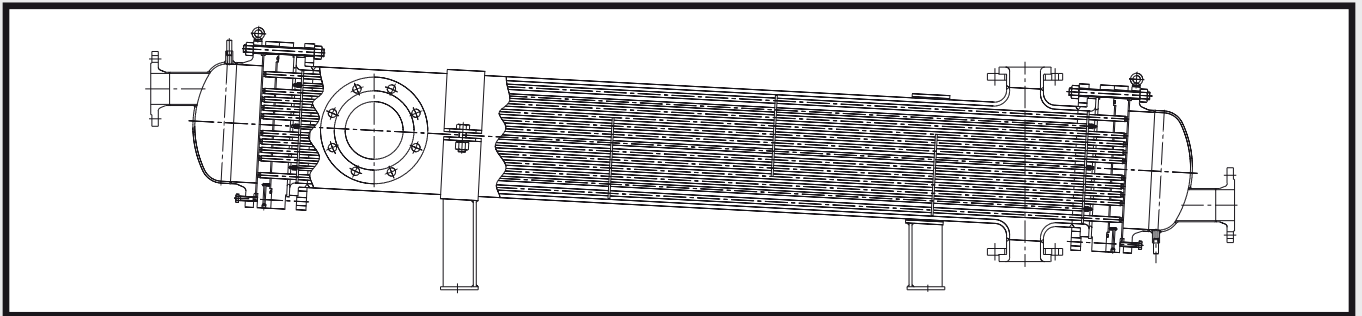


SHELL AND TUBE HEAT EXCHANGERS

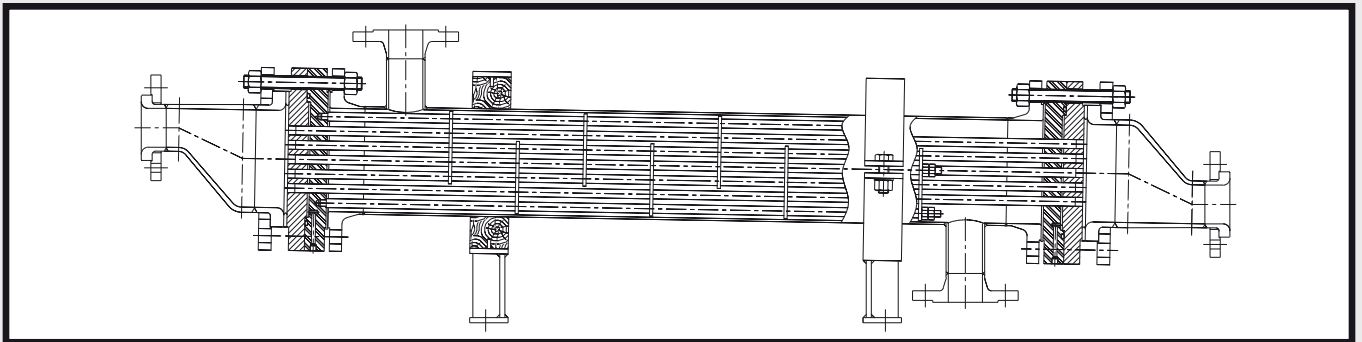
PRODUCT DESCRIPTION AND TECHNICAL DATA

3V Glasscoat Shell and Tube Heat Exchangers can be of three different types.

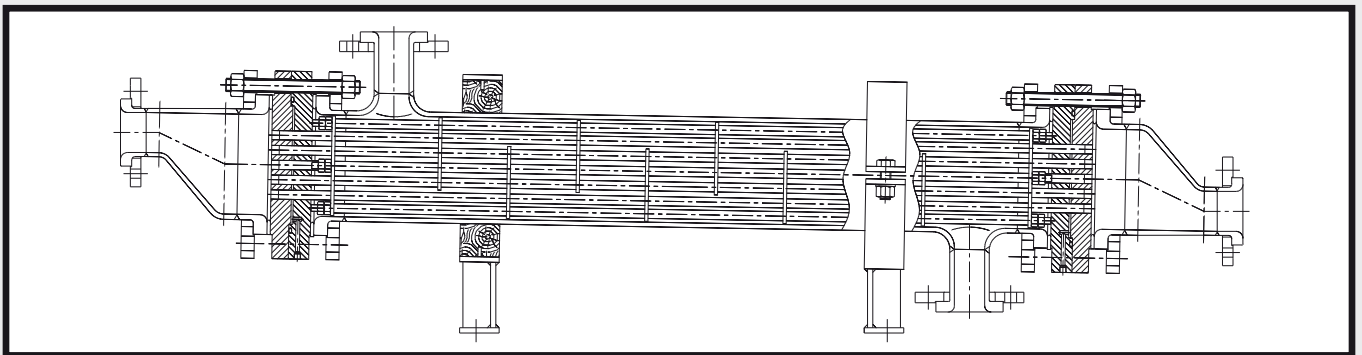
1. Type SFA has the shell and jacket-side tubesheets entirely glass-lined, the baffles are made of PTFE, the tubes of silicon carbide and the tube side is made of stainless steel. The product is introduced into the jacket side, the tube side is supplied with service fluid.



2. Type SFB has the shell and jacket-side tubesheets made of stainless steel, the baffles are made of PTFE, the tubes of silicon carbide and the distributors on the tube side are entirely glass-lined. The service fluid is introduced into the jacket side, the tube side is supplied with the product.



3. Type SFC has both shell side and tube side entirely glass-lined, the baffles are made of PTFE, the tubes of silicon carbide. Therefore two corrosive products can be treated, by introducing one into the jacket side and the other into the tube side.

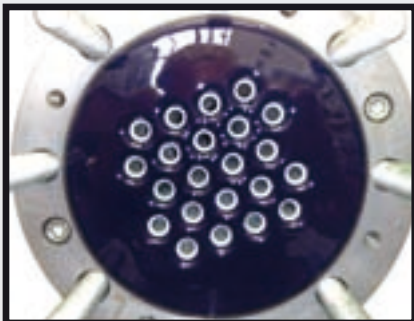
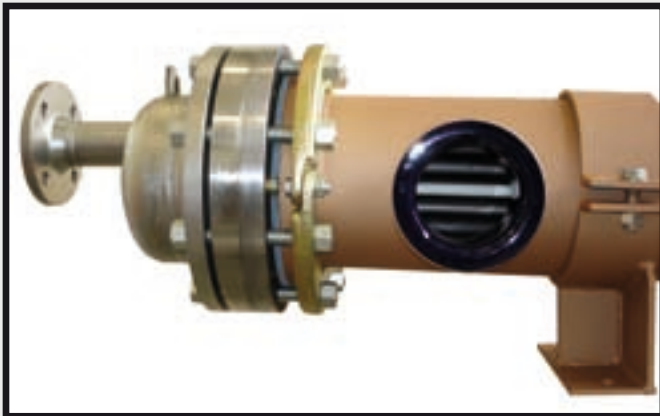


The space is equipped with a drainage hole in the lower part to enable a visual check for the presence of leaks, but it can also be pressurised or connected to an automatic control system when particularly dangerous products are being used.

SHELL AND TUBE HEAT EXCHANGERS

SIC TUBES

- The tubes are made of Hexoloy SA silicon carbide by Saint-Gobain Ceramics.
- They are approved for use by: WRC, Water Byelaws Scheme (UK), DVGW Ministry of Health (D), FDA (USA).
- They have high thermal conductivity, double that of tantalum, 5 times that of stainless steel, 10 times that of Hastelloy and 15 times that of glass.
- Silicon carbide has an excellent resistance to corrosion with practically all chemical substances up to 200°C.
- Silicon carbide has very high hardness – 50% greater than tungsten carbide, and it is therefore extremely resistant to wear. It is also completely impervious and therefore offers total impermeability at high temperatures and pressures.



Design Data:

- Pressure : - 1 / +6 bar
- Temperature : -25 / +200 °C

Design Codes:

- VSR/AD-Merkblätter/ASME VIII div.1/CE stamp
- PED 97/23/EC module G cat. IV

Glass-Lining:

- G2208
- Colour: blue without defects.

Glass-Lining Controls as per DIN 28063:

- Visual control
- Thickness control
- Statiflux
- Spark Test as per ISO 2746 After Glass-Lining: 20.000V Before shipping: 12.000V