Spiral tube steam heat exchangers

TRIANON Echangeur



Our stainless steel spiral tube heat exchanger is a shell-and-tube design consisting of a bundle of spiral stainless steel tubes. The spiral design provides a large heat transfer surface for a shell-and-tube exchanger and high efficiency due to the induced turbulence. Particularly suited for high-pressure applications, this exchanger is designed for steam applications, but it can also be used in a wide range of industrial and HVAC applications.

The spiral tube bundle heat exchanger is a compact heat exchanger designed to fit into a steam or superheated water network. This specific spiral tube bundle model is also ideal for domestic hot water (DHW) production.
It provides a higher heat transfer coefficient compared to standard plate heat exchangers, making it particularly efficient.

Temperature and pressure

They withstand:

- Maximum pressure: 20 to 35 bar
- Maximum temperature: up to 250°C

Manufacturing

This heat exchanger is designed for vertical installation. It consists of a stainless steel shell of variable size and a bundle of smooth or corrugated stainless steel spiral tubes.

The helical coaxial tubes are wound in opposite directions (stainless steel tubes, 8 or 10 mm diameter).
Connections: via flanges or tubing.
All sizes available: from low capacity up to several MW.

Options

- Feet and supports
- Insulation
- Connections: smooth tubing, threaded, or victaulic
- X or L 90° connections

Tubular heat exchangers

Standards & certification

Manufactured in accordance with: ISO 9001:2015 – ASME – CE/PED – 3-A

Applications

Our spiral tube heat exchangers are suitable for all types of installations and equipment, regardless of the operating environment.

Materials

Shell and tubes: stainless steel (316 – 316L – 321)

Our applications

- **Steam applications**
- **Pharmaceutical industry**
- **HVAC**
- **Industrial processes**
- **Food & beverage**