



Airmax II

Industrial air cooler

General information & application

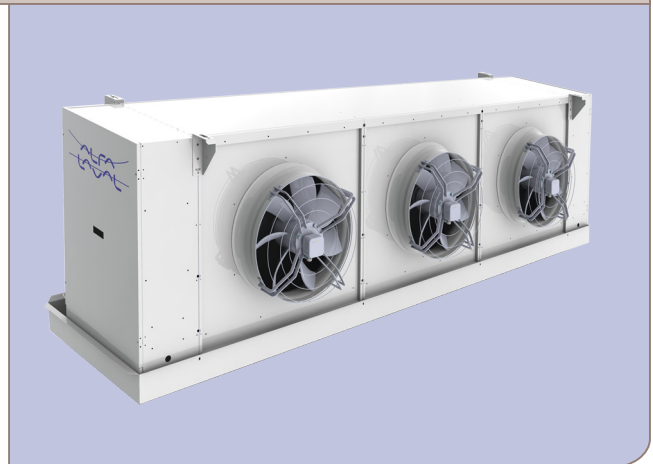
The Airmax II series is a wide and flexible range of industrial air coolers for both cooling and freezing applications in medium to large cold rooms. This industrial line is designed to keep fresh and frozen goods refrigerated from +30 to -40 °C, with either high or low humidity content.

The Airmax II range offers a wide variety of coil configurations, fan diameters, fin spacings and a long list of options, always allowing to select the best model to suit all applications in industrial cooling installations.

Refrigerants	all H(C)FC, ammonia, brine, CO ₂
Capacities (SC2)	5 up to 180 kW
Air volume	7300 up to 126100 m ³ /h.

Standard configuration

- Finned coil
 - H(C)FC Inner grooved Cu tubing ø 12 mm, triangular tube pitch
 - Brine Smooth Cu tubing ø 16 mm, triangular tube pitch
 - NH₃ + CO₂ Smooth stainless steel tubing ø 16 mm, square tube pitch
 - Corrugated Alu-fins
 - Fin spacings 4, 5, 6, 7, 8, 10 and 11 mm.
- 1 to 5 Fans, ø 500 mm up to ø 800 mm, drawing trough the coil. 2-Speed fan motors 400/50-60/3 or 230/50-60/1 (fan ø 500 mm only), two noise levels ($\Delta\gamma$). 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 AluZinc, casing pre-galvanized sheetsteel, epoxy coated RAL 9002.
- Large, deep drip tray allows fast discharge of defrost water.
- Mounting supports have two different positions (ceiling or space) to enable installation of a water defrost cassette.



Airmax II

- Hinged drip tray & side plates for easy installation and maintenance.
- Fitted with schröder valve on the suction connection for testing purposes.
- 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, CO₂ pump 50 bar or brine 6 bar. Higher design pressures on request. Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge.



Large drip tray

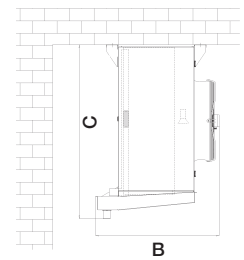
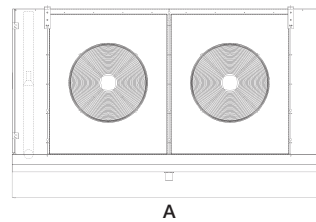
Options

- Defrost systems
 - Electric defrost (E)
 - Light electric defrost (LE)
 - Hotgas defrost in coil & drip tray (HG, DX only)
 - Water defrost (W)
 - Combined defrost systems
- Drip tray insulation (IS)
Not combined with electric defrost
- AlfaStreamer (ST, only for 500/630/800 fans)
- Air sock adapter ring (SR)
- Fan ring heater (FH)
- Fan motors wired to a terminal box (CB)
- Safety switch (SW)
- Stainless steel 304 casing & coil frame (SS)
- Floor mounting supports (Feet)
- Epoxy coated fins (EP)
- Coil cataphoresis treatment (CF)

Model	Fans no.	Dimensions (mm)		
		A	B	C
501	1	1430	807	945
502	2	2280	807	945
503	3	3130	807	945
504	4	3980	807	945
505	5	4830	807	945
561	1	1580	1003	1200
562	2	2580	1003	1200
563	3	3580	1003	1200
564	4	4580	1003	1200
565	5	5580	1003	1200
631	1	1580	1025	1441
632	2	2580	1025	1441
633	3	3580	1025	1441
634	4	4580	1025	1441
635	5	5580	1025	1441
801	1	1780	1145	1684
802	2	2980	1145	1684
803	3	4180	1145	1684
804	4	5380	1145	1684

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

ILB	A	L	50	2	C	D	400V	PB	CR	GP	E	-	AL	10.0	SS	IS	L
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17

- 1 Airmax series (ILB, ILG, ILR)
- 2 Refrigerant system (E = H(C)FC dry expansion, W=water/glycol, H=CO₂ pumped, A=ammonia)
- 3 Noise level (H=high, L=low)
- 4 Fan diameter (50=500, 56=560, 63=630, 80=800 mm)
- 5 Number of fans (1 to 5)
- 6 No. of tube rows (A=4, B=5, C=6, D=7)
- 7 Phases (S= single phase, D= 3 phases Δ connection)
- 8 Motor voltage (230V, 400V)
- 9 Pump system (PB=bottom, PT=top)
- 10 Packing (CR=crate)
- 11 Casing material (GP= galv. steel painted, SS= stainless steel)
- 12 Defrost system (A= air, E= electric defrost, HG= hotgas, W= water)
- 13 Fin material/coating (AL=aluminium, EP= epoxy coated aluminium, CA=cataphoresis)
- 14 Fin spacing (8.0, 10.0 and 11.0 mm)
- 15 Tube material (Cu=copper, SS=stainless steel)
- 16 Extra options (SR=airsock ring, FH=fan ring heater, IS=insulated drip tray)
- 17 Connection side (L=left, R=right)

Benefits

- Exceptionally wide & versatile cooler range, designed for all working conditions.
- Advanced product selection software available.
- Heavy duty coil & casing materials.
- Reliable performance, Eurovent certified.
- Long air throw
- Energy efficient.
- Low total cost of ownership.
- Two-year product guarantee.

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

