

Technical specification

Brazed Plate Heat Exchanger



Project ref: Kyla
Line ref: Kyla
Model: CB60-80L
Item Id: 3287108491
No of units: 1

Page: 1(2)
Date: 2024-03-14

		Hot side S1 -> T1	Cold Side T4 -> S4
Process data			
Capacity:	kW	21.0	
Fluid:		Water	28.0% Ethanol(liq.)
Duty type:		Liquid cooling	Liquid heating
Volume flow rate:	dm³/s	0,999	1,03
Inlet temperature:	°C	12,0	5,0
Outlet temperature:	°C	7,0	10,0
Tot pr drop calc (allowed)	kPa	16,1 (30,00)	24,6 (30,00)
Velocity connections:	m/s	1,41	2,49

Heat exchanger specification			
Relative directions of fluids:		Countercurrent	
Number of plates:		80	
Channel volume:	dm³	4,1	4,0
Number of circuits:		1	1
Design pressure at -196 °C	bar	40	40
Design pressure at 225 °C	bar	32	32
Design temperature (min/max):		-196 / 225 °C	
Pressure vessel code:		PED	
Material Channel plates / Sealing:		ALLOY 316 / Cu	
Additional connections:		S2, S3	
Connection S1 (Hot-In):		Threaded (External) ISO 228/1-G 1 1/4" ALLOY 316	
Connection T1 (Hot-Out):		Threaded (External) ISO 228/1-G 1 1/4" ALLOY 316	
Connection T4 (Cold-In):		Threaded (External) ISO 228/1-G 1" ALLOY 316	
Connection S4 (Cold-Out):		Threaded (External) ISO 228/1-G 1" ALLOY 316	
Additional connection S2:		Threaded (External) / 1 1/4"ISO 228/1-GV24	
Additional connection S3:		Threaded (External) / 1"ISO 228/1-GV22	
Unit dimensions (length x width x height):	mm	281 x 113 x 527	
Net weight, empty / operating:	kg	17,2 / 25,17	
Packed length x width x height:	mm	470,0 x 125 x 579,0	
Packed weight:	kg	18	

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Fluid properties		Hot side	Cold Side
Density (in/out):	kg/m ³	999,51/1 000,64	963,67/960,90
Specific heat capacity:	kJ/(kg·K)	4,20	4,22
Thermal conductivity:	W/(m·K)	0,586	0,412
Viscosity (in/out):	cP	1,2402/1,4297	5,0177/3,9085

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