

# Optigo FMD

## Commercial air coolers - dual discharge

### 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. Dedicated ranges for HFC\* refrigerants (FMDE), CO<sub>2</sub> (FMDX) and brine (FMDW).

Refrigerants	HFC*, CO <sub>2</sub> , brine
Capacity range (SC2)	1470 up to 14570 W
Air inlet temperature	-25 up to +30 °C
Fluid inlet temperature	-40 up to +20 °C

\* Fluid group 2 according to EN 378

### 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.

### 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.

### Working pressure

Model	Refrigerant	Max working pressure
FMDE	HFC*	24 bar
FMDX	CO <sub>2</sub>	60 bar**
FMDW	Brine	10 bar

\*\* 85 bar in special execution

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



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### Options

- Electric defrost (E)  
For cold rooms with room temperatures below 4 °C frost build-up is likely, the application of a defrosting system is advised. The stainless steel defrost elements are connected to separated terminal box.
- Coil corrosion protection  
- pre-coated aluminium fins (AP)
- Horizontal metallic drain connection available on request
- Stainless steel tubes (AISI 304)
- EC fan motors with 0-10 V speed regulation
- Re-heating coil available on request
- Water drain pump available on request

### 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



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## Fan motors

	<b>EC ø 350 mm</b>
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)

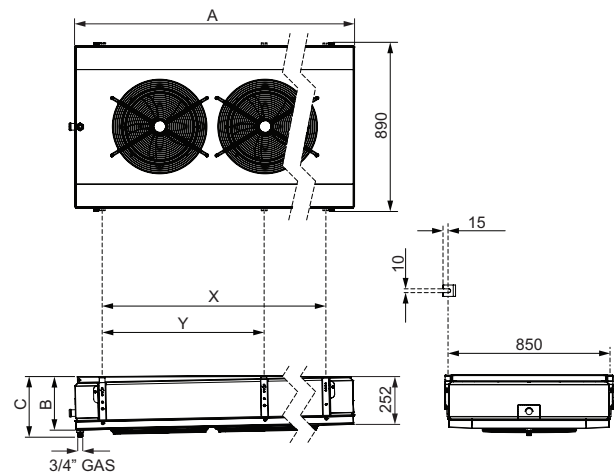
No. of fans	Speed	Nominal power	Nominal current
		W	A
1	H	85	0.7
	L	42	0.4
2	H	170	1.4
	L	84	0.8
3	H	255	2.1
	L	126	1.2
4	H	340	2.8
	L	168	1.6

## Code description

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

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

## 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

## Selection

Selection and pricing is to be performed with our Alfa LU-VE air heat exchanger selection software. 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.

All FMDE models are EUROVENT certified. Certified data:

- Capacities (ENV 327)
- Air quantities
- Motor power consumption
- External surfaces



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## How to contact Alfa LU-VE

Up-to-date Alfa LU-VE contact details for all countries are always available on our website at [alfa.luvegroup.com](http://alfa.luvegroup.com)