



6F-50-2y-40P

BITZER Software v6.17.9 rev2773

07.11.2022 / All data subject to change.

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Selection: Semi-hermetic Reciprocating Compressors

Input Values

Compressor model	(6F-50.2Y)	Suction gas temperature	20,00 °C
Mode	Refrigeration and Air conditioning	Operating mode	Auto
Refrigerant	R404A	Power supply	400V-3-50Hz
Reference temperature	Dew point temp.	Capacity control	100%
Liq. subc. (in condenser)	0 K	Useful superheat	100%

Result

Q [W]	Cooling capacity	COP [-]	COP/EER
Qu* [W]	Evaporator capacity	m [kg/h]	Mass flow
P [kW]	Power input	Op.	Operating mode
I [A]	Current	th [°C]	Discharge gas temp. w/o cooling
Qc [W]	Condenser capacity		

tc	to	0°C	-10°C	-20°C	-30°C	-40°C	-50°C	-60°C	-70°C
30°C	Q [W]	142143	98113	65152	40878	23428	--	--	--
	Qu* [W]	142143	98113	65152	40878	23428			
	P [kW]	34,5	30,9	26,4	21,4	16,23			
	I [A]	72,1	67,8	61,9	55,0	48,2			
	Qc [W]	176632	129059	91580	62255	39659			
	COP [-]	4,12	3,17	2,47	1,91	1,44			
	m [kg/h]	3613	2440	1596	990	563			
	Op.	Standard	Standard	Standard	Standard	Standard			
	th [°C]	65,6	78,7	93,7	111,8	136,5			
	40°C	Q [W]	121655	83614	54994	33850	18619	--	--
Qu* [W]		121655	83614	54994	33850	18619			
P [kW]		39,8	34,4	28,4	22,2	16,13			
I [A]		78,1	72,0	64,5	56,1	48,1			
Qc [W]		161446	118036	83390	56002	34754			
COP [-]		3,06	2,43	1,94	1,53	1,15			
m [kg/h]		3490	2341	1513	920	502			
Op.		Standard	Standard	Standard	Standard	Standard			
th [°C]		76,3	89,4	104,4	122,9	0			
50°C		Q [W]	100799	68915	44794	26936	14089	--	--
	Qu* [W]	100799	68915	44794	26936	14089			
	P [kW]	44,8	37,6	30,0	22,5	15,59			
	I [A]	83,6	75,6	66,6	56,6	47,4			
	Qc [W]	145645	106515	74809	49467	29679			
	COP [-]	2,25	1,83	1,49	1,20	0,90			
	m [kg/h]	3357	2231	1422	843	436			
	Op.	Standard	Standard	Standard	Standard	Standard			
	th [°C]	87,6	100,7	115,8	134,6	0			

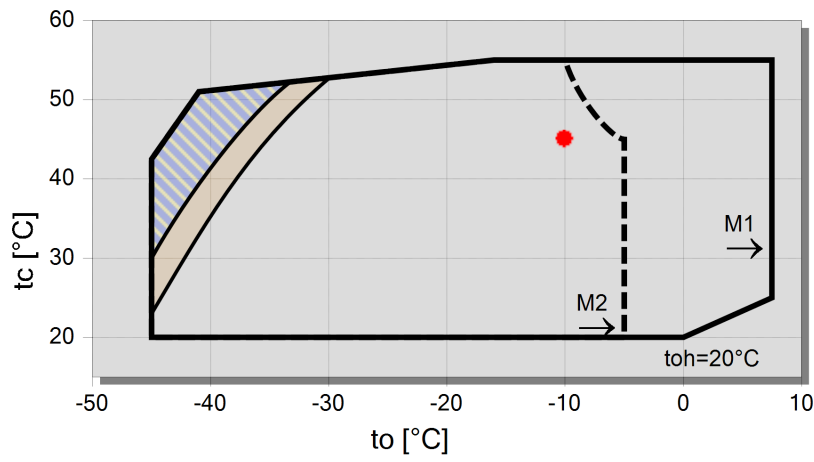
-- No calculation possible (see message in single point selection)

*According to EN12900 (20°C suction gas temp., 0K liquid subcooling)






Application Limits 100%



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Legend

-  additional cooling & suction gas superheat $\leq 20K$
-  additional cooling or max. toh $< 0^{\circ}C$
-  M1: motor 1
-  M2: motor 2
-  A