Technical Data Sheet

9/6/2016

Model: AJE4511YGZ (CAJ4511Y)

Product Description

Type: Reciprocating
Application: HBP - High Back Pressure
Refrigerant: R-134a
Voltage/Frequency: 208-220V ~ 50Hz
Version: N/A

Product Specifications

Performance

		Refrigeration Capacity			Input Power	Efficiency			EVAP TEMP	COND	AMBIENT	RETURN	LIQUID
Condition	Test Voltage	Btu/h	kcal/h	W	W	Btu/Wh	kcal/Wh	W/W		TEMP	TEMP	GAS	TEMP
EN12900	220V ~ 50HZ	9942	2505	2913	1042	9.54	2.4	2.8	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): 32.7
Oil Type: Polyolester
Viscosity (cSt): 32
Oil Charge (cc): 782

Electrical

Voltage Range (50 Hz): 187-242
Voltage Range (60 Hz): N/A
Locked Rotor Amps (LRA): 31
Rated Load Amps (RLA 50 Hz): 5.5
Rated Load Amps (RLA 60 Hz): 5.5
Max. Continuous Current (MCC in Amps): 9.4
Motor Resistance (Ohm) - Main: 2.1
Motor Resistance (Ohm) - Start: 9.7
Motor Type: CSR
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed, GOST RUSSIA Listed

Performance Data Sheet

AJE4511YGZ

General Information

Model	AJE4511YGZ	**Refrigerant**	R-134a
Test Condition	EN12900	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-6.7	Watts (Capacity)	2260	1960	1630	1310
	Watts (Power)	737	804	860	900
	Amps	3.86	4.12	4.34	4.52
-5	Watts (Capacity)	2430	2110	1770	1430
	Watts (Power)	759	831	894	942
	Amps	3.95	4.25	4.50	4.72
0	Watts (Capacity)	3000	2630	2220	1810
	Watts (Power)	825	910	992	1070
	Amps	4.23	4.62	4.98	5.29
5	Watts (Capacity)	3660	3210	2740	2250
	Watts (Power)	896	992	1090	1190
	Amps	4.51	5.00	5.45	5.86
7.2	Watts (Capacity)	3980	3500	2990	2460
	Watts (Power)	929	1030	1140	1240
	Amps	4.63	5.16	5.65	6.11
10	Watts (Capacity)	4410	3890	3330	2750
	Watts (Power)	974	1080	1190	1310
	Amps	4.78	5.37	5.92	6.43
15	Watts (Capacity)	5270	4660	4000	3330
	Watts (Power)	1060	1170	1300	1440
	Amps	5.05	5.73	6.38	6.99

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.786849E+03	6.176515E+02	2.834121E+00	
C2	1.538651E+02	1.326561E+01	-3.196492E-03	
C3	-1.388283E+01	4.363813E+00	5.220892E-02	

C4	2.396540E+00	2.310686E-01	-8.676708E-05	
C5	-9.247929E-01	-1.620669E-01	1.957720E-03	
C6	-5.015886E-01	1.173368E-01	-1.868676E-04	
C7	1.310053E-02	3.179043E-03	0.000000E+00	
C8	-2.181887E-02	-4.280394E-03	0.000000E+00	
C9	-4.579349E-03	5.790741E-03	0.000000E+00	
C10	3.082218E-03	-1.096337E-03	0.000000E+00	

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