CD

Dual discharge Industrial air coolers for cold rooms

Value Defender

CD CDW

General information and application

CD are high performance dual discharge industrial air coolers designed for cold rooms in industrial applications.

Refrigerants: HFC, CO_2, NH_3, Brine

Capacity range CDH (R404, SC2)	6 up to 92 kW
Air volume	4,600 up to 45,200 m³/h

Design pressure

Model	Refrigerant	Max working pressure
CDH	HFC	24 bar*
CDA	Ammonia	22 bar
CDH CO_2	CO_2	45 bar
CDW	Brine	24 bar*

*Higher pressure on request

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

Casing

Corrosion-resistant galvanized steel casing, epoxy coated RAL 9003.

Coil

Refrigerant	Fins	Tubes	Headers
HFC	Al*	Cu	Cu
Ammonia	Al*	SS 304**	SS 304**
CO_2	Al*	Cu	Cu
Brine	Al*	Cu	Cu

* Alupaint as optional; **Stainless steel 316 on request; *** increased thickness

- High-efficiency TURBOFIN® aluminum fins with special configuration of the louvre profile to reduce dehumidification and frost formation.
- High-efficiency small-diameter copper tubes with internal helical grooving, designed for optimal evaporation of the refrigerant fluids. Stainless steel tubes for ammonia refrigerant.
- Standard fin spacings 4.5, 6, 7.5 and 10 mm.

Benefits

- Low refrigerant charge
- Low energy consumption
- Low noise
- Two-year product guarantee

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Fan motors

CD units are fitted with 1 to 4 axial fans with high-efficiency AC or EC fan motors blowing trough the coil. Available in different fan diameters (ø 450, 500 and 630 mm).

Integrated thermo contacts provide reliable protection against thermal overload.

Options

- Corrosion protection: Alupaint
- Unit cooler switches
- Unit cooler wiring
- Fan switch (IS)
- Insulated drain tray
- Stainless steel casing and coil frame
- Hinged fan shroud
- Electric defrost (E)
- Hot-gas defrost in coil + electric defrost in drain tray (G)
- Hot-gas defrost both in coil and drain tray (GB)
- Hot glycol defrost both in coil and drain tray (HG)
- Draw-trough fan
- Top fan
- AVA connection - *for brine application*

Certifications

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

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EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

*Ammonia and Brine refrigerants are not covered by Eurovent certification

Mounting dimensions

Detailed drawings showing all required mounting and refrigerant connection dimensions are available for download on Members area.

Drawings

Selection

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

Code description

CD	63	H	*	8608	E	6	*
1	2	3	4	5	6	7	8

1 Dual discharge Industrial air coolers (CD=with axial fans)
2 Fan diameter (45=450, 50=500-4P, 52=500-6P, 63=630-6P, 64=630-4P)
3 Technology (H=Hitec® for HFC and CO_2, blank=for ammonia and brine)
4 Refrigerant system (blank=HFC, A=ammonia, W=brine, in case of CO_2 see pos. 8)
5 Model type
6 Defrost system (N=air defrost, E=electric defrost, G=hot-gas defrost in coil + electric defrost in drain tray, GB=hot-gas defrost both in coil drain tray)
7 Fin spacing (4=4.5 mm, 6=6.0 mm, 7=7.5 mm, 10=10.0 mm)
8 Application (DX CO_2=direct expansion for CO_2, PB=pumped bottom feed for ammonia, PT=pumped top feed for ammonia)

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