



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.

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.

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 Australia



Air Fin Cooler in Germany



Air Fin Coolers in Portugal



Air Fin Cooler in Serbia

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



Air Fin Cooler in Spain



Air Fin Cooler in Australia



Air Fin Cooler in Italy



GLOBAL PRESENCE

TURKEY

Şair Eşref Bulvarı 35/1
daire:403 İsmet Kaptan Mah.
No: Konak/ İzmir
Phone: +39 0322 245401

KINGDOM OF SAUDI ARABIA

Street King Faisal West 6690
35514 Al Jubayl
Phone: +966 (0)133612113

SOUTH KOREA

#702, 7th Floor, Kangnam-Officetel,
40 Seocho-Daero 73-Gil, Seocho-Gu,
Seoul, 137-857
Phone: +82 10 3248 6489

GERMANY

Marie-Curie-Straße 16
51377 Leverkusen
Phone: +49 15140709815

INDIA

6th Floor, New Excelsior Building
A. K. Nayak Marg, Off D. N. Road Fort,
Mumbai - 400 001
+39 0322 245401

UNITED ARAB EMIRATES

Lob 7, Office N. 7F09
Opp.Post Office Jebel Ali Free Zone
Phone: +97 1504505679

CHINA

Dong Cun Industrial Park, Dingxiang Country
035400 Xinzhou City
Shanxi Province
Phone: +86 17822038412

BRAZIL

Avenida João Antônio Mecatti, 1221
Galpão C Jardim Planalto 13211-223 Jundiaí
São Paulo
Phone: +55 1145227434

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



Member in good standing in the Cooling
Technology Institute since Feb 1993.



Via Borgomanero 34,
28040 Paruzzaro (NO) Italy
Phone: +39 0322 245401

www.spig-gmab.com