



## Model: AJE2425AXA (CAJ2T12)

### Product Description

**Type:** Reciprocating  
**Application:** LBP - Low Back Pressure  
**Refrigerant:** R12  
**Voltage/Frequency:** 115V ~ 60Hz 100V ~ 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	100V ~ 50HZ	925	233	271	398	2.32	.59	.68	-35°C (-31°F)	40°C (104°F)	32°C (90°F)	-25°C (-13°F)	40°C (104°F)
EN12900 ASERCOM	115V ~ 60HZ	1195	301	350	438	2.73	.69	.8	-35°C (-31°F)	40°C (104°F)	32°C (90°F)	-25°C (-13°F)	40°C (104°F)

#### General

**Evaporating Temp. Range:** -40°C to -12.2°C (-40°F to 10°F)  
**Motor Torque:** High Start Torque (HST)  
**Compressor Cooling:** Fan

#### Mechanical

**Weight:** 21.36  
**Weight Unit of Measure:** N/A  
**Displacement (cc):** 26.15  
**Oil Type:** Mineral  
**Viscosity (cSt):** 68  
**Oil Charge (cc):** 887  
**Sound Power dB(A):** N/A

#### Electrical

**Voltage Range (50 Hz):** 90-110  
**Voltage Range (60 Hz):** 103-127  
**Locked Rotor Amps (LRA):** 52  
**Rated Load Amps (RLA 50 Hz):** 7.8  
**Rated Load Amps (RLA 60 Hz):** 7.8  
**Max. Continuous Current (MCC in Amps):** N/A  
**Motor Resitance (Ohm) - Main:** N/A  
**Motor Resitance (Ohm) - Start:** N/A  
**Motor Type:** CSIR  
**Overload Type:** EXTERNAL  
**Relay Type:** Potential Relay

#### Agency Approval

**CE Listed, GOST RUSSIA Listed**



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## Performance Data Sheet

### AJE2425AXA

### General Information

<b>Model</b>	AJE2425AXA	<b>Refrigerant</b>	R12
<b>Test Condition</b>	EN12900 ASERCOM	<b>Performance Test Voltage</b>	100V ~ 50HZ
<b>Return Gas</b>	32.2°C (90°F) RETURN GAS	<b>Motor Type</b>	CSIR

### Performance Information

Evap Temp (°C)	Condensing Temperature (°C)					
		30	40	50	60	70
-40	Watts (Capacity)	261	236	186	116	29.8
	Watts (Power)	332	314	286	255	227
	Amps	6.70	6.71	6.54	6.36	6.33
-35	Watts (Capacity)	377	342	286	213	128
	Watts (Power)	407	398	379	358	341
	Amps	7.05	7.13	7.04	6.93	6.98
-30	Watts (Capacity)	532	485	419	341	255
	Watts (Power)	477	478	469	458	452
	Amps	7.43	7.57	7.55	7.52	7.65
-25	Watts (Capacity)	727	664	587	501	411
	Watts (Power)	542	553	555	556	562
	Amps	7.83	8.04	8.08	8.12	8.32
-23.3	Watts (Capacity)	802	733	652	563	471
	Watts (Power)	563	577	583	588	598
	Amps	7.97	8.20	8.27	8.33	8.55
-20	Watts (Capacity)	960	880	789	693	597
	Watts (Power)	602	624	637	650	669
	Amps	8.26	8.53	8.64	8.74	9.01
-15	Watts (Capacity)	1230	1130	1030	917	811
	Watts (Power)	657	690	716	742	774
	Amps	8.71	9.04	9.21	9.38	9.71
-10	Watts (Capacity)	1550	1420	1300	1170	1050
	Watts (Power)	706	752	791	831	878
	Amps	9.19	9.57	9.80	10.0	10.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.804138E+03	4.678286E+02	6.243509E+00	
C2	1.043658E+02	-6.995237E-01	8.398458E-02	
C3	-1.575210E+01	1.464872E+01	2.283579E-01	
C4	9.409978E-01	-1.512531E-01	7.269280E-04	
C5	-8.534721E-01	2.479023E-01	7.649350E-04	
C6	-7.114887E-02	-1.657900E-01	-3.989672E-03	
C7	-1.000000E-16	0.000000E+00	0.000000E+00	
C8	-5.145743E-03	1.590528E-03	-6.965360E-06	
C9	3.790000E-03	6.190000E-04	2.140000E-06	
C10	8.030000E-04	1.160000E-03	2.680000E-05	

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

Te = Evaporator Temperature

Tc = Condensing Temperature



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<b>Return Gas</b>	32.2°C (90°F) RETURN GAS	<b>Motor Type</b>	CSIR

### Performance Information

Evap Temp (°C)	Condensing Temperature (°C)					
		30	40	50	60	70
-40	Watts (Capacity)	331	296	230	141	31.0
	Watts (Power)	357	339	310	276	247
	Amps	6.57	6.57	6.41	6.24	6.21
-35	Watts (Capacity)	490	442	369	276	167
	Watts (Power)	447	438	417	394	376
	Amps	6.82	6.90	6.80	6.70	6.75
-30	Watts (Capacity)	685	622	538	439	329
	Watts (Power)	533	535	525	513	507
	Amps	7.15	7.29	7.27	7.24	7.36
-25	Watts (Capacity)	914	833	737	630	516
	Watts (Power)	617	630	632	633	641
	Amps	7.57	7.77	7.81	7.85	8.04
-23.3	Watts (Capacity)	999	913	812	701	586
	Watts (Power)	644	662	668	674	687
	Amps	7.73	7.95	8.01	8.07	8.28
-20	Watts (Capacity)	1180	1080	966	849	730
	Watts (Power)	697	723	739	754	777
	Amps	8.06	8.32	8.43	8.53	8.79
-15	Watts (Capacity)	1480	1350	1230	1100	969
	Watts (Power)	774	814	845	875	915
	Amps	8.63	8.96	9.12	9.29	9.61
-10	Watts (Capacity)	1810	1660	1520	1370	1230
	Watts (Power)	848	904	951	998	1060
	Amps	9.29	9.67	9.89	10.1	10.5

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.164944E+03	5.845350E+02	6.920199E+00	
C2	1.069186E+02	2.694511E+00	1.431397E-01	
C3	-1.833888E+01	1.843635E+01	2.233208E-01	
C4	8.239461E-01	-1.455476E-01	1.741115E-03	
C5	-9.059592E-01	3.288714E-01	8.584690E-04	
C6	-6.676820E-02	-2.122332E-01	-3.872944E-03	
C7	-1.000000E-16	0.000000E+00	0.000000E+00	
C8	-4.379371E-03	2.734213E-03	-4.620320E-06	
C9	4.590000E-03	7.160000E-04	2.140000E-06	
C10	8.420000E-04	1.480000E-03	2.600000E-05	

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

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<b>Return Gas</b>	32.2°C (90°F) RETURN GAS	<b>Motor Type</b>	CSIR

### Performance Information

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C6	-6.676820E-02	-2.122332E-01	-3.872944E-03	
C7	-1.000000E-16	0.000000E+00	0.000000E+00	
C8	-4.379371E-03	2.734213E-03	-4.620320E-06	
C9	4.590000E-03	7.160000E-04	2.140000E-06	
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