

<b>Kunde</b>	
Abteilung	
Bearbeiter	
Telefon/Fax	



## TECHNICAL DATA FOR HEAT EXCHANGER AIR/WATER

### **General information**

(Description, Function, Operating conditions, Assembly conditions, Permissible limits, VDE degree of protection )

### **Regulations for acceptance**

(f. 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. capacity of blowers+pumps	kW	
No. of heat exchanger elements for 100% transfer capacity		piece	
operating altitude of the plant		m.o.N.N.	
<b>Data for the air side</b>			
data for the air quality (rel. humidity, aggressiveness)		% rel.humidity	
air flow rate		m <sup>3</sup> /h	
reference condition for the nominal circulating air		°C, mbar	°C mbar
inlet/outlet temperature of the heat exchanger		°C	in= out=
contamination factor (fouling factor) or surface reserve		m <sup>2</sup> *K/W or %	
permissible pressure drop in the heat exchanger		mbar	
<b>Data for the water side</b>			
data for the type of water and the water quality (results of water analysis)			
anti-freezing portion		%	
total flow rate		m <sup>3</sup> /h	
inlet/outlet temperature of heat exchanger		°C	in= out=
contamination factor (fouling factor) or surface reserve		m <sup>2</sup> *K/W or %	
permissible pressure drop in heat exchanger		mbar	
design overpressure in heat exchanger		bar	
test overpressure		bar	
design temperature		°C	

### **Selection of the cooling system**

<input type="checkbox"/>	<b>single finned tube system</b>	<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"/>	<b>compound finned tube system</b>	<input type="checkbox"/> connection fin / tube by dip-tinning	<input type="checkbox"/> connection fin / tube by dip-zincing	
	fin material	<input type="checkbox"/> copper	<input type="checkbox"/> steel	<input type="checkbox"/>
<input type="checkbox"/>	<b>lamella tube system</b>	<input type="checkbox"/> connection lamella / pipe by hydromechanical tube expansion		
	lamella material	<input type="checkbox"/> copper (CuZn0.5)	<input type="checkbox"/> aluminium (AlMg3)	<input type="checkbox"/>
<input type="checkbox"/>	plain tube system	<input type="checkbox"/> safety double tube system		
<input type="checkbox"/>	header screwed to tube plate	<input type="checkbox"/> headers welded to tube plates (can not be dismantled)		

### **Selection of the material for the water side**

	<input type="checkbox"/> distilled water	<input type="checkbox"/> fresh water	<input type="checkbox"/> sea water	<input type="checkbox"/> brack water
<b>tubes</b>	<input type="checkbox"/> 1.4404	<input type="checkbox"/> Cu DHP	<input type="checkbox"/> CuZn20Al	<input type="checkbox"/> CuNi10Fe
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> CuNi10Fe	<input type="checkbox"/> CuNi30Fe
<b>tube plates</b>	<input type="checkbox"/> 1.4571	<input type="checkbox"/> carbon steel + epoxy coating	<input type="checkbox"/> CuZn38SnAl (Ms60K)	<input type="checkbox"/> CuNi10Fe
	<input type="checkbox"/>		<input type="checkbox"/> CuNi10Fe	<input type="checkbox"/> CuNi30Fe
<b>headers</b>	<input type="checkbox"/> 1.4404	<input type="checkbox"/> carbon steel+coating	<input type="checkbox"/> carbon steel+coating	<input type="checkbox"/> cast iron chamber
(with connection/venting/drainage)	<input type="checkbox"/>	<input type="checkbox"/> epoxy <input type="checkbox"/> Rilsan	<input type="checkbox"/> epoxy <input type="checkbox"/> Rilsan	<input type="checkbox"/> red brass <input type="checkbox"/> GSnBz 12
			<input type="checkbox"/> CuNi10Fe+Rg.fitting	<input type="checkbox"/> CuNi10Fe+Rg.fitting