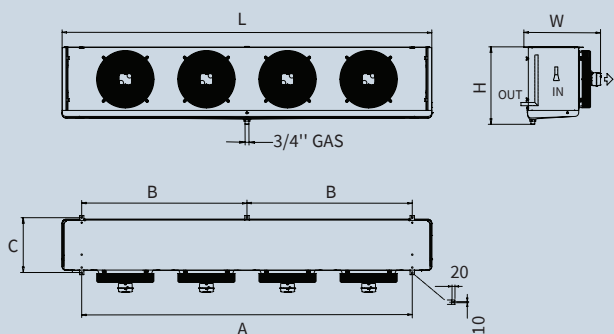


Optigo



Optigo FMC



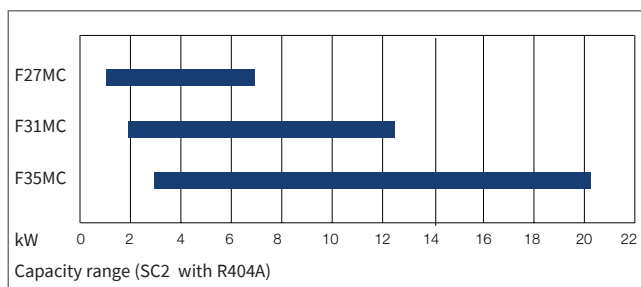
Benefits

- Eurovent certified performance (FMCE and FMCX models)
- Optimized coil design
- Energy efficient AC & EC fans
- Plug&play installation
- Two-year product guarantee
- Easy access to on-line product information

General information & application

Optigo FMC are cubic commercial air coolers for general application in small to medium-sized cooling, freezing and working rooms. Optigo FMC models are especially suitable for refrigerated working, processing and storage rooms. Dedicated ranges for HFC* refrigerants (E), CO₂ (X) and brine (W).

Capacity range (SC2 with R404A) 1,050 up to 20,200 W
 Air flow 900 up to 10,400 m³/h
 Min. room temperature - 35 °C



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

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.



Working pressure

Model	Refrigerant	Max working pressure
FMCE	HFC*	24 bar
FMCX	CO ₂	60 bar**
FMCW	Brine	10 bar

* Fluid group 2 according to EN 378; ** 85 bar in special execution

Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge.

Fitted with schröder valve on the suction connection for testing purposes (only for FMCE and FMCX units).

Coil

High-efficiency coil manufactured from internally grooved Cu tubes and louvered aluminium fins.

Model	Standard fin spacing (mm)			
	4.5	6	7	9
F27MC	✓	✓	✓	
F31MC	✓	✓	✓	✓
F35MC	✓	✓	✓	✓

Casing

Durable galvanized steel casing, powder coated RAL 9003. Dismountable and openable casing for cleaning and inspecting purposes. Optigo F31MC and F35MC models fitted with hinged side panels and drip tray.

Fan motors

1 to 4 fans fitted with high efficiency AC or EC fan motors, available in 3 fan diameters (275, 315 & 350 mm) drawing through the coil. Motors with external rotor for Optigo F31MC and F35MC models. Power supply 230/50-60/1. Fan motors are wired to a central connection box.

Type	Power supply	Ø mm	Nominal power W (x1)	Nominal current A (x1)
AC	1~230 V - 50/60 Hz	275	85	0.6
AC	1~230 V - 50/60 Hz	315	102	0.5
AC	1~230 V - 50/60 Hz	350	175	0.8
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



Options

- Coil corrosion protection: pre-coated aluminium fins (AP)
- EC fan motors: single speed for F27MC, dual speed for F31MC and F35MC
- Central internal connection box wired to a single external switch (SW)
- Electric defrost (E)
For cold rooms with room temperatures below 4 °C frost build-up is likely, the application of a defrosting system is recommended. The stainless steel defrost elements are connected to dedicated terminal box.
- Fan shroud heater (FRH)
- Drip tray heater (HD) - *standard for F31MC models with fin spacing 7 and 9 mm*
- Drip tray insulation (IS)
- Shut-up sock with adapter ring - *only for F31MC and F35MC models*
- Insulated suction hood

Certifications

The Alfa LU-VE quality system is in accordance with ISO 9001. All products are manufactured according to PED regulations. All FMCE and FMCX models are EUROVENT certified. Certified data:

- Capacities (ENV328)
- Air quantities
- Motor power consumption
- External surfaces

Code description

F27MC	E	A	-	2	1	-	4	N	*	AL	BP	-	*	FRH	
1	2	3		4	5		6	7		8	9	10		11	12

- Optigo FMC cubic commercial unit coolers (F27MC=Ø 275 mm, F31MC=Ø 315 mm, F35MC=Ø 350 mm)
- Refrigerant system (E=HFC, X=CO₂, W=brine)
- Fan motor type (A=AC, E=EC)
- Number of fans (1 to 4)
- Coil type (1, 2)
- Fin spacing (4=4.5, 6=6.0, 7=7.0, 9=9.0 mm)
- Defrost system (N=air defrost, E=electric defrost, HD=drip tray heater, E+HD=electric defrost+drip tray heater)
- Circuits code - only for brine units
- Fin material (AL=aluminium, AP=pre-painted aluminium)
- Packing (BP=box + pallet, CR=crate)
- Applications - only for CO₂ units (blank=DX 60 bar design pressure, P=pumped 60 bar, 85=DX 85 bar design pressure)
- Options

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