



THOR-F

Agricultural storage cooler

General information & application

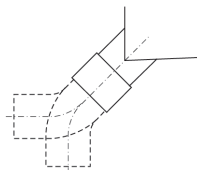
The Helpman THOR-F air cooler series has been specifically designed for the refrigerated storage of agricultural produce. These coolers are characterised by an optimised capacity/air volume ratio and a relatively low profile. All models have been optimised for air temperatures around 0 °C and a small temperature difference to avoid product dehydration.

Evaporating temp.	+5 to -10 °C
Refrigerants	all H(C)FC, brine, CO ₂
Capacities (SC2)	18 up to 52 kW*
Air volume	12,800 up to 36,000 m ³ /h

* Higher capacities on request

Standard configuration

- Finned coil
 - 2 coil block modules
 - 6 tube rows deep
 - Cu tubing ø 5/8"
 - Tube pitch 50 x 50 mm square
 - Corrugated Alu-fins
 - Fin spacings 7 mm.
- 3-7 Fans, blowing through the coil. Diameters Ø 406 mm or Ø 457 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.
- Fans with elevated external pressure to ensure optimised air distribution.
- Corrosion resistant casing material: Aluminium/Senzimir, white epoxy coated (RAL 9003).
- Hinged, enclosed end covers.
- Hinged driptray, drain(s) 32 mm PVC connection, freely adjustable into either horizontal or vertical position. (please use illustration)



THOR-F

- Refrigerant distribution optimised to refrigerant applied.
- Refrigerant connections on right hand side (fan side view).
- Fitted with schröder valve on the suction connection for testing purposes.
- 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.

Test

Design pressure 33 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

- Defrost systems
 - Hot gas coil in driptray (G1)
 - Electric defrost (E1, E4)

Electric defrost for air coolers with pumped refrigerant circulation or in glycol execution on special request only.

- Driptray 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 driptray insulation not in combination with electric defrost. Foamglass (I3) possible for use with electric defrost.

- Refrigerant connections (L / R) (fan side view) 
- Isolating switch, mounted (ISM)
- Secondary refrigerant
All models available for brine application.
Standard connections Cu soldering, other connections (thread/flange) on request.

- Special fan motors
 - Alternative electrical supplies
- Built in heater coil sections
- Stainless steel 304/316 casing

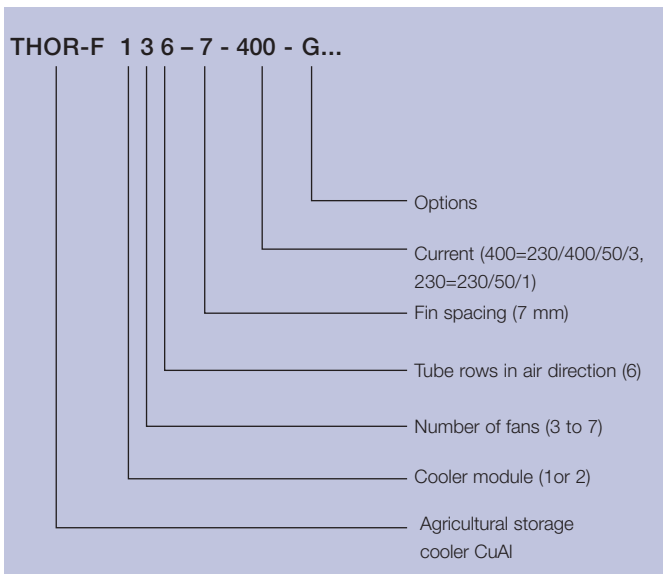
Air cooler selection & dimensions

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.

Code description



Benefits

- Application based air cooler design to secure product quality.
- Elevated external fan pressure to ensure optimised air distribution.
- All models optimised for air temperatures around 0 °C and a small temperature difference to avoid product dehydration.
- Advanced product selection software available.
- Heavy duty coil & casing materials, resulting in a long operational product life.
- Reliable performance, Eurovent certified.
- Easy-install.
- Energy efficient.
- 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



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