



SONDEX®

► Spiral Heat Exchanger

Recommended Applications:

The Sondex spiral heat exchanger is designed for demanding fluids and very high viscosities. A large variety of fluids can be suitable e.g. fouling liquids containing solids and fibres, wastewater, slurries, mixtures with inert gases, cooling and heat recovery along with vapour/liquid condenser and vacuum condenser with inert gases.

Design Principle:

The Sondex spiral heat exchanger is a circular heat exchanger with two spiral channels, each in one closed chamber ensuring that what comes in also comes out. The flow of the products in counter-current, which makes it possible to have a close temperature approach between the two medias being treated in the heat exchanger. In the same heat exchanger the design makes it possible to run free flow on the one side and standard flow on the other side.

No application and duties are the same for a spiral heat exchanger. All Sondex spiral heat exchangers are custommade according to specifications provided from the customer.

Installation:

The Spiral heat exchanger is a compact solution. The design only requires a small space for installation compared to traditional heat exchanger solutions. This saves valuable production space and costs.

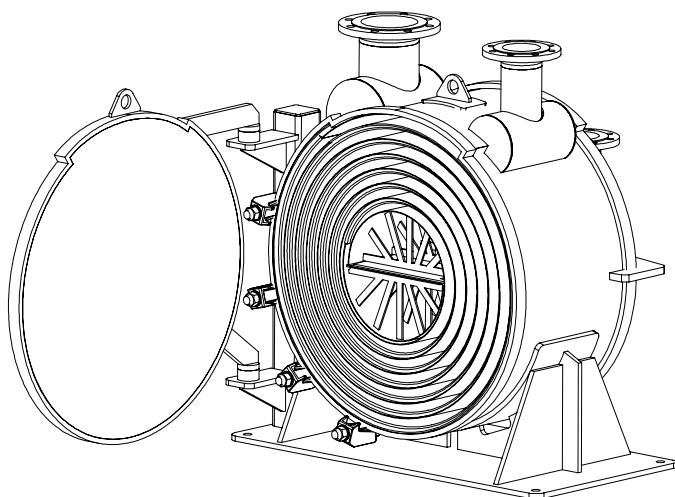
Data Required for Correct Quotation:

- Duty
- Flow rate
- Temperature
- Type of media
- Working pressure
- Working Temperature
- Pressure loss
- Thermodynamic properties

Above data determines the choice of heat exchanger.



Spiral Heat Exchanger



For exact dimensions of the PHE please refer to the dimension drawing

Technical Information

Shell:

- Carbon steel, colour RAL5010 (Available in other colours.)
- Stainless steel.
- Bolted or welded shell construction

Design Pressure/Temperature:

- Design pressure: 1.0/1.6/2.5 MPa (145/232/362 PSI)
- Design temperature: 350°C (482°F)

Construction Standard:

- EN13445 (PED 2014/68/EU)
- ASME sec VIII, Div. 1

Connections:

- Spiral connections in stainless steel or carbon steel.
- The flange size is depending on the size of the unit and the flow rate.
- According to all known standards.

Surface Area:

- The surface area: From 1 to 400 m²

Extra Equipment:

- Floor mounting feet
- Insulation jacket