

TP-HEX

COMPACT PRESSURIZED EXCHANGER WITH LARGE EFFECT

THERMO PLATE HEAT EXCHANGER

TP-HEX is a compact round heat exchanger where, typically, the hot medium runs between the plates and the cold medium inside the thermo plates in counter-current flow.

No baffles are applied and therefore the available pressure drop on the hot side can be utilized by having a small plate distance and relatively large velocities between the plates. Together with the highly turbulent flow inside the plates, this results in an excellent heat transfer.

Another advantage of the small space between the plates is the compact design with a large heat transfer area per m³. This is especially valued in connection with existing plants where space can be limited.

DESIGN

TP-HEX can be manufactured in a large range of stainless steel qualities grades (304, 316, SAF 2205, 904L etc). It can be used for a wide range of applications such as condensation,

evaporation as well as sensible heat transfer.. The TP-HEX can both be operated vertically and horizontally.

LOW MAINTENANCE COSTS

The thermo plates in TP-HEX have a self cleaning effect due to their smooth surface. Through this the fouling tendency is reduced to an absolute minimum, and that also applies to the need for maintenance.

TP-HEX is constructed with easy access in connection with cleaning. The thermo plate bank can very easily be dismantled and cleaned by for example a pressure washer.

As TP HEX is built as a completely welded structure there are no seals, and thereby many of the maintenance costs connected with them are avoided. Furthermore the TP- HEX can have higher design pressures than seal based heat exchangers.

PRODUCT ADVANTAGES

- Low maintenance costs because of the self cleaning effect and construction without seals.
- Compact design saves space and installation costs.
- Up to 3 times smaller than a tube heat exchanger.
- Efficient heat transfer because of large contact surfaces.
- Low fouling tendency because of optimum turbulence.

