

### Value Defender



RADIAL FANS



LOW NOISE



PRODUCT SUSTAINABILITY



CRD

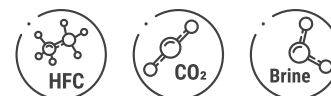
#### Benefits

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

#### General information and application

CRD are dual discharge air coolers with radial EC fans for cooling and freezing applications in medium to large cold rooms. This industrial air cooler line is designed to improve acoustic comfort of workers inside cold rooms and increase product sustainability.

Refrigerants



Capacity range CRD (R404, DT1)  
Air volume

15 up to 122 kW  
4,600 up to 45,200 m<sup>3</sup>/h

#### Design pressure

| Model                | Refrigerant     | Max working pressure |
|----------------------|-----------------|----------------------|
| CRDH                 | HFC             | 24 bar*              |
| CRDH CO <sub>2</sub> | CO <sub>2</sub> | 45 bar               |
| CRDW                 | 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 schröder 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      |
| CO <sub>2</sub> | 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.



# CRD

## Dual discharge Industrial air coolers with radial fans

### Fan motors

CRD units are fitted with 1 to 4 radial EC fans with diameter  $\varnothing$  630.

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
- 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)
- Top fan
- AVA connection - for brine application



### Mounting dimensions

Detailed drawings showing all required mounting and refrigerant connection dimensions are available for download on [Members area](#).



Dimensions

### 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](http://www.eurovent-certification.com)

### 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

|     |    |   |   |      |   |   |   |
|-----|----|---|---|------|---|---|---|
| CRD | 63 | H | * | 8608 | E | 6 | * |
| 1   | 2  | 3 | 4 | 5    | 6 | 7 | 8 |

- 1 Dual discharge Industrial air coolers (CRD=with radial fans)
- 2 Fan diameter (63=630-6P, 64=630-4P)
- 3 Technology (H=Hitec<sup>®</sup> for HFC and CO<sub>2</sub>, blank=for brine)
- 4 Refrigerant system (blank=HFC, W=brine, in case of CO<sub>2</sub> 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<sub>2</sub>=direct expansion for CO<sub>2</sub>)



\*Ammonia and Brine refrigerants are not covered by Eurovent certification

31551915EN-01

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