Technical specification



Project ref: Alfa Laval

Line ref:

Model: AC-30EQ-24H-F

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No of units: 1 Date: 2019-07-12

		Hot side S1 -> S2	Cold Side S3 -> S4
Process data		31 7 32	30 7 31
Capacity:	kW	7.0	
Fluid:		Water	R134a
Mass flow rate:	kg/h	1 199	168
Inlet temperature:	°C	12,0	2,4
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	34,2 (80,00)	227,9 (300,00)
Connection velocity in/out:	m/s	0,80/0,80	7,70/9,82
Margin calculated (specified):	%	26(0)	

Heat exchanger specification				
Relative directions of fluids:		Countercurrent		
Number of plates:		24		
Channel volume:	dm³	0,3	0,3	
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 /	-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 1/2"		
Connection S4 (Cold-Out):		Soldering 22.3(7/8")		
Unit dimensions (length x width x height):	mm	69 x 95 x 325		
Net weight, empty / operating:	kg	3,2 / 3,59		
Packed length x width x height:	mm	160,0 x 110 x 343,0		
Packed weight:	kg	3,48		

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