

# Technical specification



## Alfa Laval copper brazed plate heat exchanger

Typ : CB110-46M-F  
 Pos. :  
 Date : 22.03.2024

The brazing material seals and holds the plates together at the contact points ensuring optimal heat transfer efficiency and pressure resistance. Using advanced design technologies and extensive verification guarantees the highest performance and longest possible service life. Different pressure ratings are available for different needs. Based on standard components and a modular concept, including symmetric and asymmetric channels, each unit is custom-built to meet the specific requirements of each individual installation.



Fluid		<u>Hot Side</u> Water	<u>Cold side</u> Water
Mass flow rate	kg/s	2.992	2.994
Inlet temperature	°C	80.0	50.0
Outlet temperature	°C	60.0	70.0
Pressure drop	kPa	7.86	9.58
L.M.T.D.	K	10.0	
Heat exchanged	kW	250.0	
Duty margin	%	5.00	
Heat transfer area	m <sup>2</sup>	4.93	
Number of plates		46	
Material plate / brazing		Alloy 316 / Cu	
Connection S1 (Hot-in)		Threaded (External)/ 2" ISO 228/1-G (B23) Alloy 304	
Connection S2 (Hot-out)		Threaded (External)/ 2" ISO 228/1-G (B23) Alloy 304	
Connection S3 (Cold-in)		Threaded (External)/ 2" ISO 228/1-G (B23) Alloy 304	
Connection S4 (Cold-out)		Threaded (External)/ 2" ISO 228/1-G (B23) Alloy 304	
Connection T1 (Hot-in)		Threaded (External)/ 2" ISO 228/1-G (B23) Alloy 304	
Connection T2 (Hot-out)		Threaded (External)/ 2" ISO 228/1-G (B23) Alloy 304	
Design pressure at 90°C	Bar	30.0	30.0
Design pressure at 225°C	Bar	25.0	25.0
Design temperature	°C	-196.0/225.0	
Pressure vessel code		PED	
Length x width x height (l x w x h)	mm	219 x 191 x 616	
Net weight, empty / operating	kg	23.2 / 32.4	

### Contact us:

**Aptec production s.r.o.**  
 U Sladovny 425, CZ - 67125 Hodonice  
 T +420 530 511 302, **Hotline 24h** +420 778 080 012  
 E: [info@aptec.international](mailto:info@aptec.international) | W: [aptec.international](http://aptec.international)



