Danfoss HEXSelector 1.3.21 #3361-230524190535

Customer		*Date*	05/24/23
Project		*Engineer*	Miroslav Stibor
HEX Type	XB06H-1-30	*Contact Person*	
Product Code	004B2042	*E-mail*	
Units Connected	1 (Parallel)		

Calculated Parameters	**Unit**	**Side 1**	**Side 2**
Flow Type		CounterCurrent	
Heat Load	kW	8.00	
Inlet Temperature	°C	50.0	40.1
Outlet Temperature	°C	42.5	47.1
Mass Flow Rate	kg/s	0.29	0.28
Volumetric Flow Rate	L/min	16.67	16.67
Total Pressure Drop	kPa	12.71	9.44
Pressure Drop in Port	kPa	0.70	0.68
Surface Margin	%	3.89	
LMTD	ΔK	2.7	
HTC (Available/Required)	$W/m^2 \cdot K$	4126 / 3972	
Port Velocity	m/s	1.09	1.09
Shear Stress	Pa	22.24	16.22

Properties of Fluid	**Unit**	**Side 1**	**Side 2**
Fluid		Ethylene glycol (35%)	Water
Liquid Viscosity	mPa·s	1.2627	0.6142
Liquid Density	kg/m^3	1032.1755	991.5684
Liquid Heat Capacity	kJ/kg.K	3.7201	4.1758
Liquid Thermal Conductivity	W/m·K	0.4671	0.6317

Specifications	**Unit**	**Side 1**	**Side 2**
HEX Type		XB06H-1-30	
Number of Plates		30	
Grouping		1*14H/1*15H	
Plate Material		AISI316L	
Effective Area	m^2	0.76	
Brazing Material		Cu	
Volume	l	0.3	0.3
Weight, empty/operating	kg	3.07 / 3.66	
Connection *Inlet*		G 3/4 Thread	G 3/4 Thread
Outlet		G 3/4 Thread	G 3/4 Thread
Certification/Approval Type			
Minimum Design Temperature	°C	-10.0	
Maximum Design Temperature	°C	180.0	
Maximum Design Pressure	bar(g)	25.0	25.0