

FRIGOTHERM ENGINEERING (PTY) LTD

Heat Exchangers PHE

Request for Quotation

Design Data Questionnaire : Plate Heat Exchangers

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	<input type="radio"/> Bolted	<input type="radio"/> Copper Brazed	<input type="radio"/> Nickel Brazed
Safety	<input type="checkbox"/> Safety Plate with Double Wall		
Maximum Dimensions	<input type="text"/> m (W)	<input type="text"/> m (H)	<input type="text"/> m (D)
Plate Material	<input type="radio"/> AISI 316 <input type="radio"/> AISI 304 <input type="radio"/> AISI 904L <input type="radio"/> Titanium <input type="radio"/> Hastelloy		
Gaskets	<input type="radio"/> EPDM/NBR <input type="radio"/> Viton		
Corrosion Protection	<input type="checkbox"/> Frame Sandblasted and Epoxy Coated		
Frame Material	<input type="radio"/> Carbon Steel <input type="radio"/> Stainless Steel		
Insulation	<input type="checkbox"/> Mineral Wool with Steel Cladding		
Documentation	<input type="checkbox"/> Material Certificates	<input type="checkbox"/> Pressure Test Certificate	<input type="checkbox"/> Third Party Inspection
	<input type="checkbox"/> Stress Calculation	<input type="checkbox"/> Thermal Design Calculation	<input type="checkbox"/> Parts List and Material Data
			<input type="checkbox"/> QCP

Notes	<input type="text"/>
--------------	----------------------