

REACTOR OPERATING CONDITIONS

Vessel Contents

Initial Temperature [°F]: _____
 Final Temperature [°F]: _____
 Overall Process Range: _____
 Product: _____
(Name a common chemical representative of your product or fill in the below specifications at two different reference temperatures)
 Reference Temperature No. 1 [°F]: _____
 Specific Gravity: _____
 Specific Heat [Btu/lb-°F]: _____
 Thermal Conductivity [Btu/ft-hr-°F]: _____
 Viscosity [cP]: _____
 Reference Temperature No. 2 [°F]: _____
 Specific Gravity: _____
 Specific Heat [Btu/lb-°F]: _____
 Thermal Conductivity [Btu/ft-hr-°F]: _____
 Viscosity [cP]: _____
 Batch cycle time [hours]: _____
 Cooling load [BTU/hr]: _____
 Heating load [BTU/hr]: _____
 Endothermic or exothermic reaction [Rate of Reaction]: _____
 Typical batch conditions (Describe steps of process such as a typical heating and/or cooling operation): _____

Jacket Contents

Inlet Temperature [°F]: _____
 Volume Flow Rate [gpm]: _____

 (for liquid only)
 Media: _____
(Name a common fluid representative of your heat transfer media or fill in the below specs at two different reference temperatures)
 Reference Temperature No. 1 [°F]: _____
 Specific Gravity: _____
 Specific Heat [Btu/lb-°F]: _____
 Thermal Conductivity [Btu/ft-hr-°F]: _____
 Viscosity [cP]: _____
 Reference Temperature No. 2 [°F]: _____
 Specific Gravity: _____
 Specific Heat [Btu/lb-°F]: _____
 Thermal Conductivity [Btu/ft-hr-°F]: _____
 Viscosity [cP]: _____

Site Information

New building: Yes No Existing building: Yes No
 Skid space available [ft]: Length _____ Width _____ Height _____
 Distance from heat transfer module [ft]: _____
 Elevation from reactor to heat transfer module [ft]: _____

Return Completed Questionnaire

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