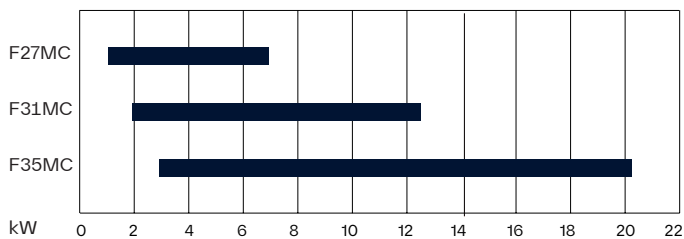


Alfa Optigo FMC

Heavy Duty Cubic Commercial Air coolers



Capacity range (SC2 with R404A)

Top Advantages

- **Reliable performance** - Eurovent certified, independently tested.
- **Extremely low internal volume** - reducing refrigerant charge.
- Reliable, quiet, and energy efficient.
- Easy-access, easy-clean – fully accessible casing.



Scan for more information

General information and application

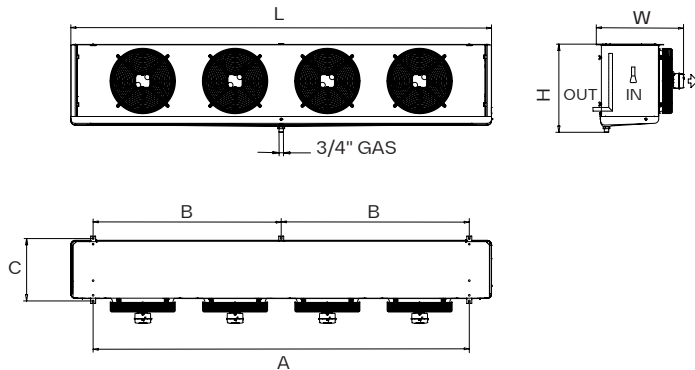
Compact commercial unit coolers designed for optimal conservation of fresh and frozen goods in commercial refrigeration and for efficient brine-based cooling in data center grey spaces.

Refrigerants	HFC, CO ₂ , Brine
Capacities (SC2 with R404)	1 up to 20 kW
Air flow	900 up to 10,400 m ³ /h
Min. room temperature	-35 °C

Standard configuration

- Modular commercial air cooler in draw-through design.
- Copper tubes with **TURBOFIN** aluminium fins. Multiple fin spacing options (4.5 up to 9 mm).
- AC/EC fan motors with 275, 315 and 350 mm diameter, 1 to 4 fans per unit. Single speed EC fans for F27 models, dual speed for F31 and F35 models. Optional 0-10 V control input for F35 models.
- Corrosion resistant galvanized steel casing, epoxy-coated RAL 9003.
- Hinged side panels and drip tray easy access for cleaning and maintenance.

Dimensions



Options

- Electric defrost in coil (E)
- Drip tray heater (HD)
- Electric defrost in coil + Drip tray heater (E+HD)

Model	Fin spacing	N	E	HD	E+HD
F27	all	standard	✓	✓	✓
F31	4.5, 6	standard	✓	✓	✓
F31	7, 9	standard	n.a.	n.a.	✓
F35	all	standard	n.a.	n.a.	✓

- Coil corrosion protection: Alupaint (AP)
- EC fan motors: single speed for F27, dual speed for F31 and F35 models
- EC fan motor with 0-10 V control input (0-10) - for F35
- EC fan motor with 0-10 V control input + potentiometer (0-10P) - for F35 models
- Central internal connection box wired to a single external switch (SW)
- Fan shroud heater (FRH)
- Drip tray heater (HD)
- Drip tray insulation (IS)
- Shut-up sock with adapter ring - for F31 and F35 models
- Insulated suction hood - for F31 and F35 models

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.

Certifications

The LU·VE quality system is in accordance with ISO 9001. All products are manufactured according to PED regulations. LU·VE participates in the ECP program for HE. Check ongoing validity of certificate: www.eurovent-certification.com

Brine refrigerant is not covered by Eurovent certification



Model	No. fans	Dimensions (mm)					
		L	A	B	C	W	H
F27	1	680	412	-	298	365	461
F27	2	1,050	782	-	298	365	461
F27	3	1,420	1,152	-	298	365	461
F27	4	1,790	1,522	-	298	365	461
F31	1	770	492	-	375	500	460
F31	2	1,220	942	-	375	500	460
F31	3	1,670	1,392	-	375	500	460
F31	4	2,120	1,842	-	375	500	460
F35	1	870	597	-	375	525	530
F35	2	1,425	1,152	-	375	525	530
F35	3	1,980	1,707	-	375	525	530
F35	4	2,535	2,262	1,131	375	525	530

Working pressure

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

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 dry air pre-charge. Fitted with schröder valve on the suction connection for testing purposes (for FMCE, FMCX and FMCW with welded connections).

Code description

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

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