Tabulated calculation - H

Input

Model	H1501CS
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	53224	44314	36510	29737	23920	18982	14849	11444
Tc = 25.0	49916	41498	34131	27742	22254	17592	13680	10443
Tc = 30.0	46592	38668	31743	25740	20586	16203	12516	9450
Tc = 35.0	43249	35823	29343	23731	18912	14812	11354	8463
Tc = 40.0	39885	32962	26929	21711	17233	13419	10193	7479
Tc = 45.0	36500	30082	24501	19681	15546	12021	9030	6499
Tc = 50.0	33091	27183	22056	17637	13849	10617	7866	
Tc = 55.0	29658	24262	19594	15579	12142	9206	6697	

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	53224	44314	36510	29737	23920	18982	14849	11444
Tc = 25.0	49916	41498	34131	27742	22254	17592	13680	10443
Tc = 30.0	46592	38668	31743	25740	20586	16203	12516	9450
Tc = 35.0	43249	35823	29343	23731	18912	14812	11354	8463
Tc = 40.0	39885	32962	26929	21711	17233	13419	10193	7479
Tc = 45.0	36500	30082	24501	19681	15546	12021	9030	6499
Tc = 50.0	33091	27183	22056	17637	13849	10617	7866	
Tc = 55.0	29658	24262	19594	15579	12142	9206	6697	

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	10.39	10.01	9.47	8.81	8.08	7.30	6.51	5.74
Tc = 25.0	11.31	10.71	9.99	9.18	8.32	7.44	6.57	5.75
Tc = 30.0	12.18	11.37	10.47	9.51	8.52	7.54	6.60	5.74
Tc = 35.0	13.01	12.00	10.93	9.82	8.71	7.63	6.63	5.73
Tc = 40.0	13.83	12.62	11.37	10.12	8.90	7.73	6.67	5.73
Tc = 45.0	14.65	13.25	11.83	10.44	9.10	7.86	6.73	5.77
Tc = 50.0	15.49	13.90	12.32	10.79	9.35	8.02	6.84	
Tc = 55.0	16.37	14.59	12.86	11.20	9.65	8.24	7.02	

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	18.3	17.7	17.0	16.1	15.1	14.0	13.0	12.1
Tc = 25.0	19.6	18.7	17.7	16.6	15.4	14.2	13.1	12.1
Tc = 30.0	20.8	19.7	18.4	17.0	15.7	14.4	13.2	12.1
Tc = 35.0	22.1	20.6	19.0	17.4	15.9	14.5	13.2	12.1
Tc = 40.0	23.3	21.5	19.7	17.9	16.2	14.6	13.2	12.1
Tc = 45.0	24.5	22.4	20.3	18.3	16.4	14.8	13.3	12.2
Tc = 50.0	25.8	23.4	21.0	18.8	16.8	15.0	13.5	
Tc = 55.0	27.1	24.4	21.8	19.4	17.2	15.3	13.7	

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	1208.9	996.6	813.9	658.3	527.0	417.3	326.5	251.9
Tc = 25.0	1190.0	979.5	798.4	644.1	513.9	405.0	314.8	240.5
Tc = 30.0	1170.5	961.8	782.2	629.2	500.0	391.9	302.2	228.2
Tc = 35.0	1150.3	943.3	765.3	613.5	485.3	378.0	288.8	215.0
Tc = 40.0	1129.4	924.1	747.5	597.0	469.7	363.1	274.4	200.9
Tc = 45.0	1107.7	904.1	728.9	579.5	453.2	347.3	259.0	185.7
Tc = 50.0	1085.1	883.2	709.4	561.2	435.8	330.5	242.6	
Tc = 55.0	1061.7	861.3	688.9	541.8	417.2	312.6	225.1	