



## Ceiling-mounted forced air evaporator

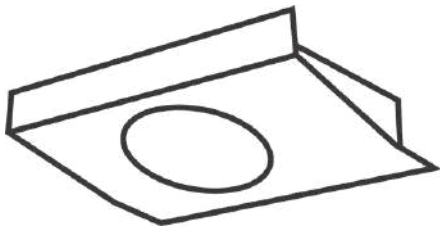


245 a 3.581 Kcal/h  
297 a 3.870 W



245 a 3.581 Kcal/h  
297 a 3.870 W

## Ceiling-mounted forced air evaporator



### Benefits

- Higher thermal and energy efficiency
- Extended lifespan of the fan motor assembly
- Adaptable to all refrigerant fluids
- Greater range of capacities
- Plug & Play concept: Ease of installation and operation
- More compact: better use of space
- Standard electronic motors
- Electric defrost system with rapid response
- Standardized electrical assemblies (NBR5410)
- 2 levels of protection against harsh environments

### Standard Version

- Copper tubes with an outer diameter of 3/8"
- Spacing between aluminum fins of 5.5mm
- Cabinet in epoxy electrostatic paint, white in color
- Air defrost
- Electronic fan motor of 254mm

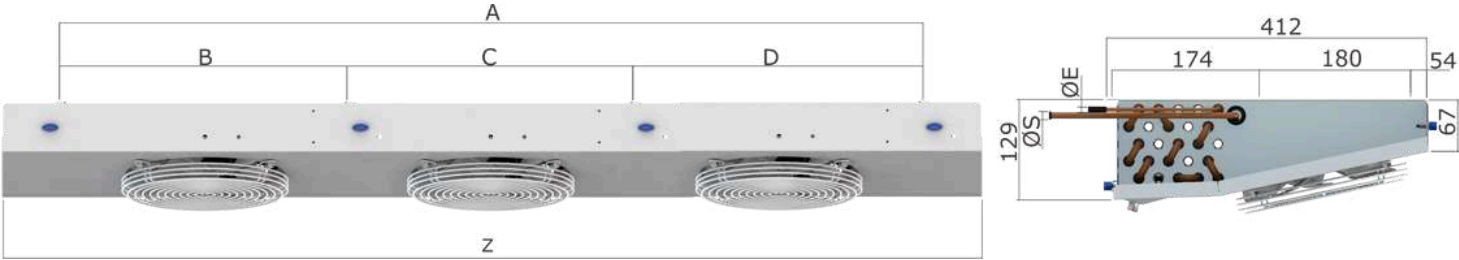
### Applications




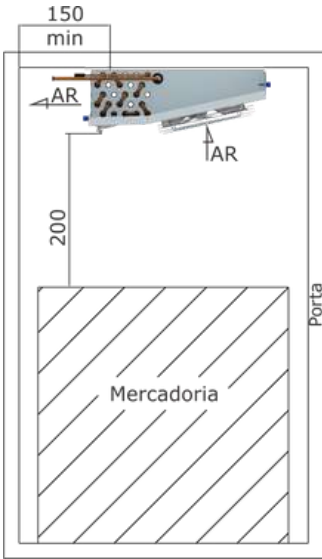
### Opcionais

- Copper tubes and aluminum fins (Cu/Al) for CO2
- Aluminum tubes and fins (Al/Al) with circuits for R717 (NH3) or glycol solutions
- Copper tubes and aluminum fins (Cu/Al) with circuits for chilled water and glycol solutions
- Cabinet and tray with electrostatic epoxy paint in white color
- Hot gas in the evaporator and resistance in the tray
- Electric defrost
- Hot gas in the evaporator and in the tray
- Stainless steel cabinet
- Exclusive protection against aggressive environments

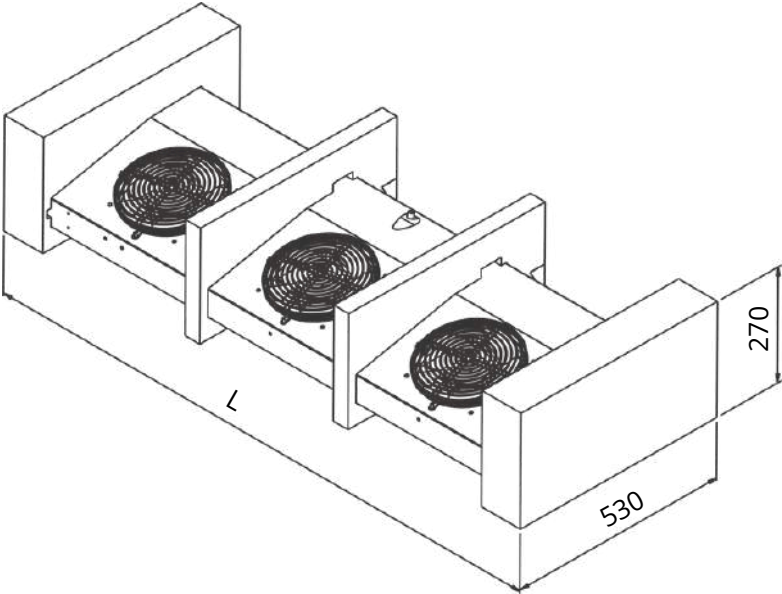
Dimensional



Model 			Dimensional (mm)							Weight (Kg)
			A	B	C	D	Z	Ø E	Ø S	Net
0042	0046	1	385	-	-	-	543	3/16"	5/16"	5,6
0084	0092	2	785	-	-	-	943	3/16"	5/16"	9,6
0126	0138	3	1185	-	-	-	1343	1/2"	5/8"	14,0
0168	0184	4	1585	800	-	785	1743	1/2"	3/4"	18,6
0210	0230	5	1985	800	400	785	2143	1/2"	3/4"	23,4
0252	0276	6	2385	1200	-	1185	2543	1/2"	3/4"	26,4
0294	0322	7	2785	800	1200	785	2943	1/2"	7/8"	32,0
0336	0368	8	3185	1200	800	1185	3343	1/2"	7/8"	38,4



Packaging



Model		(mm)	Weight (Kg)
		L	Gross
0042	1	593	7,4
0084	2	993	12,2
0126	3	1393	17,0
0168	4	1793	22,4
0210	5	2193	26,6
0252	6	2593	29,2
0294	7	2993	36,0
0336	8	3393	45,2

Model		(mm)	Weight (Kg)
		L	Gross
0046	1	593	7,8
0092	2	993	12,6
0138	3	1393	18,2
0184	4	1793	23,0
0230	5	2193	28,2
0276	6	2593	32,0
0322	7	2993	38,0
0368	8	3393	48,2



# Capabilities • EC/AC Fan Motors


Model	Kcal/h										Watts								
	Evaporation temperatures																		
	-31 °F -35 °F	-22 °F -30 °C	-13 °F -25 °C	-4 °F -20 °C	5 °F -15 °C	14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	-31 °F -35 °F	-22 °F -30 °C	-13 °F -25 °C	-4 °F -20 °C	5 °F -15 °C	14 °F -10 °C	23 °F -5 °C	32 °F 0 °C	41 °F 5 °C	
17 Tubes																			
0042	245	282	310	330	348	360	370	379	385	285	328	360	384	405	419	430	441	448	
0084	490	564	620	660	696	720	740	758	770	570	656	721	767	809	837	860	881	895	
0126	735	846	930	990	1044	1080	1110	1137	1155	855	984	1081	1151	1214	1256	1291	1322	1343	
0168	980	1128	1240	1320	1392	1440	1480	1516	1540	1140	1312	1442	1535	1619	1674	1721	1763	1791	
0210	1225	1410	1550	1650	1740	1800	1850	1895	1925	1424	1640	1802	1919	2023	2093	2151	2203	2238	
0252	1470	1692	1860	1980	2088	2160	2220	2274	2310	1709	1967	2163	2302	2428	2512	2581	2644	2686	
0294	1715	1974	2170	2310	2436	2520	2590	2653	2695	1994	2295	2523	2686	2833	2930	3012	3085	3134	
0336	1960	2256	2480	2640	2784	2880	2960	3032	3080	2279	2623	2884	3070	3237	3349	3442	3526	3581	
17 Tubes																			
0046	297	331	356	373	388	397	405	411	416	345	385	414	434	451	462	471	478	484	
0092	594	662	712	746	776	794	810	822	832	691	770	828	867	902	923	942	956	967	
0138	891	993	1068	1119	1164	1191	1215	1233	1248	1036	1155	1242	1301	1353	1385	1413	1434	1451	
0184	1188	1324	1424	1492	1552	1588	1620	1644	1664	1381	1540	1656	1735	1805	1847	1884	1912	1935	
0230	1485	1655	1780	1865	1940	1985	2025	2055	2080	1727	1924	2070	2169	2256	2308	2355	2390	2419	
0276	1782	1986	2136	2238	2328	2382	2430	2466	2496	2072	2309	2484	2602	2707	2770	2826	2867	2902	
0322	2079	2317	2492	2611	2716	2779	2835	2877	2912	2417	2694	2898	3036	3158	3231	3297	3345	3386	
0368	2376	2648	2848	2984	3104	3176	3240	3288	3328	2763	3079	3312	3470	3609	3693	3767	3823	3870	

**Capabilities (DT=10,8°F / DT1=6°K)**

(\*) Same capabilities for 50Hz and 60Hz. R-22 capacity. Dt1: Difference between the air inlet temperature at the evaporator and the refrigerant's evaporation temperature. °K=Kelvin degrees °F=Fahrenheit degrees The air inlet temperature at the evaporator is considered approximately the chamber temperature.

Refrigerant correction factor				
R22	R134A	R404A	R407C	R410A
1	1,01	0,983	0,98	0,95

## Electrical characteristics

	Modelo 17T	S m²	R m²/m²	V dm³	C Kg	N dB(a) (1m)	Modelo 25T	S m²	R m²/m²	V dm³	C Kg	N dB(a) (1m)	Flow rate m³/h	Fan motor			Resistance		
														W	1~ 110V	1~ 220V	W	1~ 110V	1~ 220V
															A	A		A	A
1	0042	2,24	10	0,2	0,1	50	0046	2,33	6,8	0,3	0,1	50	360	42	0,26	0,4	500	4,5	2,3
2	0084	4,47	10	0,4	0,1	53	0092	4,66	6,8	0,6	0,1	53	720	84	0,52	0,8	1000	9,1	4,5
3	0126	6,71	10	0,6	0,1	55	0138	6,99	6,8	0,8	0,2	55	1080	126	0,78	1,2	1500	13,6	6,8
4	0168	8,94	10	0,7	0,1	56	0184	9,32	6,8	1,1	0,2	56	1440	168	1,04	1,6	2000	18,2	9,1
5	0210	11,18	10	0,9	0,2	57	0230	11,66	6,8	1,4	0,3	57	1800	210	1,30	2,0	2500	22,7	11,4
6	0252	13,41	10	1,1	0,2	60	0276	13,99	6,8	1,7	0,3	60	2160	252	1,56	2,4	3000	27,3	13,6
7	0294	15,65	10	1,3	0,3	61	0322	16,32	6,8	1,9	0,4	61	2520	294	1,82	2,8	3500	31,8	15,9
8	0336	17,88	10	1,5	0,3	62	0368	18,65	6,8	2,2	0,4	62	2880	336	2,08	3,2	4000	36,4	18,2

**Subtitles**

V = Internal Volume

C = Approximate Refrigerant Charge

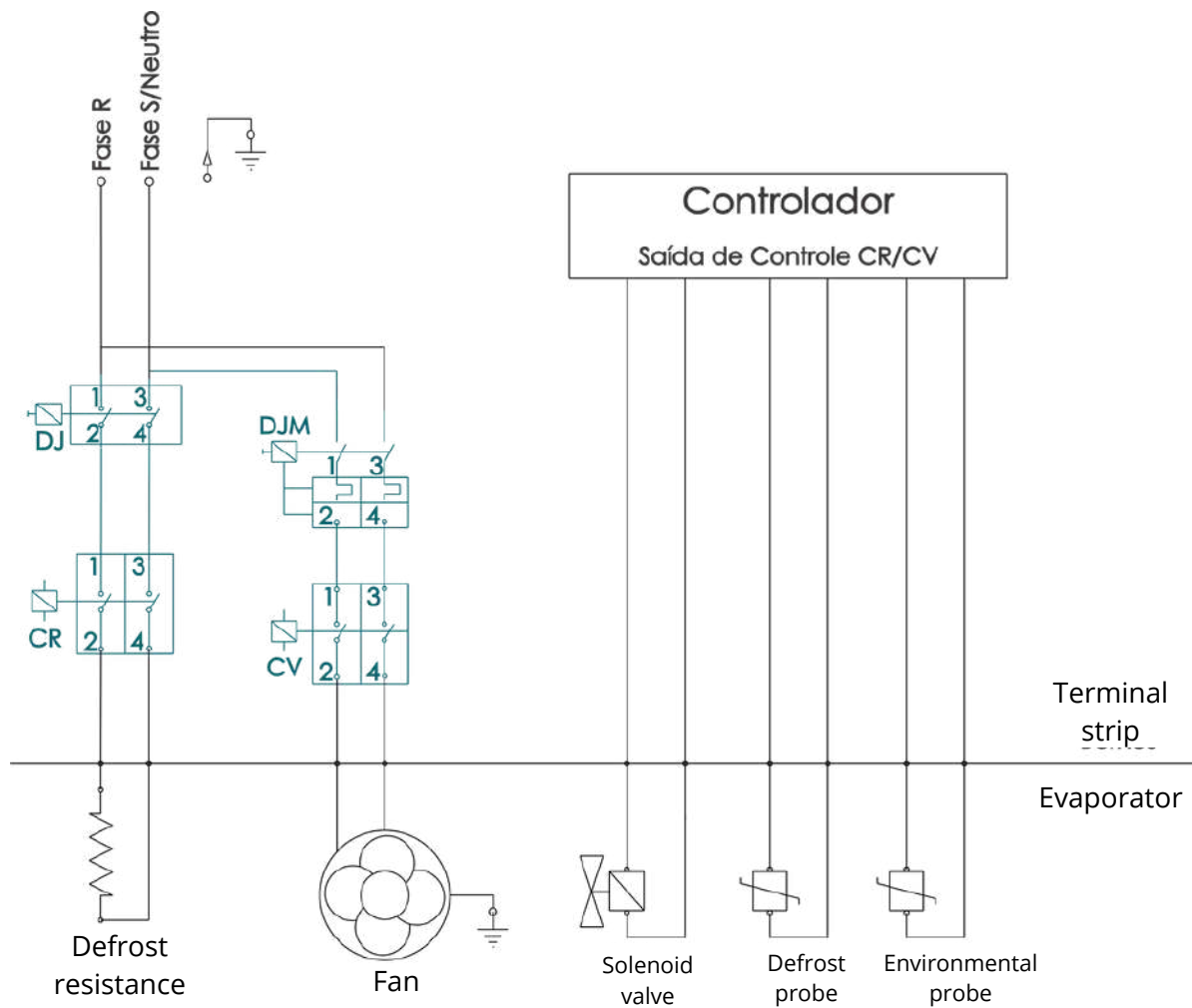
m³/h = Airflow measured at a density of 1.2 m³/kg

d = Unbalanced Consumption

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

Model	Description	Available Options
FTC	Evaporator of Forced Ceiling Air	
Z	Spacing between fins	Z • 5,5 / 11mm (Interleaved fins at the air inlet)
E	Defrost	A • Air E • Electric in the core and tray
0042	Model	0042 a 0368
C	Tube	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 Nipples
00	Accessories	00 • Without accessories 10 • 1 + 2 + 3 01 • Expansion valve 11 • 1 + 2 02 • Solenoid valve 12 • 2 + 3 03 • Drain heater 13 • 1 + 3
J	Finish	J • Protected steel cabinet K • Protected steel cabinet with N1 protection on the fins L • Protected steel 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
H	Voltage and Frequency	A • Motor = 127V/1F/50Hz B • Motor = 127V/1F/60Hz G • Motor = 230V/1F/50Hz N • Motor = 230V/1F/60Hz
3	Packaging	3 • EPS + PVC Film 4 • Cardboard Box (Export)

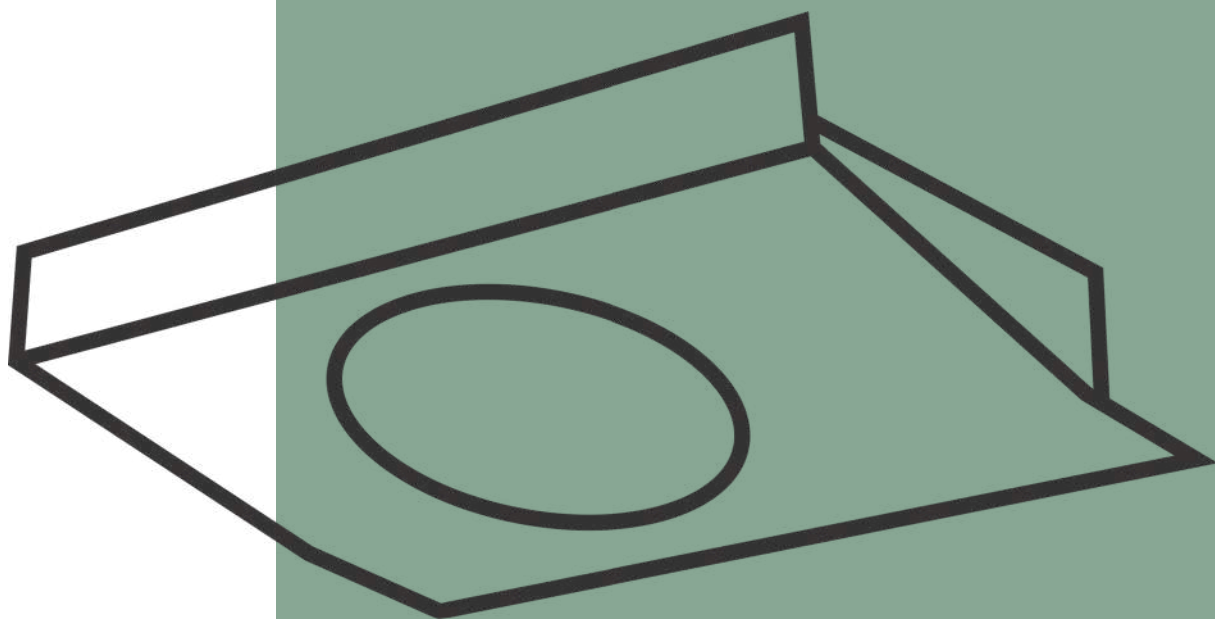
1~ 110V/220V 50/60Hz



- CR • Contactor for Resistors
- CV • Contactor for Fans
- CJ • Circuit Breaker
- DJM • Motor Circuit Breaker

**Attention**

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



mipal.com.br



mipal\_evaporadores



mipaloficial



mipal



mipal



+55 11 4409-0515



11 97617-5467

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

**MIPAL**  
Technology and Trust

Mipal reserves the right to alter the data presented in this catalog without prior notice. The photos presented in this catalog are for illustrative purposes only.