



Sanitary
flow
equipment

Quality
System
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ISO 9001



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DTS-HE Heat Exchanger

DTS-HE Sanitary Heat Exchanger

DTS-HE line is a high-quality shell & tube heat exchangers with Double Tube Sheet (DTS) designed to meet the criteria of the pharmaceutical industry, the DTS design infact exclude the possibility of cross contamination between the product and the cooling/heating media. Each exchanger is designed with an our exclusive and purpose-designed software for each project based on data supplied by the client and may be single pass or multi passes.

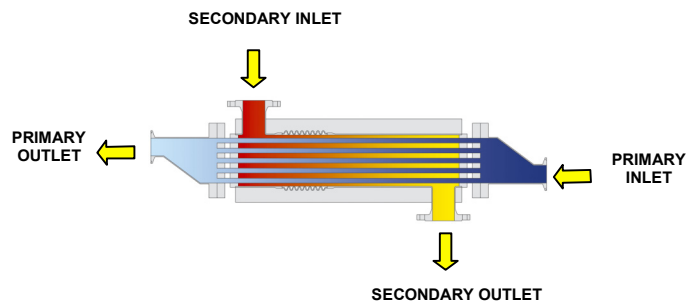
The number of passes (tube side) is established according to the speed and pressure drop and may vary from 1 up to 8 by changing the number of outward and inward chambers.

Typical applications:

- Point of use instantaneous cooling/heating
- In-line recirculation cooling/heating

Feature offered by the unit include:

- Double Tube Sheet (DTS)
- Full material traceability
- Self draining design
- Flexible design



Design and working principles :

The product media flows through a bundle of tube. The service media flows channelled inside the shell in cross flow in order to ensure maximum efficiency. At each end the tubes are fastened by two tube sheets acting as leakage indicators and prevent cross contamination between the product and the service media.

A bellow welded into the shell takes up any thermal fatigue caused by large temperature changes.

The unit shall be supplied with or without thermal insulation.

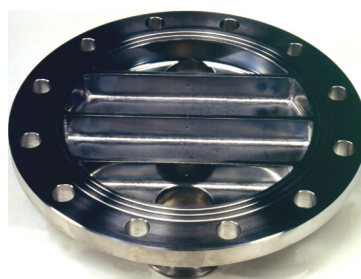
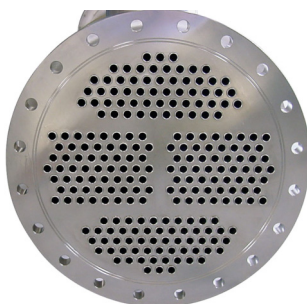
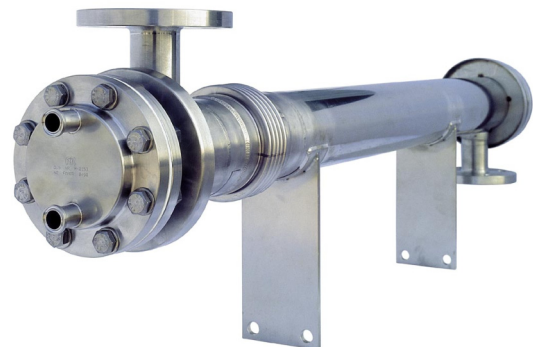
For an easy installation, lifting and mounting device are welded on the unit.

Technical data :

Heat transfer area	<10m ²
Max temperature	200°C
Max pressure	10 barg
Materials	AISI 316L
Gaskets	TFM 1600 PTFE
Connections tube side	clamp BS 4825
shell side	flanged UNI
Pressure Vessels code	PED directive 97/23/CE

Surface finish :

product contact surface are finish with Ra<0,5 micron or better



In the interests of development and improvement of the product, we reserve the right to change the specifications without prior notice.