



Tabulated calculation - H

Input

Model	H1501CC
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	46151	38537	31801	25895	20775	16394	12708	9670
Tc = 25.0	43241	36097	29773	24224	19404	15267	11768	8862
Tc = 30.0	40293	33620	27711	22521	18003	14113	10803	8030
Tc = 35.0	37305	31105	25614	20784	16571	12928	9811	7172
Tc = 40.0	34275	28551	23479	19012	15105	11712	8788	6288
Tc = 45.0	31203	25956	21304	17202	13604	10463	7735	5374
Tc = 50.0	28084	23317	19089	15353	12065	9179	6648	
Tc = 55.0	24919	20634	16830	13464	10488	7858	5527	

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	46151	38537	31801	25895	20775	16394	12708	9670
Tc = 25.0	43241	36097	29773	24224	19404	15267	11768	8862
Tc = 30.0	40293	33620	27711	22521	18003	14113	10803	8030
Tc = 35.0	37305	31105	25614	20784	16571	12928	9811	7172
Tc = 40.0	34275	28551	23479	19012	15105	11712	8788	6288
Tc = 45.0	31203	25956	21304	17202	13604	10463	7735	5374
Tc = 50.0	28084	23317	19089	15353	12065	9179	6648	
Tc = 55.0	24919	20634	16830	13464	10488	7858	5527	

**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	8.43	8.39	8.10	7.61	6.98	6.24	5.46	4.66
Tc = 25.0	9.42	9.15	8.66	8.01	7.24	6.40	5.54	4.70
Tc = 30.0	10.30	9.82	9.15	8.35	7.46	6.53	5.60	4.73
Tc = 35.0	11.08	10.40	9.57	8.63	7.63	6.62	5.64	4.75
Tc = 40.0	11.77	10.91	9.92	8.86	7.77	6.69	5.68	4.78
Tc = 45.0	12.38	11.35	10.22	9.05	7.87	6.75	5.72	4.83
Tc = 50.0	12.91	11.73	10.48	9.21	7.97	6.80	5.76	
Tc = 55.0	13.38	12.05	10.69	9.34	8.05	6.86	5.83	

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	19.6	19.5	19.2	18.8	18.2	17.6	16.9	16.4
Tc = 25.0	20.6	20.3	19.8	19.2	18.4	17.7	17.0	16.4
Tc = 30.0	21.6	21.1	20.3	19.5	18.6	17.8	17.0	16.4
Tc = 35.0	22.5	21.7	20.8	19.8	18.8	17.9	17.1	16.5
Tc = 40.0	23.4	22.3	21.2	20.0	18.9	17.9	17.1	16.5
Tc = 45.0	24.1	22.9	21.5	20.2	19.0	18.0	17.1	16.5
Tc = 50.0	24.8	23.3	21.8	20.4	19.1	18.0	17.2	
Tc = 55.0	25.4	23.7	22.1	20.5	19.2	18.1	17.2	

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	1046.2	863.9	706.7	572.4	458.4	362.5	282.3	215.4
Tc = 25.0	1029.0	849.0	693.9	561.1	448.3	353.3	273.5	206.7
Tc = 30.0	1010.8	833.2	679.9	548.6	437.0	342.7	263.3	196.5
Tc = 35.0	991.6	816.1	664.7	534.9	424.3	330.6	251.5	184.6
Tc = 40.0	971.1	797.8	648.1	519.6	410.0	316.9	238.0	170.9
Tc = 45.0	949.3	778.0	630.0	502.8	394.1	301.5	222.7	155.3
Tc = 50.0	926.0	756.7	610.2	484.2	376.3	284.2	205.5	
Tc = 55.0	901.0	733.6	588.7	463.8	356.7	264.9	186.1	