



# 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 <sup>3</sup> /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

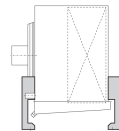
- Hot gas coil in drip tray (G)
- Horizontal drip tray drain(s) (H)
- Enclosed side panels (Z)
- Dry expansion execution (DX)
- Fan ring heater (FRH)
- Drip tray insulation
  - Armaflex (or alike) 10 mm (I 1)
  - Styropore 10 mm + cladding (I 2)
  - Foamglass 25 mm + cladding (I 3)
  - Purane + polyester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

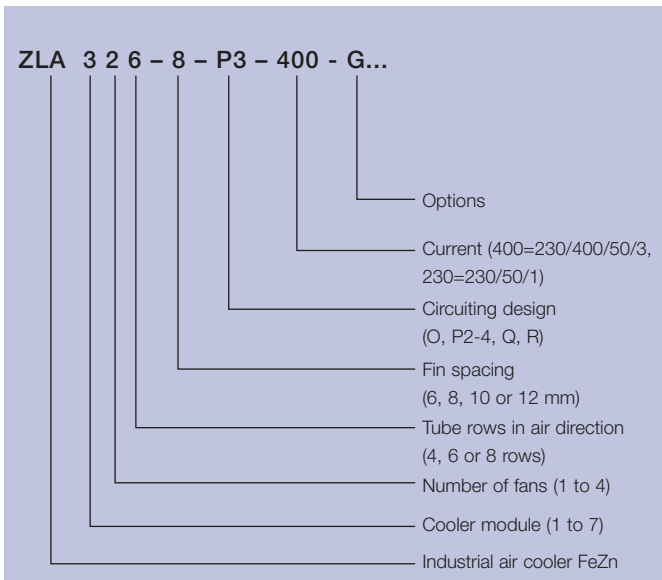


- Mounting feet (M)  
For floor mounting, ZLA coolers can be equipped with hot dip galvanized steel mounting feet.

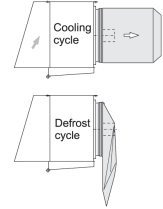


- Isolating switch, mounted (ISM)

## 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](http://www.alfalaval.com)

