



Tabulated calculation - H

Input

Model	H2000CS
Refrigerant	R404A
Reference temperature	Dew temperature
Suction temperature	20.0 °C
Evaporator outlet temperature	20.0 °C
Liquid subcooling	0.0 K
Voltage / phases / frequency	380-420 V / 3 / 50 Hz

Cooling capacity - At evaporator W

	Te = -5.0	Te = -10.0	Te = -15.0	Te = -20.0	Te = -25.0	Te = -30.0	Te = -35.0	Te = -40.0
Tc = 20.0	71727	59197	48356	39057	31154	24502	18953	14363
Tc = 25.0	67070	55340	45198	36499	29096	22843	17595	13204
Tc = 30.0	62365	51436	41997	33900	26999	21149	16203	12015
Tc = 35.0	57619	47495	38760	31268	24872	19427	14786	10803
Tc = 40.0	52841	43524	35497	28612	22723	17686	13352	9577
Tc = 45.0	48039	39533	32215	25940	20561	15934	11911	8346
Tc = 50.0	43223	35528	28923	23260	18394	14179	10469	
Tc = 55.0	38400	31520	25629	20582	16231	12431	9036	

Cooling capacity - At compressor W

	Te = -5.0	Te = -10.0	Te = -15.0	Te = -20.0	Te = -25.0	Te = -30.0	Te = -35.0	Te = -40.0
Tc = 20.0	71727	59197	48356	39057	31154	24502	18953	14363
Tc = 25.0	67070	55340	45198	36499	29096	22843	17595	13204
Tc = 30.0	62365	51436	41997	33900	26999	21149	16203	12015
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Tc = 45.0	48039	39533	32215	25940	20561	15934	11911	8346
Tc = 50.0	43223	35528	28923	23260	18394	14179	10469	
Tc = 55.0	38400	31520	25629	20582	16231	12431	9036	

**Absorbed power kW**

	Te = -5.0	Te = -10.0	Te = -15.0	Te = -20.0	Te = -25.0	Te = -30.0	Te = -35.0	Te = -40.0
Tc = 20.0	13.37	13.18	12.64	11.81	10.78	9.61	8.38	7.15
Tc = 25.0	14.69	14.15	13.31	12.24	11.00	9.68	8.34	7.05
Tc = 30.0	15.91	15.04	13.92	12.61	11.19	9.73	8.30	6.97
Tc = 35.0	17.05	15.86	14.47	12.94	11.35	9.77	8.27	6.92
Tc = 40.0	18.13	16.64	15.00	13.27	11.52	9.84	8.28	6.92
Tc = 45.0	19.16	17.39	15.51	13.60	11.72	9.94	8.34	6.99
Tc = 50.0	20.18	18.14	16.04	13.96	11.96	10.11	8.49	
Tc = 55.0	21.19	18.91	16.61	14.37	12.26	10.36	8.73	

Absorbed current A

	Te = -5.0	Te = -10.0	Te = -15.0	Te = -20.0	Te = -25.0	Te = -30.0	Te = -35.0	Te = -40.0
Tc = 20.0	24.7	24.4	23.7	22.6	21.3	19.9	18.6	17.3
Tc = 25.0	26.5	25.8	24.6	23.2	21.6	20.0	18.5	17.2
Tc = 30.0	28.3	27.0	25.4	23.7	21.8	20.1	18.5	17.1
Tc = 35.0	29.9	28.2	26.2	24.1	22.1	20.1	18.5	17.1
Tc = 40.0	31.5	29.3	27.0	24.6	22.3	20.2	18.5	17.1
Tc = 45.0	33.0	30.4	27.7	25.0	22.5	20.3	18.5	17.2
Tc = 50.0	34.6	31.5	28.4	25.5	22.8	20.5	18.7	
Tc = 55.0	36.1	32.7	29.3	26.1	23.2	20.8	18.9	

Mass flow kg/h

	Te = -5.0	Te = -10.0	Te = -15.0	Te = -20.0	Te = -25.0	Te = -30.0	Te = -35.0	Te = -40.0
Tc = 20.0	1629.6	1331.8	1078.5	865.2	687.0	539.3	417.4	316.4
Tc = 25.0	1598.0	1306.2	1057.9	848.3	672.9	526.9	405.5	304.1
Tc = 30.0	1564.6	1278.8	1035.4	829.7	657.1	512.7	391.9	290.0
Tc = 35.0	1529.5	1249.7	1011.3	809.5	639.6	496.9	376.7	274.3
Tc = 40.0	1492.9	1219.2	985.7	787.7	620.6	479.7	360.1	257.2
Tc = 45.0	1455.0	1187.2	958.7	764.7	600.4	461.1	342.2	238.8
Tc = 50.0	1415.8	1154.1	930.6	740.4	578.9	441.4	323.1	
Tc = 55.0	1375.5	1120.0	901.4	715.2	556.5	420.7	303.0	