

# **Low Profilel**



# Forced Air Evaporator



946 a 12.600 Kcal/h 1.100 a 14.644 W



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## Low Profile



#### Benefits

- High thermal and energy efficiency
- Long life motor-fan's
- Greater range of capacities
- Plug & Play: Facilidad de instalación y operación
- Air rectifying grid (Patent Pending)
- Standardized electrical assemblies (NBR5410)
- Rapid response electric defrosting system
- Removable pan

## For cameras up to 4m in height

#### Estandart Version

- Tubes of copper 3/8" of diameter extension
- Space between aluminum fins of 4 fpi
- Motor-fan with 254mm
- Cabinet and pan in epoxy electrostatic white painting



Eletrical defrosting



#### **Capabilities • AC Motor Fan**

Kcal/h								Watts												
					Eva	aporatio	on temp	erature	5			Evaporation temperatures								
Code		-31 ºF -35 ºC	-22 ºF -30 ºC	-13 ºF -25 ºC	-4 ºF -20 ºC	5 ºF -15 ºC	14 ºF -10 ºC	23 ºF -5 ºC	32 ºF 0 ºC	41 ºF 5 ºC	-31 ºF -35 ºC	-22 ºF -30 ºC	-13 ≌F -25 ≌C	-4 ºF -20 ºC	5 ≌F -15 ≌C	14 ºF -10 ºC	23 ºF -5 ºC	32 ºF 0 ºC	41 ºF 5 ºC	
SDE SDA	05420	N G	1014	1046	1077	1120	1151	1173	1225	1310	1373	1179	1216	1253	1302	1339	1363	1425	1523	1597
SDE SDA	06620	N G	1205	1262	1303	1344	1385	1410	1476	1574	1656	1401	1468	1516	1563	1611	1640	1716	1830	1926
SDE SDA	09220	N G	1694	1766	1827	1898	1939	1980	2082	2215	2327	1970	2053	2124	2207	2255	2302	2421	2575	2706
SDE SDA	11320	N G	2071	2151	2221	2308	2373	2413	2533	2692	2842	2409	2501	2582	2683	2759	2806	2945	3130	3304
SDE SDA	15020	N G	2753	2853	2944	3044	3125	3195	3356	3567	3778	3201	3318	3423	3540	3633	3715	3902	4147	4393
SDE SDA	16820	N G	3101	3215	3321	3429	3528	3616	3783	4029	4245	3606	3738	3862	3988	4102	4205	4399	4685	4936
SDE SDA	19620	N G	3604	3746	3867	3988	4099	4190	4392	4685	4937	4191	4356	4496	4637	4766	4872	5107	5447	5741
SDE SDA	21720	N G	3998	4145	4283	4420	4537	4645	4871	5174	5468	4649	4820	4980	5139	5276	5401	5664	6017	6359
SDE SDA	25220	N G	4474	4634	4795	4945	5076	5196	5577	6009	6340	5202	5389	5575	5750	5902	6042	6485	6987	7372
SDE SDA	31920	N G	5667	5878	6080	6271	6432	6583	7066	7612	8032	6589	6835	7069	7292	7479	7654	8216	8851	9340
SDE SDA	37320	N G	6621	6865	7089	7323	7507	7690	8254	8892	9402	7698	7983	8243	8515	8729	8942	9598	10340	10932
SDE SDA	42220	N G	7490	7769	8038	8287	8499	8710	9349	10072	10634	8710	9034	9346	9637	9882	10128	10871	11712	12365
SDE SDA	52620	N G	9337	9698	10030	10351	10612	10873	11671	12573	13263	10857	11277	11662	12036	12339	12643	13570	14620	15422
	Canabilities (DT=10.8°F / DT1=6°K)																			

(\*) Same capabilities para 50Hz y 60Hz / R404A, R507A, R407A, R407C y R -22. Para otros gases refrigerantes, NH3 o CO2, contacta la ingeniería de Mipal.

#### **Electrical characteristics**

			C N		Ν	/lotor-far	Eletrical		
	Code		Refr. Kg	dB (A) (1m)	m³/h	230V 1Ø W	230V 1Ø A	W	230V 1Ø A
SDE SDA	05420	N G	0,90	51	1000	73	0,6	2 x 500	4,6
SDE SDA	06620	N G	0,90	53,6	2000	146	1,2	2 x 1000	9,1
SDE SDA	09220	N G	1,08	53,8	2000	146	1,2	2 x 1000	9,1
SDE SDA	11320	N G	1,79	54	2000	146	1,2	2 x 1000	9,1
SDE SDA	15020	N G	2,02	55,6	3000	219	1,8	2 x 1500	13,6
SDE SDA	16820	N G	2,69	55,8	3000	219	1,8	2 x 1500	13,6
SDE SDA	19620	N G	2,69	56	4000	292	1,8	2 x 2000	18,1
SDE SDA	21720	N G	3,58	56,8	4000	292	2,4	2 x 2000	18,1
SDE SDA	25220	N G	3,36	57	5000	365	2,4	2 x 2500	22,7
SDE SDA	31920	N G	4,30	58	6000	438	3,0	2 x 3000	27,2
SDE SDA	37320	N G	5,38	59	6000	438	3,6	2 x 3000	27,2
SDE SDA	42220	N G	6,27	60	7000	511	4,2	2 x 3500	31,8
SDE SDA	52620	N G	6,45	61	9000	657	4,8	2 x 4500	41,0

Connector resistant to temperature changes, vibrations, and impacts. The 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<sup>3</sup>/h = Airflow measured at a density of 1.2 m<sup>3</sup>/kg

d = Uneven consumption

Noise level obtained under open field conditions at a distance of 1 meter. (The actual noise level depends on factors such as: camera construction, type of load, and number of installed devices). Air reach of 12 meters, 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, as many factors influence this distance. We recommend the use of this model for cold rooms with a usable height of up to 4 meters

Air range



#### 12 meters

Airflow rectifying grid (Patent Pending) Range of the projectile with a final velocity of 0.25 m/s. The final velocity is obtained under open field conditions. The range of the projectile cannot be considered an absolute value, as many factors influence this distance

Dimensions





				Dimensions						
(	Code			А	В	с	D	ØS		
SDE SDA	05420	N G	1	663	399	1	æ	1/2"		
SDE SDA	06620	N G	2	1022	762	-	-	1/2"		
SDE SDA	09220	N G	2	1022	762	÷	-	5/8"		
SDE SDA	11320	N G	2	1022	762	-	-	7/8"		
SDE SDA	15020	N G	3	1385	1125	2	2	7/8"		
SDE SDA	16820	N G	3	1385	1125	-		7/8"		
SDE SDA	19620	N G	4	1747	762	8	726	1 1/8"		
SDE SDA	21720	N G	4	1747	762	5	726	1 1/8"		
SDE SDA	25220	N G	5	2111	762	363	726	1 1/8"		
SDE SDA	31920	N G	6	2474	762	726	726	1 1/8"		
SDE SDA	37320	N G	6	2474	762	726	726	1 1/8"		
SDE SDA	42220	N G	7	2841	762	1089	726	1 1/8"		
SDE SDA	52620	N G	9	3563	1125	1089	1089	1 1/8"		

Packaging



	Code		8	L
SDE SDA	05420	N G	1	770
SDE SDA	06620	N G	2	1133
SDE SDA	09220	N G	2	1133
SDE SDA	11320	N G	2	1133
SDE SDA	15020	N G	3	1496
SDE SDA	16820	N G	3	1496
SDE SDA	19620	N G	4	1860

The evaporators are individually packed with recyclable products, ensuring their integrity during transportation

#### **Electrical Schematics**



#### Subtitles:

K1 = Contactor with Fans K2 = Contactor for Resistances DJ = Circuit Breaker DJM = Motor Circuit Breaker

#### Attention

• To size the installation components, refer to the data chart in the catalog.

- To change the factory power supply, contact the Mipal engineering department.
- The safety thermostat prevents high temperatures. Install in the electrical panel set to MAX 40°C
- Always use the ground wire.



#### How to buy

S	D	E	054	2	0	Ν
	Aplication	Defrosting	Model	Finish	Accessories	Electric
Smart Blue AC	Baja temperatura D - 4APP (6mm)	A • A aire E • Eléctrico	054 a 622	2 • Carcasa en color blanco	0 • Motor AC estándar (expansión directa)	N • 230V/1F/60Hz G • 230V/1F/50Hz

### Defrost Sensor



















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