Technical specification

Gasketed Plate Heat Exchanger

Project ref:	Aanvraag SDF		
Line ref:			
Model:	TL10-BFG		Page: 1(1)
No of units:	1		Date: 16-02-2022

		Hot side		Cold Side
Fluid:		EC100_2		Water
Density:	kg/m³	825,8		988,2
Specific heat capacity:	kJ/(kg·K)	2,25		4,18
Thermal conductivity:	W/(m·K)	0,137		0,637
Viscosity inlet:	cP	5,52		0,693
Viscosity outlet:	cP	9,79		0,503
Mass flow rate:	kg/s	25,74		14,64
Inlet temperature:	°C	60,0		37,0
Outlet temperature:	°C	41,0		55,0
Pressure drop:	kPa	61,7		11,5
Heat exchanged:	kW		1.100,0	
LMTD:	K		4,5	
Relative directions of fluids:			Countercurrent	
Connection positions and flow directions:		S1->S2		S3->S4
Connections: S1,S2,S3,S4			FLANGE EN 1092-1 DN100 PN16 Unlined	
Design pressure (MAWP):	bar	10,0		10,0
Test pressure:	bar	14,3		14,3
Design temperature max:	°C	80,0		80,0
Design temperature min (MDMT):	°C	0,0		0,0
Pressure vessel approval:			PED Article 4.3	
Fluid danger group:		No Danger		No Danger
Has risky vapour pressure:		No		No
Nominal A-dimension:	mm		940	
Extension capacity:			52 plates	
Plate material/thickness:			ALLOY 304/0,50 mm	
Gasket material and attachment:		NBRB Clip-on		NBRB Clip-on
Approx. outer dimensions (L x W x H)	mm		2.345 x 480 x 1.923	
Approx. weight, empty / operating:	kg		1.518 / 1.823	
Approx. weight, full of water:	kg		1.854	
Type of package:			SKID BASE STANDING	
Approx. packed weight:	kg		1.613	