

Technical specification



Project ref: Alfa Laval
 Line ref:
 Model: AC-30EQ-54H-F
 Item Id: 3288101403
 No of units: 1

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 Date: 2019-07-12

		Hot side S1 -> S2	Cold Side S3 -> S4
Process data			
Capacity:	kW	17,5	
Fluid:		Water	R134a
Mass flow rate:	kg/h	2 997	420
Inlet temperature:	°C	12,0	3,0
Outlet temperature:	°C	7,0	7,0
Evaporating temperature (dew):			2,0
Evaporating pressure:	bara		3,1
Super heating:			5
Inlet quality:			0,2350
Total pressure drop calculated (allowed)	kPa	42,7 (80,00)	252,6 (300,00)
Connection velocity in/out:	m/s	2,00/2,00	2,48/19,07
Margin calculated (specified):	%	14(0)	

Heat exchanger specification			
Relative directions of fluids:		Countercurrent	
Number of plates:		54	
Channel volume:	dm ³	0,7	0,8
Number of circuits:		1	1
Design pressure at -196 °C	bar	35	35
Design pressure at 225 °C	bar	30	30
Design temperature (min/max):	°C	-196 / 225	
Pressure vessel code:		PED	
Material Channel plates / Sealing:		ALLOY 316 / Cu	
Connection S1 (Hot-In):		Threaded (External) 1" ISO 228/1-G	
Connection S2 (Hot-Out):		Threaded (External) 1" ISO 228/1-G	
Connection S3 (Cold-In):		Soldering 5/8"	
Connection S4 (Cold-Out):		Soldering 1"1/8	
Unit dimensions (length x width x height):	mm	115 x 95 x 325	
Net weight, empty / operating:	kg	5,8 / 6,60	
Packed length x width x height:	mm	250,0 x 110 x 343,0	
Packed weight:	kg	6,16	

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