

Technical specification

Brazed plate heat exchanger



Project ref.: Filozofu.iela 69,Jelgavā
Line ref.:
Model: CBH18-23H
Item ID: 3287101628
No. of units: 1

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Date: 2024-05-28

		Hot side S1 -> S2	Cold side S3 -> S4
Process data			
Capacity:	kW	25.0	
Fluid:		Water	35.0% Eth.glycol
Duty type:		Liquid cooling	Liquid heating
Volume flow rate:	m³/h	0,745	1,16
Inlet temperature:	°C	95,0	60,0
Outlet temperature:	°C	65,0	80,0
Tot. pr. drop calc. (allowed)	kPa	3,3 (20,00)	9,5 (20,00)
Velocity connections:	m/s	1,03	1,61
Margin calculated (specified):	%	27(0)	

Heat exchanger specification			
Relative directions of fluids:		Countercurrent	
Number of plates:		23	
Channel volume:	dm³	0,4	0,4
Number of circuits:		1	1
Design pressure at -50 °C	bar	32	32
Design pressure at 150 °C	bar	32	32
Design temperature (min./max.):	°C	-50 / 150	
Pressure vessel code:		PED/UK	
Material channel plates/sealing:		ALLOY 316 / Cu	
Connection S1 (Hot-In):		Threaded (External) ISO 228/1-G 3/4" ALLOY 316	
Connection S2 (Hot-Out):		Threaded (External) ISO 228/1-G 3/4" ALLOY 316	
Connection S3 (Cold-In):		Threaded (External) ISO 228/1-G 3/4" ALLOY 316	
Connection S4 (Cold-Out):		Threaded (External) ISO 228/1-G 3/4" ALLOY 316	
Unit dimensions (length x width x height):	mm	76 x 74 x 316	
Net weight, empty/operating:	kg	2,0 / 2,87	
Packed length x width x height:	mm	0 x 0 x 0	
Packed weight:	kg	2	

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Fluid properties		Hot side	Cold side
Density (in/out):	kg/m ³	962,15/979,70	1 033,72/1 023,41
Specific heat capacity:	kJ/(kg·K)	4,19	3,76
Thermal conductivity:	W/(m·K)	0,668	0,471
Viscosity (in/out):	cP	0,2970/0,4321	0,9714/0,6877

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