

General remarks

The brazed plates cooler are a complement to the usual rubber sealed plates coolers. They consist of a certain number of heat transferring plates, vacuum brazed in an automatic procedure to form a compact unit.

Copper is used as brazing material.

Function

The heat transferring surfaces consist of acid-resistant stainless steel plates. Every other plate is turned by 180 degrees and placed on the preceding plate. The channels between the plates allow the media to flow counter current. By brazing the special plate profiles together the numerous contact points allow for very high operating pressures.

Medias

All types of liquids and gases, which are not aggressive for cooper. In case of seawater please contact ORELL Tec.



Max. operating pressure

31 bar static at temperature 155 °C
(* 31 bar static at temperature 135 °C)

Test pressure

47 bar
(* 43 bar)

Operating temperature

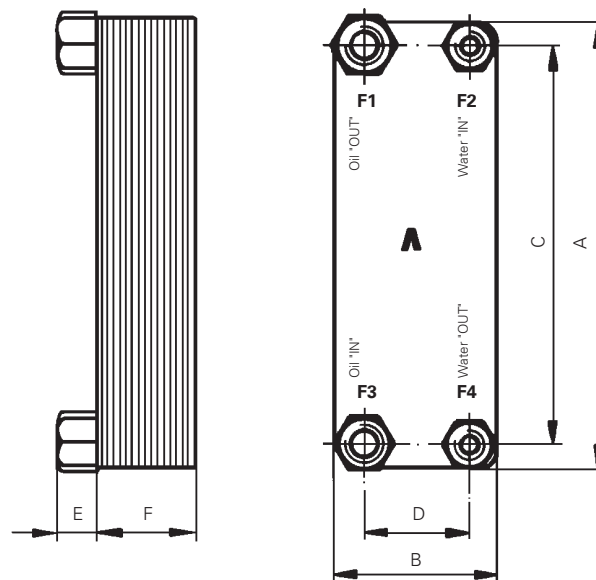
Max. operating temperature: + 225 °C
Min. operating temperature: - 195 °C

Material

Plates and connections: AISI 316 (Nr. 1.4401)
or SMO 254

Brazing solder:

Copper



Type	Max. number of plates	Weight in kg	Dimensions in mm						Oil connections, internal thread	Water connections, internal threads
			A	B	C	D	E	F		
B 5 T	60	0,6 + 0,044 x AP	187	72	154	40	20	11,3 + 2,24 x AP	G ¾	G ½
B 8 T	60	0,9 + 0,070 x AP	310	72	278	40	20	11,3 + 2,24 x AP	G ¾	G ½
B 10 T	140	1,4 + 0,090 x AP	289	119	243	72	20	10 + 2,24 x AP	G 1	G ¾
B 12	140	1,7 + 0,116 x AP	287	117	234	63	27	10,4 + 2,34 x AP	G 1¼	G 1
B 15	70	1,3 + 0,106 x AP	465	72	432	40	20	11,3 + 2,24 x AP	G ¾	G ½
B 16	140	1,5 + 0,106 x AP	376	119	320	63	27	10 + 2,24 x AP	G 1¼	G 1¼
B 25 T	140	2,1 + 0,170 x AP	526	119	479	72	20	10 + 2,24 x AP	G 1¼	G 1
B 28	140	2,1 + 0,170 x AP	526	119	470	63	27	10 + 2,24 x AP	G 1¼	G 1¼
B 35	250	6,7 + 0,336 x AP	393	243	324	174	27	11 + 2,34 x AP	G 1½	G 1¼
B 120 T	250	10,0 + 0,374 x AP	525	243	456	174	27	14 + 2,29 x AP	G 1½	G 1¼
B 56	280	13 + 0,419 x AP	525	243	430	148	**	14 + 2,44 x AP	Compac Flange DN 65/80/100	
B 57	280	16 + 0,567 x AP	693	243	600	148	27	16 + 2,44 x AP	G 1½	G 1¼
B 427	280	27 + 0,594 x AP	694	304	567	179	**	22 + 2,29 x AP	Compac Flange DN 65/80/100	
B 65	360	43 + 1,03 x AP	864	363	731	231	**	17 + 2,32 x AP	Compac Flange DN 65/80/100	
B 649*	392	102 + 1,86 x AP	1232	537	995	300	**	46 + 2,09 x AP	DN 150	DN 150

AP = Number of plates

* Max. operating pressure 31 bar static at temperature 135 °C, test pressure 43 bar

** Mass on request

Manufacturer's tolerances not taken into account.

The right to make modifications reserved.