

# Brazed Plate Heat Exchanger



## Technical specification

Model : CB60-60L (32871 0149 0)  
 Project : Glycol Cooling  
 ItemName : BHE

Units : 1  
 Date : 10/10/2018

		<b>Hot side</b>	<b>Cold side</b>
		<b>S4S3</b>	<b>S2S1</b>
Fluid		30.0% Prop.glycol	30.0%
Prop.glycol			
Density	kg/m <sup>3</sup>	1034	1036
Specific heat capacity	kJ/(kg*K)	3.90	3.90
Thermal conductivity	W/(m*K)	0.452	0.448
Viscosity inlet	cP	6.10	9.27
Viscosity outlet	cP	6.77	7.12
Mass flow rate	kg/h	13200	5544
Inlet temperature	°C	3.1	-5.0
Outlet temperature	°C	1.0	0.0
Pressure drop	kPa	80.7	15.7
Heat Exchanged	kW	30.00	
L.M.T.D.	K	4.4	
O.H.T.C clean conditions	W/(m <sup>2</sup> *K)	2173	
O.H.T.C service	W/(m <sup>2</sup> *K)	2030	
Heat transfer area	m <sup>2</sup>	3.36	
Fouling resistance*10000	m <sup>2</sup> *K/W	0.000	
Duty margin	%	7.00	
Relative directions of fluids		Countercurrent	
Number of passes		1	1
Materialplate/ brazing		Alloy 316 / Cu	
ConnectionS1 (Cold-Out)		Threaded (External)/ 1 1/4" ISO 228/1-G (V24)	
Alloy 316			
ConnectionS2 (Cold-In)		Threaded (External)/ 1 1/4" ISO 228/1-G (V24)	
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	197 x 113 x 527	
Net weight, empty / operating	kg	13.8 / 20.1	
Package length x width x height	mm	280 x 125 x 579	
Package weight	kg	0.5500	
Price RCPL incl Extras		1347 EUR	
-Unit 32871 0149 0		1347.00 EUR	

Performance is conditioned on the accuracy of customers data and customers ability to supply equipment