



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

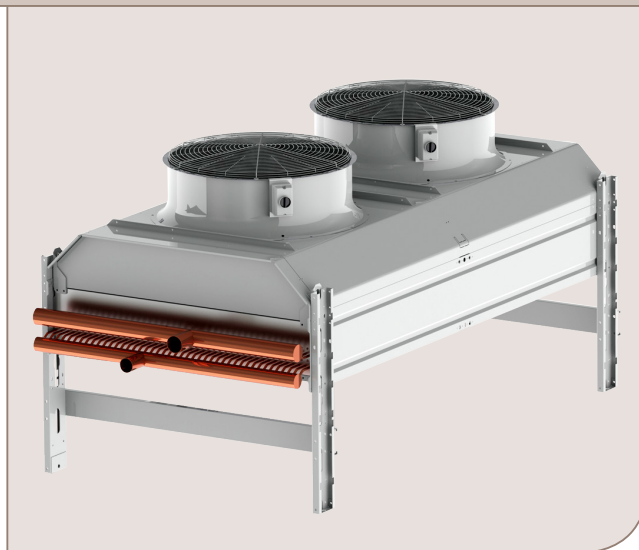
Design pressure 32 bar. Each heat exchanger is leak tested with dry air and finally supplied with a nitrogen pre-charge.

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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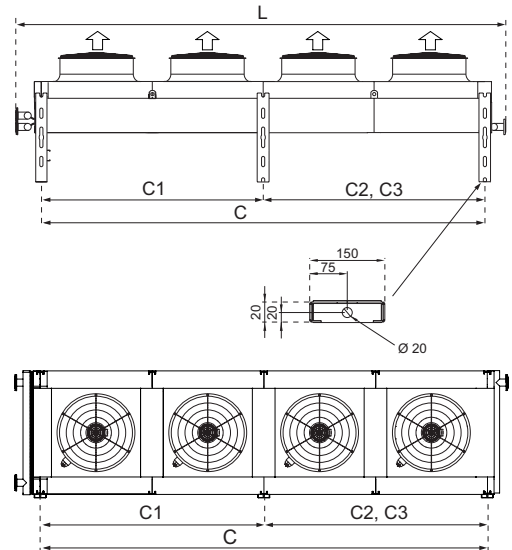
Dimensions & weights

unit	dimensions (mm)					fixing	weight	int.vol.	surface
size	L	C	C1	C2	C3	points	kg	l	m ²
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

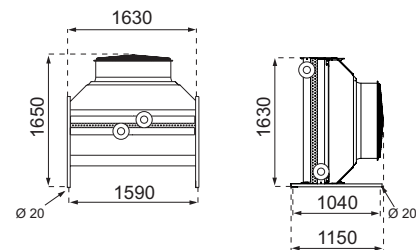
Code description

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

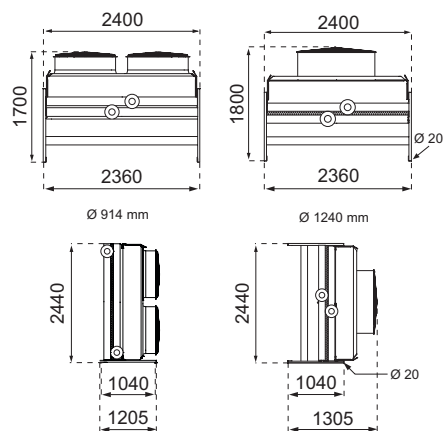
- AlfaSolar condenser
- Unit width (M=narrow, D=wide)
- No. of modules
- Module length (A=1400 mm, B=1800 mm, C= 2100 mm)
- Fan diameter (09=910 mm, 12=1240 mm)
- Fan speed (T=950, S=720, L=560, Q=470, R=350)
- E = EC fan motor
- Power supply (N5Y=3/400/50-Y, N5D=3/400/50-D, N6=3/440/60, N7=3/230/50, 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 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