Technical Data Sheet

9/19/2017

Model: AJE4492YGZ (CAJ4492Y)

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	7611	1918	2230	887	8.58	2.16	2.51	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: 21
Weight Unit of Measure: KG
Displacement (cc): 25.95
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): 29
Rated Load Amps (RLA 50 Hz): 6.1
Rated Load Amps (RLA 60 Hz): 6.1
Max. Continuous Current (MCC in Amps): 9.2
Motor Resistance (Ohm) - Main: 2.09
Motor Resistance (Ohm) - Start: 12
Motor Type: CSIR
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed

Performance Data Sheet

AJE4492YGZ

General Information

Model	AJE4492YGZ	**Refrigerant**	R-134a
Test Condition	EN12900	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	**35**	**40**	**45**	**50**	**55**	**60**	**65**
-6.7	Watts (Capacity)	1710	1590	1470	1330	1200	1060	913	770
	Watts (Power)	643	674	700	723	740	753	760	762
	Amps	5.24	5.30	5.36	5.43	5.50	5.57	5.66	5.75
-5	Watts (Capacity)	1850	1730	1590	1450	1310	1160	1010	861
	Watts (Power)	658	692	722	748	770	788	800	807
	Amps	5.29	5.35	5.43	5.51	5.60	5.69	5.78	5.89
0	Watts (Capacity)	2300	2160	2000	1840	1670	1500	1330	1150
	Watts (Power)	699	742	782	819	854	885	913	936
	Amps	5.42	5.53	5.64	5.76	5.89	6.02	6.16	6.31
5	Watts (Capacity)	2830	2650	2470	2280	2090	1890	1690	1490
	Watts (Power)	738	789	839	887	934	978	1020	1060
	Amps	5.56	5.71	5.87	6.03	6.20	6.37	6.55	6.74
7.2	Watts (Capacity)	3080	2890	2700	2500	2290	2080	1860	1650
	Watts (Power)	754	809	863	916	967	1020	1070	1110
	Amps	5.63	5.80	5.97	6.15	6.34	6.53	6.73	6.93
10	Watts (Capacity)	3420	3220	3010	2790	2560	2330	2100	1870
	Watts (Power)	775	834	893	951	1010	1070	1120	1180
	Amps	5.72	5.91	6.10	6.31	6.52	6.73	6.95	7.18
15	Watts (Capacity)	4110	3870	3620	3370	3110	2840	2580	2310
	Watts (Power)	812	878	945	1010	1080	1150	1220	1290
	Amps	5.88	6.11	6.35	6.60	6.85	7.10	7.36	7.63

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.003382E+03	4.128603E+02	4.878657E+00	
C2	1.241004E+02	3.000985E+00	-2.171076E-02	
C3	-1.613594E+01	9.960745E+00	1.455105E-02	

C4	1.885890E+00	4.675286E-03	2.270509E-04	
C5	-8.586971E-01	1.603983E-02	1.640438E-03	
C6	-2.799344E-01	-7.876815E-04	1.139482E-04	
C7	9.233597E-03	1.354570E-03	0.000000E+00	
C8	-1.628847E-02	-1.867973E-03	0.000000E+00	
C9	-1.393275E-03	5.002298E-03	0.000000E+00	
C10	1.388808E-03	-4.390953E-04	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