

## Value Defender



RADIAL FANS



LOW NOISE



PRODUCT SUSTAINABILITY

### Benefits

- Compact size for efficient use of cold room space
- Low noise for comfortable working conditions
- Product sustainability
- Energy efficient EC fans
- Easy-install and maintenance thanks to hinged fans shroud
- Two-year product guarantee
- Advanced product selection software available
- Easy access to additional on-line product information

### General information & 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	HFC, ammonia, brine, CO <sub>2</sub>
Capacities (SC2)	up to 100 kW
Air volume	up to 47.000 m <sup>3</sup> /h

### Standard features

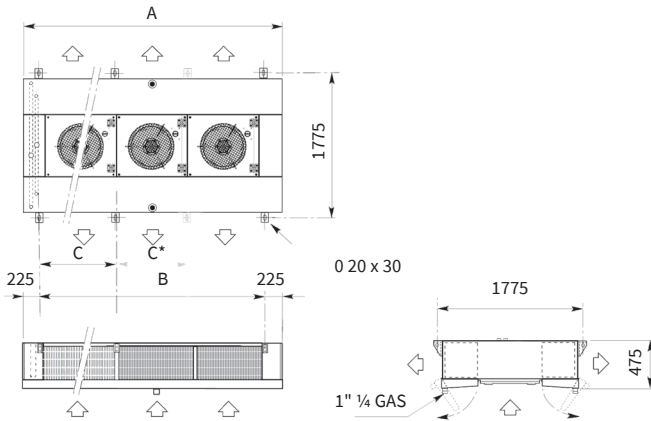
- Innovative coil manufactured from internally grooved Cu tubes and aluminium fins. 6, 8 or 12 coil rows.
- Cu headers for HFC, brine and CO<sub>2</sub> units; inox headers for ammonia units.
- Fin spacings 4.5, 6.0, 7.5 and 10.0 mm.
- Module length 1200 mm (CRD63) or 1600 mm (CRD64).
- 1 to 4 radial EC fans, blowing through the coil. Power supply 400/50-60/3. Radial fan motors, protection degree IP55. Thermal overload protector internally connected.
- Each motor is completely pre-wired to an isolator switch and fitted with hinged fan shroud.
- Durable aluminium alloy metallic casing, epoxy coated RAL 9003. Hinged drain tray. Dismountable and openable casing for cleaning purposes.
- Fitted with schröder valve on the suction connection for testing purposes (brine units excluded).
- Sufficient room for fitting the expansion valve inside.
- Stickers indicate fan direction and refrigerant in/out.
- Delivery in mounting position. Coolers are packed with wooden crate. Installation can take place with use of a forklift.

### Design pressure

Refrigerant application	Design pressure
HFC	24 bar*
Ammonia	22 bar
CO <sub>2</sub>	45 bar**
Brine	24 bar*

\*19 bar with Ø 108 mm headers; \*\* higher pressure levels on request

Each heat exchanger is leak tested with dry air and finally supplied with a dry air pre-charge.



### Dimensions

Model	No. fans	A mm	B mm	C mm	C* mm
CRD63	1	1650	1200	-	-
CRD63	2	2850	2400	-	-
CRD63	3	4050	3600	1200	-
CRD63	4	5250	4800	2400	-
CRD64	1	2050	1600	-	-
CRD64	2	3650	3200	1600	-
CRD64	3	5250	4800	1600	1600
CRD64	4	-	-	-	-

### Fans



Radial EC fans Ø 630 mm	
Nominal voltage	3 ~ 400 V
Voltage range	380 - 480 V
Frequency	50/60 Hz
Power input	870 W
Current draw	1,35 A
Max speed	870 rpm
Work temperature	- 40 °C to +25 °C

### Options

- Defrost systems:
  - Air defrost (N)
  - Electric defrost (E)
  - Hot gas + electric defrost (G)
  - Hot gas defrost in coil + drain tray (GB)
  - Hot glycol in coil only (HC)
  - Hot glycol in drain tray only (HB)
  - Hot glycol defrost in coil + drain tray (HG)
  - Hot glycol defrost in coil + electric defrost in drain tray (HE)
- Insulated drain tray
- Header for top connections - *only brine models*
- Coil protection:
  - Alupaint fins
  - Cu fins
- Stainless steel tubes (AISI 304)

### Certifications

The LU-VE quality system is in accordance with ISO 9001. All products are manufactured according to PED.



### 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

- Dual discharge industrial air cooler with radial fans
- Module length (63=1200 mm, 64=1600 mm)
- Refrigerant system (H=CO<sub>2</sub> or HFC, W=brine, A=ammonia)
- Model
- Defrost system
- Fin spacing (4=4.5 mm, 6=6.0 mm, 7=7.5 mm, 10=10.00 mm)
- Circuits code (only for brine)