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HEAT EXCHANGER TECHNICAL SPECIFICATION INQUIRY DATA SHEET
Static Mixing, Reaction & Heat Transfer Technology

Name: _____ Position: _____
Company: _____ Address: _____
City: _____ State: _____ Zip Code: _____ Country: _____
Tel: _____ Fax: _____ E-mail:_____
Project Reference: _____ Date: _____

PROCESS DESIGN & HEAT TRANSFER ENGINEERING DATA

COMPONENT		PROCESS SIDE	HEATING / COOLING MEDIA SIDE
Fluid Name			
Type of Fluid		☐ Viscous Liquid ☐ Viscous Slurry (solid-liquid mixture) ☐ Reacting Viscous Liquid ☐ Other: _____	☐ Heating/Cooling Oil ☐ Heating/Cooling Water ☐ Condensing Steam ☐ Other: _____
Inlet Temperature (^{O}F or ^{O}C)			
Outlet Temperature (^{O}F or ^{O}C)			
Density * (lb/ft^3, lb/gal, kg/m^3,g/cc or specific gravity)			
Specific Heat (BTU/lb·F^{O} or J/kg·K^{O})			
Thermal Conductivity (BTU/hr·ft·F^{O} or W/m·K^{O})			
Max. Allowable Pressure Drop (psi or bar)			
Flow Rate (lb/hr or kg/hr)	Minimum		
	Normal		
	Maximum		
Viscosity [1] (centipoise or Pa·s)	@ Process Inlet Temp.	_____ cp or Pa·s _____ ^{O}C	
	@ Process Outlet Temp.	_____ cp or Pa·s _____ ^{O}C	
	@ Intermediate Process Temp.	_____ cp or Pa·s _____ ^{O}C	
	@ Heating/Cooling Media Inlet Temp.	_____ cp or Pa·s _____ ^{O}C	
Maximum Allowable Process Side Residence Time Requirements, if any (sec or minutes)			

[1] If viscosity is a function of shear rate, supply diagram of shear rate (sec^{-1}) vs. viscosity (centipoise or Pa·s) at Process Inlet Temperature, at Process Outlet Temperature, at Intermediate Process Temperature and at Heating/Cooling Media Inlet Temperature.

See Page 2 for Mechanical Design Engineering Data

MECHANICAL DESIGN ENGINEERING DATA

- Desired Supply by StaMixCo:

  ☐ Mixing Elements Only ☐ Complete Heat Exchanger (Housing + Mixing Elements)

- Maximum Allowable Installation Length: _____

- Flow Direction: ☐ Horizontal Flow ☐ Upward Vertical Flow ☐ Downward Vertical Flow

PIPING & END CONNECTION COMPONENTS	PROCESS SIDE	HEATING / COOLING MEDIA SIDE
Design Pressure (psi or bar)		
Design Temperature (^{O}F or ^{O}C)		
Preferred Pipe / Tube Diameter & Wall Thickness (inches or mm)		
Preferred Materials of Construction (standard materials are316 S/S, 304 S/S)		
Preferred End Connections, Type and Rating	☐ Plain Ends ☐ Ends Prepared for Welding ☐ Threaded Ends ☐ Flanged Ends Type_____ Rating_____ ☐ Other Type of End Connections: _____	☐ Plain Ends ☐ Ends Prepared for Welding ☐ Threaded Ends ☐ Flanged Ends Type_____ Rating_____ ☐ Other Type of End Connections: _____

DESCRIPTION OF APPLICATION / SKETCH (if necessary for clarification)