

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: $^{\circ}\text{C}$



- 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:

- | | | |
|--|------------------------------------|-------------------------------------|
| <input type="checkbox"/> Steam: barg, | <input type="checkbox"/> saturated | <input type="checkbox"/> overheated |
| <input type="checkbox"/> Thermal oil:..... °C, | supply pressure: barg | |
| <input type="checkbox"/> Hot water: °C, | supply pressure: barg | |
| <input type="checkbox"/> Cooling water °C, | supply pressure: barg | |
| <input type="checkbox"/> 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		<input type="checkbox"/> pasty	<input type="checkbox"/> pasty		<input type="checkbox"/> pasty
		<input type="checkbox"/> viscous, at°C	<input type="checkbox"/> viscous, at°C		<input type="checkbox"/> viscous, at°C
		<input type="checkbox"/> liquid	<input type="checkbox"/> liquid		<input type="checkbox"/> liquid
molecular weight	g/mol				
specific heat	kJ/kg·K				
heat of evaporation	kJ/kg				