



# AlfaSolar SC

## Air-cooled condensers

### General information & application

AlfaSolar condensers have been designed for commercial, industrial and AC applications. With a wide range of sound pressure level alternatives, these units are particularly suited to demanding, noise sensitive environments.

|                          |                  |
|--------------------------|------------------|
| Refrigerants             | all H(C)FC       |
| Capacities*              | 39 up to 1796 kW |
| * R-404A, 15 K TD, EN327 |                  |

### Coil

Coil manufactured from copper tubes  $\varnothing$  12.7 mm and corrugated Alu-fins, tube pitch 35 x 30.31 mm. Standard fin spacing is 2.3 mm.

### Casing

Casing and framework of corrosion resistant, hot dip galvanised sheet steel.

### Fan motors

1 to 14 axial AC or EC fans available in a range of different fan speed executions, diameters 914 or 1240 mm. Enclosed design fan motors, protection class IP-54, class F insulation. AC motors are wired to the fans' safety switches (IP65). All fans have corrosion resistant fan blades and fan guards.

### Design pressure

Design pressure 32 bar. Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge.

### Transport

Standard vertical transport position, fixed on a wooden pallet.

### Options

- Sub cooling section (SC)
- Multi-circuiting (J#)
- Copper (CU) or epoxy coated (EP) fins
- Fin spacing 2.5 mm and 3.2 mm
- Water spraying system (KW)
- Vibration dampers (VD)
- Step control + options
- Fan control with frequency converter (SVC) + options



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- Casing epoxy painted grey RAL 7040 in four thicknesses (GPU=MU, GP1=M1, GP2=M2, GP3=M3)
- EMC cables, glands & safety switches for each fan (EMC)
- Motors with thermal overload Klixon switches (THC)
- Motor heater (MH)
- Fans wired to connection box (TB)
- Forced draught (FD)
- Packing: pallet (P) or container (CN)

### Benefits

- Heavy duty coil & casing materials, resulting in a long operational product life.
- Floating coil construction to compensate for thermal stress.
- Plain profile fins make the coil less prone to fouling and easier to clean.
- Energy efficient - low total cost of ownership.
- Excellent sound characteristics
- Reliable performance, Eurovent certified.
- Easy-install & maintenance.
- Two year full product guarantee.
- Easy access to additional on-line product information (QR code)



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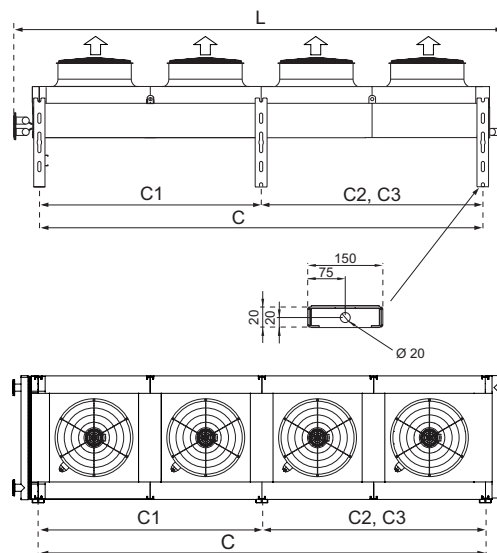
## Dimensions & weights

| unit     | dimensions (mm) |       |       |      |      | fixing | weight | int.vol. | surface        |
|----------|-----------------|-------|-------|------|------|--------|--------|----------|----------------|
| size     | L               | C     | C1    | C2   | C3   | points | kg     | l        | m <sup>2</sup> |
| SCM-1A-3 | 2000            | 1400  | 1400  |      |      | 4      | 240    | 32       | 157            |
| SCM-1A-4 | 2000            | 1400  | 1400  |      |      | 4      | 260    | 40       | 210            |
| SCM-1B-4 | 2400            | 1800  | 1800  |      |      | 4      | 320    | 49       | 269            |
| SCM-2A-3 | 3400            | 2800  | 2800  |      |      | 4      | 480    | 61       | 314            |
| SCM-2A-4 | 3400            | 2800  | 2800  |      |      | 4      | 520    | 78       | 419            |
| SCM-2B-4 | 4200            | 3600  | 3600  |      |      | 4      | 640    | 96       | 539            |
| SCM-3A-3 | 4800            | 4200  | 4200  |      |      | 4      | 720    | 85       | 471            |
| SCM-3A-4 | 4800            | 4200  | 4200  |      |      | 4      | 780    | 109      | 629            |
| SCM-3B-4 | 6000            | 5400  | 5400  |      |      | 4      | 960    | 136      | 808            |
| SCM-4A-3 | 6200            | 5600  | 2800  | 2800 |      | 6      | 960    | 113      | 629            |
| SCM-4A-4 | 6200            | 5600  | 2800  | 2800 |      | 6      | 1040   | 145      | 838            |
| SCM-4B-4 | 7800            | 7200  | 3600  | 3600 |      | 6      | 1280   | 180      | 1078           |
| SCM-5A-3 | 7600            | 7000  | 2800  | 4200 |      | 6      | 1200   | 136      | 786            |
| SCM-5A-4 | 7600            | 7000  | 2800  | 4200 |      | 6      | 1300   | 176      | 1048           |
| SCM-5B-4 | 9600            | 9000  | 3600  | 5400 |      | 6      | 1600   | 229      | 1347           |
| SCD-2B-3 | 4200            | 3600  | 3600  |      |      | 4      | 920    | 112      | 606            |
| SCD-2B-4 | 4200            | 3600  | 3600  |      |      | 4      | 990    | 151      | 808            |
| SCD-2C-4 | 4800            | 4200  | 4200  |      |      | 4      | 1110   | 171      | 943            |
| SCD-3B-3 | 6000            | 5400  | 5400  |      |      | 4      | 1370   | 164      | 909            |
| SCD-3B-4 | 6000            | 5400  | 5400  |      |      | 4      | 1490   | 224      | 1212           |
| SCD-3C-4 | 6900            | 6300  | 6300  |      |      | 4      | 1670   | 254      | 1414           |
| SCD-4B-3 | 7800            | 7200  | 3600  | 3600 |      | 6      | 1830   | 222      | 1212           |
| SCD-4B-4 | 7800            | 7200  | 3600  | 3600 |      | 6      | 1980   | 283      | 1617           |
| SCD-4C-4 | 9000            | 8400  | 4200  | 4200 |      | 6      | 2200   | 323      | 1886           |
| SCD-5B-3 | 9600            | 9000  | 3600  | 5400 |      | 6      | 2280   | 267      | 1515           |
| SCD-5B-4 | 9600            | 9000  | 3600  | 5400 |      | 6      | 2470   | 363      | 2021           |
| SCD-5C-4 | 11100           | 10500 | 4200  | 6300 |      | 6      | 2770   | 412      | 2357           |
| SCD-6B-3 | 11400           | 10800 | 3600  | 3600 | 3600 | 8      | 2730   | 331      | 1819           |
| SCD-6B-4 | 11400           | 10800 | 3600  | 3600 | 3600 | 8      | 2970   | 422      | 2425           |
| SCD-6B-5 | 13200           | 10800 | 3600  | 3600 | 3600 | 8      | 3200   | 514      | 3031           |
| SCD-6B-6 | 11400           | 10800 | 3600  | 3600 | 3600 | 8      | 3430   | 605      | 3637           |
| SCD-6C-4 | 11400           | 12600 | 4200  | 4200 | 4200 | 8      | 3320   | 482      | 2829           |
| SCD-6C-5 | 13200           | 12600 | 4200  | 4200 | 4200 | 8      | 3590   | 568      | 3536           |
| SCD-6C-6 | 3200            | 12600 | 12600 | 4200 | 4200 | 8      | 3860   | 675      | 4243           |
| SCD-7B-3 | 13200           | 12600 | 3600  | 5400 | 3600 | 8      | 3190   | 376      | 2122           |
| SCD-7B-4 | 13200           | 12600 | 3600  | 5400 | 3600 | 8      | 3460   | 482      | 2829           |
| SCD-7B-5 | 13200           | 12600 | 3600  | 5400 | 3600 | 8      | 3730   | 568      | 3536           |
| SCD-7B-6 | 13200           | 12600 | 3600  | 5400 | 3600 | 8      | 4000   | 674      | 4243           |

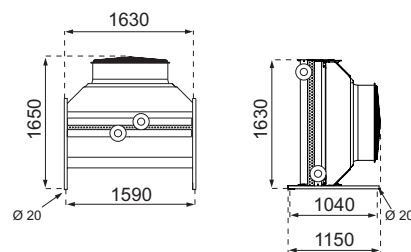
## Code description

|     |   |   |    |   |   |     |   |   |    |    |    |    |    |     |    |    |
|-----|---|---|----|---|---|-----|---|---|----|----|----|----|----|-----|----|----|
| SCD | 6 | B | 09 | L | E | N5Y | 4 | H | GS | P  | *  | -  | AL | 2.1 | CU | *  |
| 1   | 2 | 3 | 4  | 5 | 6 | 7   | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15  | 16 | 17 |

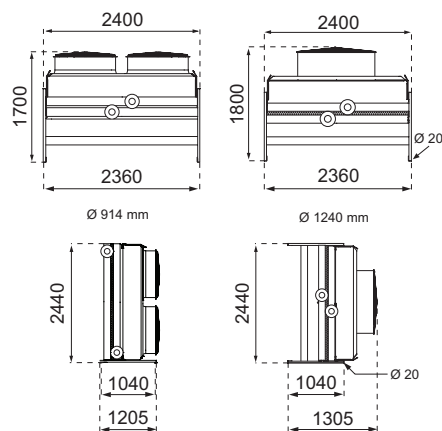
- AlfaSolar condenser
- Unit width (M=narrow, D=wide)
- No. of modules
- Module length (A=1400 mm, B=1800 mm, C= 2100 mm)
- Fan diameter (09=910 mm, 12=1240 mm)
- Fan speed (T=950, S=720, L=560, Q=470, R=350)
- E = EC fan motor
- Power supply (N5Y=3/400/50-Y, N5D=3/400/50-D, N6=3/440/60, N7=3/230/50, N8=3/690/50)
- Tube rows in air direction (3,4,5,6)
- Air flow (H=vertical, V=horizontal)
- Casing material (GS, GP\_U/1/2/3)
- Packaging (P=pallet, CN=container)
- Options
- Fin material (AL=aluminium, EP=epoxy coated, CU=copper)
- Fin spacing (mm)
- Tube material (CU=copper)
- Connection sizes



### Models SCM



### Models SCD



## Selection

Selection and pricing is to be performed with our Alfa Laval air heat exchanger selection software. Please contact our sales organization for details and full technical documentation.

## Certifications

All condenser models are "Eurovent Certify All" certified. The Alfa Laval quality system is in accordance with ISO 9001. All products are manufactured according to CE and PED rules.



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## 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)