2
0044	4	480	3,20	2x2000	18,2

Connector resistant to temperature changes, vibrations, and shocks. Spring connection technology reduces electrical installation time without the need for special tools

Subtitles

C = Approximate refrigerant charge

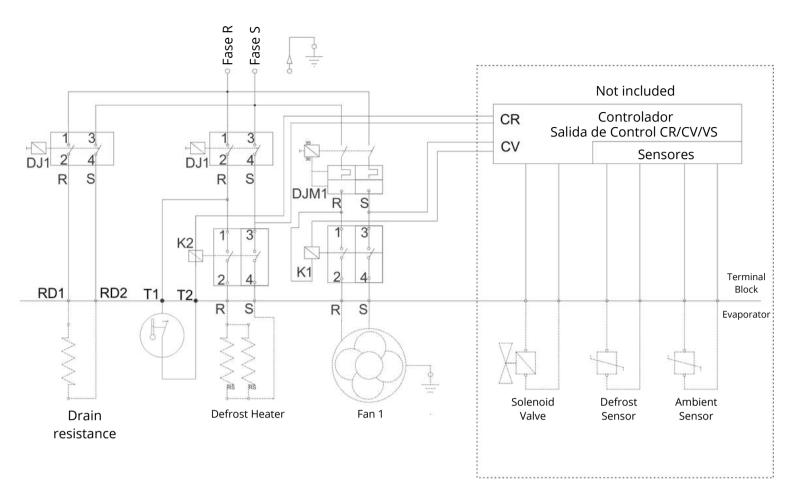
N = Noise level obtained in open field conditions at a distance of 1 meter. (The actual noise level depends on factors such as chamber construction, type of load, and number of devices installed) m^3/h = Caudal de aire medido a densidad de 1,2 M³/Kg d = Unbalanced consumption

Noise level obtained under open field conditions at a distance of 1 meter. (The actual noise level depends on factors such as: construction of the chamber, type of load, and number of installed devices). Air reach of 12m, with a final velocity of 0.25 m/s. The final velocity of 0.25 m/s is obtained under open field conditions. The air reach cannot be considered an absolute value because many factors influence this distance. We recommend using this model for cold rooms with a useful height of up to 4 meters

How to buy

Model	Description	Available Options
SMART	l	ow Profile 300mm Forced Air Evaporator
	Finned spacing	4,6 app (5,5 mm)
E	Defrosting	A • Air E • Electric G • Hot gas H • Gas and electric in the tray O • Glycol
0012	Model	0012 a 0044
С	Tube	A • Aluminum B • Copper for CO2 C • Copper
A	Connections and tray	 A • Direct Expansion B • 2 Collectors C • 2 Collectors with Flanges D • 2 Collectors with Nozzles
00	Accessories	00 • Without accessories 01 • Expansion valve 03 • Drain resistance 13 • Expansion valve and drain resistance
A	Finishing	 D • Aluminum cabinet protected E • Aluminum cabinet protected and N1 protection on the fins F • Aluminum cabinet protected and N2 protection on the fins M • Stainless steel cabinet N • Stainless steel cabinet and L1 protection on the fins O • Stainless steel cabinet and L2 protection on the fins
MAC	Motor	MAC • AC fan motor
Н	Voltage and frequency	G • 230V/1F/50Hz N • 230V/1F/60Hz
1	Packaging	3 • EPS + Filme PVC 4 • Caja de cartón

Electrical Schematics



Caption:

K1 = Fan Contactor K2 = Heater Contactor DJ = Circuit Breaker DJM = Motor Circuit Breaker

Attention

- To size the components of the installation, refer to the data table in the catalog.
- To change the factory power supply, speak with Mipal's engineering department.
- The safety thermostat prevents high temperatures. Install in the electrical panel adjusted to MAX 40°C.
- Always use grounding wire.

