



Quality HVAC and Custom Engineered Heat Transfer Equipment for over 75 years

Visit our website today, www.aerofin.com

spiral fin coils

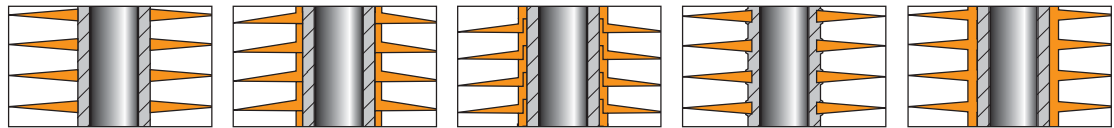
Aerofin® Coils

Aerofin® Spiral Fin water coils are used for heating, cooling and dehumidifying. In addition to water, a variety of other heating and cooling media can be used such as glycol and brine solutions and thermal oils. Standard heating and cooling coils using steam, water or glycol are designed for applications up to 400 degrees F and 250 psig, except Type R and RC coils which are for use at 100 psig and 160 degrees F or less. Custom engineered solutions are available to meet your unique application requirements.

Construction Features

Standard Fin Designs

Aerofin® Spiral Fin coils feature fins of aluminum, copper, stainless steel or carbon steel. The fins are tension wound onto individual tubes to minimize thermal contact resistance and air friction. Tapered fin design provides maximum fin-to-tube contact for optimum heat transfer. Individually finned tubes allow unrestricted movement of the tubes, eliminating stress on the tube joints and fin to tube bond caused by thermal cycling.



EDGEWOUND FINS

- Aluminum
- Tin-coated copper
- Tin-coated steel
- Tin-coated stainless steel

FOOTED "L" FINS

- Aluminum
- Copper
- Steel

OVERLAPPED "L" FINS

- Aluminum
- Copper

EMBEDDED FINS (for high temperature or extremely corrosive applications)

- Aluminum
- Copper
- Steel
- Stainless steel
- 1" OD tubes only

EXTRUDED FINS

- Aluminum
- Copper

Tubes

All standard Aerofin® coils feature 5/8" OD or 1" OD seamless copper tubes conforming to ASTM specifications. Standard 5/8" OD tube wall thickness is 0.020 inches, except Type R and RC coils, which use 0.025 inch wall. Standard 1" OD tube wall thickness is 0.035 inches. Heavier wall tubing is available. Copper-nickel, aluminum, stainless steel and carbon steel are available material options.

Tube Joints

With the exception of type R and RC coils which feature roller-expanded tube joints, all joints for Aerofin® heating and cooling coils are brazed. All joints for steam heating coils are silver brazed. Aerofin brazers and welders are ASME qualified. Optional tube materials may require welded joints; call Aerofin for help in choosing the right materials for your needs.

Headers

With the exception of type R and RC coils, standard Aerofin® coils feature carbon steel or non-ferrous headers with threaded pipe connections (other materials are available). Water coils are supplied with vents and drains. Type R and RC cooling coils use carbon steel tube sheets and removable carbon steel headers with threaded connections.