

# DTS-HE Heat Exchangers



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.

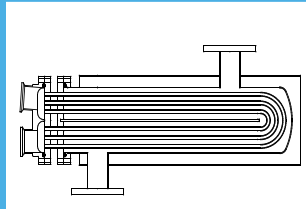
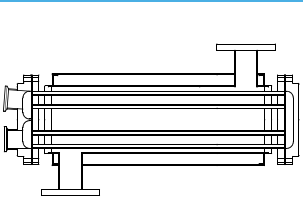
Developed to allow the thermal exchange between two process fluids avoiding their mixing; these devices are available with single or multiple passage and are completely drainable. They can be used for heating, cooling or both the duties.

**All heat exchangers are designed on customer project's data** through proprietary thermal and structural calculation software, guaranteeing the most efficient solution for every specific application.



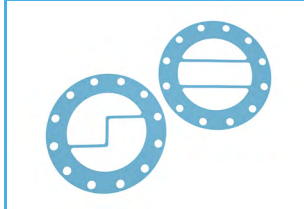
## CONFIGURATION

- **Straight Tube** or **U Tube** type
- **Double Tube sheet**
- **Heating, Cooling** or **Multifunctional** duties
- **Instant** or **Batch** type
- **Single** or **Multiple** passages
- **Vertical** or **Horizontal** Mounting



## TECHNICAL INFORMATION

- **In contact materials:** AISI 316L - 1.4404
- **Shell material:** AISI 316L
- **Gaskets material:** PTFE (straight tube)
- **O-ring material:** EPDM ("U" tube)
- **Insulation material:** rock-wool
- **Jacket sheet material:** AISI 304
- **Internal Surface Finish:**  $Ra \leq 0.6\mu m$



## OPTIONAL

- Welding of the tubes to the tube sheets, fully comply ASME BPE regulations (already contemplated as manufacturing standard)
- **Internal Surface Finish**  $Ra \leq 0.38\mu m$
- Different types of tube side and shell side connections
- Electropolishing
- Special materials
- Single Tube Sheet
- Other seals materials



## DESIGN & DOCUMENTATION

- Designed and calculated according to relevant directives and guidelines e.g. **PED 2014/68/EU, EN 13445, ASME VIII, VSR**
- Third party certification
- Inspection and nondestructive testing during production
- Hydraulic testing
- Full Material Traceability
- FDA Certification
- Availability of all documentation for plant validation



## CONFIGURATOR



## DATASHEETS



Last updates can be found on our website - [www.aerreinox.it](http://www.aerreinox.it)  
In the interests of development of the product, we reserve the right to change the specifications without prior notice