

Danfoss HEXSelector 1.3.42

#2627-240618093556

Customer		Date	18.06.2024
Project		Engineer	JAAK MURU
HEX Type	XB12L-1-20	Contact Person	Jaak Muru
Product Code	004H7662	E-mail	jaak.muru@gmail.com
Units Connected	1 (Parallel)		

Calculated Parameters	Unit	Side 1	Side 2
Flow Type		CounterCurrent	
Heat Load	kW	55,00	
Inlet Temperature	°C	90,0	40,0
Outlet Temperature	°C	45,0	60,0
Outlet Temperature Actual	°C	44,3	--
Mass Flow Rate	kg/s	0,29	0,66
Volumetric Flow Rate	L/min	17,57	39,92
Total Pressure Drop	kPa	2,23	14,62
Pressure Drop in Port	kPa	0,03	0,26
Surface Margin	%	0,01	
LMTD	K	14,0	
HTC (Available/Required)	W/m²·K	8264 / 8263	
Port Velocity	m/s	0,36	0,83
Shear Stress	Pa	7,05	27,85

Properties of Fluid	Unit	Side 1	Side 2
Fluid		Water	Water
Liquid Viscosity	mPa·s	0,4222	0,5491
Liquid Density	kg/m³	980,2540	988,8471
Liquid Heat Capacity	kJ/kg·K	4,1866	4,1799
Liquid Thermal Conductivity	W/m·K	0,6564	0,6393

Specifications	Unit	Side 1	Side 2
HEX Type		XB12L-1-20	
Number of Plates		20	
Grouping		1*9L/1*10L	
Plate Material		AISI316L	
Effective Area	m²	0,50	
Brazing Material		Cu	
Volume	l	0,4	0,5
Weight, empty/operating	kg	3,13 / 3,97	
Connection	Inlet	G 1 Thread	G 1 Thread
	Outlet	G 1 Thread	G 1 Thread
Certification/Approval Type		PED 2014/68/EU, Art. 4.3	
Minimum Design Temperature	°C	-10,0	
Maximum Design Temperature	°C	180,0	
Maximum Design Pressure	bar(g)	25,0	25,0

H372.1-1.3.42

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Units Connected	1 (Parallel)		

Items			
Product Code	Pcs.	Component	
004H7662	1	XB12L-1-20	

**Comments**

Copper brazed stainless steel heat exchanger designed and configured for district heating systems, district cooling and other heating applications. The brazed heat exchanger features our new MICRO PLATES™, which enable heat to be transferred more effectively than in any previous model. Energy and cost savings, Longer life time, Corrosion-resistant design, Compact Design.

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