Technical specification

Project ref: Alfa Laval
Line ref:
Model: AC-30EQ-24H-F
Item Id: 3288153699
No of units: 1

Date: 2019-07-12

		Hot side S1 -> S2	Cold Side S3 -> S4
Process data			
Capacity:	kW	10.5	
Fluid:		Water	R407C
Mass flow rate:	kg/h	1 800	222
Inlet temperature:	°C	15,0	0,4
Outlet temperature:	°C	10,0	10,0
Evaporating temperature (dew):			5,0
Evaporating pressure:	bara		5,5
Super heating:			5
Inlet quality:			0,2126
Total pressure drop calculated (allowed)	kPa	70,2 (80,00)	249,5 (300,00)
Connection velocity in/out:	m/s	1,20/1,20	6,35/8,67
Margin calculated (specified):	%	35(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 / 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	