



Air Fin Coolers
Cool and Clean, Forward

SPIG® Air Fin Coolers

Global Cooling Competencies

SPIG® is a global supplier of an extensive range of turnkey cooling systems and solutions. Since 1936, we have designed, engineered and installed many state-of-the-art cooling system projects for a wide range of industries including oil and gas, petrochemical, power generation, waste-to-energy, cogeneration and combined cycle, and district heating and cooling, to name a few. Our experience includes wet, dry and wet/dry hybrid cooling solutions as dictated by site specific requirements. We can supply both mechanical and natural draft systems and design for a wide range of project specifications such as high seismic loads, vibration control, corrosion, noise control, sub-freezing operation, and sea water use.

SPIG® Air Fin Coolers

As water preservation increasingly becomes a priority for plant owners and operators, dry cooling technologies offer a viable alternative to wet cooling systems in many applications. SPIG is an expert in the supply of specialized direct dry cooling technology, or air fin coolers, for closed loop cooling applications.

Design and Engineering

Qualified thermal engineers use advanced technologies to provide cost-effective designs to meet the required thermal performances and mechanical design of pressure parts (per ASME Code), steel structure and noise management. A modularized design concept is commonly used for small air fin coolers which can be scaled to larger units without changing the related thermo-hydraulic design criteria. Our capabilities include complex three-dimensional plant design, piping, controls, instrumentation, installation, commissioning and testing.

Bundle Production

SPIG's direct production of multi-row bundles drives superior functionality in Air Fin Coolers, redefining cooling efficiency.



Air Fin Cooler in Australia



Air Fin Cooler in Germany



Air Fin Coolers in Portugal



Air Fin Cooler in Serbia

Quality and Safety

SPIG® has implemented and maintains a comprehensive quality control system regulated by a Quality Manual and internal procedures based on ISO 9001 standards. The air coolers are installed according to the provisions of the International Safety System and with EEC directives on safety standards for machinery.

We have obtained the SCC safety certification (Safety Checklist Contractors) for the disassembly, construction, restoration and upgrading of cooling systems, maintenance and global service activities.



Air Fin Cooler in Australia

Expert Service

To help avoid unscheduled downtime and achieve optimal plant performance, SPIG offers a wide range of services for air fin coolers such as maintenance, inspections, structural and thermal repairs, upgrades, and spare or replacement parts supply. In addition, our customized UNICO™ online continuous monitoring system is available to record, store and analyze critical operating performance data, helping to optimize cooling plant efficiency, reduce maintenance costs, and avoid unscheduled outages. We provide flexible, customized technical solutions to satisfy any customer requirement.



Air Fin Cooler in Italy

Finned Tubes

SPIG[®] provides a range of proven tube designs for a variety of applications.

G-Fin (embedded)

This high-efficiency finned tube is designed for high thermal or mechanical stress, with an upper temperature limit of about 400C (752F). The fin material is aluminum and the tube material can be made from any readily machinable metal.

L-Fin (wrapped)

This finned tube is designed for low temperature applications where protection from tube corrosion is required. The upper temperature limit is about 130C (266F).

The fin material is aluminum and the tube material can be made from any readily machinable metal. Standard offerings of both designs are available in the following dimensions:

- Tube Diameter; mm (in.):
25.4 (1.0), 31.8 (1.25), 38.1 (1.5), 44.5 (1.75), 50.8 (2.0)
- Fin Pitch: 8, 9, 10, 11 fins per in.
- Fin Height: 15.88 mm (0.625 in.)

Tubes can be provided in different grades of Stainless Steel material as well, where the environmental conditions can lead to corrosion, and can be combined with extruded aluminum fins in order to maximize the protection against corrosion.

Extruded fin tubes have fins that are extruded from an aluminum sleeve that covers the tube.

These tubes are used under high operating temperature (250C [482F]) and provide full protection of the tube against atmospheric corrosion.

Headers

We offer the following types of headers based on project specifications and applications:

- Plug type headers
- Welded type headers
- Studded headers with cover
- Screw bolted headers with cover



Since 1936, SPIG has globally
provided cooling systems.
Our expertise spans 85 countries
and more than 90 years.



GLOBAL PRESENCE

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**1936-2026: 90 years of SPIG
U-stamp certified**

Quality, Health & Safety, and Environmental Management System is certified by

CERTIFIED
ISO 9001



CERTIFIED
ISO 14001



CERTIFIED
ISO 45001



CTI Member since 1993



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