

# Defender CD

Hi-tech dual discharge industrial Air coolers



## Top Advantages

- Low profile design maximizes cold room space utilization.
- Reliable performance - Eurovent certified, independently tested.
- TURBOCOIL heat exchanger: unique to LU·VE, ensures maximum performance and minimized defrost frequency
- Superior energy efficiency.
- Full refrigerant compatibility.

## General information and application

Defender delivers versatile performance for industrial cooling and freezing applications in medium/large cold rooms. Designed for multi-refrigerant flexibility (HFC, ammonia, CO<sub>2</sub>, brine), it offers low noise, low refrigerant charge, and superior efficiency with axial fans.

The Defender CD platform provides a wide selection of configurations and extensive options, empowering you to choose the ideal model tailored precisely to your needs.

<b>Refrigerants</b>	HFC/HFO, NH <sub>3</sub> , CO <sub>2</sub> , Brine
<b>Capacities (SC2 with R404)</b>	6 up to 92 kW
<b>Air volume</b>	4,600 up to 45,200 m <sup>3</sup> /h

## Standard configuration

- Dual discharge industrial air cooler with axial fans blowing through the coils..
- High-efficiency small-diameter copper tubes with internal helical grooving.
- Copper tubes with TURBOFIN aluminium fins. Multiple fin spacing options (4.5 up to 12 mm). Stainless steel tubes for ammonia.
- EC or AC fan motors from 450, 500 or 630 mm diameter, 1 to 4 fans per unit.
- Corrosion-resistant galvanized steel casing, epoxy-coated RAL 9003.
- Designed for high energy efficiency and low defrost frequency.



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## 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



## 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 LUVE quality system is in accordance with ISO 9001. All products are manufactured according to PED regulations. LUVE participates in the ECP program for HE. Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)



Ammonia and Brine refrigerant is not covered by Eurovent certification

31800545EN-00 | LUVE reserves the right to change specifications without prior notification

## Design pressure

Model	Refrigerant	Max working pressure (bar)
CDH	HFC	24*
CDA	NH <sub>3</sub>	22
CDH CO <sub>2</sub>	CO <sub>2</sub>	45
CDW	Brine	24*

\*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).

## 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<sub>2</sub>, blank=for ammonia and brine)
- 4** Refrigerant system (blank=HFC, A=ammonia, 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>, PB=pumped bottom feed for ammonia, PT=pumped top feed for ammonia)