

Optigo



Benefits

- Designed for safe operation with A2L refrigerants
- Compact size for efficient use of cold room space
- Energy efficient EC fans
- Easy installation & maintenance
- Two-year product guarantee
- Easy access to on-line product information



Optigo SFMC

General information & application

Optigo SFMC are cubic commercial air coolers suitable for the safe use of ASHRAE A2L refrigerants.

A2L refrigerants have a minimal impact on global warming and they will bring maximum energy efficiency. So today, they are the best technological solution for air conditioning and refrigeration applications, outside the natural refrigerants. General application for Optigo SFMC are in small to medium-sized cooling rooms.

Refrigerants	A1, A2L
Capacity (SC2 with R404)	1.05 up to 20.20 kW
Air flow	900 up to 10,400 m ³ /h
Min. room temperature	- 25 °C

Design pressure

Design pressure: 24 bar. Each heat exchanger is leak tested with dry air and finally supplied with a dry air pre-charge.

Coil

High-efficiency coil manufactured from internally grooved Cu tubes and louvered aluminium fins. Standard fin spacing: 4.5, 6, 7 mm; 9 mm only for SF31MC and SF35MC.

Casing

Durable galvanized steel casing, powder coated RAL 9003. Dismountable and openable casing for cleaning and inspecting purposes. Optimized drip tray with rounded edges. Optigo SF31MC and SF35MC models fitted with hinged side panels and drip tray.

Fan motors

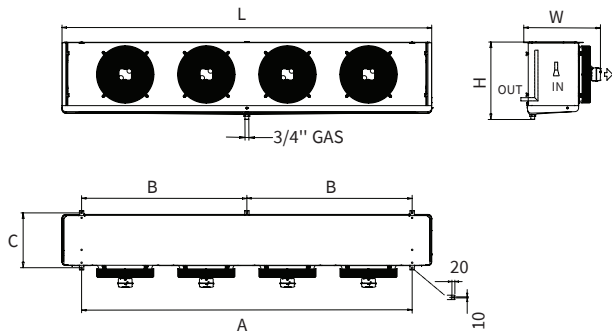
Optigo SFMC coolers are available with 1 to 4 fans fitted with high efficiency EC fan motors available in 3 fan diameters (275, 315 & 350 mm) drawing through the coil. Motors with external rotor for Optigo SF31MC and SF35MC models. Power supply 230/50/1. Single speed for SF27MC, dual speed for SF31MC and SF35MC. Fan motors are wired to a central connection box.

Type	Power supply	Ø mm	Nominal power W (x fan)	Nominal current A (x fan)
EC	1~230 V - 50/60 Hz	275	28	0.2
EC	1~230 V - 50/60 Hz	315	66	0.6
EC	1~230 V - 50/60 Hz	350	143	1.2



Optigo SFMC

Cubic commercial air coolers for A2L refrigerants



Dimensions

Model	n. of fans	Dimensions (mm)					
		L	A	B	C	W	H
F27MC	1	680	412	-	298	365	461
F27MC	2	1050	782	-	298	365	461
F27MC	3	1420	1152	-	298	365	461
F27MC	4	1790	1522	-	298	365	461
F31MC	1	770	492	-	375	500	460
F31MC	2	1220	942	-	375	500	460
F31MC	3	1670	1392	-	375	500	460
F31MC	4	2120	1842	-	375	500	460
F35MC	1	870	597	-	375	525	530
F35MC	2	1425	1152	-	375	525	530
F35MC	3	1980	1707	-	375	525	530
F35MC	4	2535	2262	1131	375	525	530

Certifications

The Alfa LU-VE quality system is in accordance with ISO 9001. All products are manufactured according to PED regulations.

The Optigo SFMC series machines use the same heat exchange components as the corresponding Optigo FMC series models and provide the same performance. The Optigo SFMC series machines can work with HFC category A1 refrigerants.

LU-VE Group participates in the ECP program for HE.

Check ongoing validity of certificate:

www.eurovent-certification.com

31562533EN-00

Alfa LU-VE is a trademark registered and owned by LU-VE Group. Alfa LU-VE reserves the right to change specifications without prior notification.

Options

- Electric defrost in coil (E)
The stainless steel defrost elements are connected to dedicated terminal box. Certified for the use of the only A2L refrigerants listed on the IEC standard 60335-2-40 (R-32, R-1234YF, R-1234ZE (E), R-444A, R-444B, R-447B, R-451A, R-451B, R-452B, R-454A, R-454B, R-454C, R-455A)
- Drip tray heater (HD)
- Electric defrost in coil + Drip tray heater (E+HD)

Model	Fin spacing	N	E	HD	E+HD
SF27MC	all	standard	✓	✓	✓
SF31MC	4.5, 6	standard	✓	✓	✓
SF31MC	7, 9	standard	n.a.	n.a.	✓
SF35MC	all	standard	n.a.	n.a.	✓

- Coil corrosion protection: Alupaint (AP)
- Fan shroud heater (FRH)
- Drip tray heater (HD)
- Drip tray insulation (IS)
- Insulated suction hood

Selection

Selection and pricing is to be performed with our online air heat exchanger selection software [Plair](#).

Selection output includes all relevant technical data and dimensional drawings.

Code description

SF27MC	-	2	1	-	4	N	AL	BP	-	FRH
1		2	3		4	5	6	7		8

- 1 Optigo SFMC A2L safety compliant cubic commercial unit coolers (SF27MC=Ø 275 mm, SF31MC=Ø 315 mm, SF35MC=Ø 350 mm)
- 2 Number of fans (1 to 4)
- 3 Coil type (1, 2)
- 4 Fin spacing (4=4.5, 6=6.0, 7=7.0, 9=9.0 mm)
- 5 Defrost system (N=air defrost, E=electric defrost in coil, HD=drip tray heater, E+HD=electric defrost in coil+drip tray heater)
- 6 Fin material (AL=aluminium, AP=pre-painted aluminium)
- 7 Packing (BP=box + pallet, CR=crate)
- 8 Options

