

Alfa Arctigo ID

Hi-duty dual discharge industrial Air coolers



Top Advantages

- Low profile design maximizes cold room space utilization.
- Reliable performance - Eurovent certified, independently tested.
- Superior energy efficiency.
- Full refrigerant compatibility.
- Easy-access, easy-clean – Hinged side panels, drip tray and (as option) fan panel.



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information

General information and application

Alfa Arctigo ID offers modularity and reliable performance for industrial refrigeration and data center cooling applications. Designed for flexibility and optimal operation, Alfa Arctigo ID meets the demanding needs of cold storage, freezing, and technical infrastructure with high efficiency and long-term durability.

Refrigerants	HFC/HFO, NH ₃ , CO ₂ , Brine
Capacities (SC2 with R404)	3 up to 110 kW
Air volume	4,000 to 50,000 m ³ /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 for CO₂ and HFC, smooth for brine. Stainless steel tubes for ammonia.
- Multiple fin spacing options (4 up to 12 mm).
- Corrosion-resistant galvanized steel casing, epoxy-coated RAL 9003.
- Available with hinged fan plate.
- EC or AC fan motors from 450, 500 or 630 mm diameter, 1 to 5 fans per unit.
- Advanced defrost systems: electric, hot-glycol, hot-gas.
- Reheating coil for humidity control as optional.

Options

- Electric defrost systems (including connection box):
 - Electric defrost in driptray (E1)
 - Electric defrost - heavy (E2)
 - Electric defrost - light (E4)
- Hotgas defrost systems:
 - Hotgas defrost - light, not connected (HG1)
 - Hotgas defrost - heavy, not connected (HG2)
 - Hotgas defrost - light, connected (HG1C)
 - Hotgas defrost - heavy, connected (HG2C)
- Hot glycol circuit defrost - heavy (HW2)
- Fan ring heater, connected (FRH)
- Hinged fan plate (HF)
- Driptray insulation 13 mm styropore + cladding (I2)
- Adapter 90° for horizontal driptray drain connection
- Export packing crate
- Coil protection:
 - Pre-coated aluminium (EP)
 - AlMg2.5 sea water resistant aluminium fins (SWR)
- Slip-on flanges (F) for brine models only:
 - aluminium PN16 for copper tube units
 - stainless steel PN16 for stainless steel tube unit
- Stainless steel casing and frame (SSC)
- Reheating coil (RH)
 - Only for 3, 4 and 6 tube rows models
- Switch on/off (SW)
- Fan motors wired to connection box (CB)
- Central internal connection box wired to a single external switch (CB1)
- On special request only:
 - draw-through fans for blast freezing applications
 - top mounted fans

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



Ammonia and Brine refrigerant is not covered by Eurovent certification

Design pressure

Refrigerant	Max working pressure (bar)
HFC	33
NH ₃	30
CO ₂	33, 40, 60
Brine	10

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

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.

Code description

ID	B	45	1	-	A	C	-	E	X	33	AL	7	*	5	-	*	D	FRH
1	2	3	4		5	6		7	8	9	10	11	12	13		14	15	16

- 1** Arctigo industrial air cooler, dual discharge
- 2** Air direction (B=blow-through)
- 3** Fan diameter (45=450 mm, 50=500 mm, 63=630 mm)
- 4** No. fans (1 to 5)
- 5** Tube rows code (A=3, B=4, C=6, D=8)
- 6** Tube material (C=copper, SS=stainless steel)
- 7** Application (E=direct expansion, PB=pumped bottom feed, PT=pumped top feed)
- 8** Refrigerant system (H=HFC, A=ammonia, W=brine, X=CO₂)
- 9** Maximum working pressure
- 10** Fin material (AL=aluminium, EP=precoated aluminium, SWR=sea water resistant aluminium)
- 11** Fin spacing (4=4 mm, 5=5 mm, 6=6 mm, 7=7 mm, 8=8 mm, 0=10 mm and 2=12 mm)
- 12** No. circuits
- 13** Capillary diameter (brine and pump: X; DX: 4, 5 or 6)
- 14** Fan motor code
- 15** Fan type (D or Y= AC 3ph, S=AC 1ph, E=EC)
- 16** Options