



# Alfa Laval Arctigo ID

## Industrial air coolers - dual discharge

### General information & application

Arctigo ID is a wide and flexible range of dual discharge industrial air coolers for both cooling and freezing applications in medium to large cold rooms. This industrial air cooler line is designed to keep fresh and frozen goods refrigerated from +20 to -40 °C, with either high or low humidity content.

The Alfa Laval Arctigo range offers a wide variety of cooler configurations and a long list of options, always allowing to select the best model to suit all applications in industrial cooling installations. Dedicated Arctigo ID models can be configured for sensitive applications such as agricultural storage.

Refrigerants	all H(C)FC, ammonia, brine, CO <sub>2</sub>
Capacities (SC2)	3 up to 110 kW
Air volume	4,000 up to 50,000 m <sup>3</sup> /h.

### Standard features

- Finned coil
  - 3 coil block modules
  - 3, 4, 6 or 8 tube rows deep
  - Tubing ø 5/8" Cu ripple fin, smooth Cu tubing for brine or smooth stainless steel.
  - Tube pitch 50 mm square.
  - Corrugated Alu-fins
  - Fin spacings 4, 5, 6, 7, 8, 10 and 12 mm.
- 1 to 5 AC or EC fans, ø 450, 500 & 630mm, blowing through the coil. 2-Speed AC/EC fan motors 400/50-60/3 or EC 230/50-60/1.  
Fan motors with dynamically and statically balanced external rotors, protection grade IP54 or IP55. Integrated thermo contacts (Clickson) provide reliable protection against thermal overload.
- Corrosion resistant materials: coil frame and casing pre-galvanized sheet steel, epoxy coated RAL 9002. All fixing materials stainless steel.
- Hinged side panels.
- Hinged drip tray, vertical drains ø1½" BSP ext.
- Fitted with schröder valve on the suction connection for testing purposes.



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- Sufficient room for fitting the expansion valve inside.
- Suitable for dry expansion or pumped system.
- Stickers indicate fan direction and refrigerant in/out.
- Delivery in mounting position. Coolers are mounted on wooden beams. Installation can take place with use of a forklift.

### Benefits

- Application based air cooler design to secure product quality.
- Excellent sound performance for working room application.
- Advanced product selection software available.
- Heavy duty coil & casing materials, resulting in a long operational product life.
- Exceptionally wide & versatile cooler range.
- Eurovent certified performance (HFC DX models only)
- Easy-install.
- Energy efficient.
- Low defrost frequency thanks to square tube pitch configuration.
- Low total cost of ownership.
- Two-year product guarantee.
- Easy access to additional on-line product information (QR code)



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## Optional features

- 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 defrost systems
  - Hot glycol defrost - heavy (HW2)
- Fan ring heater (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 aluminium PN16 or stainless steel PN (F)  
*Flanges for brine models only*
- Stainless steel casing and frame (SSC)
- Reheating coil (RH)  
*Two additional tube rows with separated fins and connection tubes. Only for 3, 4 and 6 tube rows models.*
- Switch on/off (SW)  
*Switch for each fan.*
- Fan motors wired to connection box (CB)
- Central internal connection box wired to a single external switch (CB1)
- - Draw-through fans for blast freezing applications.  
- Top mounted fans  
*On special request only.*

## Design pressure

Refrigerant application	Design pressure
HFC	33 bar
Ammonia	30 bar
CO <sub>2</sub>	33, 40, 50, 60 bar
Brine	10 bar

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

## Code description

ID	B	3	5	-	2	8	CU	-	E	-	50	AL	-	7.0	-	2H-5	-	FA04A	-	D	FRH
1	2	3	4		5	6	7		8		9	10		11		12		13		14	15

- Alfa Laval Arctigo industrial air cooler - dual discharge
- Air direction (B=blow-through)  
Draw-through execution (D) available on special request.
- Cooler module size (1, 2, 3)
- Number of fans (1 to 5)
- Coil geometry (2=square)
- Tube rows in air direction (3, 4, 6 or 8 rows)
- Tube material (CU=copper, SS=stainless steel)
- Refrigerant system (E=DX, W=brine, X=CO<sub>2</sub>, PB=pumped bottom feed, PT=pumped top feed)
- Maximum working pressure
- Fin material (AL=aluminium, EP=precoated aluminium, SWR=sea water resistant aluminium)
- Fin spacing (4, 5, 6, 7, 8, 10 and 12 mm)
- Circuiting code (2H, 1H, 1/2H ... 2D, 1D, 1/2D...)
- Fan motor code
- Fan connection
- Option code (see option list)

## Selection

Selection and pricing is to be performed with our Alfa Laval air heat exchanger selection software. Selection output includes all relevant technical data and dimensional drawings.

## Certifications

Eurovent certified performance only applies to models included in the scope of the programme. Check certificate validity on [www.eurovent-certification.com](http://www.eurovent-certification.com). The Alfa Laval quality system is in accordance with ISO 9001. All products are manufactured according to PED.



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## How to contact Alfa Laval

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