Technical specification

Project ref: Alfa Laval
Line ref:
Model: ACH-30EQ-40H-F
Item Id: 3288154174
No of units: 1

Date: 2019-07-11

		Hot side S4 -> S3	Cold Side S2 -> S1
Process data			
Capacity:	kW	15.0	
Fluid:		R410A	Water
Mass flow rate:	kg/h	437	2 588
Inlet temperature:	°C	70,0	55,0
Outlet temperature:	°C	64,8	60,0
Condensing temperature (dew):		65,0	
Condensing pressure:	bara	42,44	
Outlet quality:		0	
Total pressure drop calculated (allowed)	kPa	2,9 (30,00)	48,2 (80,00)
Connection velocity in/out:	m/s	0,92/0,47	2,26/2,26
Margin calculated (specified):	%	37(15)	

Heat exchanger specification			
Relative directions of fluids:		Countercurrent	
Number of plates:		40	
Channel volume:	dm³	0,5	0,6
Number of circuits:		1	1
Design pressure at -196 °C	bar	50	50
Design pressure at 150 °C	bar	45	45
Design temperature (min/max):	°C	-196 / 150	
Pressure vessel code:		PED	
Material Channel plates / Sealing:		ALLOY 316 / Cu	
Connection S4 (Hot-In):		Soldering 22.3(7/8")	
Connection S3 (Hot-Out):		Soldering 1/2"	
Connection S2 (Cold-In):		Soldering 7/8"	
Connection S1 (Cold-Out):		Soldering 7/8"	
Unit dimensions (length x width x height):	mm	113 x 95 x 325	
Net weight, empty / operating:	kg	4,6 / 5,30	
Packed length x width x height:	mm	250,0 x 110 x 343,0	
Packed weight:	kg	4,96	