

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.

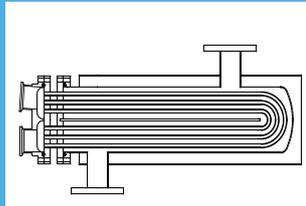
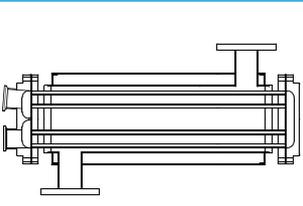
Developed to allow the thermal exchange between two process fluids avoiding their mixing; these devices are available with single or multiple passage and are completely drainable. They can be used for heating, cooling or both the duties.

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.



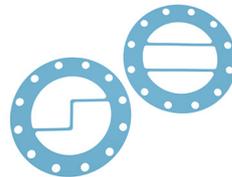
CONFIGURATION

- **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

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