

Customer	
Department	
Referee	
Phone/Fax	



TECHNICAL DATA FOR SHELL&TUBE HEAT EXCHANGER

General information

(description, function, operating and assembly conditions, permissible limits, VDE degree of protection)

Regulations for acceptance

(i.e.: TÜV / ASME / TEMA / Germanischer Lloyd / American Bureau of Shipping / Det Norske Veritas / Bureau Veritas)

transfer capacity	<input type="checkbox"/> incl. / <input type="checkbox"/> excl. pump capacity	kW	
No. of heat exchangers for 100% capacity		piece	
Data for the primary side		<input type="checkbox"/> around the pipes	<input type="checkbox"/> through the pipes
Data for the medium (name, material values, aggressiveness)			
flow rate (reference condition for the nominal flow rate)		m ³ / h , °C, mbar	°C mbar
in / outlet temperature of heat exchanger		°C	in= out=
contamination factor (fouling factor) or surface reserve		m ² *K / W or %	
permissible pressure drop in the heat exchanger		mbar	
design overpressure in the heat exchanger		bar	
test overpressure / test temperature		bar / °C	bar °C

Data for the secondary side

Data for the medium (name, material values, aggressiveness)			
flow rate (reference condition for the nominal flow rate)		m ³ / h (°C, mbar)	°C mbar
in / outlet temperature of heat exchanger		°C	in= out=
contamination factor (fouling factor) or surface reserve		m ² *K / W or %	
permissible pressure drop in the heat exchanger		mbar	
design overpressure in the heat exchanger		bar	
test overpressure / test temperature		bar / °C	bar °C

Selection of the cooling system

<input type="checkbox"/> plain ended tubesystem	<input type="checkbox"/> circular tube	<input type="checkbox"/> elliptical oval-tube	<input type="checkbox"/> flat tube
<input type="checkbox"/> single fin tubesystem	<input type="checkbox"/> fins coiled up	<input type="checkbox"/> fin base soldered up	<input type="checkbox"/> extruded fins
fin material	<input type="checkbox"/> copper	<input type="checkbox"/> aluminium	<input type="checkbox"/> steel
<input type="checkbox"/> standard tubesystem	<input type="checkbox"/> safety-double tubesystem		

Selection of the material

<input type="checkbox"/> fixed tubesheet bundle	<input type="radio"/> with compensator	<input type="radio"/> with diaphragm tubeplates	<input type="radio"/> no compensator
<input type="checkbox"/> U-tube bundle			
<input type="checkbox"/> floating tubesheet bundle	<input type="radio"/> single O-ring seal	<input type="radio"/> double O-ring seal	
<input type="checkbox"/> floating head bundle	<input type="radio"/> head inside	<input type="radio"/> head outside	
<input type="checkbox"/> tubes rolled into tube plates	<input type="checkbox"/> tubes welded on to the tube plates		
<input type="checkbox"/> chambers screwed to tube plates (can be dismantled)	<input type="checkbox"/> chambers welded on to tube plates (can not be dismantled)		

Selection of the material

tubes	<input type="checkbox"/> high grade steel 1.	<input type="checkbox"/> SF/SB-Cu	<input type="checkbox"/> CuZn28Al	<input type="checkbox"/> CuZn20Al	<input type="checkbox"/> CuNi10Fe	<input type="checkbox"/> CuNi30Fe
tube plates	<input type="checkbox"/> high grade steel 1.	<input type="checkbox"/> St37 / HII +EP-coating	<input type="checkbox"/> CuZn38SnAl	<input type="checkbox"/> CuNi10Fe	<input type="checkbox"/> CuNi30Fe	
headers	<input type="checkbox"/> high grade steel 1.	<input type="checkbox"/> St37 / HII +Ocoating	<input type="checkbox"/> grey cast iron	<input type="checkbox"/> cast bronze	<input type="checkbox"/> CuNi10Fe	
shell / casing	<input type="checkbox"/> high grade steel 1.	<input type="checkbox"/> St37 / HII +Ocoating	<input type="checkbox"/> grey cast iron	<input type="checkbox"/> cast bronze	<input type="checkbox"/> CuNi10Fe	
seals	<input type="checkbox"/> NBR (Perbunan)	<input type="checkbox"/> KLINGERSIL 4400	<input type="checkbox"/> CR-Neoprene	<input type="checkbox"/> EPDM	<input type="checkbox"/> Viton	