

Technical specification

Gasketed Plate Heat Exchanger



Project ref: QU-2102-MD-0018083 Madsen-Central Coolers

Line ref:

Model: T15-BFG

No of units: 1

Page: 1(1)

Date: 05/02/2021

		Hot side	Cold Side
Fluid:		Water	3.5% NaCl
Density:	kg/m ³	987.6	1,017.4
Specific heat capacity:	kJ/(kg·K)	4.18	4.02
Thermal conductivity:	W/(m·K)	0.638	0.614
Viscosity inlet:	cP	0.4710	1.0098
Viscosity outlet:	cP	0.7214	0.6246
Volume flow rate:	m ³ /h	250.00	250.00
Inlet temperature:	°C	59.2	22.0
Outlet temperature:	°C	35.0	46.1
Pressure drop:	kPa	68.3	99.9
Heat exchanged:	kW	6,893.6	
LMTD:	K	13.0	
Heat transfer area:	m ²	125.21	
Relative directions of fluids:		Countercurrent	
Connection positions and flow directions:		S1->S2	S3->S4
Connections: S1,S2,S3,S4		Flange EN 1092-1 PN16 DN150 lining TI	
Number of passes:		1	1
Design pressure (MAWP):	bar	10.0	10.0
Test pressure:	bar	15.0	15.0
Design temperature max:	°C	120.0	120.0
Design temperature min (MDMT):	°C	0.0	0.0
Channel arrangement:		1*94 ML	1*95 MH
Classification society:		Det Norske Veritas & Germanischer Lloyd	
Marine class:		Class 2	
Number of plates:		190	
Extension capacity:		68 plates	
Plate material/thickness:		Titanium/0.5 mm	
Gasket material and attachment:		NBRP ClipGrip™	NBRP ClipGrip™
Approx. outer dimensions (L x W x H)	mm	1,790 x 660 x 1,880	
Approx. weight, empty / operating:	kg	1,189 / 1,474	
Type of package:		Skid base	
Approx. packed weight:	kg	1,270	

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