

QUESTIONARY

THERMAL GENERAL

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 Email: info@schulzpartner.com
 Carl-Zeiss-Str. 11, D-79331 Teningen



Company:		Date:	
Contact person:		Phone:	
Project:		Fax:	
		Email:	

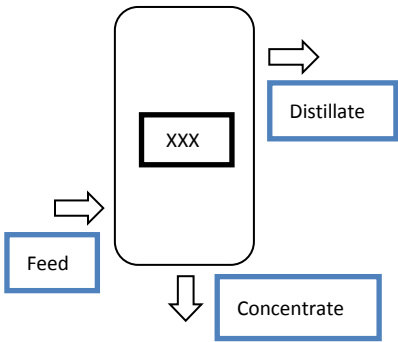
Process description:

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]	
Druck 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: EEx-type: safety-zone: temp.-class:

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THERMAL GENERAL**4 Costs**

disposal costs [€/m³] 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!