



Arctigo IS

Industrial air coolers - single discharge

General information & application

Arctigo IS is a wide and flexible range of single 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 +30 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. Arctigo cooler models are available for dedicated applications such as agricultural storage (model ISB-F), airsock application or shock cooling.

Refrigerants	all H(C)FC, ammonia, brine
Capacities (SC2)	3 up to 230 kW
Air volume	3000 up to 74000 m ³ /h.

Standard configuration

- Finned coil
 - 7 coil block modules
 - 3, 4, 6, 8 or 10 tube rows deep
 - Tubing Cu ripple fin \varnothing 5/8" (smooth tubing for brine) or smooth stainless steel tubing
 - Tube pitch 50 mm square or 48 mm triangular.
 - Corrugated Alu-fins
 - Fin spacings 4, 5, 6, 7, 8, 10 and 12 mm.
- 1 to 8 Fans, \varnothing 450 mm up to \varnothing 1000 mm, drawing or blowing trough the coil. 2-Speed fan motors 400/50-60/3 or 230/50-6-1 (\varnothing 450 only), two noise levels (Δ /Y). AC/EC Fan motors with dynamically and statically balanced external rotors, manufactured in accordance with VDE 0530/12.84 IP54 class F. 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.
- Hinged drip tray, drain(s) 40 mm PVC connection, freely adjustable into either horizontal or vertical position.



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- Fitted with schröder valve on the suction connection for testing purposes.
- Refrigerant connections right or left (L=default).
- 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.

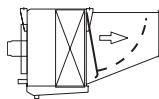


Design pressure

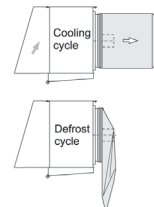
Design pressures H(C)FC DX 33 bar, ammonia pump 27 bar, or brine 6 bar. Higher design pressures on request. Each heat exchanger is leak tested with dry air and finally supplied with a dry air pre-charge.

Options

- Electric defrost systems
 - Electric defrost in drip tray (E1)
 - Electric defrost - heavy (E2)
 - Electric defrost - light (E4)
 - Electric defrost diffusor (E5)
- 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)
- Other defrost systems
 - Hotgas in drip tray, light electric defrost in coil (HG1E)
 - Hotgas in drip tray, heavy electric defrost in coil (HG2E)
- Fan ring heater (FRH)
- Stainless steel casing and frame (SSC)
- Suction hood 90° (SH1)
- Suction hood 45° (SH2)
- Diffusor (D)
- Diffusor with defrost damper (DO)
- Fan casing 45° (FC2)
- Fan casing 90° (FC1)



- Mounting feet (MF)
- Airsock adapter ring (SR)
- Drip tray insulation 10 mm styropor+cladding (I2)
- Safety switch (SW)
- Coil protection
 - Epoxy coated fins (EP)
 - Sea water resistant aluminium fins (SWR)
Fin spacings up to 8 mm
- Flanges (F)
For brine models only.
- Shut-up sock (S)



Selection

Selection and pricing is to be performed with Alfa Laval air heat exchanger selection software. Selection output includes all relevant technical data and dimensional drawings. Please contact our sales organization for details and full technical documentation.

Code description

IS	B	5	4	2	10	SS	E	AL	7.0	2H-5	L	FA04A	00	ISM
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

- 1 Arctigo industrial air cooler - single discharge
- 2 Air direction (B=blow through, D=draw through)
- 3 Cooler module size (1 to 7)
- 4 Number of fans (1 to 8)
- 5 Coil geometry (1=4816 triangular, 2=5050 square)
- 6 Tube rows in air direction (3, 4, 6, 8 or 10 rows)
- 7 Tube material (CU=copper, SS=stainless steel)
- 8 Refrigerant system (E=DX, W=brine, PB=ammonia pumped)
- 9 Fin material (AL=aluminium, EP=epoxy coated Aluminium, ASW=sea water resistant aluminium)
- 10 Fin spacing (4, 5, 6, 7, 8, 10 and 12 mm)
- 11 Circuiting code (2H, 1H, 1/2H ... 2D, 1D, 1/2D...)
- 12 Refrigerant connection side (R=right, L=left - fan side view)
- 13 Fan motor code
- 14 Revision code
- 15 Option code (see option list)

Benefits

- Application based air cooler design to secure product quality.
- Advanced product selection software available.
- Heavy duty coil & casing materials, resulting in a long operational product life.
- Exceptionally wide & versatile cooler range.
- Reliable performance, Eurovent certified.
- 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)



How to contact Alfa Laval

Up-to-date Alfa Laval contact details for all countries are always available on our website at www.alfalaval.com

