

Kunde	
Abteilung	
Bearbeiter	
Telefon	Fax

VDL Delmas GmbH
 Wärmetauscher + Kühlanlagen
 Kienhorststr. 59 • 13403 Berlin
 Tel./Fax: +49(30)438092 -0 / -26
 e-mail: info@vddelmas.de



TECHNICAL DATA FOR 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. capacity of	kW	
additional transfer capacity of blowers and pumps		primary=	secondary=
No. of heat exchangers for 100% capacity		piece	
operating altitude of the plant		m.o.N.N.	
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"/> plate-heat exchanger	<input type="checkbox"/> screwed plate-package	<input type="checkbox"/> brazed plate-package
<input type="checkbox"/> plain endedtube	<input type="checkbox"/> circular tube	<input type="checkbox"/> elliptical oval-tube
<input type="checkbox"/> single fin tube	<input type="checkbox"/> fins coiled up	<input type="checkbox"/> fin base soldered up
fin material	<input type="checkbox"/> copper	<input type="checkbox"/> aluminium
<input type="checkbox"/> compound finned	<input type="checkbox"/> connection fin / tube by dip-tinning	<input type="checkbox"/> connection fin / tube by dip-
fin material	<input type="checkbox"/> copper	<input type="checkbox"/> steel
<input type="checkbox"/> lamella tubesystem	<input type="checkbox"/> connection lamella / tube by hydromechanical tube expansion	
lamella material	<input type="checkbox"/> copper (CuZn0,5)	<input type="checkbox"/> aluminium (AlMg3)
<input type="checkbox"/> shell&tube heat	<input type="checkbox"/> fixed	<input type="checkbox"/> floating head
	<input type="checkbox"/> floating	<input type="checkbox"/> U-tube bundle

<input type="checkbox"/> standard tubesystem / standard platesystem	<input type="checkbox"/> safety double tubesystem / double platesystem
<input type="checkbox"/> chambers screwed to tube plates (can be	<input type="checkbox"/> chambers welded on to tube plates (can not be

Selection of the material

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