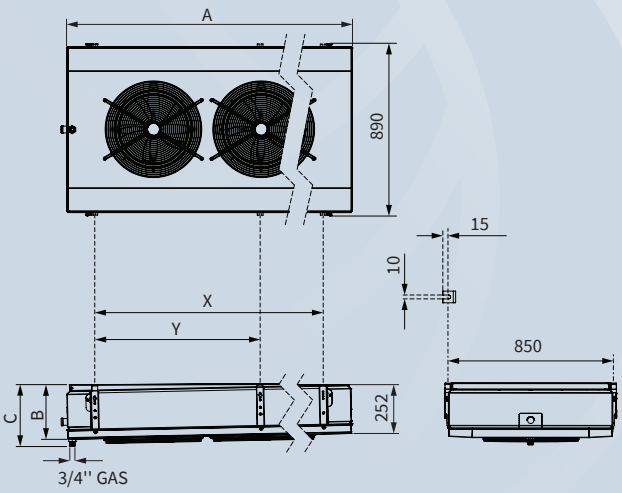
Optigo FMD

Dual discharge commercial air coolers



Optigo FMD

Benefits

- Compact size for efficient use of cold room space
- Low air velocity and low noise for comfortable working conditions
- Energy efficient EC fans
- Easy-install and maintenance thanks to fully accessible casing construction
- Two-year product guarantee
- Easy access to on-line product information

General information & application

Optigo FMD are commercial dual discharge air coolers for general application in small to medium-sized cooling, freezing and working rooms. Low air velocity and noise level make them especially suitable for refrigerated working and processing rooms.

Refrigerants: HFC*, CO_2, Brine

Capacity range (SC2 with R404)	1.5 up to 14.5 kW
Air inlet temperature	-25 up to +30 °C
Fluid inlet temperature	-40 up to +20 °C

*Fluid group 2 according to EN 378

Dimensions

Casing type	Dimensions (mm)				
	A	B	C	X	Y
1	892	269	307	596	-
2	1447	281	319	1151	-
3	2002	293	331	1706	853
4	2557	293	331	2261	1130

Coil

Innovative coil manufactured from internally grooved Cu tubes and aluminium fins.

Casing

Durable aluminium alloy metallic casing, epoxy coated RAL 9003. Hinged driptray. Dismountable and openable casing for cleaning purposes. Vertical plastic drain connection.

Working pressure

Model	Refrigerant	Max working pressure
FMDE	HFC*	24 bar
FMDX	CO_2	60 bar**
FMDW	Brine	12 bar

** 85 bar in special execution

Fitted with schräder valve on the suction connection for testing purposes (only for FMDE and FMDX units).
Threaded connections for brine units.
Each heat exchanger is leak tested with dry air and finally supplied with a dry air pre-charge.

Optigo FMD

Dual discharge commercial air coolers

Fan motors

1 to 4 fans fitted with EC fan motors available in two fan speeds (noise levels):

- H = High Speed (1100 RPM)
- L = Low Speed (900 RPM)

Fan diameters 350 mm. Power supply 230/50-60/1.
Fan motors wired to connection box.

	EC ø 350 mm
Fan blade material	Plastic PP
Fan guard material	Steel black coated
Protection class	IP54
Insulation class	B
Condensate discharge	None, open rotor
Bearings	Maintenance-free ball bearings
Motor protection	Electronics
Fan speed	H = High Speed (1100 RPM) L = Low Speed (900 RPM)

No. of fans	Speed	Nominal power	Nominal current
		W	A
1	H	85	0.7
	L	42	0.4
2	H	170	1.4
	L	84	0.8
3	H	255	2.1
	L	126	1.2
4	H	340	2.8
	L	168	1.6

Selection

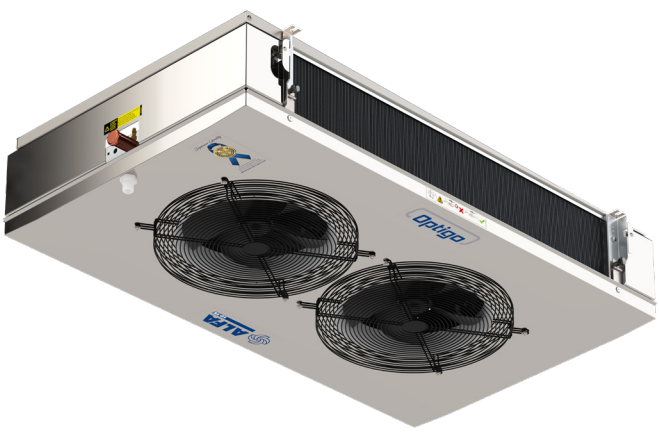
Selection and pricing is to be performed with our online air heat exchanger selection software Plair.
Selection output includes all relevant technical data and dimensional drawings.

Certifications

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

Options

- Electric defrost in coil (E)
  The stainless steel defrost elements are connected to dedicated terminal box
- EC fan motor with 0–10 V control input (0-10)
- EC fan motor with 0–10 V control input + potentiometer (0-10P)
- Coil corrosion protection: pre-coated aluminium fins (AP)
- Stainless steel casing (SSC)
  Standard materials for underplate (aluminium) and fan grid (steel black coated)
- Horizontal metalic drain connection, on request
- Stainless steel tubes (AISI 304)
- Re-heating coil, on request
- Water drain pump, on request



Code description

FMD	E	-	2	2	1	3	*	-	N	-	BP	-	AL	CU	-	*	*
1	2		3	4	5	6	7		8		9		10	11		12	13

1 Optigo FMD dual discharge commercial air cooler
2 Refrigerant system (E=HFC, X=CO_2, W=brine)
3 Casing type (1 to 4)
4 Number of fans (1 to 4)
5 Coil type (1, 2)
6 Fin spacing (3=3.0, 4=4.5, 7=7.0 mm)
7 Circuits code - only for brine units
8 Defrost system (N=air defrost, E=electric defrost)
9 Packing (BP=box + pallet, CR=crate)
10 Fin material (AL=aluminium, AP=pre-painted aluminium)
11 Tube material (CU=copper)
12 Application - only for CO_2 units (blank=DX 60 bar design pressure, P=pumped 60 bar, 85=DX 85 bar design pressure)
13 Options

31571664EN-05