



Brazed Plate Heat Exchanger

Technical Specification

Model : CB30-50H (32870 8338 8)
Project : Elektrības iela 8, Jelgava
ItemName : apkure
Units : 1
Date : 28.12.2017.

		Hot Side S4S3	Cold side S2S1
Fluid		Water	Water
Density	kg/m ³	969.4	978.3
Specific heat capacity	kJ/(kg*K)	4.19	4.18
Thermal conductivity	W/(m*K)	0.672	0.660
Viscosity inlet	cP	0.268	0.465
Viscosity outlet	cP	0.403	0.353
Volume flow rate	m ³ /h	2.8	4.8
Inlet temperature	°C	105.0	60.0
Outlet temperature	°C	70.0	80.0
Pressure drop	kPa	4.18	11.9
Heat exchanged	kW	110.0	
L.M.T.D.	K	16.4	
OHTC clean conditions	W/(m ² *K)	7689	
OHTC service	W/(m ² *K)	4814	
Heat transfer area	m ²	1.39	
Fouling resistance*10000	m ² *K/W	0.000	
Duty margin	%	61.0	
Relative directions of fluids		Countercurrent	
Number of passes		1	1
Materialplate/ brazing		Alloy 316 / Cu	
ConnectionS1 (Cold-out)		Threaded (External)/ 1" ISO 228/1-G (V22) Alloy	
316			
ConnectionS2 (Cold-in)		Threaded (External)/ 1" ISO 228/1-G (V22) Alloy	
316			
ConnectionS3 (Hot-out)		Threaded (External)/ 1" ISO 228/1-G (V22) Alloy	
316			
ConnectionS4 (Hot-in)		Threaded (External)/ 1" ISO 228/1-G (V22) Alloy	
316			
Pressure vessel code		PED	
Design pressure at 90.000000 Celsius	Bar	40.0	40.0
Design pressure at 225.000000 Celsius	Bar	32.0	32.0
Design temperature	°C	-196.0/225.0	
Overall length x width x height	mm	174 x 113 x 313	
Net weight, empty / operating	kg	7.84 / 7.99	
Package length x width x height	mm	280 x 147 x 391	
Package weight	kg	0.4800	

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