

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 +10 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, airsock application or shock cooling.


Refrigerants	HFO/HFC, ammonia, brine, CO ₂
Capacities (SC2)	3 up to 250 kW
Air volume	3,000 up to 120,000 m ³ /h.

Standard configuration

- Finned coil
 - 8 coil block modules
 - 3, 4, 6, 8 or 10 tube rows deep
 - Tubing ø 5/8" Cu ripple fin, smooth Cu tubing for brine or smooth stainless steel.
 - 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, ø 450 mm up to ø 1000 mm, drawing or blowing through the coil. 2-Speed fan motors 400/50-60/3 or 230/50-60/1 (ø 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. All fixing materials stainless steel.
- Hinged side panels and drip tray, drain(s) 1½" BSP ext.
- Fitted with schröder valve on the suction connection for testing purposes.



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- 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.



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.
- Eurovent certified performance (for models incl. in scope)
- 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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Options

- Electric defrost systems
 - 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)
- Other defrost systems
 - Water defrost (W1)
 - Water defrost - low temperatures (W2)
 - Hot water/glycol defrost (HW)
- Hinged fan ring (HF)
- Inlet/discharge hood 90/45° (H1/H2)
- Driptray insulation 13 mm styropore + cladding (I2)
- Drain adapter kit
Adapter, rubber O-ring and 45° 40 mm PVC connection, freely adjustable into either horizontal or vertical position.
- Streamer (ST)

- Shut-up sock (S)
- Fan casing 90/45° (FC1/FC2)
- Airsock adapter ring (SR)
- Coil protection
 - Pre-coated aluminium (EP)
 - AlMg2.5 sea water resistant aluminium fins (SWR)
- Slip-on flanges aluminium PN16 for copper tubes models or stainless steel PN16 stainless steel tubes models (F)
Flanges for brine models only
- Dual fin spacing (DF)
Available on request
- Stainless steel casing and frame (SS)
- Mounting feet (MF)
- Fan ring heater (FRH)
- Switch ON/OFF (SW)
- All fan motors wired to central connection box (CB)

Design pressure

Refrigerant application	Design pressure
HFO/HFC	33 bar
Ammonia	30 bar
CO ₂	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.



Code description

IS	B	3	5	-	2	s	H	8	CU	E	X	60	AL	7	-	2H5	-	*	-	D	-	L	FRH
1	2	3	4		5	6	7	8	9	10	11	12	13	14		15		16		17		18	19

- 1 Arctigo industrial air cooler - single discharge
- 2 Air direction (B=blow-through, D=draw-through)
- 3 Cooler module size (1 to 2)
- 4 Number of fans (1 to 8)
- 5 Coil geometry (1=triangular, 2=square)
- 6 Short coil module (s)
- 7 Fan speed (H=high pressure fan)
- 8 Tube rows in air direction (3, 4, 6, 8 or 10 rows)
- 9 Tube material (CU=copper, SS=stainless steel)
- 10 Application (E=direct expansion, PB=pumped bottom feed, PT=pumped top feed)
- 11 Refrigerant system (H=HFO/HFC, A=ammonia, W=brine, X=CO₂)
- 12 Maximum working pressure
- 13 Fin material (AL=aluminium, EP=precoated aluminium, SWR=sea water resistant aluminium)
- 14 Fin spacing (4, 5, 6, 7, 8, 10 and 12 mm)
- 15 Circuiting code (2H, 1H, 1/2H ... 2D, 1D, 1/2D...)
- 16 Fan motor code
- 17 Fan connection
- 18 Refrigerant connection side (R=right, L=left - fan side view)
- 19 Option code

Selection

Selection and pricing is to be performed with our Alfa LU-VE 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. The Alfa LU-VE quality system is in accordance with ISO 9001. All products are manufactured according to PED.



How to contact Alfa LU-VE

Up-to-date Alfa LU-VE contact details for all countries are always available on our website at alfa.luvegroup.com