Technical specification

Brazed Plate Heat Exchanger



Project ref:	Alfa Laval	
Line ref:		
Model:	CB60-30H-F	
Item Id:	3287079135	
No of units:	1	

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		Hot side	Cold Side
		S4 -> S3	S2 -> S1
Process data			
Capacity:	kW	15.0	
Fluid:		R407C	Water
Mass flow rate:	kg/h	387	2 588
Inlet temperature:	O	70,0	55,0
Outlet temperature:	°C	61,0	60,0
Condensing temperature (dew):		65,0	
Condensing pressure:	bara	28,32	
Outlet quality:		0	
Total pressure drop calculated (allowed)	kPa	1,5 (30,00)	18,6 (80,00)
Connection velocity in/out:	m/s	2,11/0,27	1,76/1,76
Margin calculated (specified):	%	23(15)	

Heat exchanger specification				
Relative directions of fluids:		Countercurrent		
Number of plates:		30		
Channel volume:	dm ³	1,4	1,5	
Number of circuits:		1	1	
Design pressure at -196 °C	bar	40	40	
Design pressure at 225 °C	bar	32	32	
Design temperature (min/max):	°C	-196 / 225		
Pressure vessel code:		PED		
Material Channel plates / Sealing:		ALLOY 316 / Cu		
Connection S4 (Hot-In):		Soldering 1 1/8"		
Connection S3 (Hot-Out):		Soldering 1 1/8"		
Connection S2 (Cold-In):		Threaded (External) 1" ISO 228/1-G		
Connection S1 (Cold-Out):		Threaded (External) 1" ISO 228/1-G		
Unit dimensions (length x width x height):	mm	124 x 113 x 527		
Net weight, empty / operating:	kg	7,5 / 9,58		
Packed length x width x height:	mm	160,0 x 125 x 579,0		
Packed weight:	kg	7,66		

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