

## Arctigo



### Benefits

- Application based air cooler design to secure product quality
- Excellent sound performance for working room application
- Heavy duty coil & casing materials, resulting in a long operational product life
- Exceptionally wide & versatile cooler range.
- Eurovent certified performance (HFC & CO<sub>2</sub> models)
- Easy-install
- Energy efficient
- Low defrost frequency thanks to square tube pitch configuration
- Low total cost of ownership
- Two-year product guarantee
- Advanced product selection software available
- Easy access to additional on-line product information

### 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 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	HFC, 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  $\varnothing$  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,  $\varnothing$  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 9003. All fixing materials stainless steel.
- Hinged side panels.
- Hinged drip tray, vertical drains  $\varnothing$  1½" BSP ext.
- Fitted with schröder valve on the suction connection for testing purposes (brine units excluded).
- 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.



## 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 defrost systems:
  - Hot glycol 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

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

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## Design pressure

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

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 Alfa LU-VE air heat exchanger selection software Plair. Selection output includes all relevant technical data and dimensional drawings.



Plair



Arctigo ID

## 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		15	16	17

- 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 (CU=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=CO<sub>2</sub>)
- 9 Maximum working pressure
- 10 Fin material (AL=aluminium, AP=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

