SYNOTHERM® HEAT EXCHANGER

Form for Dimensioning of your Heat Exchangers

1. Sender

Customer code: Date:

Company:

Name:

Street:

State / Town / Postcode:

Telephone:

eMail:

2. Treatment - Liquid to be tempered

For the selection of the suitable material please send us
the technical data sheet **and** the safety data sheet of the process liquid.

Process liquid:

Chemical composition:

pH-value:

Chemical entrainment: ◉ yes, Type: ○ no

3. Tank

Material: Side thickness (mm):

Insulation: ○ yes ◉ no

Insulation material: Side thickness (mm):

Ambient temperature (°C):

Required heating up time (h):

Working temperature process liquid (°C):

Place of installation: ○ indoors ○ outside

Fume extraction (m/s) ◉ yes: ○ no

Lid (%) ○ yes: ◉ no

Tank dimensions in mm (clear values):

Lenght: Widht: Height:

Diameter: Height:

Liquid level (mm): min: max:

4. Material to be treated

Material:

Weight per hour (kg/h):

Start temperature (°C):

5. Mounting possibilities heat exchanger

Assembly in tank: ○ Long side ○ Narrow side ○ Bottom
○ Both long sides ○ Both narrow sides

Available space in mm (clear values):

Lenght: Height: Depth:

6. Operating data heat exchanger

Desired heating up power of the heat exchanger (kW):

Desired operation power of the heat exchanger (kW):

Heat exchanger medium:

○ Water ○ Water/Glykol ○ Heat transfer oil ○ Steam

○ Other:

Flow temp. (inlet/supply): Min. flow temp. (outlet/return):

Operating pressure PS (bar):

Material of the heat exchangers:

Stainless steel: ○ 1.4301 / AISI 304 ○ 1.4404 / AISI 316 L
○ 1.4571 / AISI 316 Ti ○ Titanium 3.7035 / grade 2

○ Stainless steel with polymer coating ○ Polymer heat exchanger

7. For cooling applications

Desired cooling power of the exchanger (kW):

Exothermic heat:

Temperature increase from °C to °C in h

Rectifier power for the respective process:

Voltage (V, DC): Current (A):

Efficiency of the electrolyte (%):

Duty-cycle of the plating voltage (h):

Quantity of rectifiers:

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