Coolselector2



Project information

Project name: Unit B - Evaporator 10

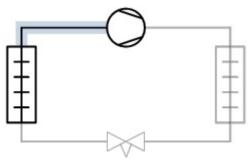
Comments: Created by:

Coolselector2 version: 3.7.1. Database: 52.52.2.23.8.33
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Preferences used: All applications

Line 2

Operating conditions						
Refrigerant:	R744		Cooling capacity:	17.00	kW	
Mass flow in line: 0.		kg/s	Heating capacity:	21.23	kW	
Evaporating temperature:	-35.0	°C	Condensing temperature:	-2.0	°C	
Evaporating pressure:	12.05	bar	Condensing pressure:	33.05	bar	
Useful superheat:	5.0	K	Subcooling:	2.0	K	
Additional superheat:	0	K	Additional subcooling:	0	K	
Discharge temperature:	54.5	°C				
System and line: Dry - Suction line						



Line total

Pressure drop 0.183 bar Saturation temperature drop 0.4 K

Position 1. Piping: Stainless steel pipe DIN-EN SS 15

Length 0.10 m

Angle 0 deg

Pressure drop 0.002 bar

Saturation temperature drop 0.0 K

Velocity, in 10.23 m/s

Connection OK

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Position 2. Stop valve: SVA SS 15 straight					
(H)	Pressure drop	0.083	bar		
M	Saturation temperature drop	0.2	K		
	Velocity, in	10.23	m/s		
	Valve state	Open			
	Connection	OK			

Position 3. Piping: Stainless steel pipe DIN-EN SS 15				
	Length	0.17	, m	
\rightarrow	Angle	0) deg	
	Pressure drop	0.004	l bar	
	Saturation temperature drop	0.0) K	
	Velocity, in	10.31	m/s	
	Connection	OK		
	Connection	OK		

Position 4. Piping: Stainless steel bend 90 DIN-EN SS 15-3					
	Number	1			
	Pressure drop	0.003	bar		
ш	Saturation temperature drop	0.0	K		
	Velocity, in	10.31	m/s		
	Connection	OK			

Position 5. Piping: Stainless steel pipe DIN-EN SS 15				
	Length	1.07	m	
\rightarrow	Angle	0	deg	
	Pressure drop	0.024	bar	
	Saturation temperature drop	0.1	K	
	Velocity, in	10.31	m/s	
	Connection	OK		

Position 6. Piping: Stainless steel bend 90 DIN-EN SS 15-3					
	Number	1			
	Pressure drop	0.003	bar		
ш	Saturation temperature drop	0.0	K		
	Velocity, in	10.33	m/s		
	Connection	OK			

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Position 7. Piping: Stainless steel pipe DIN-EN SS 15				
200	Length	2.89	m	
→	Angle	0) deg	
10/18	Pressure drop	0.064	bar	
	Saturation temperature drop	0.2	! K	
	Velocity, in	10.34	m/s	
	Connection	OK		