Please complete this form and include with your RFQ to sales@braskinc.com

TEMA Heat Exchanger Specification Sheet

						Job No.		
Customer:						PO No.		
Address:						Proposal No.		
Plant Location:						Date:	Rev.	
Service of Unit:						Item No.		
Size: / in	TEMA Type:		Hor./Vert:		Connected in:	parallel	series	
Surf/unit(eff.) ft²	Shells/unit				Surf/shell (eff.)		ft²	
PERFORMANCE OF ONE UNIT								
Fluid Allocation			**Shell Side**			**Tube Side**		
			Inlet	Outlet		Inlet	Outlet	
Fluid Name:								
Fluid Quantity, Total:		lb/hr						
Vapor:		lb/hr						
Liquid:		lb/hr						
Steam:		lb/hr						
Water:		lb/hr						
Noncondensable:		lb/hr						
Temperature:		°F						
Density (Vapor / Liquid):		lb/ft³	/			/	/	
Viscosity (Vapor / Liquid):		cP	/			/	/	
Specific Heat (Vapor / Liquid):		BTU/(lb·°F)	/			/	/	
Thermal Conductivity:		BTU/(ft·hr·°F)	/			/	/	
Latent Heat:		BTU/lb @ °F	@			@		
Inlet Pressure (abs):		psia						
Velocity:		ft/s						
Pressure Drop, allowable/calculated:		psi	/			/		
Fouling Resistance (Min.):		(ft²·hr·°F)/BTU						
Average Film Coefficient:		BTU/(ft²·hr·°F)						
Heat exchanged:		BTU/hr	Mean Temperature Difference (MTD)					°F
Transfer Rate, Required:		Fouled:			Clean:			BTU/(ft²·hr·°F)
CONSTRUCTION OF ONE SHELL								
			Shell Side			**Tube Side**		
Design Internal/External/Test pressure:		psig	/			/		
Design Temperature / MDMT:		°F	/			/		
Number of passes:								
Corrosion allowance:		in						
Future Machining Allowance (Tubesheet, Flange, Cover):		in						
Minimum Radiography:								
Special Service (Lethal, Sour, etc.):								
Post-weld Heat Treatment (PWHT) required:								
Connections:	In							
Number/Size/Rating/	Out							
Type and Facing	Intermediate							
	Vent							
	Drain							
	Other							

EXCHANGER CONFIGURATION PER SHELL

Number of Tubes:	Tube OD (in):	Tube thk. (in): (BWG):
Tube type (plain/finned/other):	Tube Pitch (in):	Tube min. or avg. wall:
Tube Length (in):	Tube Layout:	◁ 30 △ 60 □ 90 ◇ 45
Tube to Tubesheet Joint:	Shell Diameter (in): ID/OD:	Girth Flange Type:
Cross Baffle Type:	Number of Cross Baffles:	Baffle Spacing (in):
Baffle Cut (% of Dia.)	Vert. or Horiz. Cut:	Inlet Spacing (in):
Long. Baffle Seal Type:	Tube Support Type:	U-bend Support Type:
Expansion Joint Req. (Y/N):	Expansion Joint Type:	Bypass Seal Type:
Impingement Protection Req. (Y/N):	Impng. Protection Type:	Sets of Spare Gaskets req'd:
Support Type:	Number of Supports:	
ρV² Inlet Nozzle (lb/(ft·s²)):	ρV² Bundle Ent. (lb/(ft·s²)):	ρV² Bundle Exit (lb/(ft·s²)):
Total Weight/Shell Empty (lb):	Full of Water (lb):	Bundle Weight (lb):

Remarks:

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EXCHANGER SKETCH

DESIGN AND CODE REQUIREMENTS

Design Code:	Code Stamp Required:	Calculate MAWP (Y/N):
TEMA Class (R, C, B):	Customer Inspection (Y/N):	Cyclic Service (Y/N):
Baseline UT (Y/N):	Baseline Eddy Current (Y/N):	

DESIGN, OPERATING, AND UPSET CONDITIONS (if applicable)

		Shell Side			Shell	Tube Side			Tubes
	Design	Fluid Temperature		Pressure	Mean Metal	Fluid Temperature		Pressure	Mean Metal
Condition/Case	Cycles	In (°F)	Out (°F)	(psig)	Temp. (°F)	In (°F)	Out (°F)	(psig)	Temp. (°F)

MATERIALS

Tubes:	**Shell Side**	**Tube Side**
Stationary Tubesheet:	Shell:	Channel or Bonnet:
Floating Tubesheet:	Shell Cover/Head:	Channel Cover/Head:
Floating Head Cover:	Girth Flanges:	Girth Flanges:
Cross Baffles:	Gaskets:	Gaskets:
Long. Baffle:	Nozzle Flanges:	Nozzle Flanges:
Tie Rods and Spacers:	Nozzle Necks:	Nozzle Necks:
Supports:	Expansion Joint:	
Insulation Type/Thk:		
External Bolting:		
Internal Bolting:		
Paint Requirements:		

Other Requirements and Applicable Specifications: