

Technical specification



Project ref: Alfa Laval
 Line ref:
 Model: ACH18-18H-F
 Item Id: 3287160213
 No of units: 1

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		Hot side S1 -> S2	Cold Side S3 -> S4
Process data			
Capacity:	kW	7.0	
Fluid:		Water	R407C
Mass flow rate:	kg/h	1 200	147
Inlet temperature:	°C	15,0	0,3
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	21,4 (80,00)	13,8 (300,00)
Connection velocity in/out:	m/s	1,66/1,66	1,96/9,22
Margin calculated (specified):	%	13(0)	

Heat exchanger specification			
Relative directions of fluids:		Countercurrent	
Number of plates:		18	
Channel volume:	dm ³	0,3	0,3
Number of circuits:		1	1
Design pressure at -160 °C	bar	45	45
Design pressure at 150 °C	bar	45	45
Design temperature (min/max):	°C	-160 / 150	
Pressure vessel code:		PED	
Material Channel plates / Sealing:		ALLOY 316 / Cu	
Connection S1 (Hot-In):		Soldering 18 mm	
Connection S2 (Hot-Out):		Soldering 18 mm	
Connection S3 (Cold-In):		Soldering 18 mm	
Connection S4 (Cold-Out):		Soldering 18 mm	
Unit dimensions (length x width x height):	mm	68 x 74 x 316	
Net weight, empty / operating:	kg	1,8 / 2,18	
Packed length x width x height:	mm	0 x 0 x 0	
Packed weight:	kg	1,8	

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