

Coolselector2

Project information

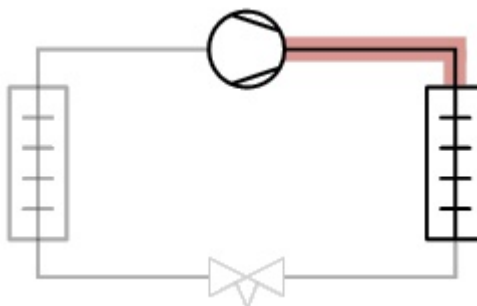
Project name: Discharge Collector - Condens. Unit
 Comments:
 Created by:
 Coolselector2 version: 3.7.1. Database: 52.52.2.23.8.33
 Printed: Wednesday, February 5, 2020
 Preferences used: All applications

Line 4

Operating conditions

Refrigerant:	R744	Cooling capacity:	34.00 kW
Mass flow in line:	0.1356 kg/s	Heating capacity:	42.46 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 - Discharge line



Line total

Pressure drop 0.053 bar
 Saturation temperature drop 0.1 K

Position 1. Piping: Stainless steel pipe DIN-EN SS 20



Length	0.20 m
Angle	0 deg
Pressure drop	0.002 bar
Saturation temperature drop	0.0 K
Velocity, in	5.66 m/s
Connection	OK

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Position 2. Stop valve: SVA SS 20 straight



Pressure drop	0.037 bar
Saturation temperature drop	0.0 K
Velocity, in	5.66 m/s
Valve state	Open
Connection	OK

Position 3. Piping: Stainless steel pipe DIN-EN SS 20



Length	0.88 m
Angle	0 deg
Pressure drop	0.008 bar
Saturation temperature drop	0.0 K
Velocity, in	5.66 m/s
Connection	OK

Position 4. Piping: Stainless steel bend 90 DIN-EN SS 20-3



Number	1
Pressure drop	0.002 bar
Saturation temperature drop	0.0 K
Velocity, in	5.98 m/s
Connection	OK

Position 5. Piping: Stainless steel pipe DIN-EN SS 20



Length	0.36 m
Angle	0 deg
Pressure drop	0.003 bar
Saturation temperature drop	0.0 K
Velocity, in	5.67 m/s
Connection	OK