

Please fax to:
Fax# 803-980-2881

Americas VTA

Thin Film Evaporators · Molecular Distillation

Questionnaire for preliminary projections

The answers to this Questionnaire will enable Americas VTA to help provide estimations of: feasibility of process by vacuum distillation; preliminary process design and plant-size; budget pricing for investment analysis

Project/Product Designation _____ Date _____
Name _____ Responsibility _____ Telephone _____
Email _____ Fax _____
Alt. Contact _____ Responsibility _____ Telephone _____
Email _____ Fax _____
Company _____
Address _____

1.) General Data

- 1.1.) Should we offer a complete unit operation or do you require only components to be offered? complete system only components
- 1.1.) Is vacuum required for the distillation? yes no
- 1.3.) Maximum allowable temperature over time of the product: _____ °F for _____ Minutes
- 1.4.) Does the product contain solids? yes no particle size: _____

2.) Information to the planned unit:

- 2.1.) Feed quantity: _____ lb/hr Feed temperature _____ °F
- 2.2.) Time of operation: _____ hr/day _____ d/week _____ hr/year
- 2.3.) Acceptable process wetted materials (e.g. 316L): _____
- 2.4.) Required material for gaskets (e.g. Viton): _____
- 2.5.) Is explosion proof design required? yes no classification: _____
- 2.6.) Available space at site: length: _____ width: _____ height: _____
- 2.7.) Is cGMP design required? yes no
- 2.8.) Which components should be offered for the requested system?
Generally a quotation for a complete unit contains the following components:
- | | | | |
|----------------------------|--------------------------|-----------------------------|--------------------------|
| - Evaporator | <input type="checkbox"/> | - Feed and discharge pumps | <input type="checkbox"/> |
| - Vacuum pumps | <input type="checkbox"/> | - Piping and buffer vessels | <input type="checkbox"/> |
| - Required heat exchangers | <input type="checkbox"/> | - Measuring instruments | <input type="checkbox"/> |
| - Control panel | <input type="checkbox"/> | | |
- Additional options:
- Programmable logic control (PLC) - Massflow meters for all flows
- Others: _____

3.) Available utilities on site:

- Steam _____ PSIG Hot oil _____ °F
- Cooling water _____ °F Brine _____ °F
- Electrical supply: Voltage: _____ V Frequency: _____ Hz
- Instrument air: _____ psig

4.) What is the present status of the project and when will it be realized?

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Details about feed material, distillate and residue

		Unit of Measure	Feed Material	Distillate 1	Distillate 2 (for the design of a double stage unit if required)	Residue
Composition						
	Names of Components					
A		mass %				
B						
C						
Goals of distillation regarding Quality and other Specifications						
Color						
Odor						
Others						
Boiling Points		°F at 760 mmHg				
		°F atmmHg				
Melting Point		°F				
Viscosity at reference temperature		m Pa s (CP), °F				
Other observations concerning Viscosity			<input type="checkbox"/> pasty	<input type="checkbox"/> pasty	/	<input type="checkbox"/> pasty
			<input type="checkbox"/> viscous at.....°F	<input type="checkbox"/> viscous at.....°F		<input type="checkbox"/> viscous at.....°F
			<input type="checkbox"/> liquid	<input type="checkbox"/> liquid		<input type="checkbox"/> liquid
Specific Heat		BTU/lb °F				
Latent heat of evaporation		BTU/lb				