

GRAPHITE HEAT EXCHANGER - Questionnaire



MB Plastics Europe
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Application : Phosphoric acid evaporator

Section A: Customer information

Company: <input style="width: 90%;" type="text"/>	Contact name: <input style="width: 90%;" type="text"/>	Phone: <input style="width: 90%;" type="text"/>
Date: <input style="width: 90%;" type="text"/>	Quote for: <input type="checkbox"/> Budget <input type="checkbox"/> Urgent	

Section B: Fluid parameters	Tube Side	Shell Side	Unit
% P2O5 or H3PO4 *			W/W
Suspended solids if any / presence of impurities if any Please specify composition			Wt %
Total flow rate / Recirculation rate *			Kg/hr
Inlet temperature *			°C
Outlet temperature *			°C
Density (N)			Kg/m ²
Viscosity (N)			Kg/m ³
Specific heat *			Cp
Thermal conductivity (N)			Kcal / kg. °C
Fouling factor *			Kcal/hr. m . °C
Operating pressure <input type="checkbox"/> Gauge <input type="checkbox"/> Absolute *			Kg/cm ²
Allowable pressure drop *			Kg/cm ²
Length or height / Space restrictions (if any)			
Material of construction (Specific requirement if any)	(N2)		
Flange rating	<input type="checkbox"/> ASA#150	<input type="checkbox"/> PN10	<input type="checkbox"/> JIS

Section C: Unit design parameters

20) Nozzles Note : Nozzle sizes will be based on given flow rates. (If any specific requirement please specify.)	
Design pressure	Kg/cm ² g
Design temperature	°C
Mechanical Design code	
Notes / Remarks if any	*Tubes will be with carbon fiber reinforcement (wrapping) Domes: SS904L with SA516 Gr.70 OR Rubberlined CS A 516 Gr.70 Shell with bottom 1.5 mtr in SS316L OR SS904L (Please specify) Insulation will not be in our scope of supply however we will provide insulation cleats

*: Mandatory, (N): Not mandatory GIL will consider suitable parameters if not available.

(N2): Tube*, Tubesheets*, Baffles: Phenolic Impregnated Graphite (SA-516 (All Grade))