



**PRO-THERM**  
 PROCESS AND THERMAL SYSTEMS  
**STEAM GENERATION, HEAT TRANSFER  
 & ENERGY CONSERVATION SPECIALISTS**

**Shell & Tube Heat Exchanger Spec Sheet**

<b>Company</b>		<b>Job No.</b>	
<b>Address</b>		<b>Reference No.</b>	
		<b>Proposal No.</b>	
<b>Installation Address</b>		<b>Date</b>	
		<b>Item No.</b>	
<b>Service</b>		<b>Size Limits?</b>	
<b>Size IDxTube Lgth</b>		<b>TEMA Type</b>	
<b>Horizontal or Vertical?</b>		<b>Connected? Parallel, Series?</b>	
<b>Surf/Unit</b>	sq ft	<b>No. of Shells/Unit</b>	<b>Surf/Shell</b> <span style="float: right;">sq ft</span>
<b>PERFORMANCE OF UNIT</b>			
<b>Fluid Allocation</b>	<b>Shell Side</b>		<b>Tube Side</b>
<b>Fluid Name</b>			
<b>Fluid Quantity, Total (LB/HR)</b>			
<b>-Vapor (In/Out) (LB/HR)</b>			
<b>-Liquid (LB/HR)</b>			
<b>-Steam (LB/HR)</b>			
<b>-Water (LB/HR)</b>			
<b>-Non-condensable (LB/HR)</b>			
<b>Temperature (In/Out) (°F)</b>			
<b>If Non-Standard Fluid</b>	<b>Specific Gravity</b>		
	<b>Viscosity, Liquid (Cp)</b>		
	<b>Molec. Weight, Vapor</b>		
	<b>Molec. Weight, Non-Con</b>		
	<b>Specific Heat (BTU/LB°F)</b>		
	<b>Thermal Conductivity (BTU FT/HR SQFT°F)</b>		
	<b>Latent Heat (BTU/LB)</b>		
<b>Inlet Pressure</b>			
<b>Velocity</b>			
<b>Pressure Drop, (Allow/Calc) Psig</b>			
<b>Fouling Resistance (Min.)</b>			
<b>Heat Transferred (Btu/Hr)</b>			<b>MTD (°F)</b>
<b>Clean Transfer Rate (Btu/Hr Sq Ft °F)</b>		<b>Service Transfer Rate (Btu/Hr Sq Ft °F)</b>	
Please Provide Data for Items in Shaded Cells. Starred Topics are Optional. Provide if Available.		Protherm will Complete Non-Shaded Cells.	



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CONSTRUCTION OF ONE SHELL							
		Shell Side			Tube Side		
Design/Test Pressure PSIG							
Design Temperature (°F)							
Passes Per Shell							
Corrosion Allowance (In.)							
Connection *Sizes, Types Ratings	In						
	Out						
	Intermediate						
Tube No.		OD:	Thk:	Lgth:		Pitch	
*Tube Type				Tube Matl			
Shell Matl		ID:	OD:	Shell Cover Matl			
Channel or Bonnet Matl				Channel Cover Matl			
Tubesht-Stationary Matl				Tubesht-Floating Matl			
Floating Head Cover Matl				Impingement Prot.			
Baffles- Cross Matl		Baffles-Long Matl				Seal	
Type		% Cut		Spacing		Inlet	
Gasket Matl-Shellside					Tube-Tubesheet Joint		
Gasket Matl-Tubeside					Gasket Matl Floating Hd		
ASME Code Requirements					TEMA Class		
Weight/Shell		Filled With Water				Bundle	
*Remarks and/or Sketch							

\*Attach Additional Sheets if Needed.