



AIR COOLED HEAT EXCHANGERS

A Reliable Solution for Closed Circuit Cooling Applications

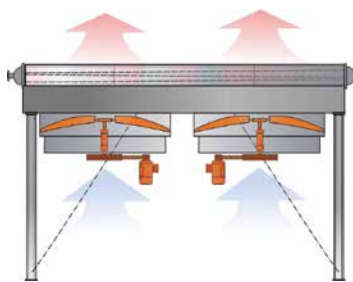
ACHEs are a family of custom designed heavy duty fin tube heat exchangers which allow the direct cooling by air of various process mediums. ACHEs are used for many Industrial Applications, such as Power, Chemical, ORC Plants, Oil & Gas, Steel Industry and many other Applications.

ACHE APPLICATIONS

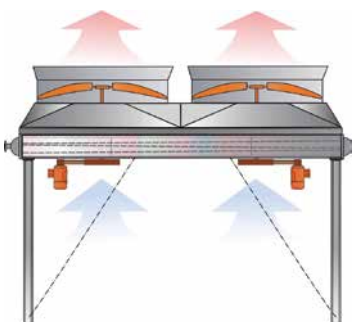
Air Cooled Heat Exchangers, as direct dry cooling systems, can guarantee the maximum possible operation flexibility over a wide cooling capability range for Power Plants, Refineries, Oil & Gas industries, Chemical industries, Steel industries, Liquid Coolers, Gas Coolers, Process Condensers and many other services.

Our ACHE thermal designs are directly performed by experienced Process & Thermal Engineers utilizing the well-known HTRI software and by means of our internally developed software and calculation tools.

Normal scope of supply for an ACHE installation includes the finned tube heat exchanger bundles, steel support structure, fan drive equipment, including axial fans, v-belt drives, bearing shafts and electric motors. Additionally, on a case to case basis, other auxiliaries such as automatic or manual control louvers, semi-automatic cleaning system, inlet/outlet piping, remote and local control instruments, manual and automatic valves, circulating pumps, expansion tank, winterization features and other miscellaneous features can be included in the scope.



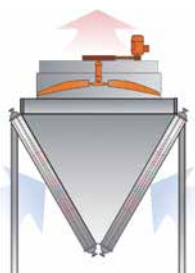
H Frame
Forced draft



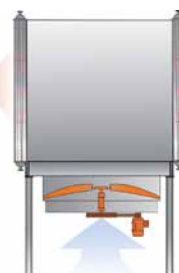
H Frame
Induced draft



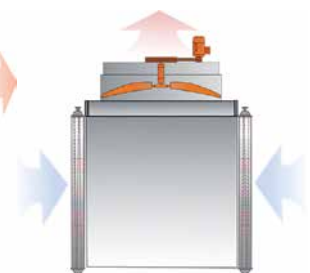
A Frame
Forced draft



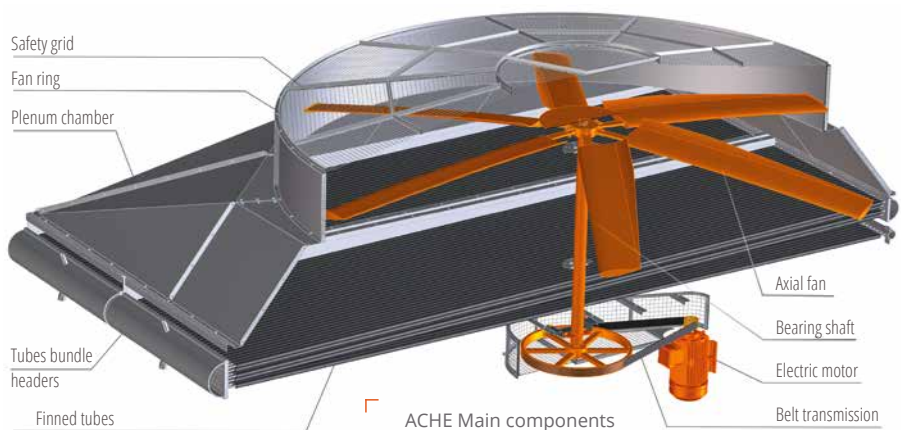
V Frame
Induced draft



T Frame
Forced draft

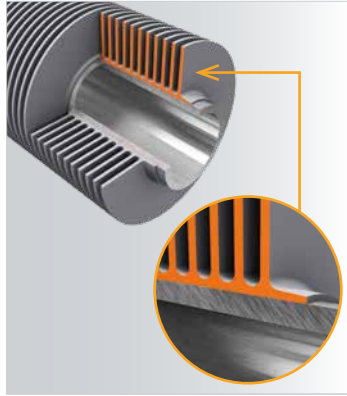


T Frame
Induced draft

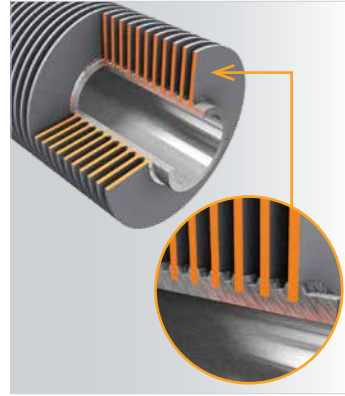




**AVAILABLE
FINNED TUBES**



Round tube with round aluminium fin "Extruded type"



Round tube with round aluminium fin of "G embedded fin type"



Round tube with round aluminium fin "L-footed fin type" L

Maximum working temperature

300 °C

400 °C

120 °C

Atmospheric corrosion resistance

High

Low

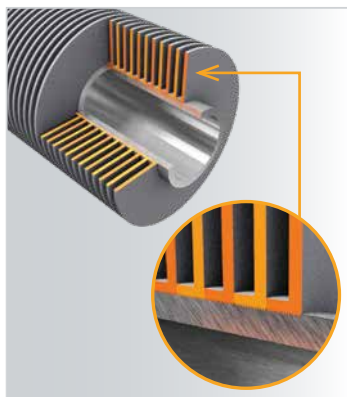
Average

Mechanical resistance

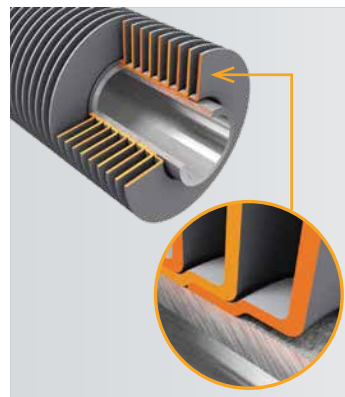
High

Average

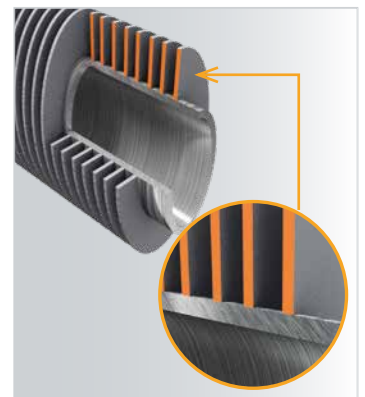
Low



Round tube with round aluminium fin "L-footed fin type" KL



Round tube with round aluminium fin "L-footed fin type" LL



Elliptical fin tube Hot Dip Galvanized Steel (HDGS)

Maximum working temperature

120 °C

250 °C

360 °C

Atmospheric corrosion resistance

Average

Average

High

Mechanical resistance

Low

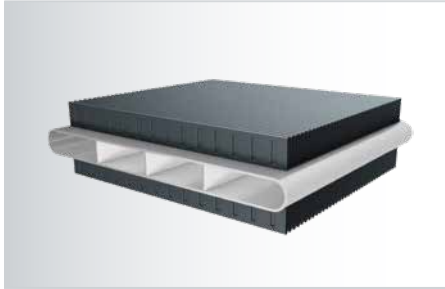
Average

High

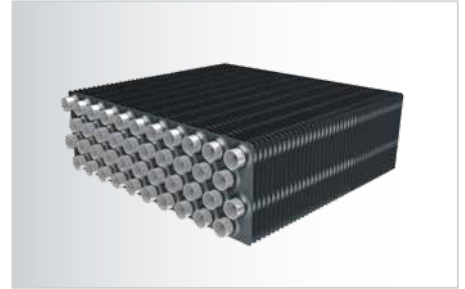
Various Core Tube Materials Available



ACHE AVAILABLE FINNED TUBES



Multi Channel
Aluminum Cladded carbon steel flat tube
With brazed aluminum fins "MCT"



Round aluminum tube
With packaged aluminum fins
(RAFT)

Maximum working temperature

150 °C

100 °C

Atmospheric corrosion resistance

High

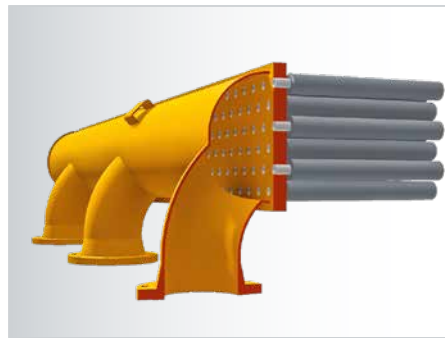
High

Mechanical resistance

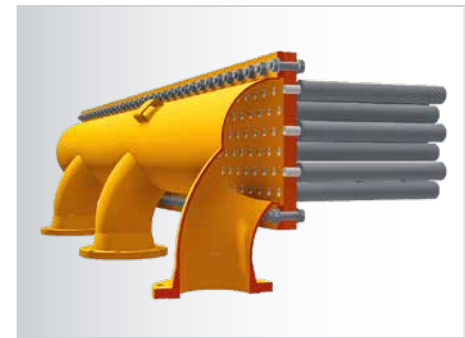
Superior

Average

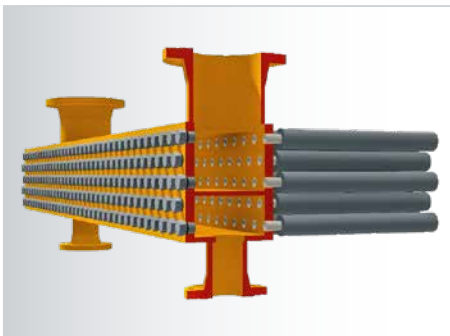
ACHE DIFFERENT HEADER CONFIGURATION



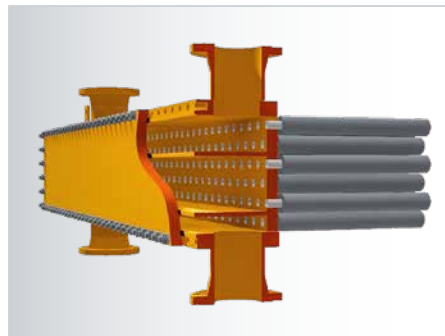
Welded type header



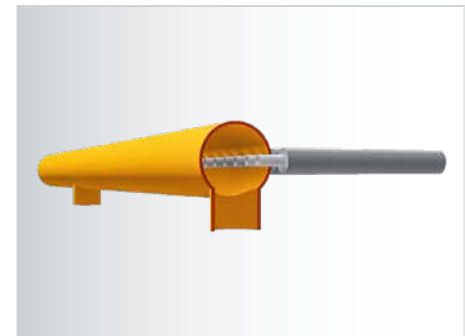
Bonnet type header



Plug type header



Cover type header



Manifold type header

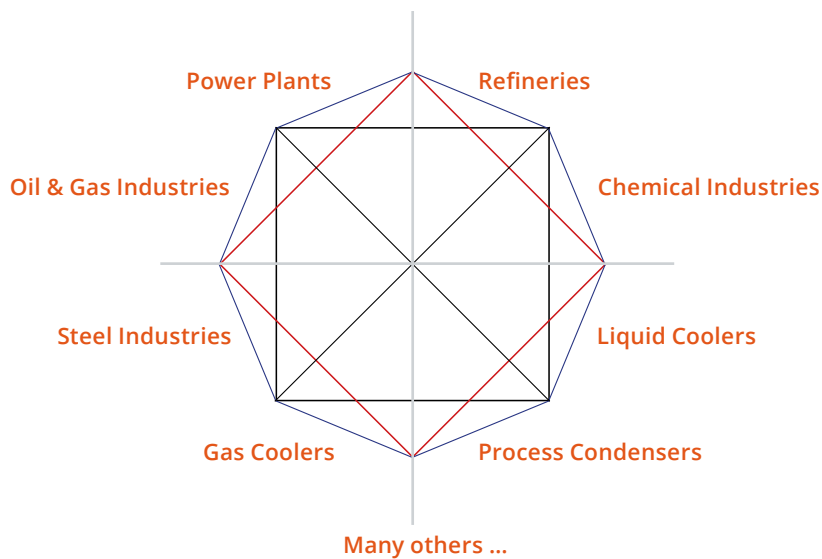
Various Materials Available

ACHE MAJOR BENEFITS



Our experienced team is able to provide the most **Advanced and Innovative R&D Solutions** that are coupled with our own extensive in house manufacturing capability.

This makes SPG Dry Cooling your ideal partner for any ACHE Application



More information about our patents:
<https://spgdrycooling.com/ip-legal/patents/>

A GLOBAL PARTNER WITH THE PROMISE OF EXCELLENCE



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