

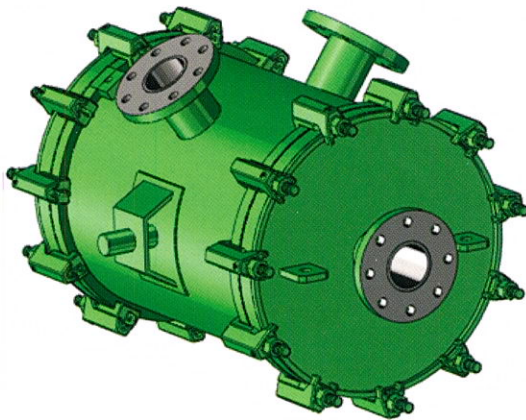


Spiral Plate Heat Exchanger (SPHE) 1

Standard range: Liquid / Liquid

“Economical and short delivery time”

Nexson team : 20 years experience in designing and manufacturing Spiral Plate Heat Exchangers



Models : 1L-3L-6L-9L-15L

Fluids circulate in countercurrent flow through the channels, providing possibility of medias temperatures cross and approach around 3°C. Thanks to its specific design, the Spiral can handle two fouling fluids. Anyhow, both channels are easy to access for inspection or eventual cleaning.

Area M ²	Diameter	Width	Hot side connections	Cold side connections	Spacing
1	215	200	25/25	25/25	5/5
3	405	200	50/50	50/50	5/5
6	485	300	50/50	50/50	6/6
9	470	625	80/80	80/80	8/8
15	645	500	80/80	80/80	8/8

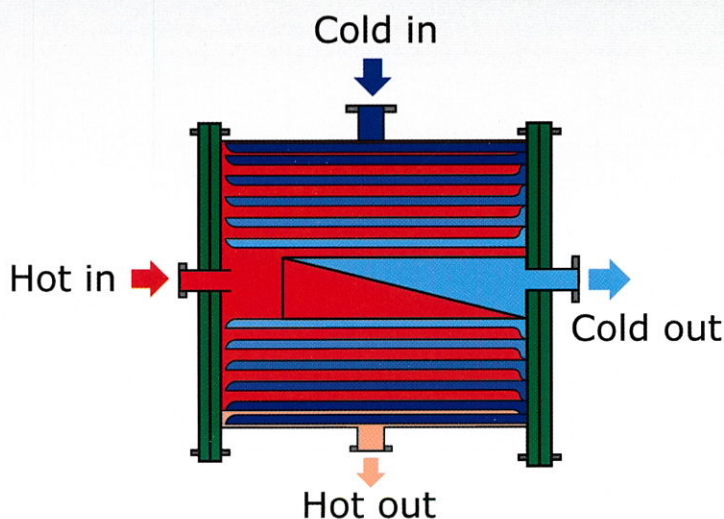
Applications

Petrochemical, fine chemical, bioethanol, cutting oil, Refinery, petrol & gas, petrochemicals, coke oven gas, steel, mining, pulp & paper, industrial oven...

All fluid types containing fiber, particles, sludges and other viscous or abrasive medias.

It is possible to use it as:

- Interchanger
- Heater
- Cooler



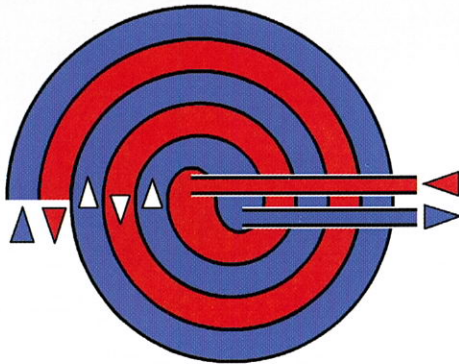
Conditions of use

Design temperature: -30°C up to 250°C
Design pressure: 10 Barg
Material: 316 / 316L

Design code section VIII div 1 + PED 9723 EC
Flanges EN 1092 1 02 A - Gaskets: Klingsil C4430
Surface treatment: pickled passivated



Customer benefits



The hot flow enters in the center of the heat exchanger and exit to the outside. The cold flow is from the periphery to the center : counter- current flow effect.

> ENERGY SAVING

Spiral design and optimization of conditions in both channels of customized SPHE 1 provide high heat transfer performance and reduction of energy costs habitually needed to heat liquids.

> AVAILABILITY AND COST SAVING

Nexson Group sas provides a standard range of spiral heat exchanger with the possibility to save costs comparing to customized units.

> LOW INSTALLATION COST (COMPACT)

The SPHE is design in order to maximize heat transfer surface. It can be set up vertically or horizontally and it is not necessary to have complex installation. By consequent, a SPHE ensures a low installation budget.

> LOW OPERATING COST

This system allows an easy access in case of inspection, or eventual cleaning, removing the covers handled with fixations.

> LOW MAINTENANCE COST (SELF CLEANING EFFECT)

through the open channels, the channel design in the SPHE reduces bypassing through the velocity in the channel spiral that increases until deposits are eliminated. This system allows to the SPHE to work in extreme conditions.

> EASY ACCESS FOR INSPECTION AND CLEANING

These heat exchangers can be easily cleaned by opening the covers, giving total access to the whole heat transfer area.

