

**QUESTIONARY**

Phone.: +49 (0)7641 95 95 700



**THERMAL GENERAL**

Fax: +49 (0)7641 95 95 701

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Carl-Zeiss-Str. 11, D-79331 Teningen

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Company:

Contact person:

Project:

Date:

Phone:

Fax:

Email:

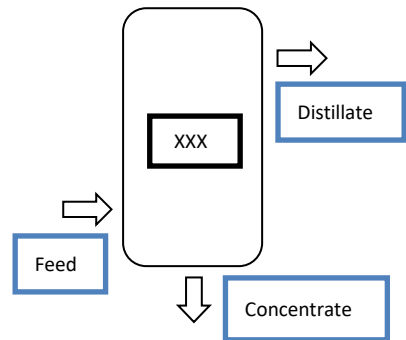
Process description:

**1 Process Data \*1)**

Composition [mass %]	Feed - data	Distillate - limits	Concentrate - limits
Solids in solution			
Solids suspended			
Capacity nom. (100%) [kg/h]			
min/max [%] =			
Temperature [°C]			
Pressure [mbar (a)]			
Density [kg/m³]			
Dyn. viscosity [mPa s]			
Heat conductivity [W/mK]			
Specific heat [kJ/kgK]			
Evaporation heat [kJ/kg]			
Molecular weight			
Consistency			

Operating time [h/d] .....

Heating medium:	
Temp. in/out [°C]	
Pressure in/out [bar (g)]	
Aggregate state	<input type="checkbox"/> liquid <input type="checkbox"/> vaporous
Coolant:	
Temp. in/out [°C]	
Pressure in/out [bar (g)]	
Compressed air:	
Pressure [bar (g)]	..... amount [Nm³/min] .....
oil.free	<input type="checkbox"/> yes <input type="checkbox"/> no



\*1): In case you have got a detailed analysis, please attach them to your email.  
Please attach predetermined connection data as well.

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**THERMAL GENERAL****2 Process Media**

Characteristics of feed  solution  suspension  emulsion  foaming (defoamer.: .....)

abrasive  cont. solids  plating out  other: .....

if necessary: identification number (CAS-No.): .....

Requirements distillate  recovery  disposal (disposal costs [€]: .....)

direct discharge required purity .....

other: .....

Requirements concentrate  recovery  disposal

required value (concentration, density, etc.): .....

tends to (at ... °C)  crack (.....)  polymerize (.....)  deposit (.....)

sedimentate (.....)  decompose (.....)  other: .....

**3 Apparatus data**

Task  dry  crystallise  vaporate  solvent recovery

Type of apparatus  Heat pump evaporator  natural circulation  forced circulation

falling film  mechanical vapor recompression

single stage  multi stage

Installation type  indoor  outdoor  in structure

self-supporting available floor space (l x w x h) [m]:

Design code  AD-Merkblätter  ASME  other: .....

Factory standards .....  are attached  none

**Design data**

max. operating pressure product side [bar (g)] .....

heating medium [bar (g)] .....

max. operating temperature product side [°C] .....

heating medium [°C] .....

Materials product side: ..... heating medium: .....

gaskets: .....

Shaft seal  single mechanical seal  double mechanical seal  other

make: .....

Speed control  given speed  frequency controlled make: .....

Electric data  ..... -phase ..... V ..... Hz  neutral

Design according to  GMP  CIP  SIP  FM  other

ATEX: safety-zone: ..... temp.-class: .....

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**THERMAL GENERAL****4 Costs**disposal costs [€/m<sup>3</sup>]      feed ..... residues .....

Energy costs [ct/kWh]      electricity ..... cooling \_\_\_\_\_

heating .....

**5 Scope of Quotation**

- |   |   |   |
|---|---|---|
| <input type="checkbox"/> apparatus      | <input type="checkbox"/> complete plant   | <input type="checkbox"/> skid-unit      |
| <input type="checkbox"/> operator panel | <input type="checkbox"/> PC-visualization | <input type="checkbox"/> S7-programming |
| <input type="checkbox"/> other: .....   |   |   |

further proceeding:       laboratory testing       pilot testing       visit**6 Type of Quotation**

- |                                       |                                      |
|---------------------------------------|--------------------------------------|
| <input type="checkbox"/> budget price | <input type="checkbox"/> fixed price |
| date .....                            | realisation time .....               |

**7 Annotations**

Space for your annotations, wishes or questions:

Try to answer this questionnaire as precise as possible so that we can provide a suitable offer to you. In case you have any questions or problems, do not hesitate to contact us. We discuss you with pleasure!