



Selection: Semi-hermetic Reciprocating Compressors

Input Values

Compressor model Mode	6FE-50Y Refrigeration and Air conditioning	Suction gas temperature Operating mode	20,00 °C 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%

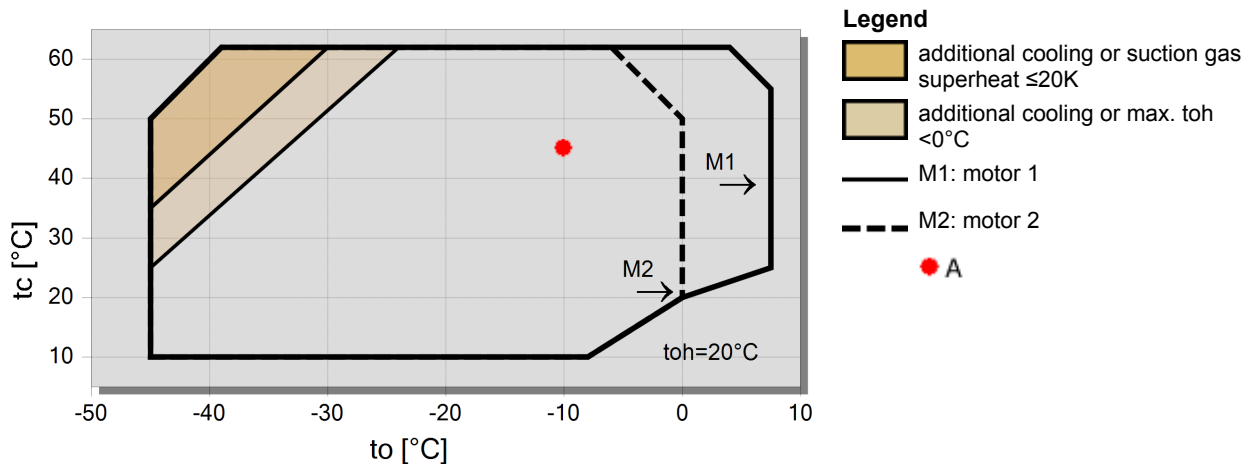
Result

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	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C
30°C	Q [W]	146404	121978	100798	82481	66699	53168	41636	31873
	Qu* [W]	146404	121978	100798	82481	66699	53168	41636	31873
	P [kW]	32,6	31,3	29,6	27,6	25,4	22,9	20,4	17,74
	I [A]	69,8	68,2	66,1	63,5	60,5	57,2	53,6	50,1
	Qc [W]	178992	153282	130427	110112	92075	76100	62001	49618
	COP [-]	4,49	3,90	3,40	2,99	2,63	2,32	2,04	1,80
	m [kg/h]	3721	3064	2507	2035	1634	1295	1009	769
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	th [°C]	63,0	69,3	75,9	82,8	90,2	98,3	107,2	117,2
	40°C	Q [W]	124645	103817	85683	69941	56329	44617	34594
Qu* [W]		124645	103817	85683	69941	56329	44617	34594	26074
P [kW]		37,8	35,7	33,2	30,4	27,5	24,4	21,2	18,08
I [A]		75,9	73,4	70,5	67,1	63,3	59,1	54,8	50,6
Qc [W]		162449	139467	118847	100354	83792	68996	55826	44157
COP [-]		3,30	2,91	2,58	2,30	2,05	1,83	1,63	1,44
m [kg/h]		3576	2939	2399	1940	1550	1219	940	705
Op.		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
th [°C]		73,7	80,1	86,6	93,6	101,0	109,1	118,1	128,4
50°C		Q [W]	102228	85124	70144	57068	45700	35864	27395
	Qu* [W]	102228	85124	70144	57068	45700	35864	27395	20144
	P [kW]	42,1	39,2	35,9	32,4	28,8	25,1	21,4	17,77
	I [A]	80,6	77,4	73,7	69,6	65,1	60,1	55,1	50,2
	Qc [W]	144378	124285	106043	89498	74518	60991	48819	37916
	COP [-]	2,43	2,17	1,95	1,76	1,59	1,43	1,28	1,13
	m [kg/h]	3405	2792	2271	1828	1450	1129	857	627
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	th [°C]	84,7	91,0	97,5	104,5	111,9	120,0	129,2	0

-- No calculation possible (see message in single point selection)
 *According to EN12900 (20°C suction gas temp., 0K liquid subcooling)

Application Limits 100% 6FE-50



Legend

- additional cooling or suction gas superheat ≤ 20K
- additional cooling or max. toh < 0°C
- M1: motor 1
- M2: motor 2
- A