



Model: AJE5512ECZ (AJ5512E)

Product Description

Type: Reciprocating
Application: HBP/AC - Air Conditioning
Refrigerant: R-22
Voltage/Frequency: 230V ~ 60Hz 208V ~ 50Hz
Version: N/A

Product Specifications

Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power	Efficiency			EVAP TEMP	COND TEMP	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		Btu/h	kcal/h	W	W	Btu/Wh	kcal/Wh	W/W					
EN12900	230V ~ 60HZ	10754	2710	3151	1363	7.89	1.99	2.31	5°C (41°F)	50°C (122°F)	32°C (90°F)	15°C (59°F)	50°C (122°F)
EN12900	208V ~ 50HZ	9137	2303	2677	1176	7.77	1.96	2.28	5°C (41°F)	50°C (122°F)	32°C (90°F)	15°C (59°F)	50°C (122°F)

General

Evaporating Temp. Range: -15°C to 15°C (5°F to 59°F)
Motor Torque: Low Start Torque (LST)
Compressor Cooling: Fan

Mechanical

Weight: 20
Weight Unit of Measure: KG
Displacement (cc): 21.75
Oil Type: Mineral
Viscosity (cSt): 68
Oil Charge (cc): 782

Electrical

Voltage Range (50 Hz): 187-230
Voltage Range (60 Hz): 207-253
Locked Rotor Amps (LRA): 33
Rated Load Amps (RLA 50 Hz): 6.7
Rated Load Amps (RLA 60 Hz): 6.7
Max. Continuous Current (MCC in Amps): 0
Motor Resistance (Ohm) - Main: 2.1
Motor Resistance (Ohm) - Start: 10.5
Motor Type: PSC
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed, IRAM Listed



Tecumseh

Performance Data Sheet

AJE5512ECZ

General Information

Model	AJE5512ECZ	Refrigerant	R-22
Test Condition	Tecumseh Europe	Performance Test Voltage	208V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	865	766						
	Watts (Power)	776	724						
	Amps	6.55	6.25						
-23.3	Watts (Capacity)	964	858	757					
	Watts (Power)	793	748	707					
	Amps	6.47	6.21	5.94					
-20	Watts (Capacity)	1180	1060	947	836	727			
	Watts (Power)	824	793	765	739	716			
	Amps	6.33	6.14	5.95	5.76	5.57			
-15	Watts (Capacity)	1580	1430	1290	1160	1030	899		
	Watts (Power)	866	854	845	839	834	830		
	Amps	6.15	6.07	5.98	5.90	5.82	5.73		
-10	Watts (Capacity)	2050	1880	1710	1550	1400	1240	1090	
	Watts (Power)	901	907	916	927	939	952	966	
	Amps	6.00	6.02	6.04	6.05	6.07	6.08	6.10	
-6.7	Watts (Capacity)	2410	2210	2030	1850	1670	1500	1330	1150
	Watts (Power)	921	938	957	979	1000	1020	1050	1070
	Amps	5.93	6.01	6.09	6.16	6.23	6.31	6.38	6.46
-5	Watts (Capacity)	2600	2400	2200	2010	1830	1640	1460	1280
	Watts (Power)	930	953	977	1000	1030	1060	1090	1120
	Amps	5.90	6.01	6.12	6.22	6.32	6.42	6.53	6.64
0	Watts (Capacity)	3240	3000	2760	2540	2320	2110	1890	1680
	Watts (Power)	953	990	1030	1070	1110	1150	1190	1240
	Amps	5.84	6.03	6.22	6.40	6.58	6.76	6.95	7.13

5	Watts (Capacity)	3950	3670	3400	3130	2880	2630	2380	2130
	Watts (Power)	969	1020	1070	1120	1180	1230	1280	1340
	Amps	5.81	6.08	6.34	6.59	6.85	7.10	7.35	7.61
7.2	Watts (Capacity)	4290	3990	3700	3420	3150	2880	2610	2350
	Watts (Power)	974	1030	1090	1140	1200	1260	1320	1380
	Amps	5.82	6.11	6.40	6.68	6.97	7.25	7.53	7.81
10	Watts (Capacity)	4740	4420	4100	3800	3500	3210	2920	2640
	Watts (Power)	979	1040	1100	1170	1230	1290	1360	1420
	Amps	5.83	6.16	6.48	6.80	7.12	7.43	7.75	8.06
15	Watts (Capacity)	5610	5240	4880	4530	4190	3850	3530	3200
	Watts (Power)	983	1050	1120	1200	1270	1340	1420	1490
	Amps	5.89	6.27	6.65	7.02	7.39	7.76	8.13	8.49

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.040000E+03	8.110000E+02	4.540000E+00	
C2	1.850000E+02	-1.330000E+01	-1.050000E-01	
C3	-7.330000E+01	1.720000E+00	4.920000E-02	
C4	2.050000E+00	7.010000E-02	1.850000E-03	
C5	-1.810000E+00	5.970000E-01	3.300000E-03	
C6	5.340000E-01	1.230000E-01	-2.460000E-04	
C7	-3.000000E-16	-2.000000E-16	0.000000E+00	
C8	-1.540000E-02	-6.580000E-03	-3.500000E-05	
C9	4.320000E-03	-7.950000E-04	-2.940000E-06	
C10	-3.110000E-03	-7.520000E-04	1.580000E-06	

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

Te = Evaporator Temperature

Tc = Condensing Temperature



Tecumseh

Performance Data Sheet

AJE5512ECZ

General Information

Model	AJE5512ECZ	Refrigerant	R-22
Test Condition	Tecumseh Europe	Performance Test Voltage	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	1010	892						
	Watts (Power)	780	724						
	Amps	4.22	3.97						
-23.3	Watts (Capacity)	1140	1010	890					
	Watts (Power)	806	758	713					
	Amps	4.33	4.11	3.89					
-20	Watts (Capacity)	1410	1270	1130	997	866			
	Watts (Power)	853	819	789	761	735			
	Amps	4.53	4.37	4.21	4.05	3.89			
-15	Watts (Capacity)	1890	1720	1550	1390	1240	1080		
	Watts (Power)	920	907	897	889	884	879		
	Amps	4.80	4.73	4.66	4.59	4.51	4.44		
-10	Watts (Capacity)	2460	2250	2050	1860	1680	1490	1300	
	Watts (Power)	980	987	996	1010	1020	1030	1050	
	Amps	5.04	5.06	5.07	5.08	5.09	5.10	5.12	
-6.7	Watts (Capacity)	2880	2650	2420	2210	2000	1800	1590	1380
	Watts (Power)	1020	1040	1060	1080	1100	1130	1160	1180
	Amps	5.18	5.25	5.31	5.38	5.44	5.51	5.58	5.65
-5	Watts (Capacity)	3110	2860	2630	2400	2180	1960	1750	1530
	Watts (Power)	1030	1060	1090	1120	1150	1180	1210	1240
	Amps	5.25	5.34	5.44	5.53	5.62	5.71	5.80	5.90
0	Watts (Capacity)	3840	3550	3280	3010	2750	2500	2250	1990
	Watts (Power)	1080	1120	1170	1210	1260	1310	1360	1400
	Amps	5.42	5.59	5.76	5.93	6.10	6.27	6.44	6.61

5	Watts (Capacity)	4650	4320	4000	3690	3390	3100	2810	2510
	Watts (Power)	1120	1180	1240	1300	1360	1430	1490	1550
	Amps	5.55	5.80	6.05	6.29	6.53	6.77	7.02	7.26
7.2	Watts (Capacity)	5040	4680	4340	4020	3700	3380	3070	2760
	Watts (Power)	1140	1200	1270	1340	1410	1470	1540	1610
	Amps	5.60	5.88	6.16	6.44	6.71	6.98	7.25	7.53
10	Watts (Capacity)	5550	5170	4800	4450	4100	3760	3430	3090
	Watts (Power)	1160	1230	1300	1380	1460	1530	1610	1680
	Amps	5.65	5.97	6.29	6.61	6.92	7.23	7.54	7.85
15	Watts (Capacity)	6530	6090	5670	5270	4870	4490	4100	3720
	Watts (Power)	1190	1270	1360	1450	1540	1630	1710	1800
	Amps	5.72	6.11	6.50	6.88	7.26	7.64	8.01	8.39

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.970000E+03	9.160000E+02	4.240000E+00	
C2	2.120000E+02	-1.190000E+01	-6.490000E-02	
C3	-8.670000E+01	2.250000E+00	4.410000E-02	
C4	2.130000E+00	1.690000E-02	-2.990000E-04	
C5	-2.070000E+00	7.200000E-01	3.260000E-03	
C6	6.310000E-01	1.340000E-01	-2.040000E-04	
C7	-3.000000E-16	-2.000000E-16	0.000000E+00	
C8	-1.580000E-02	-4.850000E-03	-1.300000E-05	
C9	5.080000E-03	-9.350000E-04	-2.640000E-06	
C10	-3.670000E-03	-8.210000E-04	1.320000E-06	

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

Te = Evaporator Temperature

Tc = Condensing Temperature