

Coolselector2

Project information

Project name: Discharged Collector - Condenser 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

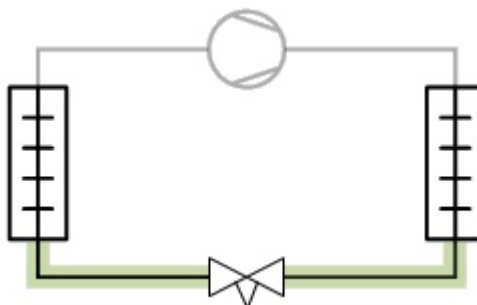
TXV: TXV 1

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 expansion system. Liquid line

Selection criteria: Load: 100 %. Distributor pressure drop: 0.252 bar



Selection: TE 5 - 4



Type	TE 5 - 2	TE 5 - 3	TE 5 - 4	TE 12 - 5	TE 12 - 6
NS	16	16	16	22	22
Range	N	N	N	N	N

Coolselector2

Nominal capacity [kW]	14.17	17.89	24.24	29.41	38.39
Min. capacity [kW]	3.543	4.473	6.061	7.352	9.598
Load [%]	131	104	77	63	48
DP [bar]	10.75	10.75	10.75	10.75	10.75
Velocity, in [m/s]	0.84	0.84	0.84	0.41	0.41

Selected code numbers for TE 5 - 4

TE 5. Element for expansion valve: 067B3298
Orifice. Orifice for expansion valve: 067B2792
VALVE BODY. Valve body for expansion valve: 067B4009

Performance curve

