Unit System: (•) SI ( ) IP

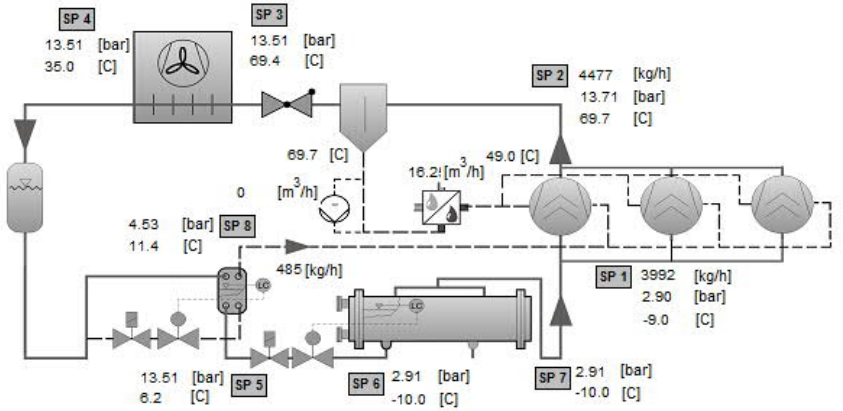
Calc. date & time 22/06/201 09:30:26

All data subject to change

[Calculate ACP] [Show detailed results] [Print]

[Find optimum ACP] [Show log P-h plot] [Load inputs]

[Solve Table] [Help] [Save inputs]



Package Selection

Refrigerant	R717
ACP model	ACP 9593 K 2 C
Calculation mode	1 Operating point
Wanted cooling Capacity [kW]	

Operating Conditions

Evaporating temperature [C]	-10.0	Pres. drop suction side [bar]	0.01 (0.08 [C])
Condensing temperature [C]	35.0	Non useful suct. superheat [C]	1.0
HS Condensing temp. [C]	35.0	Useful suct. superheat [C]	0.0
☑ *with Economizer*		Pres. drop disch. side [bar]	0.20 (0.51 [C])
Target approach T[5] -T[8] [C]	5.0	Liq. subc. (in condenser) [C]	0.0

(for booster: Intermediate stage approach, open flash = 0K)

Capacities & Drive Lines

	Nr. 1	Nr. 2
Compressor speed [rpm]	2950	2950
Drive type / nom. speed [rpm]	C	C
Compressor slide cap. [%]	100	100
Motor model	WEG_ABNT_200kW_	WEG_ABNT_200kW_
Safety factor	1.19	1.19

Oil system

Compressor oil inlet temp. [C]	49.0	Oil cooler model	4HH-168/2/1
Oil type	SHC226E	Oil cooling principle	thermosyphon
Oil separator model	D800		
		OFV / Pump setpoint [bar]	3.0 / 3.0

Results

Cooling capacity [kW]	1357.2
Evaporator capacity [kW]	1354.2
Shaft power [kW]	332.2
Electrical power [kW]	345.3
Condenser capacity [kW]	1523.8
Economizer capacity [kW]	151.6
COP / EER shaft [-]	4.08
COP / EER electrical [-]	3.92
Discharge gas temp. [C]	69.7
Oil volume flow [m3/h]	16.25
Oil cooler load [kW]	167.5
Pressure ratio system [-]	4.65
Pressure ratio compressor [-]	4.73
Total oil carry-over [ppm]	3.6
Swept volume [m3/h]	1851.4