



ZLA

Industrial air cooler FeZn

General information & application

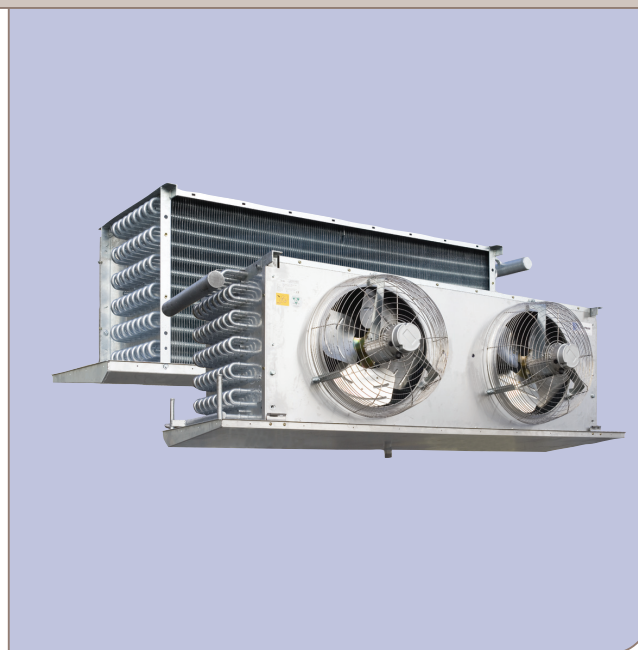
The Helpman ZLA series is a wide and flexible range of heavy-duty industrial air coolers for both cooling and freezing applications in medium to large cold rooms. Suitable for a wide range of applications, with a special focus on meat products.

Evaporating temp.	+5 to -40 °C
Refrigerants	ammonia (R-717), brine
Capacities (SC2)	4 up to 125 kW*
Air volume	4,000 up to 63,000 m ³ /h.

* Higher capacities on request

Standard configuration

- Finned coil
 - 7 coil block modules
 - 4, 6 or 8 tube rows deep
 - Steel tubing \varnothing 22 mm
 - Tube pitch 60 x 60 mm square
 - Steel fins
 - Fin spacings 6, 8, 10 and 12 mm
 - Coil galvanised acc. NEN-ISO 1461
- 1-4 Fans, drawing through the coil, available in a range of different executions. Diameters \varnothing 508 mm up to \varnothing 800 mm. Enclosed design spray-tight fan motors, protection class IP55. Motors are equipped with a thermal safety device in the windings, connected to separate terminals in the box.
- Corrosion resistant casing material: Aluminium/Senzimir.
- Hinged driptray with vertical drain(s) 1 1/4" BSP male.
- Suitable for ammonia refrigerant, pumped system, DX or gravity flow.
- Refrigerant connections on right hand side (fan side view).



ZLA

- 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.

Test

Design pressure 27 bar, higher design pressures on request. Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge. Brine coolers are tested at 6 bar.

Options

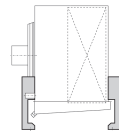
- Hot gas coil in drip tray (G)
- Horizontal drip tray drain(s) (H)
- Enclosed side panels (Z)
- Dry expansion execution (DX)
- Fan ring heater (FRH)
- Drip tray insulation
 - Armaflex (or alike) 10 mm (I 1)
 - Styropore 10 mm + cladding (I 2)
 - Foamglass 25 mm + cladding (I 3)
 - Purane + polyester cladding (I 4)

I1, I2 & I4 drip tray insulation not in combination with electric defrost. Foamglass (I3) possible for use with electric defrost.

- Refrigerant connections (L / R)

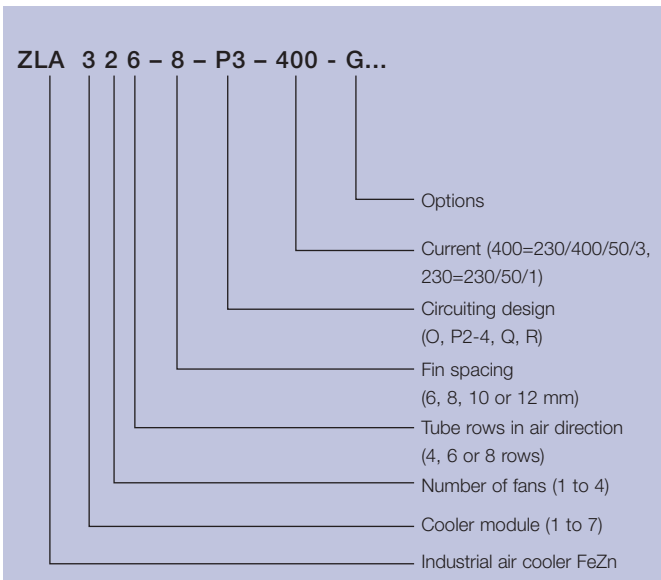


- Mounting feet (M)
For floor mounting, ZLA coolers can be equipped with hot dip galvanized steel mounting feet.

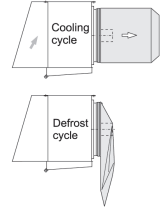


- Isolating switch, mounted (ISM)

Code description



- Shut up® system (S + V)
The system comprises a shut-up sock and an inlet hood to enhance defrost efficiency.



- Secondary refrigerant
All models available for brine application. Standard steel welding connections, other connections (thread/flange) on request.

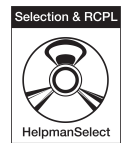
- Special fan motors
 - Fans for extra external pressure 125 Pa (modules 5, 6 and 7 only)
 - Variable fan speed motors
 - Alternative electrical supplies

- Built in heater coil sections

- Stainless steel 304/316 casing

Air cooler selection & dimensions

Air cooler selection and RCPL pricing is to be performed with "HelpmanSelect" Air Heat Exchanger selection software. Selection output includes all relevant technical data and dimensional drawings.



Please contact our sales organisation for full technical documentation.

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
- Easy-install.
- Energy efficient.
- Low defrost frequency thanks to square tube pitch configuration.
- Low total cost of ownership.
- Two-year product guarantee.

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Alfa Laval reserves the right to change specification without prior notification.

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

