

Answer to:
VTA Verfahrenstechnische Anlagen GmbH & Co. KG
Bernrieder Str. 10
D-94559 Niederwinkling
Fax: +49 (0) 9962-9598-200; e-mail info@vta-process.de



Questionnaire for preliminary projection with reference to

Request for quotation for a Wiped Film or Short Path Distillation Unit, dated:

Please, complete the questionnaire as far as possible

Company:.....

For estimation of (please select):

Address:.....

• Feasibility of process by

.....

Vacuum Distillation

Responsibility:

• Process design and plant-size

Tel. No. with extension:

• Budget for investment

Fax-No.:

Project title/Product:

1) General Data:

1.1) Quotation for: ☐ components ☐ complete unit

1.2) Is vacuum required for the distillation? ☐ no ☐ yes

1.3) Are solids in the feed? ☐ no ☐ yes, particle size: μm

1.4) Do you have experience in distilling the product? ☐ no ☐ yes

- If "yes", which kind of experience?

- Have you already made preliminary tests on Wiped Film or Short Path Evaporators?

- Which ones?

- Which process was used up to now?

- Is the substance foaming?

- Additional important information:.....

2) Information to the projected unit (please, answer as far as available):

2.1) Feed quantity: kg/hr or l/h

2.2) Density of the feed: kg/m^3

2.3) Temperature of the feed product in initial state: $^{\circ}\text{C}$

2.4) Melting point of feed: $^{\circ}\text{C}$

2.5) Viscosity of the feed: $\text{mPa}\cdot\text{s}$

2.6) Specific heat capacity of the feed: $\text{kJ/kg}\cdot\text{K}$

2.7) Maximum allowable temperature of the product: $^{\circ}\text{C}$

2.8) Melting point of the distillate: $^{\circ}\text{C}$

2.9) Melting point of the residue: $^{\circ}\text{C}$

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2.10) Viscosity of the residue: mPas

2.11) Vapour pressure of the distillate: mbara at °C

2.12) Is a vapour pressure diagram of the distillate available? If "yes", please attach.

2.13) Required fabrication material for product wetted parts (e.g. 1.4571):

2.14) Required material for gaskets (e.g. FKM / Viton):

2.15) Available space on-site: length:m, width:m, height: m

2.16) Time of operation: hr/d, hr/a

2.17) Is explosion proof design required? ☐ no ☐ yes

If "yes", classification according to code 94/9/EG (e. g. ATEX II2G IIB T2):

2.18) Which components should be offered for the requested unit (tick where applicable)?

- | | |
|---|-------------------------------------|
| - Evaporator | ☒ |
| - Feed and discharge pumps | ☐ |
| - Vacuum pumps | ☐ |
| - Buffer vessels | ☐ |
| - Required heat exchangers | ☐ |
| - Cooling and heating units | ☐ |
| - Product piping | ☐ |
| - Vacuum piping | ☐ |
| - Utility piping | ☐ |
| - Measuring instruments | ☐ |
| - Switch cabinet with manual control elements (= MCE) | ☐ |
| - Switch cabinet with MCE, programmable logic control (= PLC) | ☐ |
| - Switch cabinet with PLC, PC SCADA system (visualization) | ☐ |
| - Others: | ☐ |

.....

3) Available utilities on-site:

- | | | |
|--|------------------------------------|-------------------------------------|
| ☐ Steam: barg, | ☐ saturated | ☐ overheated |
| ☐ Thermal oil: °C, | supply pressure: barg | |
| ☐ Hot water: °C, | supply pressure: barg | |
| ☐ Cooling water °C, | supply pressure: barg | |
| ☐ Refrigerant °C, | supply pressure: barg | |

4) Available electrical supply on-site:

Power grid: Quantity of phases:, loadable neutral wire: ☐ no ☐ yes
Voltage: V, Frequency: Hz

5) In which state is the project, when will it be realized?

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		unit	feed material	distillate 1	distillate 2 (for the design of a double stage unit, if required)	residue
composition						
	name of components					
substance A		mass %				
substance B						
substance C						
aim of distillation, quality, specification						
colour						
odor						
others						
boiling point		°C, at 1000 mbara				
		°C, atmbara				
melting point		°C				
viscosity at reference temperature		m Pa·s (cP), at°C				
other data concerning the viscosity			☐ pasty	☐ pasty		☐ pasty
			☐ viscous, at°C	☐ viscous, at°C		☐ viscous, at°C
			☐ liquid	☐ liquid		☐ liquid
molecular weight		g/mol				
specific heat		kJ/kg·K				
heat of evaporation		kJ/kg				