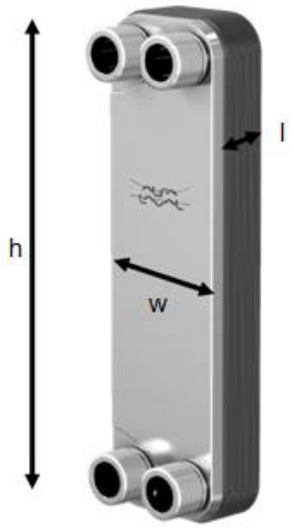
Technical specification

Alfa Laval copper brazed plate heat exchanger

Typ : CB30-70H
Pos. :
Date : 16.01.2024



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.

		Hot Side	Cold side
Fluid		40.0% Eth.glycol	Water
Mass flow rate	kg/s	1.919	0.8383
Inlet temperature	°C	60.0	35.0
Outlet temperature	°C	50.0	55.0
Pressure drop	kPa	14.4	4.09
L.M.T.D.	K	9.1	
Heat exchanged	kW	70.00	
Duty margin	%	8.00	
Heat transfer area	m2	1.97	
Number of plates		70	
Material plate / brazing		Alloy 316 / Cu	

Connection S1 (Hot-in)	Threaded (External)/ 1 1/4" ISO 228/1-G (V24) Alloy 316
Connection S2 (Hot-out)	Threaded (External)/ 1 1/4" ISO 228/1-G (V24) Alloy 316
Connection S3 (Cold-in)	Threaded (External)/ 1" ISO 228/1-G (V22) Alloy 316
Connection S4 (Cold-out)	Threaded (External)/ 1" ISO 228/1-G (V22) Alloy 316

Design pressure at 90°C	Bar	40.0	40.0
Design pressure at 225°C	Bar	32.0	32.0
Design temperature	°C	-196.0/225.0	
Pressure vessel code		PED	
Length x width x height (l x w x h)	mm	220 x 113 x 313	
Net weight, empty / operating	kg	10.2 / 14.0	

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