

Low-speed forced air evaporator

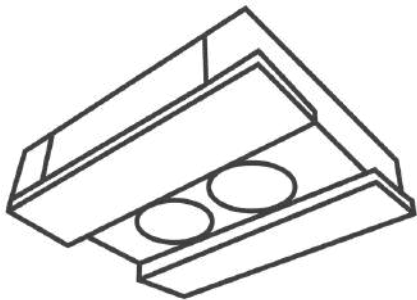


4.630 a 37.800 Kcal/h
5.384 a 43.953 W



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5.384 a 43.953 W

Low-speed forced air evaporator



Up to 6m height cameras

Versão Standard

- Copper tubes with 5/8" outer diameter
- Spacing between aluminum fins of 4mm
- Double tray with intermediate insulation
- Smooth flat aluminum cabinet
- Air defrost
- 300mm electronic fan motor

Applications



Dairy
products



Meat



Healthcare



Agribusiness



Beverages



Wholesale
and Retail




Food




Industrial

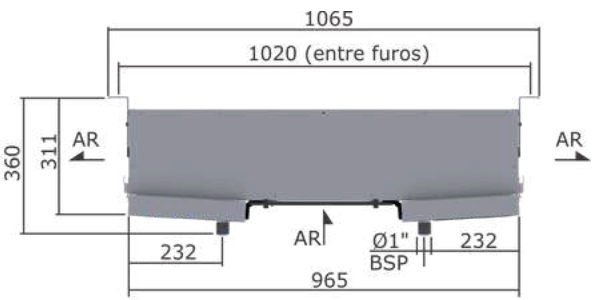
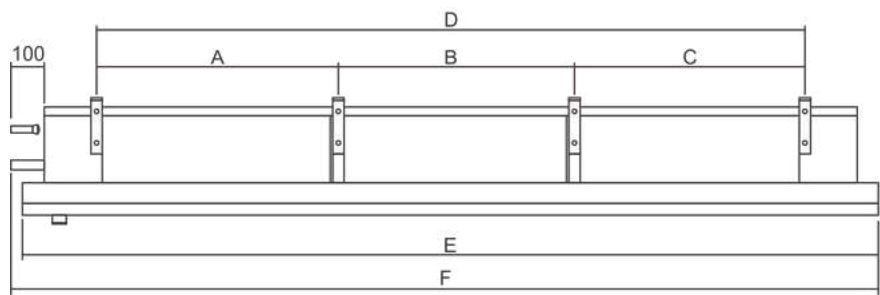
Benefits

- Higher thermal and energy efficiency
- Longer lifespan of the fan motor assembly
- Adaptable to all refrigerant fluids
- Standard electronic motors
- Greater range of capacities
- Plug & Play concept: Ease of installation and operation
- Standardized electrical assemblies (NBR5410)
- Air reheating system for humidity control
- Incorporated thermal protector
-  2 levels of protection against harsh environments

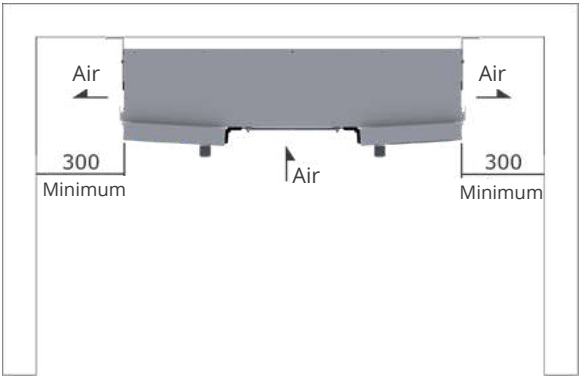
Optional

- Copper tubes and aluminum fins (Cu/Al) for CO2
- Copper tubes and aluminum fins (Cu/Al) with circuits for chilled water and glycol solutions
- Electric defrost
- Hot gas
- Stainless steel cabinet
- Cabinet and tray with white epoxy electrostatic paint
-  Exclusive protection against aggressive environments

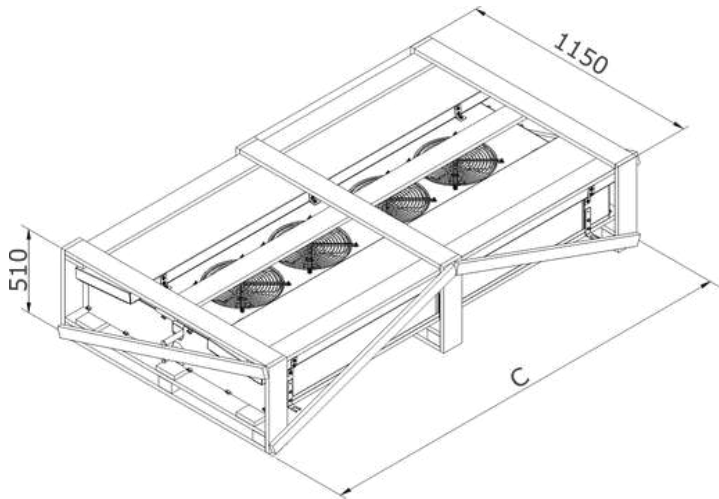
Dimensional



Model				Dimensional (mm)						R22		R717 Ammonia		Propylene Glycol 15%		Peso (Kg)
				A	B	C	D	E	F	Ø E	Ø S	Ø E	Ø S	Ø E	Ø S	
0005	0007	0004	2	-	-	-	-	1126	1276	1/2"	5/8"	1/2"	1"	3/4"	3/4"	40
0010	0015	0008	4	778	-	-	1578	1926	2076	1/2"	7/8"	1/2"	1"	1"	1"	72
0016	0023	0018	6	778	1600	-	2378	2726	2876	1/2"	1 1/8"	3/4"	1 1/2"	1 1/4"	1 1/4"	104
0021	0031	0022	8	1578	1600	-	3178	3526	3676	1/2"	1 1/8"	3/4"	1 1/2"	1 1/2"	1 1/2"	136
0025	0037	0026	10	1578	800	1600	3978	4326	4476	5/8"	2 1/8"	1"	2"	1 1/2"	1 1/2"	168
0032	0046	0034	12	1578	1600	1600	4778	5126	5276	5/8"	2 1/8"	1"	2"	2"	2"	200





Packaging




Model				(mm)	Weight(Kg)
				L	Gross
0005	0007	0004	2	1310	52
0010	0015	0008	4	2240	84
0016	0023	0018	6	2940	126
0021	0031	0022	8	3740	168
0025	0037	0026	10	4540	210
0032	0046	0034	12	5340	252

Capacities • AC and EC Fan

		R22									
		Kcal/h					Watts				
		Room temperature									
		14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C	14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C
Model											
0005	2	4630	5020	5500	5970	6300	5384	5837	6395	6942	7326
0010	4	9260	10040	11000	11940	12600	10767	11674	12791	13884	14651
0016	6	13890	15060	16500	17910	18900	16151	17512	19186	20826	21977
0021	8	18520	20080	22000	23880	25200	21535	23349	25581	27767	29302
0025	10	23150	25100	27500	29850	31500	26919	29186	31977	34709	36628
0032	12	27780	30120	33000	35820	37800	32302	35023	38372	41651	43953

		R717 Ammonia									
		Kcal/h					Watts				
		Room temperature									
		14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C	14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	50 °F 10 °C
Model											
0007	2	6000	6500	7000	7700	8400	6977	7558	8140	8953	9767
0015	4	12000	13000	14000	15400	16800	13953	15116	16279	17907	19535
0023	6	18000	19500	21000	23100	25200	20930	22674	24419	26860	29302
0031	8	24000	26000	28000	30800	33600	27907	30233	32558	35814	39070
0037	10	30000	32500	35000	38500	42000	34884	37791	40698	44767	48837
0046	12	36000	39000	42000	46200	50400	41860	45349	48837	53721	58605

		Propylene glycol 15%					
		Kcal/h			Watts		
		Room temperature					
		41 °F 5 °C	50 °F 10 °C	59 °F 15 °C	41 °F 5 °C	50 °F 10 °C	59 °F 15 °C
Model		E/S -5/-1	E/S 0/+4	E/S +5/+9	E/S -5/-1	E/S 0/+4	E/S +5/+9
0004	2	4520	5170	5790	5256	6012	6733
0008	4	9040	10340	11580	10512	12023	13465
0018	6	13560	15510	17370	15767	18035	20198
0022	8	18080	20680	23160	21023	24047	26930
0026	10	22600	25850	28950	26279	30058	33663
0034	12	27120	31020	34740	31535	36070	40395

Capacities (DT=10,8°F / DT1=6°K)

EC = Same capacities for 50Hz and 60Hz.


AC = Capacities for 60Hz, for 50Hz multiply the values by 0.92.

Dt1: Difference between the air inlet temperature at the evaporator and the refrigerant evaporation temperature.


°K=Kelvin degrees °F=Fahrenheit degrees

The air inlet temperature at the evaporator is considered approximately the chamber temperature.

Electrical Characteristics • EC Motor Fan

				S	R	V	C	N	AC Motor			Reheating	
Model				m²	m²/m²	dm³	Refr. Kg	Db(A) 1m	Flow rate m³/h	1 ~ 220V		3~ 220V	
										W	A	W	A
0005	0007	0004	2	32	25	2,85	0,57	50	2 x 1250	64	0,56	4800	14,9d
0010	0015	0008	4	64	25	5,38	1,08	53	4 x 1250	128	1,12	9600	29,8d
0016	0023	0018	6	96	25	7,92	1,58	55	6 x 1250	192	1,68	14400	44,7d
0021	0031	0022	8	128	25	10,50	2,10	56	8 x 1250	256	2,24	19200	59,7d
0025	0037	0026	10	160	25	12,98	2,60	57	10 x 1250	320	2,80	24000	74,6d
0032	0046	0034	12	192	25	15,52	3,10	58	12 x 1250	384	3,36	28800	89,5d

Electrical characteristics • AC motor fan

				S	R	V	C	N	AC Motor		Reheating		
Model				m²	m²/m²	dm³	Refr. Kg	Db(A) 1m	Flow rate m³/h	1 ~ 220V		3~ 220V	
										W	A	W	A
0005	0007	0004	2	32	25	2,85	0,57	50	2 x 1250	240	0,56	4800	14,9d
0010	0015	0008	4	64	25	5,38	1,08	53	4 x 1250	480	1,12	9600	29,8d
0016	0023	0018	6	96	25	7,92	1,58	55	6 x 1250	720	1,68	14400	44,7d
0021	0031	0022	8	128	25	10,50	2,10	56	8 x 1250	960	2,24	19200	59,7d
0025	0037	0026	10	160	25	12,98	2,60	57	10 x 1250	1200	2,80	24000	74,6d
0032	0046	0034	12	192	25	15,52	3,10	58	12 x 1250	1440	3,36	28800	89,5d

Subtitles

- V = Internal volume
- C = Approximate refrigerant charge
- m³/h = Air flow measured at a density of 1.2 m³/kg
- d = Unbalanced consumption

Connectors resistant to temperature variations, vibration, and shock. Spring-loaded connection technology reduces the time for electrical installations, without the need for special tools. Standardized electrical components

Arrow of air

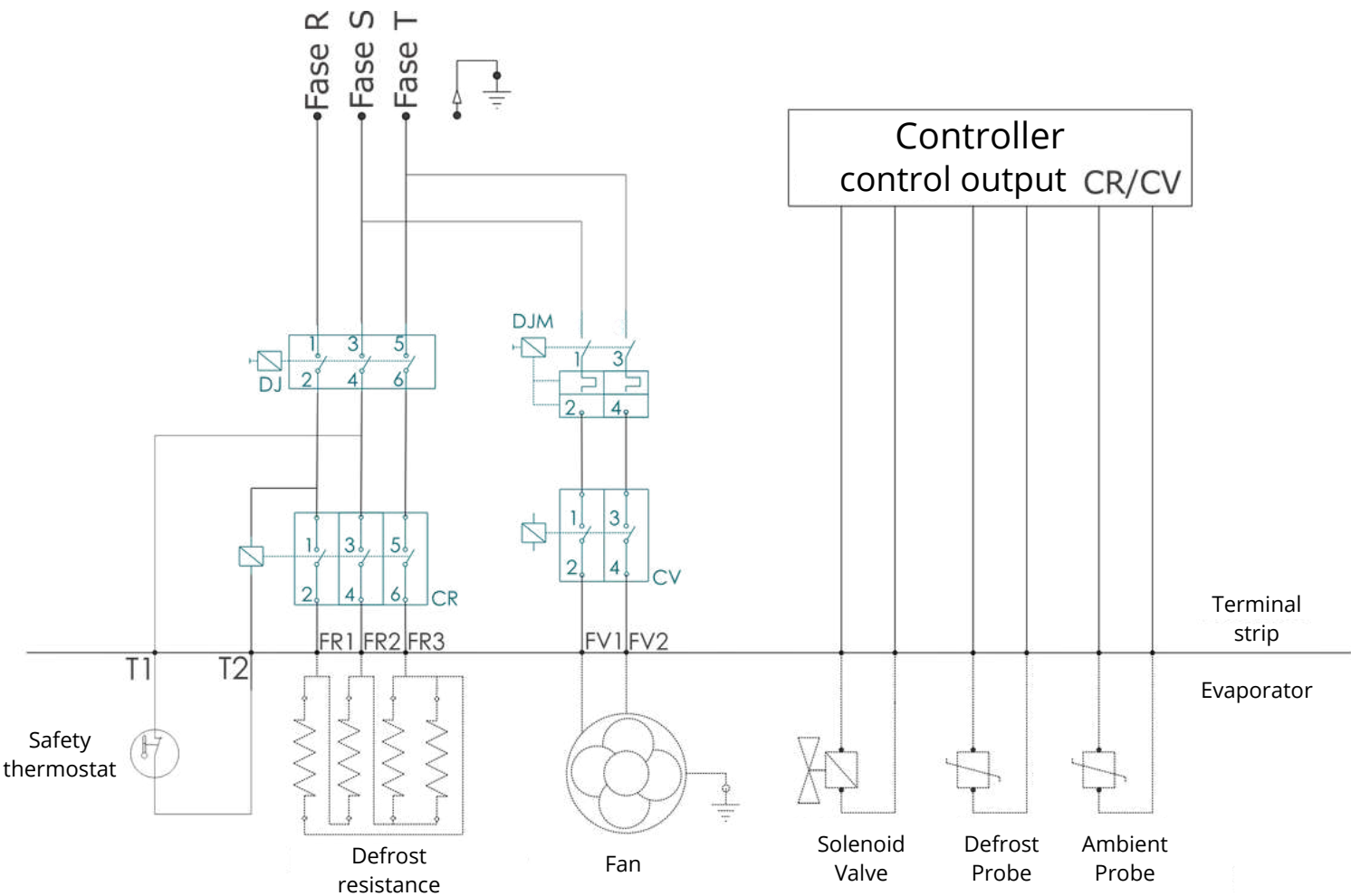


Range in the air with a final velocity of 0.25 m/s. The final velocity is achieved under open field conditions. The air range cannot be considered an absolute value due to many factors that influence this distance

How to buy

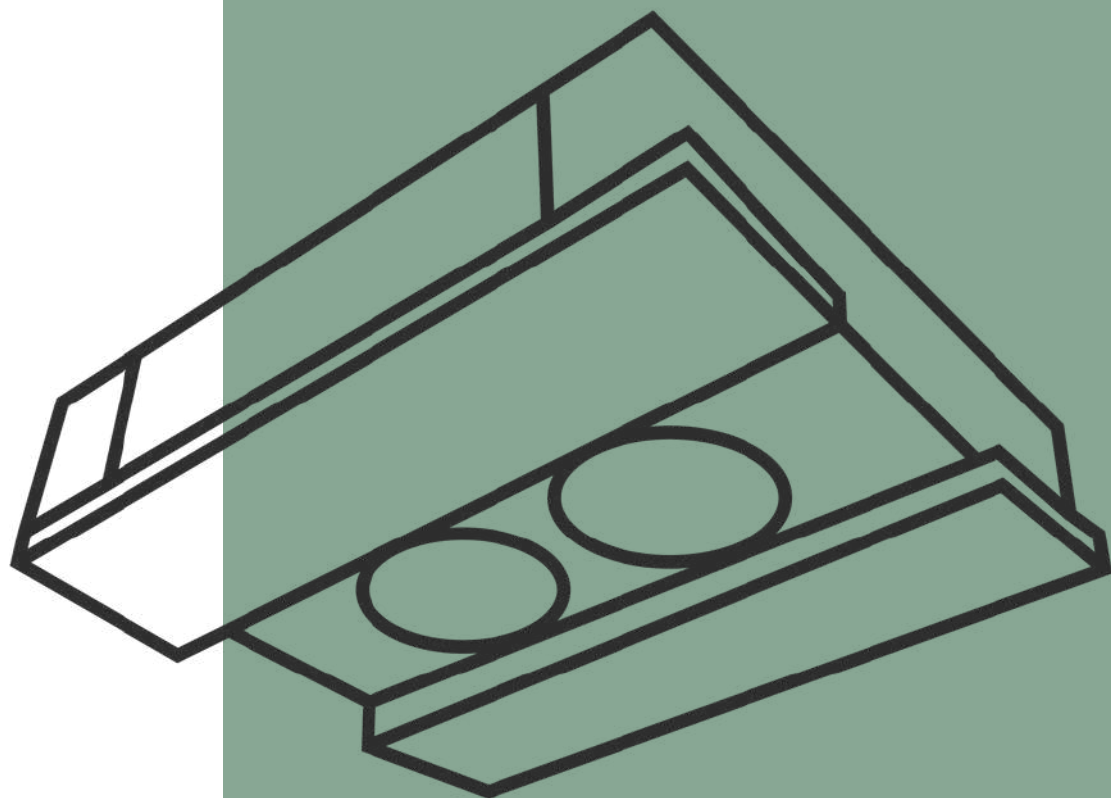
Model	Description	Available Options
HD5	Medium-High Profile Forced Air Evaporator	
A	Spacing between fins	A • 4mm
A	Defrosting	A • Air E • Electric in the core and tray
0005	Model	0005 a 0032
C	Tube	A • Aluminum B • Copper for CO2 C • Copper
A	Connections and tray	A • Direct Expansion B • 2 Manifolds C • 2 Manifolds with Flanges D • 2 Manifolds with Nipples E • 2 Threaded Manifolds (Al)
00	Accessories	00 • No accessories 10 • 1 + 2 + 3 01 • Expansion Valve 11 • 1 + 2 02 • Solenoid Valve 12 • 2 + 3 03 • Drain Heater 13 • 1 + 3
A	Finish	A • Aluminum Cabinet B • Aluminum Cabinet with N1 protection on the fins C • Aluminum Cabinet with N2 protection on the fins D • Protected Aluminum Cabinet E • Protected Al. Cabinet with N1 protection on the fins F • Protected Al. Cabinet with N2 protection on the fins M • Stainless Steel Cabinet N • Stainless Steel Cabinet with N1 protection on the fins O • Stainless Steel Cabinet with N2 protection on the fins
MEC	Motor	MAC • AC Motor Fan MEC • EC Motor Fan
G	Tension and Frequency	G • Motor = 230V/1F/50Hz N • Motor = 230V/1F/60Hz
1	Packaging	1 • Box 2 • Crate

Defrost 3~ 220V 50/60Hz • Fan 2~ 220V 50/60Hz



- Attention**
- When sizing installation components, refer to the catalog data table.
 - To change factory power supply, please contact Mipal engineering.
 - The safety thermostat must be connected in series with the contactor coil.
 - Always use the ground wire.

- CR • Resistance Contactor
- CV • Fan Contactor
- CJ • Circuit Breaker
- DJM • Motor Circuit Breaker



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+55 11 4409-0515



11 97617-5467

Av. Engenheiro Afonso Botti, 240
Pinhal • Cabreúva • 13315-000

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