

Please reply to:

UIC GmbH
Am Neuen Berg 4
63755 Alzenau
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Design Questionnaire for Industrial-Scale Thin-Film or Short-Path Distillation Plants

Date:

Company:

.....

Address:

.....

.....

Person in charge:

.....

Phone extension:

.....

Email address:

.....

Project Name/Purpose/Product:

To estimate:

- General applicability of vacuum distillation
- Plant configuration and size
- Investment volume

1.) Scope of the offer:

- **Base scope:**
 - Evaporator
 - Feed & discharge pumps
 - Vacuum pumps
 - Piping and buffer tanks
 - Required heat exchangers
 - Cooling & heating units
 - Measurement technology & instrumentation
 - Steel construction
- **Optional items:**
 - Control cabinet with control elements
 - Control cabinet with control elements, PLC
 - Control cabinet with PLC, visualization/operation via PC
 - Stairs
 - Other:

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2.) Information about the product to be processed:

2.1.) Which product needs to be purified or concentrated?

Does the product contain any solids? no yes, particle size: μm

How many volatile components (water, solvents, etc.) are present?

2.2.) What is the purpose of the distillation?
.....
.....

2.3.) Is there any experience with handling the product? no yes

If „yes“, which?
.....
.....

What is the key challenge of the separation task?
.....
.....

2.4.) Are the crude material, concentrate, or distillate corrosive to stainless steel? no yes

If „yes“, which materials are resistant?

.....

3.) Details of the planned system & design relevant factors:

3.1.) Feed rate: kg/h or l/h

3.2.) What is the temperature of the raw material in its initial state? $^{\circ}\text{C}$

3.3.) What melting points can be expected?

Crude material $^{\circ}\text{C}$, concentrate $^{\circ}\text{C}$, distillate $^{\circ}\text{C}$

3.4.) What viscosities can be expected?

Crude material mPas, concentrate mPas, distillate mPas

3.5.) Operating time: h/d, or h/a

3.6.) Materials required for the gaskets (e.g., FKM/Viton):

3.7.) Space constraints:

Length: m, width m, height m

3.8.) What standards or requirements must be met?

ATEX

ASME

Company-specific

Food-grade

FDA/EC1935

PED, AD2000

Pharma/GMP

Other:

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4.) Which THREE of the following ASPECTS are the HIGHEST PRIORITY for the project?

- | | | |
|--|---|--|
| <input type="checkbox"/> Quality of valuable product | <input type="checkbox"/> Plant reliability | <input type="checkbox"/> Cleanability |
| <input type="checkbox"/> Yield of valuable product | <input type="checkbox"/> Low maintenance | <input type="checkbox"/> Price |
| <input type="checkbox"/> Safety | <input type="checkbox"/> Spare parts availability | <input type="checkbox"/> Lead time |
| <input type="checkbox"/> Ease of use | <input type="checkbox"/> After-sales support | <input type="checkbox"/> Documentation |
| <input type="checkbox"/> Energy consumption | <input type="checkbox"/> Scalability/flexibility | <input type="checkbox"/> Manufacturer's reputation |

5.) Available utilities at the installation site:

- Steam (..... barg)
- Thermal oil (..... °C)
- Hot water (..... °C)
- Cooling water (..... °C)
- Cooling medium (..... °C)
- Nitrogen (gas)
- Liquid nitrogen (..... °C)

6.) Site conditions:

- Indoor installation
- Outdoor installation without existing steel structure
- Outdoor installation within existing steel structure
- Outdoor installation with weather protection

Special site conditions:

.....

7.) Electrical power supply:

- 7.1.) Earthing system: TN TT IT unknown
- 7.2.) Number of phases:
- 7.3.) Neutral conductor (current-carrying): yes no
- 7.4.) Voltage: V
- 7.5.) Frequency: Hz

8.) What is the planned project timeline?

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