



Tricor Metals
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 Fax: 330-264-1181

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Texas Division
 3517 North Loop 336 West
 Conroe, Texas 77304
 Phone: 936-273-2661
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Tricor Metals
Michigan Division
 44696 Helm St.
 Plymouth, MI 48170
 Phone: 734-454-3485
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Astrolite / Tricor Alloys
California Division
 201 Bernoulli Circle, Units B & C
 Oxnard, CA 93030
 Phone: 805-487-7131
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www.tricormetals.com www.tricoralloys.com www.astrolite.com

Tricor Metals - Shell & Tube Heat Exchanger Sizing Design Form

Contact Information

Company Name			
Street address		City	
State		Zip code	
Contact Name			
Email		Phone number	
General Process Objective		Length or size limitations	

Process Information

Exchanger Type		TEMA Class	
Hot Side Location (Shell side or Tube Side)			
Hot Side Fluid		Cold Side Fluid	
Hot Side Flow Rate IN (LB/HR)		Cold Side Flow Rate IN (LB/HR)	
Hot Side Flow Rate OUT (LB/HR)		Cold Side Flow Rate OUT (LB/HR)	
Hot Side Vapor IN (LB/HR)		Cold Side Vapor IN (LB/HR)	
Hot Side Vapor Out (LB/HR)		Cold Side Vapor Out (LB/HR)	
Hot Side Liquid IN (LB/HR)		Cold Side Liquid IN (LB/HR)	
Hot Side Liquid Out (LB/HR)		Cold Side Liquid Out (LB/HR)	
Hot Side Noncondensable IN (LB/HR)		Cold Side Noncondensable IN (LB/HR)	
Hot Side Noncondensable OUT (LB/HR)		Cold Side Noncondensable OUT (LB/HR)	
Hot Side Temp IN (°F)		Cold Side Temp IN (°F)	
Hot Side Temp OUT (°F)		Cold Side Temp OUT (°F)	
Hot Side Density IN (LB/FT ³)		Cold Side Density IN (LB/FT ³)	
Hot Side Density OUT (LB/FT ³)		Cold Side Density OUT (LB/FT ³)	
Hot Side Specific Heat Capacity IN (BTU/(LB°F))		Cold Side Specific Heat Capacity IN (BTU/(LB°F))	
Hot Side Specific Heat Capacity OUT (BTU/(LB°F))		Cold Side Specific Heat Capacity OUT (BTU/(LB°F))	
Hot Side Thermal Conductivity IN (BTU/HR/(FT*°F))		Cold Side Thermal Conductivity IN (BTU/HR/(FT*°F))	
Hot Side Thermal Conductivity OUT (BTU/HR/(FT*°F))		Cold Side Thermal Conductivity OUT (BTU/HR/(FT*°F))	
Hot Side Latent Heat IN (BTU/LB)		Cold Side Latent Heat IN (BTU/LB)	
Hot Side Latent Heat OUT (BTU/LB)		Cold Side Latent Heat OUT (BTU/LB)	
Hot Side Pressure IN (PSIG)		Cold Side Pressure IN (PSIG)	
Hot Side Pressure OUT (PSIG)		Cold Side Pressure OUT (PSIG)	
Hot Side Allowable Pressure Drop (PSI)		Cold Side Allowable Pressure Drop (PSI)	
Hot Side Fouling Resistance (min.)(FT ² *HR*°F/BTU)		Cold Side Fouling Resistance (min.)(FT ² *HR*°F/BTU)	
Hot Side Heat Exchanged (BTU/HR)		Cold Side Heat Exchanged (BTU/HR)	
Hot Side Design Pressure/Vacuum Rating (PSIG)		Cold Side Design Pressure/Vacuum Rating (PSIG)	
Hot Side Materials of Construction		Cold Side Materials of Construction	
Other Notes / comments			