Tabulated calculation - H

Input

Model	H2500CC
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	71248	58601	47718	38437	30596	24032	18584	14089
Tc = 25.0	66570	54734	44555	35870	28519	22337	17165	12838
Tc = 30.0	61846	50824	41353	33268	26409	20614	15720	11565
Tc = 35.0	57085	46881	38120	30639	24277	18871	14259	10279
Tc = 40.0	52295	42912	34865	27991	22128	17115	12788	8987
Tc = 45.0	47483	38925	31595	25331	19972	15355	11317	7698
Tc = 50.0	42659	34928	28319	22669	17816	13598	9853	
Tc = 55.0	37830	30931	25045	20012	15669	11854	8405	

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	71248	58601	47718	38437	30596	24032	18584	14089
Tc = 25.0	66570	54734	44555	35870	28519	22337	17165	12838
Tc = 30.0	61846	50824	41353	33268	26409	20614	15720	11565
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Tc = 40.0	52295	42912	34865	27991	22128	17115	12788	8987
Tc = 45.0	47483	38925	31595	25331	19972	15355	11317	7698
Tc = 50.0	42659	34928	28319	22669	17816	13598	9853	
Tc = 55.0	37830	30931	25045	20012	15669	11854	8405	

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	12.73	12.48	11.94	11.18	10.24	9.17	8.01	6.82
Tc = 25.0	13.95	13.40	12.61	11.63	10.50	9.27	7.99	6.71
Tc = 30.0	15.10	14.26	13.22	12.02	10.71	9.33	7.94	6.59
Tc = 35.0	16.18	15.07	13.79	12.38	10.89	9.38	7.88	6.45
Tc = 40.0	17.23	15.85	14.32	12.71	11.06	9.41	7.82	6.32
Tc = 45.0	18.25	16.60	14.85	13.04	11.23	9.45	7.77	6.21
Tc = 50.0	19.25	17.34	15.37	13.38	11.41	9.51	7.74	
Tc = 55.0	20.25	18.10	15.91	13.73	11.61	9.61	7.76	

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	26.9	26.6	26.0	25.2	24.3	23.3	22.3	21.4
Tc = 25.0	28.3	27.6	26.7	25.7	24.5	23.4	22.3	21.3
Tc = 30.0	29.6	28.6	27.4	26.1	24.7	23.4	22.3	21.2
Tc = 35.0	31.0	29.6	28.1	26.5	24.9	23.5	22.2	21.1
Tc = 40.0	32.3	30.6	28.7	26.8	25.1	23.5	22.2	21.1
Tc = 45.0	33.7	31.5	29.3	27.2	25.3	23.5	22.1	21.0
Tc = 50.0	35.0	32.5	30.0	27.6	25.4	23.6	22.1	
Tc = 55.0	36.4	33.5	30.7	28.0	25.7	23.7	22.1	

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	1613.6	1311.0	1058.0	848.3	675.7	533.8	416.3	317.0
Tc = 25.0	1582.4	1284.7	1035.8	829.3	659.0	518.5	401.5	301.8
Tc = 30.0	1549.8	1257.0	1012.1	808.7	640.5	501.3	384.8	284.7
Tc = 35.0	1516.1	1228.1	987.0	786.6	620.6	482.6	366.4	265.7
Tc = 40.0	1481.5	1198.2	960.9	763.3	599.3	462.5	346.5	245.2
Tc = 45.0	1446.1	1167.4	933.8	739.0	576.9	441.1	325.3	223.2
Tc = 50.0	1410.2	1135.9	905.9	713.9	553.6	418.8	303.0	
Tc = 55.0	1374.0	1104.1	877.6	688.2	529.7	395.6	279.9	