

FRIGOTHERM ENGINEERING (PTY) LTD

Heat Exchangers STH

Request for Quotation

Design Data Questionnaire : Shell and Tube Heat Exchanger

In order to evaluate the design data and to ensure that any equipment subsequently selected and purchased will be compatible with the end user's requirement, certain minimum data is required. Please enter the operational data below.

In case of special media other than air or nitrogen, their physical properties are required.

Quote Reference	<input type="text"/>	Equipment Description	<input type="text"/>
Customer	<input type="text"/>	Date	<input type="text"/>
Fax Number	<input type="text"/>	Telephone Number	<input type="text"/>
Contact Person	<input type="text"/>	email	<input type="text"/>

Media	HOT MEDIUM	COLD MEDIUM	
Inlet Temperature	<input type="text"/> deg C	<input type="text"/> deg C	<div style="border: 1px solid black; padding: 5px;">Complete the adjacent blocks if both media do not change phases during heat exchange.</div>
Outlet Temperature	<input type="text"/> deg C	<input type="text"/> deg C	
Flow Rate	<input type="text"/> kg/sec	<input type="text"/> kg/sec	
Heat Transfer	<input type="text"/> kW	<input type="text"/> kW	
Maximum Operating Pressure	<input type="text"/> bar	<input type="text"/> bar	
Allowed Pressure Drop	<input type="text"/> kPa	<input type="text"/> kPa	

Evaporation			
Evaporation Temperature	<input type="text"/>	<input type="text"/> deg C	<div style="border: 1px solid black; padding: 5px;">In addition to the adjacent block, complete the above hot medium block.</div>
Superheating Temperature	<input type="text"/>	<input type="text"/> deg C	

Condensation		
Hot Gas Inlet Temperature	<input type="text"/> deg C	<div style="border: 1px solid black; padding: 5px;">In addition to the adjacent block, complete the above cold medium block.</div>
Condensation Temperature	<input type="text"/> deg C	
Subcooling Temperature	<input type="text"/> deg C	

Physical Properties			
Density	<input type="text"/> kg/m3	<input type="text"/> kg/m3	<div style="border: 1px solid black; padding: 5px;">Complete the adjacent blocks in case of special media.</div>
Specific Heat	<input type="text"/> kJ/kgK	<input type="text"/> kJ/kgK	
Thermal Conductivity	<input type="text"/> W/mK	<input type="text"/> W/mK	
Dynamic Viscosity	<input type="text"/> mPas	<input type="text"/> mPas	

Construction Fixed Floating

Safety Double Seals with Leak Indication

Maximum Dimensions m (W) m (H) m (D)

Materials Wetted by Hot Medium AISI 316 AISI 304 AISI 904L Titanium Hastelloy Copper Brass C. Steel

Materials Wetted by Cold Medium AISI 316 AISI 304 AISI 904L Titanium Hastelloy Copper Brass C. Steel

Gaskets EPDM/NBR Viton PTFE None

Corrosion Protection Sandblasted and Epoxy Coated Zinc Anode None

Insulation Mineral Wool with Steel Cladding

Documentation Material Certificates Pressure Test Certificate Third Party Inspection QCP
 Stress Calculation Thermal Design Calculation Parts List and Material Data

Notes