



OFFICINE MARIO DORIN SINCE 1918

DORIN
INNOVATION

Model: H1002CC - PAGE 1

21/07/2026 - Dorin Software v. 26.02

All data subject to change

Tabulated calculation - H

Input

Model	H1002CC
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	35807	29478	23965	19212	15163	11763	8957	6690
Tc = 25.0	33227	27305	22155	17722	13948	10780	8162	6038
Tc = 30.0	30696	25180	20392	16277	12778	9840	7408	5427
Tc = 35.0	28212	23102	18675	14876	11650	8941	6695	4854
Tc = 40.0	25774	21067	17000	13517	10563	8082	6019	4319
Tc = 45.0	23380	19075	15366	12198	9514	7260	5380	3819
Tc = 50.0	21028	17124	13772	10917	8503	6474	4776	
Tc = 55.0	18716	15212	12216	9673	7526	5722	4204	

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	35807	29478	23965	19212	15163	11763	8957	6690
Tc = 25.0	33227	27305	22155	17722	13948	10780	8162	6038
Tc = 30.0	30696	25180	20392	16277	12778	9840	7408	5427
Tc = 35.0	28212	23102	18675	14876	11650	8941	6695	4854
Tc = 40.0	25774	21067	17000	13517	10563	8082	6019	4319
Tc = 45.0	23380	19075	15366	12198	9514	7260	5380	3819
Tc = 50.0	21028	17124	13772	10917	8503	6474	4776	
Tc = 55.0	18716	15212	12216	9673	7526	5722	4204	

**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	6.31	6.13	5.85	5.49	5.06	4.59	4.08	3.57
Tc = 25.0	6.91	6.62	6.24	5.79	5.28	4.74	4.18	3.62
Tc = 30.0	7.48	7.08	6.60	6.07	5.48	4.87	4.26	3.65
Tc = 35.0	8.01	7.51	6.94	6.32	5.66	4.99	4.32	3.67
Tc = 40.0	8.53	7.92	7.25	6.55	5.82	5.08	4.36	3.68
Tc = 45.0	9.01	8.30	7.55	6.76	5.96	5.16	4.39	3.67
Tc = 50.0	9.47	8.66	7.81	6.95	6.08	5.23	4.41	
Tc = 55.0	9.91	9.00	8.06	7.12	6.19	5.28	4.42	

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	12.2	12.0	11.7	11.3	10.8	10.3	9.9	9.4
Tc = 25.0	12.9	12.6	12.1	11.6	11.1	10.5	10.0	9.5
Tc = 30.0	13.7	13.2	12.6	11.9	11.3	10.6	10.0	9.5
Tc = 35.0	14.4	13.7	13.0	12.2	11.5	10.7	10.1	9.5
Tc = 40.0	15.0	14.2	13.4	12.5	11.6	10.8	10.1	9.5
Tc = 45.0	15.7	14.7	13.7	12.8	11.8	10.9	10.2	9.5
Tc = 50.0	16.3	15.2	14.1	13.0	11.9	11.0	10.2	
Tc = 55.0	17.0	15.7	14.4	13.2	12.1	11.0	10.2	

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	810.9	659.9	531.9	424.4	334.9	261.1	200.5	150.6
Tc = 25.0	789.8	641.1	515.2	409.6	322.0	249.8	190.7	142.1
Tc = 30.0	769.2	622.7	498.9	395.2	309.3	238.7	181.0	133.6
Tc = 35.0	749.3	604.9	483.1	381.2	297.0	227.9	171.6	125.4
Tc = 40.0	730.1	587.9	468.0	367.9	285.3	217.7	162.6	117.6
Tc = 45.0	712.0	571.8	453.7	355.4	274.4	208.1	154.3	110.4
Tc = 50.0	695.0	556.8	440.6	343.9	264.3	199.4	146.8	
Tc = 55.0	679.3	543.0	428.6	333.5	255.4	191.8	140.2	