Coolselector2

Project information

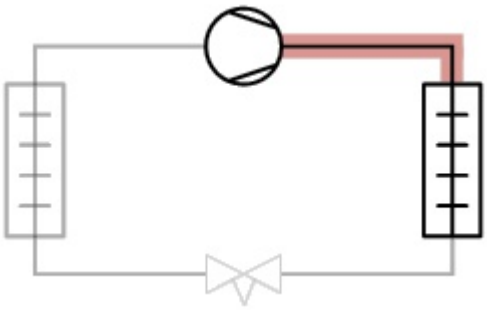
Project name:	Discharged Line Piping
Comments:	
Created by:	
Coolselector2 version:	3.7.1. Database: 52.52.2.23.8.33
Printed:	Tuesday, February 4, 2020
Preferences used:	All applications

discharged_Line

Operating conditions

Refrigerant:	R134a		Cooling capacity:	139.9	kW
Mass flow in line:	1.087	kg/s	Heating capacity:	197.9	kW
Evaporating temperature:	-8.0	°C	Condensing temperature:	50.0	°C
Evaporating pressure:	2.170	bar	Condensing pressure:	13.17	bar
Useful superheat:	5.0	K	Subcooling:	2.0	K
Additional superheat:	0	K	Additional subcooling:	0	K
Discharge temperature:	73.1	°C			

System and line: *Dry - Discharge line*



Line total

Pressure drop	0.223	bar
Saturation temperature drop	0.7	K

Position 1. Piping: Copper pipe DIN-EN 42

Length	5.31	m
Angle	0	deg
Pressure drop	0.113	bar
Saturation temperature drop	0.3	K
Velocity, in	16.08	m/s
Connection	OK	

Position 2. Piping: Copper bend 90 DIN-EN 42

Number	1	
Pressure drop	0.015	bar
Saturation temperature drop	0.0	K
Velocity, in	16.24	m/s
Connection	OK	

Position 3. Piping: Copper pipe DIN-EN 42

Length	3.13	m
Angle	0	deg
Pressure drop	0.067	bar
Saturation temperature drop	0.2	K
Velocity, in	16.26	m/s
Connection	OK	

Position 4. Piping: Copper bend 90 DIN-EN 42

Number	1	
Pressure drop	0.016	bar
Saturation temperature drop	0.0	K
Velocity, in	16.35	m/s
Connection	OK	

Position 5. Piping: Copper pipe DIN-EN 42

Length	0.52	m
Angle	0	deg
Pressure drop	0.011	bar
Saturation temperature drop	0.0	K
Velocity, in	16.38	m/s
Connection	OK	