

Vantage FHC | EHC

Hi-Tech cubic light industrial Air coolers Ø 450/500/630



Top Advantages

- Top Performance: advanced high efficiency heat exchanger
- Environment & installation-cost friendly: very low refrigerant charge and EC fans
- Even cold room conditions: optimized air flow and throw
- Easy installation and maintenance: fully accessible casing, hinged draintray
- Long life cycle: first class materials used

General information and application

Vantage F45HC, F50HC and F62HC units are cubic light industrial air coolers for general application in small to medium-sized cooling, freezing and working rooms. E45HC and E50HC units are optimized for low-charge CO₂ and HFC applications.

Refrigerants	HFC, CO ₂ , Brine
Capacities (SC2 with R404)	5.4 up to 65.2 kW
Air flow	4,600 up to 34,800 m ³ /h
Min room temperature	-35 °C

Standard configuration

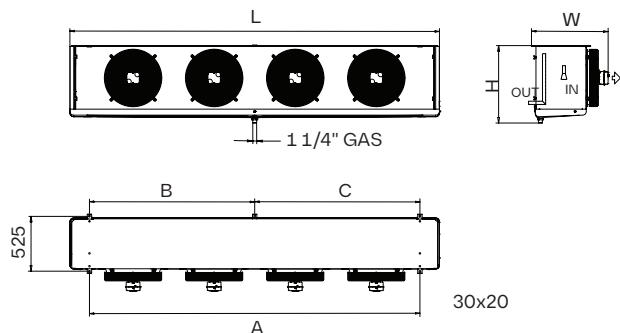
- FHC units feature internally grooved Cu tubes and louvered aluminium fins. FHC standard fin spacings: 4.5, 6.0, 7.5 and 10.0 mm.
- EHC models feature internally grooved tube (for models with 60 bar design pressure) and staggered rows, with a dedicated design for low charge CO₂ and HFC applications. EHC standard fin spacings: 4.5, 6.0, 7.0 and 9.0 mm.
- Durable galvanized steel casing, powder coated RAL 9003.
- Dismountable and openable casing for cleaning and inspecting purposes. Fitted with hinged drain tray.
- 1 to 4 fans fitted with high efficiency AC or EC fan motors. Available in different fan diameters (450, 500 and 630 mm - only for FHC units) drawing through the coil.



Scan for more
information

Dimensions

Ø 450, 500



Model	no. fans	Dimensions (mm)					
		L	A	B	C	W	H
Ø 450 **00	1	1,290	800	800	-	675	660
Ø 450 **02	1	1,290	800	800	-	675	660
Ø 450 **06	2	2,090	1,600	1,600	-	675	660
Ø 450 **08	2	2,090	1,600	1,600	-	675	660
Ø 450 **12	3	2,890	2,400	2,400	-	675	660
Ø 450 **14	3	2,890	2,400	2,400	-	675	660
Ø 450 **18	4	3,690	3,200	1,600	1,600	675	660
Ø 450 **20	4	3,690	3,200	1,600	1,600	675	660
Ø 500 **00	1	1,290	800	800	-	730	880
Ø 500 **02	1	1,290	800	800	-	730	880
Ø 500 **06	2	2,090	1,600	1,600	-	730	880
Ø 500 **08	2	2,090	1,600	1,600	-	730	880
Ø 500 **12	3	2,890	2,400	2,400	-	730	880
Ø 500 **14	3	2,890	2,400	2,400	-	730	880
Ø 500 **18	4	3,690	3,200	1,600	1,600	730	880
Ø 500 **20	4	3,690	3,200	1,600	1,600	730	880

Design pressure

Refrigerant	Max working pressure
HFC*	24 bar
CO ₂	45 - 60 bar
Brine	10 bar

*Fluid group 2 according to EN 378

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 and CO₂ units). Threaded connections for brine units.

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

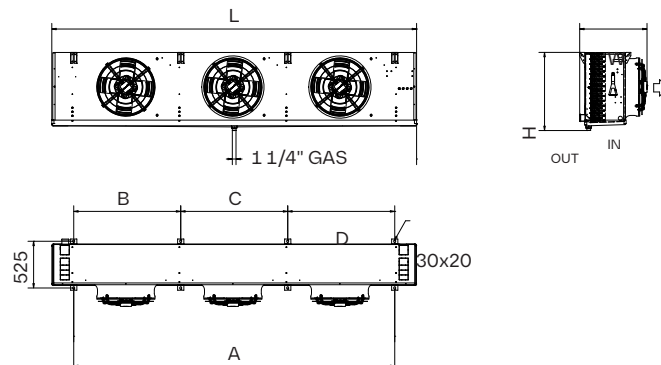
The LUVE quality system is in accordance with ISO 9001. All products are manufactured according to PED regulations. LUVE participates in the ECP program for HE.

Check ongoing validity of certificate:
www.eurovent-certification.com

Brine refrigerant is not covered by Eurovent certification



Ø 630



Model	no. fans	Dimensions (mm)						
		L	A	B	C	D	W	H
Ø 630 **06	2	2,890	2,400	1,200	1,200	-	755	880
Ø 630 **08	2	2,890	2,400	1,200	1,200	-	755	880
Ø 630 **12	3	4,090	3,600	1,200	1,200	1,200	755	880
Ø 630 **14	3	4,090	3,600	1,200	1,200	1,200	755	880

Options

- Corrosion protection: Alupaint fins (AP)
- Electric defrost (E) - both in coil and in drain tray, connected to dedicated connection box
- Hot gas defrost (G) - hot gas in coil, electrical in drain tray
- Fan shroud heater
- EC fans (0-10 V) + Modbus
- Fan motors wired to a central connection box
- Fan switches
- Insulated drain tray
- Shut-up sock
- Textile tube adapter
- Air streamer
- Top connections - for brine models

Code description

F45	H	C	*	1100	N	4	*	*
1	2	3	4	5	6	7	8	9

- 1 Vantage Air cooler (F45=Ø 450, F50=Ø 500, F62=Ø 630, E45=Ø 450, E50=Ø 500 mm)
- 2 Hitec® technology
- 3 Cubic light industrial
- 4 Application (blank=direct expansion, W=brine)
- 5 Model type
- 6 Defrost system (N=air defrost, E=electric defrost, G=hot-gas defrost)
- 7 Fin spacing (4=4.5, 6=6.0, 7=7.5, 9=9.0, 10=10.0 mm)
- 8 Circuit code - only for brine units
- 9 Options