



Alfa Laval Optigo CD

Commercial air coolers - dual discharge

General information & application

Optigo CD is a commercial dual discharge air cooler 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 & processing rooms. Dedicated ranges for H(C)FC refrigerants (CDE), brine (CDW) and CO₂ (CDX). A selection of Optigo CDE air coolers is available from stock.

Evaporating temperatures	+10 to -30 °C
Refrigerants	all H(C)FC, CO ₂ and brine
Capacities (SC2)	0.8 up to 24 kW
Air volume	615 up to 14160 m ³ /h

Coil

Innovative coil manufactured from internally grooved Cu tubes and aluminium fins. Staggered tube pitch. Hotgas ready.

cooler model	Available fin spacings (mm)								
	3.3	4.0	5.5	6.0	7.0	8.0	9.0	10.0	11.0
CDE/CDW 300	✓	✓	✓		✓				
CDE/CDW 400		✓	✓	✓	✓	✓	✓	✓	✓
CDX 300	✓	✓	✓		✓				
CDX 400	✓	✓	✓		✓				

Casing

Durable aluminium alloy casing, powder epoxy coated RAL 9002. Hinged lateral drip trays with dismantable central drain box. Fully dismantable and openable casing for cleaning purposes. Pre-cut passages for multiple choice connections. Internal air deflectors enhance coil efficiency.

Fan motors

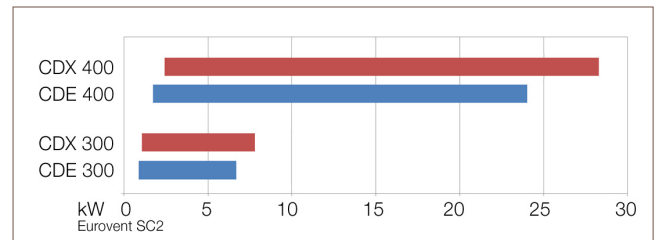
1 to 5 fans fitted with AC or EC fan motors available in two fan speeds (noise levels). Fan diameters 300 or 400 mm blowing through the coil. Fan motors 460/60/3 available as option. Fan motor details on reverse page.

Design pressure

Design pressure 40 bar H(C)FC, 80 bar CO₂ or 6 bar brine. Higher design pressures on request. Each cooler is leak tested with dry air and supplied with a nitrogen pre-charge.



Optigo CD



Benefits

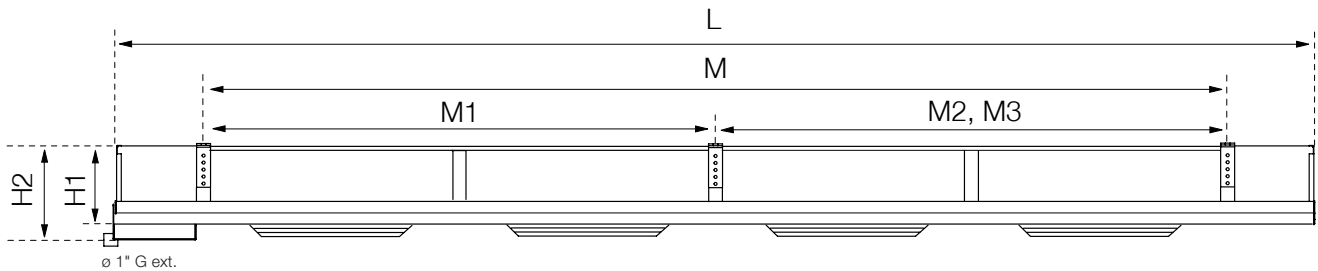
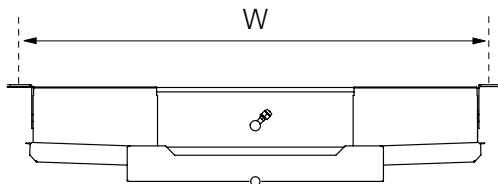
- Available from stock.
- Compact size & low profile for efficient use of cold room space.
- Low air velocity and low noise for comfortable working conditions.
- Standard suitable for hotgas defrost.
- Innovative coil block for higher effective cooling capacity.
- Eurovent certified performance (CDE models only).
- Easy-install.
- Energy efficient EC fans
- Low total cost of ownership.
- Two-year product guarantee.
- Easy access to additional on-line product information (QR code)



Optigo CD

Options

- Electric defrost (E)
Standard suitable for hotgas defrost
- Drip tray insulation - CD400 only (IS)
- Re-heating coil (RH)
- Fan motors wired to central terminal box (CB)
Standard for EC fan motors
- Repair switch - CD400 only (SW)
- Fan motor 460/60/3
- Casing material
 - Stainless steel 304 casing & coil frame (SS)
- Coil corrosion protection
 - epoxy coated aluminium fins (EP)
 - cataphoresis treatment (CA)



Fan motors

Fan diam.	Fan speed	Speed rpm	Poles nr.	Volt V	Phases nr.	Freq. Hz	AC/EC
300	H	1300		230	1	50-60	EC
300	L	900		230	1	50-60	EC
400	H	1250	4	230	1	50	AC/EC
400	L	950	6	230	1	50	AC/EC
400	H	1440	4	400	3	50	AC
400	L	900	6	400	3	50	AC
400	H	1450	4	230	1	50	AC/EC
400	L	1100	6	230	1	50	AC/EC
400	H	1670	4	400	3	50	AC
400	L	970	6	400	3	50	AC

cooler model	Dimensions (mm)							
	L	W	H1	H2	M	M1	M2	M3
CD 301	949	1012	170	203	550	-	-	-
CD 302	1499	1012	170	203	1100	-	-	-
CD 303	2049	1012	170	203	1650	-	-	-
CD 304	2599	1012	170	203	2200	1100	1100	-
CD 401	1121	1160	350	400	820	-	-	-
CD 402	1910	1160	350	400	1609	-	-	-
CD 403	2700	1160	350	400	2399	-	-	-
CD 404	3490	1160	350	400	3190	1580	1610	-
CD 405	4280	1160	350	400	3980	1580	790	1610

Code description

CD	E	H	E	30	1	B	S	230V	BOP	PC	A	-	EP	4.0	CU	CB
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16

- Commercial air cooler - dual discharge
- Refrigerant system (E = H(C)FC DX, W=brine, X=CO₂)
- Fan speed (H=high speed, L=low fan speed)
- Fan motor type (empty=AC, E=EC fan)
- Fan diameter (30=300 mm, 40=400 mm)
- Number of fans (1 to 5)
- Tube rows code (B, C)
- No. of phases (S=1, T=3)
- Motor voltage
- Packing (BOP=box + pallet, CR=crate)
- Casing (PC=epoxy coated aluminium, SS=stainless steel)
- Defrost system (A=air defrost, E=electric defrost)
- Coil protection (EP=epoxy coated aluminium, CA=cataphoresis)
- Fin spacing (3.3, 4, 5.5, 6, 7, 8, 9, 10 or 11 mm)
- Tube material (CU=copper)
- Options

Selection

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

Certifications

All CDE cooler models are "Eurovent Certify All" certified. The Alfa Laval quality system is in accordance with ISO 9001. All products are manufactured according to CE and PED regulations.



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How to contact Alfa Laval

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