Technical Data Sheet

9/12/2018

Model: AJ5515C-FZ3C (AJ5515C)

Product Description

Type: Reciprocating
Application: HBP/AC - Air Conditioning
Refrigerant: R-407C
Voltage/Frequency: 220-240V ~ 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	10726	2702	3142	1382	7.76	1.95	2.27	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: 19
Weight Unit of Measure: KG
Displacement (cc): 25.95
Oil Type: Polyolester
Viscosity (cSt): 32
Oil Charge (cc): 475

Electrical

Voltage Range (50 Hz): 198-253
Voltage Range (60 Hz): N/A
Locked Rotor Amps (LRA): 36
Rated Load Amps (RLA 50 Hz): 7.3
Rated Load Amps (RLA 60 Hz): 0
Max. Continuous Current (MCC in Amps): 12
Motor Resistance (Ohm) - Main: 1.73
Motor Resistance (Ohm) - Start: 8.1
Motor Type: PSC
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed

Performance Data Sheet

AJ5515C-FZ3C

General Information

Model	AJ5515C-FZ3C	**Refrigerant**	R-407C
Test Condition	Tecumseh Europe	**Performance Test Voltage**	220V ~ 50HZ
Return Gas	10K (18°F) SUPERHEAT	**Motor Type**	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	658	606						
	Watts (Power)	518	522						
	Amps	5.82	5.53						
-23.3	Watts (Capacity)	772	705	638					
	Watts (Power)	590	591	594					
	Amps	5.81	5.56	5.30					
-20	Watts (Capacity)	1030	934	836	739	642			
	Watts (Power)	717	715	714	715	717			
	Amps	5.79	5.61	5.43	5.25	5.07			
-15	Watts (Capacity)	1510	1370	1230	1080	937	792		
	Watts (Power)	881	879	877	876	875	876		
	Amps	5.78	5.70	5.62	5.54	5.46	5.38		
-10	Watts (Capacity)	2110	1910	1720	1530	1340	1140	949	
	Watts (Power)	1010	1010	1020	1020	1020	1020	1030	
	Amps	5.79	5.80	5.82	5.83	5.84	5.86	5.88	
-6.7	Watts (Capacity)	2560	2330	2110	1880	1660	1430	1200	977
	Watts (Power)	1080	1090	1090	1100	1110	1120	1130	1130
	Amps	5.81	5.88	5.95	6.02	6.10	6.17	6.25	6.32
-5	Watts (Capacity)	2810	2570	2330	2080	1840	1600	1350	1110
	Watts (Power)	1100	1120	1130	1140	1150	1170	1180	1190
	Amps	5.82	5.92	6.02	6.12	6.22	6.33	6.43	6.54
0	Watts (Capacity)	3620	3330	3040	2740	2450	2150	1860	1560
	Watts (Power)	1160	1190	1220	1250	1270	1300	1320	1350
	Amps	5.87	6.05	6.23	6.41	6.60	6.78	6.96	7.15

5	Watts (Capacity)	4550	4200	3850	3500	3160	2810	2460	2110
	Watts (Power)	1190	1240	1290	1340	1380	1430	1470	1510
	Amps	5.94	6.20	6.45	6.71	6.96	7.22	7.48	7.73
7.2	Watts (Capacity)	4990	4620	4250	3870	3500	3130	2760	2390
	Watts (Power)	1190	1250	1310	1370	1430	1480	1530	1590
	Amps	5.98	6.26	6.55	6.84	7.12	7.41	7.70	7.98
10	Watts (Capacity)	5580	5180	4780	4370	3970	3570	3170	2760
	Watts (Power)	1180	1260	1330	1410	1480	1550	1610	1680
	Amps	6.03	6.35	6.68	7.00	7.33	7.65	7.97	8.30
15	Watts (Capacity)	6720	6270	5810	5350	4890	4430	3970	3510
	Watts (Power)	1130	1240	1350	1460	1560	1660	1760	1850
	Amps	6.14	6.53	6.91	7.30	7.68	8.06	8.45	8.83

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.387584E+03	9.709142E+02	4.806641E+00	
C2	2.361133E+02	-1.689171E+01	-8.383279E-02	
C3	-5.867102E+01	6.987501E+00	3.504927E-02	
C4	2.379205E+00	-1.366811E+00	1.177720E-03	
C5	-2.074906E+00	9.135971E-01	3.241572E-03	
C6	-3.283427E-03	-1.824561E-02	1.496770E-05	
C7	-1.000000E-16	-1.000000E-16	0.000000E+00	
C8	-5.974887E-03	2.227148E-02	-2.588560E-05	
C9	-2.240000E-04	-2.390000E-03	-1.680000E-06	
C10	0.000000E+00	-2.000000E-16	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