



Model:AJEK513ZFZ (CAJ9513Z)

Product Description

Type: Reciprocating
Application: MBP/HBP - Medium/High Back Pressure
Refrigerant: R404A
Voltage/Frequency: 220-240V ~ 50Hz

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 ASERCOM	230V ~ 50HZ	5307	1337	1555	982	5.4	1.36	1.58	-10°C (14°F)	45°C (113°F)	32°C (90°F)	0°C (32°F)	45°C (113°F)

General

Evaporating Temp. Range: -23.3°C to 12.8°C (-10°F to 55°F)
Motor Torque: High Start Torque (HST)
Compressor Cooling: Fan

Mechanical

Weight: 23
Weight Unit of Measure: KG
Displacement (cc): 24.2
Oil Type: Polyolester
Viscosity (cSt): 32
Oil Charge (cc): 887

Electrical

Voltage Range (50 Hz): 198-253
Voltage Range (60 Hz): N/A
Locked Rotor Amps (LRA): 33.5
Rated Load Amps (RLA 50 Hz): 6.5
Rated Load Amps (RLA 60 Hz): 6.5
Max. Continuous Current (MCC in Amps): 10.2
Motor Resistance (Ohm) - Main: N/A
Motor Resistance (Ohm) - Start: N/A
Motor Type: CSR
Overload Type: EXTERNAL
Relay Type: Potential Relay

Agency Approval

CCC Listed, CE Listed, GOST RUSSIA Listed, NF Listed, VDE Listed



Tecumseh

Performance Data Sheet

Model: AJEK513ZFZ (CAJ9513Z)

General Information

Model	AJEK513ZFZ	Refrigerant	R404A
Test Condition	EN12900 ASERCOM	Test Voltage	230V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)					
		30	40	50	60	70
-23.3	Watts (Capacity)	1270	952	637	343	90.4
	Watts (Power)	686	678	635	563	472
	Amps	3.72	3.61	3.48	3.32	3.14
-20	Watts (Capacity)	1520	1190	847	524	240
	Watts (Power)	743	757	736	689	623
	Amps	3.91	3.89	3.83	3.76	3.66
-15	Watts (Capacity)	1960	1570	1180	801	454
	Watts (Power)	819	863	875	863	835
	Amps	4.20	4.29	4.36	4.41	4.43
-10	Watts (Capacity)	2460	2010	1540	1090	663
	Watts (Power)	883	957	1000	1020	1030
	Amps	4.48	4.69	4.89	5.06	5.20
-6.7	Watts (Capacity)	2820	2320	1800	1290	802
	Watts (Power)	922	1010	1080	1120	1150
	Amps	4.65	4.95	5.23	5.48	5.70
-5	Watts (Capacity)	3020	2490	1940	1400	875
	Watts (Power)	942	1040	1110	1170	1210
	Amps	4.74	5.08	5.40	5.69	5.96
0	Watts (Capacity)	3670	3040	2390	1730	1100
	Watts (Power)	997	1120	1220	1300	1380
	Amps	5.00	5.46	5.90	6.32	6.71

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.228849E+03	3.818733E+02	3.470861E+00	
C2	1.979268E+02	-7.631877E-01	-2.334504E-02	
C3	-3.911761E+01	2.812180E+01	5.450021E-02	

C4	2.839517E+00	1.312769E-01	-1.928390E-04	
C5	-1.829338E+00	3.258101E-01	2.458287E-03	
C6	-5.268222E-01	-2.955759E-01	-1.177976E-04	
C7	1.233781E-02	5.122935E-03	0.000000E+00	
C8	-3.431825E-02	-3.747584E-03	0.000000E+00	
C9	-4.712200E-03	2.227700E-03	0.000000E+00	
C10	3.469246E-03	1.381945E-03	0.000000E+00	

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

Te = Evaporator Temperature

Tc = Condensing Temperature