

Coolselector2

Project information

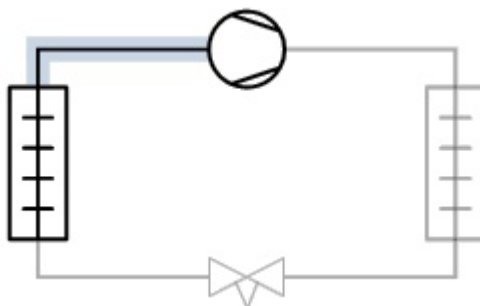
Project name: Evaporator 1 - Unit C
 Comments:
 Created by:
 Coolselector2 version: 3.7.1. Database: 52.52.2.23.8.33
 Printed: Tuesday, February 4, 2020
 Preferences used: All applications

Evap. 1

Operating conditions

Refrigerant:	R134a	Cooling capacity:	18.60 kW
Mass flow in line:	0.1445 kg/s	Heating capacity:	26.32 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 - Suction line



Line total

Pressure drop	0.016 bar
Saturation temperature drop	0.2 K

Position 1. Piping: Copper pipe DIN-EN 35



Length	0.27 m
Angle	0 deg
Pressure drop	0.002 bar
Saturation temperature drop	0.0 K
Velocity, in	17.01 m/s
Connection	OK

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Position 2. Piping: Copper bend 90 DIN-EN 35



Number	1
Pressure drop	0.003 bar
Saturation temperature drop	0.0 K
Velocity, in	16.01 m/s
Connection	OK

Position 3. Piping: Copper pipe DIN-EN 35



Length	1.80 m
Angle	0 deg
Pressure drop	0.012 bar
Saturation temperature drop	0.1 K
Velocity, in	17.05 m/s
Connection	OK