Customer		*Date*	06/11/23
Project		*Engineer*	Miroslav Stibor
HEX Type	XB37M-1-26	*Contact Person*	
Product Code	004H7288	*E-mail*	
Units Connected	1 (Parallel)		

Calculated Parameters	**Unit**	**Side 1**	**Side 2**
Flow Type		CounterCurrent	
Heat Load	kW	14.06	
Inlet Temperature	°C	50.0	41.8
Outlet Temperature Actual	°C	43.4	47.9
Mass Flow Rate	kg/s	0.57	0.55
Volumetric Flow Rate	L/min	33.33	33.33
Total Pressure Drop	kPa	13.83	9.54
Pressure Drop in Port	kPa	0.73	0.65
Surface Margin	%	0.01	
LMTD	ΔK	1.8	
HTC (Available/Required)	$W/m^2 \cdot K$	5695 / 5694	
Port Velocity	m/s	1.34	1.34
Shear Stress	Pa	26.04	19.10

Properties of Fluid	**Unit**	**Side 1**	**Side 2**
Fluid		Ethylene glycol (35%)	Water
Liquid Viscosity	mPa·s	1.2524	0.6002
Liquid Density	kg/m^3	1031.9190	991.0494
Liquid Heat Capacity	kJ/kg.K	3.7216	4.1763
Liquid Thermal Conductivity	W/m·K	0.4675	0.6332

Specifications	**Unit**	**Side 1**	**Side 2**
HEX Type		XB37M-1-26	
Number of Plates		26	
Grouping		1*12M/1*13M	
Plate Material		AISI316L	
Effective Area	m^2	1.34	
Brazing Material		Cu	
Volume	l	1.0	1.1
Weight, empty/operating	kg	6.76 / 8.91	
Connection *Inlet*		G 1 Thread	G 1 Thread
Outlet		G 1 Thread	G 1 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
H420.2-1.3.21			