



# SOLAR ZA / ZZ

## Air-cooled ammonia condensers

### General information & application

Fincoil SOLAR ZA/ZZ condensers have been designed for industrial refrigeration plants in which R-717 is used as refrigerant. The SOLAR ammonia range is available for both horizontal and vertical air flow.

Refrigerants	R-717 ammonia
Capacities*	66 up to 948 kW

\* R-717, 15 K TD

### Coils

**ZA** Manufactured from electrogalvanised steel tubes  $\varnothing$  17 mm and Alu-fins, tube pitch 64 x 32 mm. Standard fin spacing is 2.5 mm, fin spacings 3.0 or 4.0 mm optional

**ZZ** Hot dip galvanized steel coil, tubes  $\varnothing$  20 mm, tube pitch 57.71 x 50 mm. Standard fin spacing is 3.1 mm, 4.5 mm optional.

### Casing

Sturdy, monocoque structure made of hot dip galvanized steel. Other parts are stainless steel or efficiently corrosion protected material.

### Fan motors

2 to 12 axial fans available in a range 5 fan speed executions, diameters 914 or 1240 mm. Enclosed design fan motors, protection class IP-54, class F insulation.

Motors are wired to the fans' safety switches (IP65). All fans have corrosion resistant fan blades and fan guards.

### Certifications

The Alfa Laval Vantaa quality system is in accordance with ISO 9001. All products are manufactured according to CE and PED rules.



SOLAR ZA/ZZ

### Test

Design pressure 26 barg. Each heat exchanger is leak tested with dry air.

### Options

- Multi-circuiting (J#)
- Subcooling circuits
- Water jet system to provide a considerable capacity increase to cope with short-term peak loads. (D)
- Service hatches (L)
- Extra high mounting feet 2m (F)
- Vibration dampers (S)
- Epoxy coated fins (ZA only)

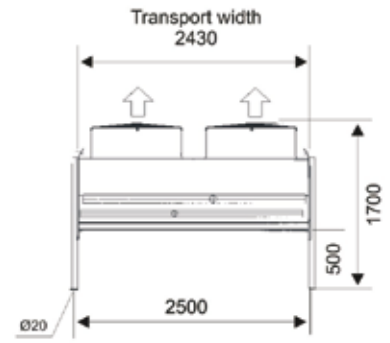
### Condenser selection & dimensions

Condenser selection is to be performed with our 'FincoilSelect' Air Heat Exchanger selection software. Selection output includes all relevant technical data and dimensional drawings.

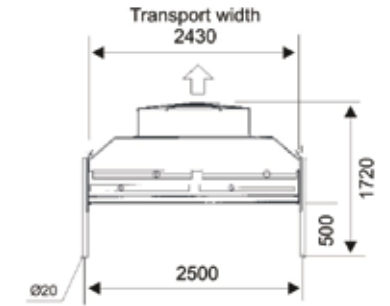


## Dimensions & weights

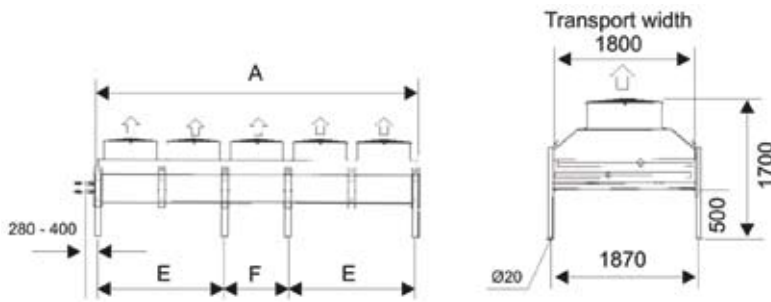
coil size	dimensions (mm)			fixing points	net weight (kg)		shipping volume (m <sup>3</sup> )
	A	E	F		ZA	ZZ	
1	2240	2240		4	600	1270	5.9
2	2240	2240		4	850	1540	5.9
3	3360	3360		4	850	1860	8.3
4	3360	3360		4	930	2270	8.3
5	4480	2240		6	1130	2470	10.7
6	4480	2240		6	1230	3020	10.7
7	5600	2240	1120	8	1410	3090	13.1
8	5600	2240	1120	8	1530	3760	13.1
9	4950	1650	1650	8	1570	3600	17.6
10	4950	1650	1650	8	1720	4420	17.6
11	6600	3300		8	2040	4740	23.0
12	6600	3300		8	2230	5840	23.0
13	8250	3300	1650	8	2630	5910	28.4
14	8250	3300	1650	8	2790	7290	28.4
15	9900	3300	3300	8	3020	7080	33.8
16	9900	3300	3300	8	3310	8720	33.8



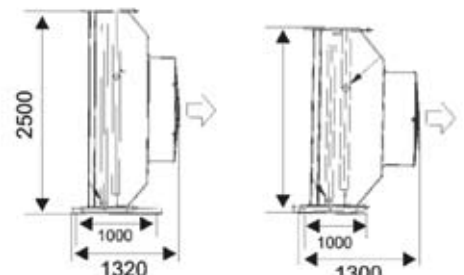
9 - 16 ... 16 - 12 H



9 - 3 ... 16 - 6 H



Sizes 1 - 8 H

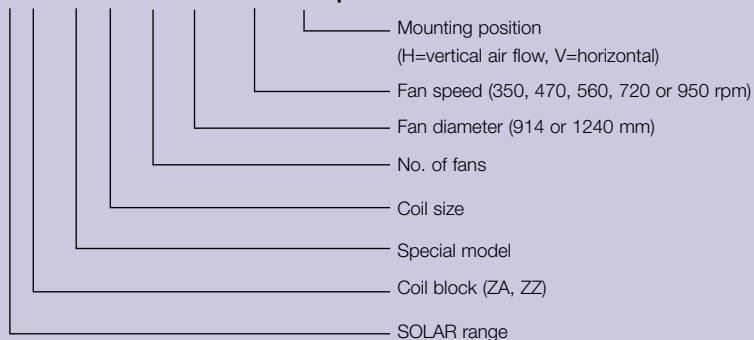


9 - 16 V

1 - 8 V

## Code description

### SZA - E - 4 - 3 - 914 - 950 - H - Options



## Benefits

- Heavy duty coil & casing materials, resulting in a long operational product life.
- Floating coil construction to compensate for thermal stress.
- Available with water spray system to cope with short-term peak loads.
- Excellent sound characteristics
- Reliable performance.
- Easy-install & maintenance.
- Energy efficient - low total cost of ownership.
- One full year product guarantee.

ERC00136EN 0809

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)



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