### Coolselector2



#### **Project information**

Project name: Evaporator 5 - Unit G

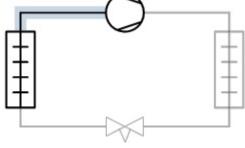
Comments: Created by:

Coolselector2 version: 3.7.1. Database: 52.52.2.23.8.33
Printed: Tuesday, February 4, 2020

Preferences used: All applications

### Evap. 5

Operating conditions					
Refrigerant:	R134a		Cooling capacity:	14.10	kW
Mass flow in line:	0.1074	kg/s	Heating capacity:	19.35	kW
Evaporating temperature:	-4.0	°C	Condensing temperature:	50.0	°C
Evaporating pressure:	2.527	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:	71.3	°C			
System and line: Dry - Suction li	ne				
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#### Line total

Pressure drop 0.708 bar Saturation temperature drop 8.4 K

#### Position 1. Piping: Copper pipe DIN-EN 35

Length 0.10 m

Angle 0 deg

Pressure drop 0.000 bar

Saturation temperature drop 0.0 K

Velocity, in 10.93 m/s
Connection OK

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Position 2. Control valve: KVP 35				
	Offset	0.948	bar	
$\bowtie$	Pressure drop	0.675	bar	
V	Saturation temperature drop	8.0	K	
	Velocity, in	10.94	m/s	
	Valve state	Open		
	Connection	OK		

Position 3. Piping: Copper pipe DIN-EN 35					
	Length	0.17	m m		
$\rightarrow$	Angle	0	) deg		
	Pressure drop	0.001	bar		
	Saturation temperature drop	0.0	) K		
	Velocity, in	15.11	m/s		
	Connection	OK			
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Position 4. Piping: Copper bend 90 DIN-EN 35					
	Number	1			
	Pressure drop	0.002	bar		
ш	Saturation temperature drop	0.0	K		
	Velocity, in	14.22	m/s		
	Connection	OK			

Position 5. Piping: Copper pipe DIN-EN 35					
	Length	0.70	m m		
$\rightarrow$	Angle	0	deg		
	Pressure drop	0.003	bar		
	Saturation temperature drop	0.0	· K		
	Velocity, in	15.13	m/s		
	Connection	OK	•		

Position 6. Piping: Copper bend 90 DIN-EN 35					
	Number	1			
	Pressure drop	0.002	bar		
	Saturation temperature drop	0.0	K		
	Velocity, in	14.26	m/s		
	Connection	OK			

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Position 7. Piping: Copper pipe DIN-EN 35				
	Length	5.50	0 m	
$\rightarrow$	Angle	0	0 deg	
100	Pressure drop	0.025	5 bar	
	Saturation temperature drop	0.3	3 K	
	Velocity, in	15.18	3 m/s	
	Connection	OK	<	