



Giants gas coolers

Benefits

- Fully optimized design for CO₂
- Favourable capacity/footprint ratio
- Fitted with high performance turbo fins
- Low noise operation (from 31 dBA)
- Reliable performance
- Easy installation and maintenance
- Energy efficient: low total cost of ownership
- Two-year product guarantee

General information and application

Giants series is a wide range of heavy duty V-type gas coolers for air conditioning and refrigeration applications. CO₂ gas coolers replace traditional air cooled condensers in refrigerating systems that have been designed for the use of CO₂ as a single refrigerant.

Giants gas coolers provide high capacities at reduced power consumption and a compact footprint.

Refrigerants



Capacity range ($\Delta T=5$ °K)

350 up to 1,850 kW

Finned coil

Copper tubing with circuit design optimized to the thermodynamic properties of CO₂. High efficient fins-tube pattern boost the heat transfer performance. Fitted with aluminium turbo-fins.

Fin spacing 2.1 mm.

The unique coil construction provides protection against vibration and thermal expansion, thanks to the patented SafeTube System.

Casing

Casing, supports and frame are made of corrosion resistant galvanized steel to tailor the product for industrial environments.

Fan motors

High efficiency, low power consumption AC/EC motors are suitable for multiple voltage and frequency power supply, protection class IP 54 according to DIN 40050. Integrated thermo contacts provide reliable protection against thermal overload.

Dual fan row, 4 - 18 fans, Ø 900 mm with different noise levels.

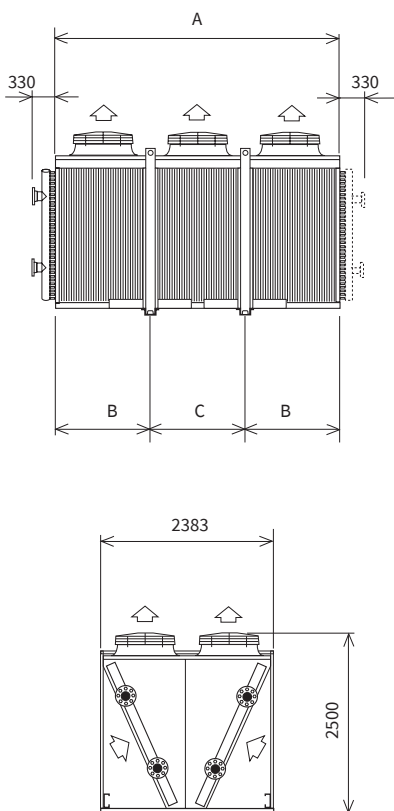
Design pressure

Design pressure 120 bar.

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



Dimensions



mm	No. motors							
	4	6	8	10	12	14	16	18
A	2844	4266	5688	7110	8532	9954	11376	12798
B	1422	1422	1422	1422	1422	2844	2844	2844
C	-	1422	2844	4266	5688	4266	5688	7110

Certifications

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

Options

- Fin spacing (3.2 and 4.2 mm)
- Fin material:
 - Alupaint fins: Al-Mg alloy coated fins with a special paint treatment to give strong protection and resistance to corrosion
 - Cu fins
- Coil protection grid
- Fan section division
- Water Spray Evolution system (WSE)
- Anti-vibration pads (TAM)
- Whisperer (WH)
- **Electrical accessories:**
 - Isolating switch (IS)
 - Motors wired to a common terminal box
 - Basic switchboard with fuse protection (ESB)
 - EC switchboard panel with circuit breakers (ECCB)
 - EC fan speed control cabinet (ICM)

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

EHVD	F	-	1226	(	2	x	2	)	CO2	*
1	2		3		4		5		6	7

- 1 Giants gas coolers (EHVD)
- 2 Noise level (F-N=normal, S-X-T=quiet, U-R=residential)
- 3 Model code
- 4 No. rows
- 5 No. fans per row
- 6 Refrigerant (CO₂)
- 7 Options

31774177EN-00

LU-VE Exchangers is a trademark registered and owned by LU-VE Group.
LU-VE Exchangers reserves the right to change specifications without prior notification.