

AHC5522CTZ

General

Model	AHC5522CTZ	Unit of Measure	Celsius
Condition	EN12900	Voltage/Frequency	400V 3~ 50HZ
RETURN GAS	10K (18°F) SUPERHEAT	Motor Type	3PH

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	932	770						
	Watts (Power)	974	965						
	Amps	2.72	2.63						
-23.3	Watts (Capacity)	1100	923	761					
	Watts (Power)	1020	1020	1000					
	Amps	2.76	2.67	2.59					
-20	Watts (Capacity)	1450	1260	1070	895	740			
	Watts (Power)	1120	1120	1110	1090	1060			
	Amps	2.82	2.76	2.70	2.64	2.57			
-15	Watts (Capacity)	2090	1860	1630	1410	1200	1020		
	Watts (Power)	1260	1280	1280	1280	1270	1250		
	Amps	2.92	2.89	2.85	2.82	2.78	2.75		
-10	Watts (Capacity)	2880	2600	2320	2050	1780	1530	1310	
	Watts (Power)	1410	1440	1460	1470	1480	1480	1460	
	Amps	3.00	3.00	2.99	2.99	2.99	2.98	2.98	
-6.7	Watts (Capacity)	3490	3170	2860	2540	2240	1950	1670	1420
	Watts (Power)	1510	1540	1570	1600	1620	1630	1630	1620
	Amps	3.06	3.07	3.08	3.10	3.11	3.13	3.14	3.16
-5	Watts (Capacity)	3830	3490	3160	2820	2500	2180	1880	1610
	Watts (Power)	1560	1600	1630	1670	1690	1710	1720	1720
	Amps	3.08	3.10	3.13	3.15	3.18	3.20	3.23	3.25
0	Watts (Capacity)	4950	4560	4160	3760	3360	2970	2590	2240
	Watts (Power)	1710	1760	1810	1860	1910	1950	1980	2010
	Amps	3.15	3.20	3.25	3.31	3.36	3.41	3.46	3.52
5	Watts (Capacity)	6260	5810	5340	4870	4390	3920	3460	3020
	Watts (Power)	1870	1930	2000	2060	2130	2190	2250	2300
	Amps	3.20	3.29	3.37	3.45	3.53	3.61	3.70	3.78
7.2	Watts (Capacity)	6900	6420	5920	5420	4910	4400	3900	3410
	Watts (Power)	1940	2010	2080	2160	2230	2300	2370	2430
	Amps	3.23	3.32	3.42	3.51	3.60	3.70	3.79	3.89
10	Watts (Capacity)	7780	7260	6720	6170	5610	5050	4500	3960
	Watts (Power)	2030	2110	2190	2270	2360	2440	2520	2600
	Amps	3.25	3.36	3.47	3.58	3.70	3.81	3.92	4.03
15	Watts (Capacity)	9530	8930	8310	7670	7030	6380	5730	5090
	Watts (Power)	2210	2300	2390	2490	2590	2700	2800	2910

	Amps	3.29	3.43	3.57	3.71	3.85	3.99	4.13	4.27
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.788741E+03	1.452968E+03	2.829004E+00	
C2	2.988003E+02	2.621158E+01	-2.216600E-02	
C3	-3.954114E+01	5.154570E+00	1.061522E-02	
C4	4.597087E+00	1.139886E-01	-1.877280E-04	
C5	-1.365299E+00	-1.144054E-01	1.153202E-03	
C6	-9.512061E-01	1.669801E-01	-2.762769E-07	
C7	2.220685E-02	1.657090E-03	0.000000E+00	
C8	-2.488862E-02	-1.568780E-04	0.000000E+00	
C9	-1.653156E-02	9.292601E-03	0.000000E+00	
C10	7.418158E-03	-1.762576E-03	0.000000E+00	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

AHC5522CTZ

General

Model	AHC5522CTZ	Unit of Measure	Celsius
Condition	EN12900	Voltage/Frequency	440V3~ 60HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	3PH

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	1180	1020						
	Watts (Power)	974	965						
	Amps	2.43	2.32						
-23.3	Watts (Capacity)	1340	1170	1020					
	Watts (Power)	1020	1020	1000					
	Amps	2.48	2.39	2.29					
-20	Watts (Capacity)	1700	1490	1310	1150	1030			
	Watts (Power)	1120	1120	1110	1090	1060			
	Amps	2.58	2.51	2.43	2.35	2.27			
-15	Watts (Capacity)	2400	2130	1870	1640	1440	1280		
	Watts (Power)	1260	1280	1280	1280	1270	1250		
	Amps	2.73	2.69	2.65	2.60	2.55	2.49		
-10	Watts (Capacity)	3300	2960	2630	2310	2030	1770	1550	
	Watts (Power)	1410	1440	1460	1470	1480	1480	1460	
	Amps	2.89	2.88	2.87	2.85	2.83	2.80	2.77	
-6.7	Watts (Capacity)	4010	3620	3240	2870	2520	2200	1910	1670
	Watts (Power)	1510	1540	1570	1600	1620	1630	1630	1620
	Amps	2.99	3.00	3.01	3.01	3.01	3.01	3.01	3.00
-5	Watts (Capacity)	4420	4010	3600	3200	2810	2460	2130	1850
	Watts (Power)	1560	1600	1630	1670	1690	1710	1720	1720
	Amps	3.04	3.07	3.08	3.10	3.11	3.12	3.12	3.12
0	Watts (Capacity)	5790	5300	4800	4310	3830	3370	2930	2530
	Watts (Power)	1710	1760	1810	1860	1910	1950	1980	2010
	Amps	3.20	3.26	3.30	3.35	3.39	3.43	3.46	3.49
5	Watts (Capacity)	7450	6870	6280	5690	5100	4530	3970	3450
	Watts (Power)	1870	1930	2000	2060	2130	2190	2250	2300
	Amps	3.36	3.45	3.53	3.60	3.68	3.74	3.81	3.87
7.2	Watts (Capacity)	8270	7650	7020	6380	5750	5120	4520	3930
	Watts (Power)	1940	2010	2080	2160	2230	2300	2370	2430
	Amps	3.43	3.53	3.62	3.71	3.80	3.88	3.96	4.04
10	Watts (Capacity)	9400	8730	8040	7350	6650	5960	5280	4630
	Watts (Power)	2030	2110	2190	2270	2360	2440	2520	2600
	Amps	3.52	3.64	3.75	3.86	3.96	4.06	4.16	4.25
15	Watts (Capacity)	11700	10900	10100	9320	8500	7690	6880	6090
	Watts (Power)	2210	2300	2390	2490	2590	2700	2800	2910

	Amps	3.68	3.83	3.97	4.11	4.25	4.38	4.51	4.63
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	8.254295E+03	1.452968E+03	2.809951E+00	
C2	3.752367E+02	2.621158E+01	-5.782926E-03	
C3	-5.718631E+01	5.154570E+00	1.529185E-02	
C4	6.270429E+00	1.139886E-01	2.909122E-05	
C5	-1.691602E+00	-1.144054E-01	1.249357E-03	
C6	-1.131698E+00	1.669801E-01	-7.337229E-05	
C7	3.456287E-02	1.657090E-03	0.000000E+00	
C8	-2.400036E-02	-1.568780E-04	0.000000E+00	
C9	-2.517956E-02	9.292601E-03	0.000000E+00	
C10	1.011556E-02	-1.762576E-03	0.000000E+00	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature