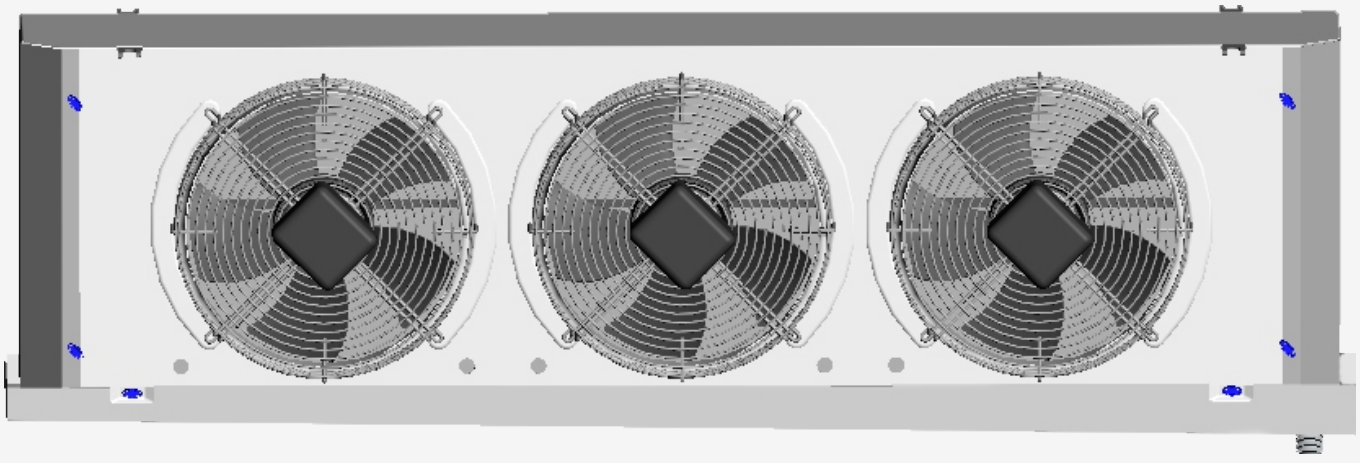
MIPAL intense
TECNOLOGIA E CONFIANÇA

Danfoss
ENGINEERING TOMORROW

INTENSE

Smart Blue 300

Low profile evaporator



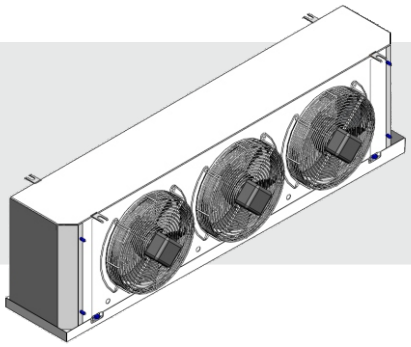
Commercial Line

maio/2019

Smart Blue 300

INTENSE

Low profile evaporator



Benefits

- Electric defrost system with quick response
- Standard Electrical Connectors(NBR5410)
- Hinged and fully removable drip tray
- Electrical concept Plug & Play
  Easy installation and operation
- Greater range of capabilities
- Greater thermal and energy efficiency
- Longer life of the fan motor assembly
- Standard coils circuited for multiple refrigerante (R22, R134a, R448 and R449)

Standard Version

- Copper tubes of 3/8 "OD
- Space between aluminum fins of 4,6 app (5,5mm)
- White powder coated evaporator panels
- 4 defrost types: Air, electric, hot gas and glicol defrost
- Stainless steel fastenings
- Performance optimised circuitry and distributor system with Venturi
- Temperature, vibration and shock proof connector
- Ø300mm fan motor
- Electric Defrost
- Access door both ends - easily removable
- Hinged and fully reversible drip tray
- Stainless steel fixing
- Tray and cabinet with electrostatic painting white color
- Electrical resistances removed from the rear of the equipment

Optional

- Factory fitted TX/EXV valves
- Defrost heaters for medium temperature
- Epoxy coated fins
- Stainless steel case
- Electronic motors

DT 7K		Kcal/h		Watts	
		TEV -27°C • Room Temp -20°C		TEV -27°C • Room Temp -20°C	
Model		Capacity	Air flow m3/h (50Hz)	Capacity	Air flow 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

Capacity Multiplying Factor					
Room Temp. °C	-30	-25	-20	15	-10
R507	0,88	0,97	1,02	1,04	1,06
R22	0,90	0,97	1,01	1,03	1,04

DT 8K		Kcal/h		Watts	
		TEV -5°C • Room Temp +3°C		TEV -5°C • Room Temp +3°C	
Model		Capacity	Air flow m3/h (50Hz)	Capacity	Air flow 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

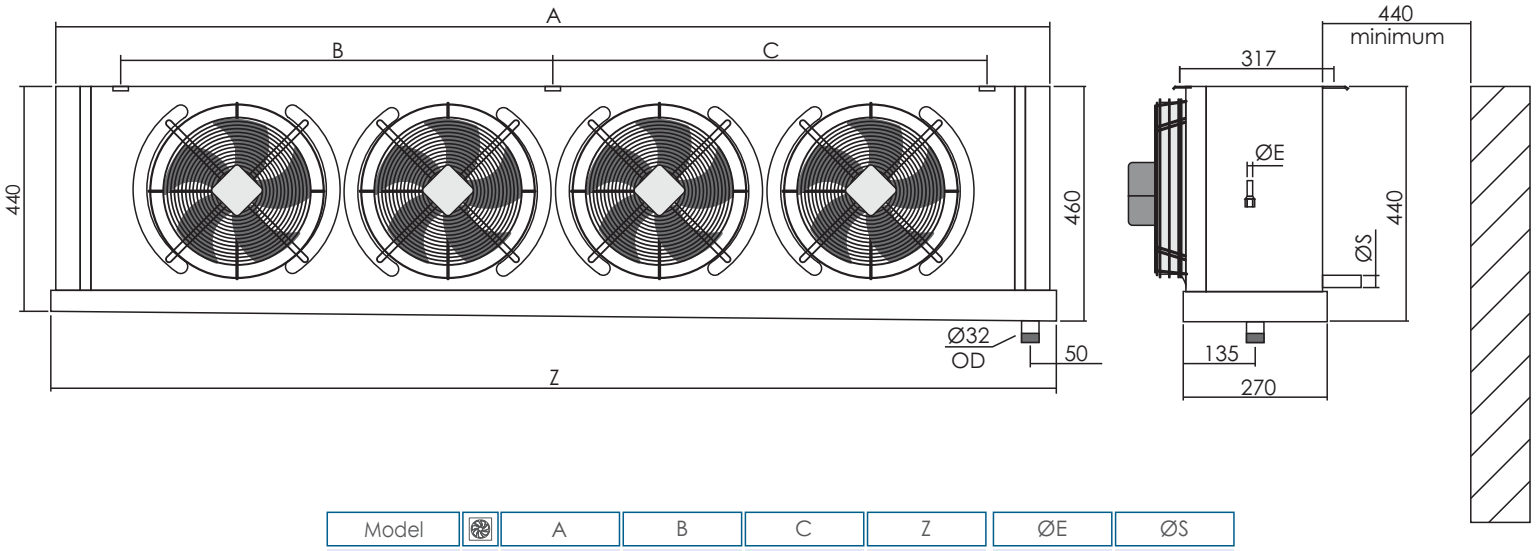
Capacity Multiplying Factor					
Room Temp. °C	-5	0	+3	+5	+10
R507	0,94	0,98	0,99	1,02	1,06
R22	0,91	0,95	0,98	0,97	1,03
R134a	0,85	0,90	0,92	0,95	0,96

DT 15K		Kcal/h		Watts	
		TEV +5°C • Room Temp +20°C		TEV +5°C • Room Temp +20°C	
Model		Capacity	Air flow m3/h (50Hz)	Capacity	Air flow 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

Characteristics

Model		Fans		Electric Defrost	
		230V 1Ø W	230V 1Ø A	W	230V 1Ø 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

Dimensional

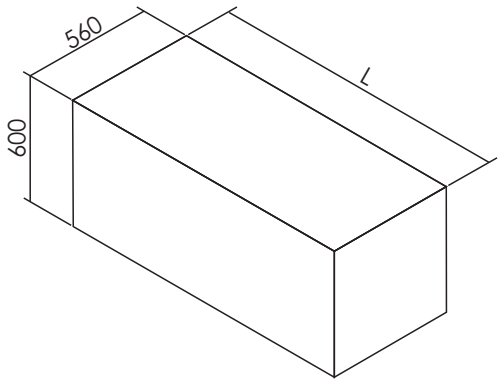


Model		A	B	C	Z	ØE	ØS
0012	1	678	-	-	710	1/2"	1/2"
0013	1	678	-	-	710	1/2"	1/2"
0014	1	678	-	-	710	1/2"	1/2"
0022	2	1078	-	-	1110	1/2"	1/2"
0023	2	1078	-	-	1110	1/2"	3/4"
0024	2	1078	-	-	1110	1/2"	3/4"
0033	3	1478	-	-	1510	1/2"	7/8"
0034	3	1478	-	-	1510	1/2"	7/8"
0043	4	1878	800	830	1910	1/2"	7/8"
0044	4	1878	800	830	1910	1/2"	1 1/8"

Air reach

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

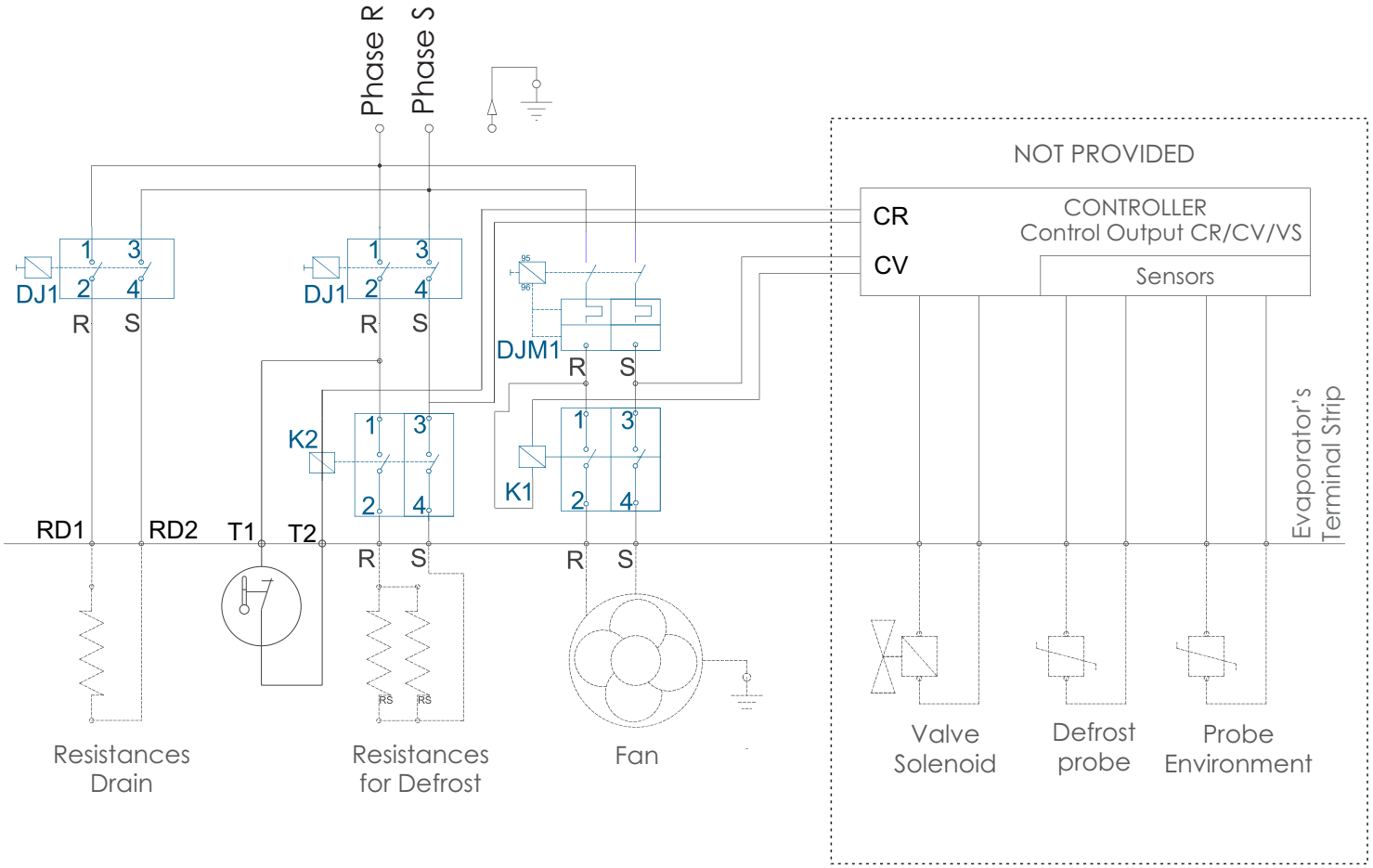
Packing



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 packaged, with recyclable products, ensuring their integrity during transportation.

Electric scheme



Legends:
K1 = Contact of the fans
K2 = Contact of Resistances
DJ = Circuit Breaker
DJM = Motor circuit breaker

Attention:
- To dimension the components of the installation, consult the catalog data tables.
- To change the factory supply, contact our engineering.
- Safety probe preventing high temperature. Install in the adjusted electrical panel MAX40°C
- Always use the ground wire.

How to order

Model	Description	Available options
S30	Smart Blue 300	
K	Espacing	K • 4,6 app (5,5mm)
E	Thaw	A • Air E • Electric G • Hot gas H • Hot gas and electric in the tray O • Glicol
0012	Model	0012 a 0044
C	Tubes	A • Aluminum B • Copper for Co2 C • Copper
A	Conexões e bandeja	A • Direct Expansion B • 2 Collectors C • 2 Collectors with Flanges D • 2 Collectors with Nipples
00	Accessories	00 • No accessories 01 • Expansion valve 03 • Drain resistor 13 • Expansion valve and drain resistor
D	Finishing	D • Aluminum cabinet with white powder coating E • Aluminum cabinet with white powder coating and L1* protection on the fins F • Aluminum cabinet with white powder coating and L2* protection on the fins M • Stainless steel cabinet N • Stainless steel cabinet e and L1* protection on the fins O • Stainless steel cabinet and L2* protection on the fins
MAC	Motor	MAC • Motor fan AC
G	Voltage and Frequency	G • Motor = 230V/1F/50Hz N • Motor = 230V/1F/60Hz
3	Packing	3 • EPS + PVC Film 4 • Cardboard box

*L1 and L2 are anti-corrosion protections. See our technical bulletin at http://www.mipal.com.br

Since 1956 MIPAL is part of refrigeration history in Brazil. Presents a full line of condensers, coolers, coils and climatizers for the most diverse commercial and industrial applications, it stands up in the market due to the high quality and efficiency of its products.

That is why its presence in other countries has been growing in wide steps.

This is what it gets from offering the best customized technology to its clients.

MIPAL is permanently dedicated to innovation and development: offering today the products of tomorrow, always in line with the most modern refrigeration market trends and having impeccable quality and performance, and environmental protection.

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