



Tabulated calculation - H

Input

Model	H3001CS
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	106068	87446	71343	57538	45812	35943	27711	20895
Tc = 25.0	99363	81905	66818	53882	42877	33581	25775	19239
Tc = 30.0	92578	76290	62225	50164	39886	31170	23796	17544
Tc = 35.0	85724	70611	57575	46395	36850	28719	21784	15822
Tc = 40.0	78813	64882	52880	42587	33781	26242	19750	14085
Tc = 45.0	71856	59114	48152	38751	30691	23750	17708	12345
Tc = 50.0	64866	53317	43402	34900	27591	21254	15668	
Tc = 55.0	57854	47506	38643	31046	24493	18766	13642	

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	106068	87446	71343	57538	45812	35943	27711	20895
Tc = 25.0	99363	81905	66818	53882	42877	33581	25775	19239
Tc = 30.0	92578	76290	62225	50164	39886	31170	23796	17544
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Tc = 45.0	71856	59114	48152	38751	30691	23750	17708	12345
Tc = 50.0	64866	53317	43402	34900	27591	21254	15668	
Tc = 55.0	57854	47506	38643	31046	24493	18766	13642	

**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	19.84	19.66	18.91	17.72	16.19	14.43	12.57	10.71
Tc = 25.0	21.99	21.27	20.07	18.48	16.63	14.63	12.59	10.63
Tc = 30.0	23.95	22.73	21.09	19.14	17.00	14.78	12.59	10.55
Tc = 35.0	25.77	24.07	22.02	19.73	17.32	14.90	12.59	10.50
Tc = 40.0	27.46	25.31	22.87	20.27	17.62	15.04	12.63	10.51
Tc = 45.0	29.07	26.49	23.69	20.81	17.94	15.21	12.73	10.62
Tc = 50.0	30.62	27.63	24.51	21.37	18.31	15.46	12.94	
Tc = 55.0	32.15	28.78	25.35	21.97	18.76	15.82	13.27	

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	37.1	36.8	35.9	34.3	32.5	30.4	28.4	26.5
Tc = 25.0	40.0	39.0	37.4	35.3	33.0	30.6	28.4	26.5
Tc = 30.0	42.7	41.0	38.7	36.2	33.5	30.8	28.4	26.4
Tc = 35.0	45.3	42.9	40.0	36.9	33.8	30.9	28.4	26.3
Tc = 40.0	47.7	44.6	41.2	37.6	34.2	31.1	28.4	26.3
Tc = 45.0	50.1	46.3	42.3	38.4	34.6	31.3	28.5	26.5
Tc = 50.0	52.4	48.0	43.5	39.1	35.1	31.6	28.7	
Tc = 55.0	54.7	49.7	44.7	40.0	35.7	32.0	29.1	

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	2410.0	1967.2	1591.1	1274.5	1010.2	791.2	610.4	460.7
Tc = 25.0	2367.5	1933.1	1563.7	1252.2	991.5	774.5	594.1	443.2
Tc = 30.0	2322.7	1896.6	1533.9	1227.6	970.5	755.5	575.5	423.5
Tc = 35.0	2275.7	1857.9	1502.0	1200.9	947.4	734.4	554.9	401.7
Tc = 40.0	2226.9	1817.5	1468.3	1172.4	922.5	711.5	532.5	378.1
Tc = 45.0	2176.6	1775.5	1433.1	1142.4	896.1	687.2	508.6	353.1
Tc = 50.0	2125.0	1732.3	1396.7	1111.2	868.5	661.7	483.5	
Tc = 55.0	2072.5	1688.2	1359.4	1079.0	840.0	635.2	457.6	