



Selection: Semi-hermetic Reciprocating Compressors

Input Values

Compressor model Mode	(4CC-6.2Y) Refrigeration and Air conditioning	Suction gas temperature Operating mode	20,00 °C Auto
Refrigerant Reference temperature Liq. subc. (in condenser)	R404A Dew point temp. 0 K	Power supply Capacity Control Useful superheat	400V-3-50Hz 100% 100%

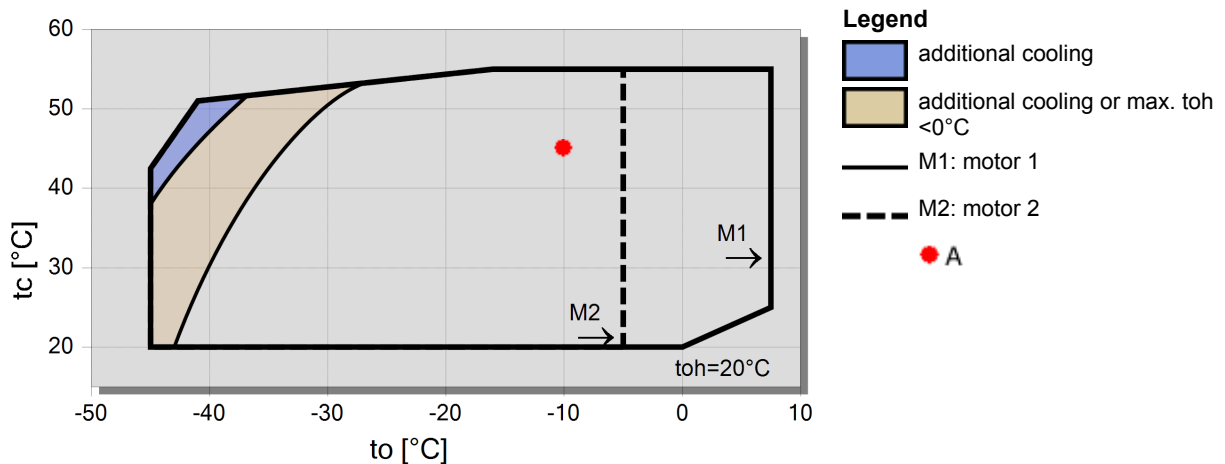
Result

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	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C	-40°C
30°C	Q [W]	24971	20648	16905	13677	10904	8537	6528	4836
	Qu* [W]	24971	20648	16905	13677	10904	8537	6528	4836
	P [kW]	6,65	6,36	5,98	5,52	5,01	4,45	3,86	3,25
	I [A]	11,73	11,31	10,79	10,19	9,54	8,86	8,20	7,57
	Qc [W]	31625	27005	22881	19199	15915	12990	10391	8088
	COP [-]	3,75	3,25	2,83	2,48	2,18	1,92	1,69	1,49
	m [kg/h]	627	514	417	335	266	207	157,5	116,3
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	th [°C]	70,6	77,7	85,3	93,4	102,1	111,6	122,0	133,7
	40°C	Q [W]	21143	17432	14211	11426	9030	6981	5240
Qu* [W]		21143	17432	14211	11426	9030	6981	5240	3770
P [kW]		7,64	7,17	6,63	6,03	5,37	4,67	3,94	3,21
I [A]		13,14	12,47	11,70	10,86	9,99	9,12	8,29	7,53
Qc [W]		28780	24606	20844	17453	14398	11651	9184	6976
COP [-]		2,77	2,43	2,14	1,90	1,68	1,50	1,33	1,18
m [kg/h]		599	488	394	314	247	189,7	141,7	101,6
Op.		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
th [°C]		82,0	89,4	97,3	105,7	114,8	124,6	135,4	0
50°C		Q [W]	17323	14221	11523	9186	7175	5456	3996
	Qu* [W]	17323	14221	11523	9186	7175	5456	3996	2768
	P [kW]	8,61	7,98	7,28	6,51	5,71	4,87	4,01	3,14
	I [A]	14,57	13,64	12,61	11,53	10,43	9,36	8,35	7,46
	Qc [W]	25933	22200	18799	15700	12882	10322	8001	5905
	COP [-]	2,01	1,78	1,58	1,41	1,26	1,12	1,00	0,88
	m [kg/h]	568	460	369	292	226	170,7	124,4	85,8
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	th [°C]	94,4	102,2	110,5	119,6	129,4	0	0	0

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

Application Limits 100% Octagon 4CC-6.2





Selection: Semi-hermetic Reciprocating Compressors

Input Values

Compressor model Mode	(2DC-2.2Y) 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	-5°C	-10°C	-15°C	-20°C	-25°C	-30°C	-35°C	-40°C
30°C	Q [W]	10113	8345	6814	5493	4360	3392	2571	1879
	Qu* [W]	10113	8345	6814	5493	4360	3392	2571	1879
	P [kW]	2,72	2,59	2,43	2,25	2,05	1,83	1,59	1,35
	I [A]	4,86	4,69	4,48	4,25	3,99	3,73	3,46	3,21
	Qc [W]	12833	10936	9248	7746	6409	5220	4164	3227
	COP [-]	3,72	3,22	2,80	2,44	2,13	1,86	1,61	1,40
	m [kg/h]	254	208	168,1	134,6	106,2	82,2	62,0	45,2
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	th [°C]	70,9	78,1	85,8	94,2	103,6	114,0	125,8	139,7
	40°C	Q [W]	8488	6977	5666	4532	3557	2724	2016
Qu* [W]		8488	6977	5666	4532	3557	2724	2016	1419
P [kW]		3,15	2,94	2,70	2,44	2,17	1,88	1,58	1,28
I [A]		5,46	5,16	4,84	4,49	4,14	3,79	3,45	3,15
Qc [W]		11640	9915	8366	6974	5724	4603	3599	2700
COP [-]		2,69	2,37	2,10	1,86	1,64	1,45	1,27	1,11
m [kg/h]		240	195,3	157,1	124,7	97,2	74,0	54,5	38,2
Op.		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
th [°C]		83,2	90,5	98,4	107,0	116,5	127,1	139,2	0
50°C		Q [W]	6900	5641	4545	3596	2779	2080	1487
	Qu* [W]	6900	5641	4545	3596	2779	2080	1487	987
	P [kW]	3,55	3,25	2,93	2,59	2,25	1,90	1,54	1,19
	I [A]	6,03	5,60	5,15	4,70	4,25	3,81	3,41	3,06
	Qc [W]	10446	8888	7474	6191	5029	3978	3030	2176
	COP [-]	1,95	1,74	1,55	1,39	1,24	1,10	0,96	0,83
	m [kg/h]	226	182,6	145,6	114,1	87,5	65,1	46,3	30,6
	Op.	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	th [°C]	95,9	103,6	111,8	120,8	130,8	0	0	0

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

Application Limits 100% Octagon 2DC-2.2

