



VACUUM PROCESS ENGINEERING

110 COMMERCE CIRCLE SACRAMENTO, CA 95815

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W VPEI.COM

CUSTOMER INFORMATION					
DATE					
CUSTOMER NAME		PHONE			
ATTENTION		EMAIL			
ADDRESS					
PROJECT			QUOTE DUE DATE		
FORMAL QUOTE REQUIRED		YES <input type="checkbox"/> NO <input type="checkbox"/>			
TYPE of QUOTATION		BUY <input type="checkbox"/> BUDGET <input type="checkbox"/> DESIGN <input type="checkbox"/>			
MICROCHANNEL HEAT EXCHANGER					
		HOT SIDE		COLD SIDE	
STREAM NAME (e.g., water, CO2, etc.)					
		IN	OUT	IN	OUT
COMPOSITION (IF MIXED FLUID)		%			
		%			
		%			
FLUID FLOW RATE (TOTAL)		kg/hr			
VAPOR (IN/OUT)		kg/hr			
LIQUID (IN/OUT)		kg/hr			
STEAM (IN/OUT)		kg/hr			
WATER (IN/OUT)		kg/hr			
NONCONDENSABLES		kg/hr			
TEMPERATURE (IN/OUT)		°C			
DENSITY (VAP/FLUID)		kg/m ³			
VISCOSITY (VAP/FLUID)		cP			
MOLECULAR WEIGHT (VAP/FLUID)		kg/kmol			
SPECIFIC HEAT (VAP/FLUID)		kJ/kg-K			
THERMAL CONDUCTIVITY (VAP/FLUID)		W/m-K			
LATENT HEAT		J/kg			
PRESSURE (IN)		barg			
VELOCITY (IN/OUT)		m/s			
PRESSURE DROP (ALLOW./CALC.)		barg			
FOULING RESISTANCE (MIN.)		m ² -K/W			
HEAT EXCHANGED		kW			
LMTD (LMTD CORRECTED)		°C			
TRANSFER RATE (SERVICE/CLEAN)		W/m ² -K			
AREA (CLEAN/FOULED)		W/m ² -K			
CONSTRUCTION OF SHELL					
		HOT SIDE		COLD SIDE	
DESIGN TEMP (MIN/MAX)		°C			
DESIGN/TEST PRESSURE		barg			
CORROSION ALLOWANCE		mm			
CONNECTIONS SIZE AND RATING		IN			
		OUT			
		INTERMEDIATE			
INSULATION					
MATERIAL OF CONSTRUCTION					
NOZZLE					
FLANGE					
HEADER					
CORE					
DESIGN DATA					
DESIGN CODE					
ASME CODE STAMP (YES/NO)					
AMBIENT TEMPERATURE		°C			
GENERAL NOTES					
1.					
2.					