

Technical specification

Fusion-Bonded Plate Heat Exchanger



Project ref: 23kW
Line ref:
Model: AlfaNova 27-50H
Item Id: 3288000970
No of units: 1

Date: 2018-03-12

		Hot side	Cold Side
Fluid:		Water	Water
Mass flow rate:	kg/h	496	440
Inlet temperature:	°C	65,0	10,0
Outlet temperature::	°C	25,0	55,0
Pressure drop (perm/calc):	kPa	0,2	0,2
Connection positions and flow directions:		S1 -> S2	S3 -> S4
Connection S1 (Hot-In):		Threaded (External) / 1 1/4"ISO 228/1-GV24	
Connection S2 (Hot-Out):		Threaded (External) / 1 1/4"ISO 228/1-GV24	
Connection S3 (Cold-In):		Threaded (External) / 1"ISO 228/1-GV22	
Connection S4 (Cold-Out):		Threaded (External) / 1"ISO 228/1-GV22	
Number of passes:		1	1
Design pressure at -196 °C	bar	25	30
Design pressure at 225 °C	bar	21	26
Design temperature (min/max):	°C	-196 / 225	
Pressure vessel code:		PED	
Heat exchanged:	kW	23.0	
L.M.T.D:	K	12,3	
Relative directions of fluids:		Countercurrent	
Material Plate / Brazing:		ALLOY 316 / SS	
Unit dimensions (length x width x height):	mm	177 x 111 x 310	
Net weight, empty / operating:	kg	8,3 / 10,70	
Packed length x width x height:	mm	280,0 x 147 x 391,0	
Packed weight:	kg	8,78	
Physical properties			
Density (in/out):	kg/m ³	979,70/995,97	999,98/984,53
Specific heat capacity:	kJ/(kg*K)	4,18	4,19
Thermal conductivity:	W/(m*K)	0,63	0,62
Viscosity inlet:	cP	0,4321	1,3112
Viscosity outlet:	cP	0,8949	0,5031

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