Shell & Tube Heat Exchanger Inquiry Form

CELEBRATING 30 YEARS!

TPI 30 YEARS

THERMAL PRODUCTS INC.
Engineered Solutions for Industrial Applications

From:	Date
Address:	
Phone:	Fax:
E-Mail:	

HEAT TRANSFER REQUIREMENTS

		Shell Side	Tube Side
Fluid Circulated			
Total Fluid Entering		☐ GPM ☐ lbs/hr ☐ CFM	☐ GPM ☐ lbs/hr ☐ CFM
- Vapor	(lbs/hr)		
- Liquid	(lbs/hr)		
- Steam	(lbs/hr)		
- Non-Condensable	(lbs/hr)		
- Fluid Vaporized or Condensed	(lbs/hr)		
Physical Property Data*			
- Specific Gravity or Density (In/Out)		/ lb/ft^3	/ lb/ft^3
- Dynamic Viscosity (In/Out)		/ cps	/ cps
- Specific Heat (Avg.)		BTU/lb-°F	BTU/lb-°F
- Thermal Conductivity		BTU/lb-ft-°F	BTU/lb-ft-°F
- Latent Heat		BTU/lb	BTU/lb
Temperature In		☐ °F ☐ °C	☐ °F ☐ °C
Temperature Out		☐ °F ☐ °C	☐ °F ☐ °C
Operating Pressure		psig	psig
Allowable Pressure Drop		psi	psi
Fouling Factor or Surface Margin %		ft^{2}hr°F/BTU	ft^{2}hr°F/BTU
Heat Exchanged		BTU/hr	
Number of Passes			
Surface Margin			
Maximum Length			
Dia. / Height Limitation			
Width / Limitation			
Design Pressure			
Design Temperature			

* For uncommon fluids only, physical properties at various temperatures and condensing curves must be provided

MATERIAL AND CONSTRUCTION REQUIREMENTS

Flanges, Fittings	
Shell Material / Max Dip	
Tube Sheets / Tube Plate	
Tubing	
Heads, Bonnets, Covers, Waterbox	
Baffles	
Code Requirements	☐ ASME Section VIII, Division 1
	☐ Commercial Standard
	☐ TEMA Specify Class ☐ B ☐ C ☐ R
	☐ API Specification 614 ☐ 618 ☐ 660 Other -
	☐ PED
	☐ Other – Please specify –
Type of Heat Exchanger	☐ Straight Tube ☐ U-Tube
	☐ Fixed Tube Sheet ☐ Floating Tube Sheet
	☐ Removable Bundle ☐ Other –