

Danfoss HEXSelector 1.1.5

#69-220404085129

Customer	DANFOSS EE	Date	4.4.2022
Project		Engineer	Pekka Saaros
HEX Type	S36-IG10-152-TM	Contact Person	
		E-mail	
Units Connected	1 (Parallel)		

Calculated Parameters	Unit	Side 1	Side 2
Flow Type			CounterCurrent
Heat Load	kW		550,00
Inlet Temperature	°C	13,0	5,0
Outlet Temperature	°C	8,0	10,0
Mass Flow Rate	kg/s	26,27	29,85
Volumetric Flow Rate	L/min	1576,17	1716,68
Total Pressure Drop	kPa	20,42	24,50
LMTD	K		3,0
HTC (Available/Required)	W/m ² ·K		3038 / 2988

Properties of Fluid	Unit	Side 1	Side 2
Fluid		Water	Ethylene glycol (30%)
Liquid Viscosity	mPa·s	1,2834	2,9401
Liquid Density	kg/m ³	1000,1842	1043,4341
Liquid Heat Capacity	kJ/kg·K	4,1864	3,6841
Liquid Thermal Conductivity	W/m·K	0,5775	0,4477

Specifications	Unit	Side 1	Side 2
HEX Type			S36-IG10-152-TM
Number of Plates			152
Grouping			1x75 + 0x0 / 1x76 + 0x0
Plate Thickness	mm		0,40
Plate Material / Ratio			AISI304 / 38%
Effective Area	m ²		61,35
Gasket Material			NBRH (SonderLock)
Frame	Type		IG
	Length	mm	1034
	Maximum Number of Plates		155
Volume	l	67,5	68,4
Weight, empty/operating	kg		596 / 735
Paint Category			Category C2L
Paint Color			BLUE RAL 5010
Connection	Inlet	F1: DN 100 studded end connection with rubber lined PN10 HT	F3: DN 100 studded end connection with rubber lined PN10 HT
	Outlet	F4: DN 100 studded end connection with rubber lined PN10 HT	F2: DN 100 studded end connection with rubber lined PN10 HT
Certification/Approval Type			PED 2014/68/EU, Art. 4.3
Minimum Design Temperature	°C		0,0
Maximum Design Temperature	°C		80,0
Maximum Differential Pressure	bar		10,0
Maximum Test Pressure	bar		12,5
Maximum Design Pressure	bar	10,0	10,0

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