



AlfaSolar SR

Customized air-cooled radiators

General information & application

Air cooled radiators AlfaSolar SR have been designed for heavy industrial cooling applications for cooling of various process liquids. Dual coil models are available for simultaneous cooling of LT/HT engine circuits. Applications include:

- diesel and gas engine cooling
- turbine cooling
- oil cooling
- various processes (transformers, air compressors, etc.)

Liquids	all liquids that do not corrode copper
Capacities	customer specification

Configuration

- Finned coil F5
 - Cu-tubes \varnothing 12.7 mm
 - corrugated Al-fins 0.14 mm, no turbulators
 - fin spacing 2.3 mm
- Two casing widths (SRM=1630 mm, SRD=2400 mm)
- Flanges PN10/16 according to DIN 2642
- Direct driven axial fans, suitable for use with frequency converters. *When designing a frequency converter system, the general guidelines for allowed cable lengths, dU/dT and/or sinus filters etc. have to be considered.*
- Axial fans in a range of different fan speed executions. Available in two fan diameters: 914 mm (1 to 14 fans) or 1240 mm (1 to 7 fans). All fans have corrosion resistant fan blades and fan guards.
- Fan motors available for various power supplies. The motors are squirrel-caged motors for outdoor use built to IEC standards and provided with condensing water outlets and shaft seals together with F-class insulation. Protection class IP54/55, except for the condensing water outlets. Motors pre-wired to lockable safety switches.
- All casing parts are of hot dip galvanized steel plates.
- Specifically designed for installations with several radiators installed side by side.
- Adjustable mounting legs (~120/420/620 mm)
- Fitted with header tube protection panels.
- Manual venting and draining valves.
- Partitions between fans for regulation of the cooler capacity by means of separate use of the fans.
- Standard vertical transport position, fixed on a wooden pallet. Suitable for truck transportation or loading into a container. Wooden seaworthy packing on request.



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Certifications

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

Design pressure

Design pressure 6 barg. Each heat exchanger is leak tested dry air at 9 barg. Higher design pressures on request.

Selection

Alfa Solar SR radiators are always selected and customized on customer request. Please contact Alfa Laval for selections.

Documentation

For AlfaSolar SR radiators extensive product & project documentation can be supplied (standard in English).

- Mechanical & electrical configuration
- Quality, test & material certificates
- Project reports & documentation
- Installation, operation & maintenance manuals

Authorised agent

(IPC) Industrial Power Cooling Ltd, www.ipcuk.com, t: 00 44 (0) 845 873 9916, info@ipcuk.com

Options

- Coil corrosion protection
 - epoxy coated aluminium fins (EP)
 - copper fins (CU)
 - sea water resistant aluminium fins (AIMg)
- Dual coil model with LT- and HT-circuits
- Fin spacings 2.3 - 4 mm
- Fin thickness 0.18 mm
- Water spraying system (KW)
- Vibration dampers for mounting legs (VD)
- Counter flanges
- Flange dimensions acc. to ANSI
- Flexible connection joints
- Higher mounting legs (up to 6m)
- Handrails & ladder
- Expansion tanks with Murphy LLS (LT/HT)
- Packing: pallet (P) or container (CN)
Seaworthy packing on request.
- Casing epoxy painted grey RAL 7040 in four thicknesses
 - MU (cat. C2/3, film thickness 80 µm)
 - M1 (cat. C3, special painting, film thickness 80 µm)
 - M2 (cat. C4, special painting, film thickness 160 µm)
 - M3 (cat. C5M/C5I, film thickness 295 µm)
 - Other RAL colours on request
- Forced draught (FD)

- Motors with thermal overload Klixon switches (THC)
- Motors equipped with anti-condensation heater (MH)
- Special fan motors (EX classed, NEMA etc.)
- H-class insulation fan motors
- Step control + options
- Fan speed control with frequency converter (SVC) + options
- EC fan motors, control panels & options
- Common terminal box located at the end of radiator
- Motor protective switch panel at the end of radiator
- EMC cables, glands & safety switches for each fan (EMC)

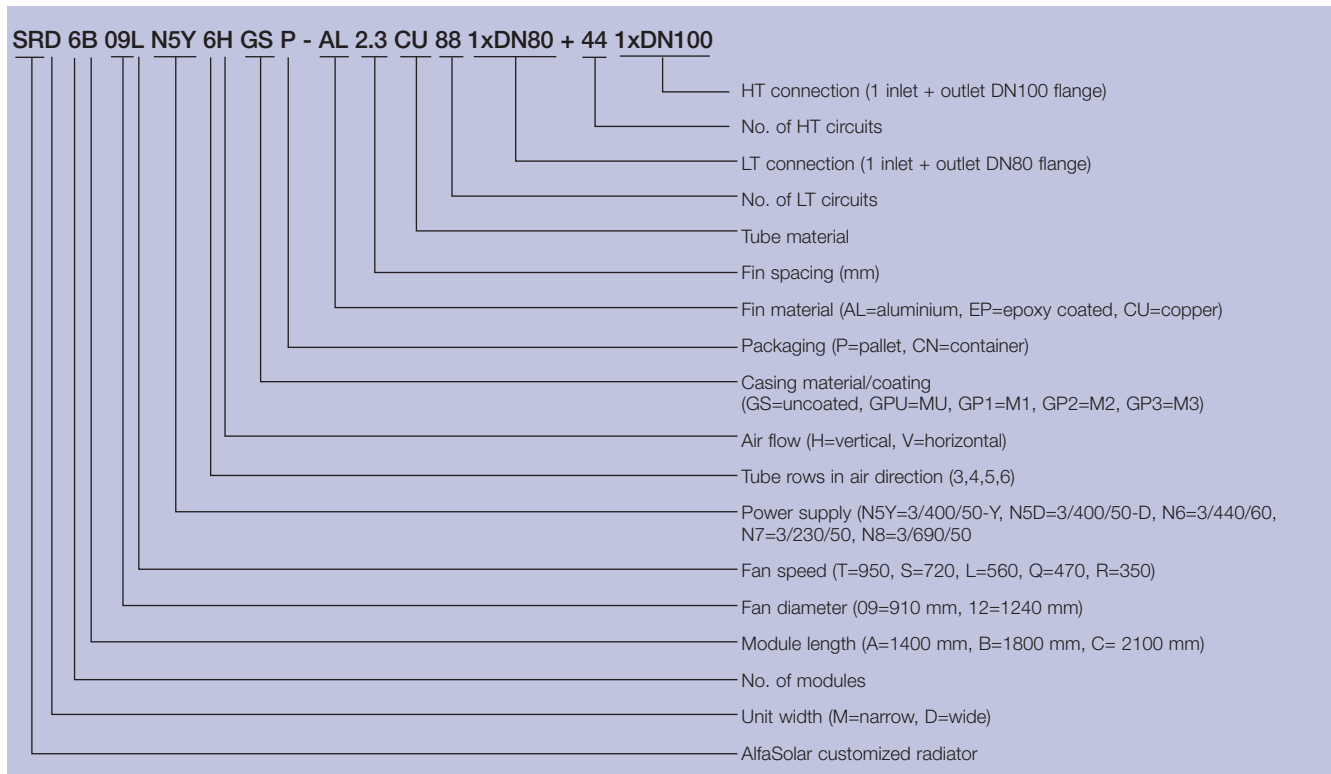
Benefits

- 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
- Excellent sound characteristics
- Reliable performance
- Easy-install & maintenance
- Energy efficient - low total cost of ownership
- Two units can be fitted into a single container side-by-side
- Two year full product guarantee

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Code description



ERC00405EN 1203

Alfa Laval reserves the right to change specification without prior notification.

Visit www.alfalaval.com for more information or contact

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