



Model: AJE4517EHZ (CAJ4517E)

Product Description

Type: Reciprocating
Application: HBP - High Back Pressure
Refrigerant: R-22
Voltage/Frequency: 208-220V ~ 60Hz
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	220V ~ 60HZ	14754	3718	4323	1578	9.35	2.36	2.74	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)

General

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

Mechanical

Weight: 23
Weight Unit of Measure: KG
Displacement (cc): 25.95
Oil Type: Mineral
Viscosity (cSt): 68
Oil Charge (cc): 782

Electrical

Voltage Range (50 Hz): N/A
Voltage Range (60 Hz): 187-242
Locked Rotor Amps (LRA): 45
Rated Load Amps (RLA 50 Hz): 8.5
Rated Load Amps (RLA 60 Hz): 8.5
Max. Continuous Current (MCC in Amps): 0
Motor Resistance (Ohm) - Main: 1.2
Motor Resistance (Ohm) - Start: 6.1
Motor Type: CSR
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed



Tecumseh

Performance Data Sheet

AJE4517EHZ

General Information

Model	AJE4517EHZ	Refrigerant	R-22
Test Condition	Tecumseh Europe	Performance Test Voltage	220V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-6.7	Watts (Capacity)	3680	3440	3180	2910	2640	2360	2090	1820
	Watts (Power)	1270	1290	1320	1350	1390	1420	1450	1480
	Amps	6.41	6.47	6.54	6.62	6.70	6.79	6.88	6.97
-5	Watts (Capacity)	3960	3690	3420	3140	2850	2570	2280	2000
	Watts (Power)	1280	1310	1350	1380	1420	1460	1500	1540
	Amps	6.50	6.59	6.69	6.80	6.91	7.03	7.15	7.27
0	Watts (Capacity)	4810	4500	4180	3860	3530	3200	2880	2560
	Watts (Power)	1320	1370	1420	1480	1540	1600	1660	1710
	Amps	6.75	6.94	7.13	7.33	7.53	7.74	7.95	8.15
5	Watts (Capacity)	5730	5370	5010	4640	4260	3900	3530	3170
	Watts (Power)	1370	1440	1510	1580	1650	1730	1800	1880
	Amps	7.00	7.28	7.56	7.86	8.15	8.45	8.75	9.04
7.2	Watts (Capacity)	6160	5780	5390	5000	4610	4220	3840	3460
	Watts (Power)	1390	1470	1540	1620	1700	1790	1870	1950
	Amps	7.11	7.43	7.75	8.09	8.42	8.76	9.10	9.43
10	Watts (Capacity)	6720	6310	5900	5480	5060	4650	4240	3840
	Watts (Power)	1430	1510	1590	1680	1770	1860	1950	2040
	Amps	7.24	7.61	7.99	8.38	8.77	9.16	9.55	9.93
15	Watts (Capacity)	7790	7320	6850	6380	5920	5460	5000	4560
	Watts (Power)	1490	1580	1680	1780	1880	1990	2090	2190
	Amps	7.48	7.95	8.42	8.90	9.39	9.87	10.3	10.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.360000E+03	1.250000E+03	5.990000E+00	
C2	2.430000E+02	-1.190000E+01	-6.480000E-02	
C3	-3.890000E+01	-5.970000E+00	1.230000E-02	

C4	1.700000E+00	4.020000E-01	-2.780000E-04	
C5	-2.410000E+00	6.700000E-01	3.930000E-03	
C6	-5.320000E-01	3.500000E-01	5.350000E-04	
C7	0.000000E+00	0.000000E+00	0.000000E+00	
C8	-1.000000E-02	-7.940000E-03	5.120000E-06	
C9	7.460000E-03	5.540000E-04	-3.180000E-06	
C10	3.550000E-03	-2.300000E-03	-3.270000E-06	

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

Te = Evaporator Temperature

Tc = Condensing Temperature