



# Tecumseh

## Performance Data Sheet

### AJA7441AXD

### General Information

<b>Model</b>	AJA7441AXD	<b>Refrigerant</b>	R-12
<b>Test Condition</b>	ASHRAE	<b>Performance Test Voltage</b>	115V ~ 60HZ
<b>Return Gas</b>	35°C (95°F) RETURN GAS	<b>Motor Type</b>	CSIR

### Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-10	Btu/h	2980	2790	2600	2400	2200	2000	1800
	Watts	782	650	567	521	497	481	461
	Amps	4.03	3.79	3.64	3.55	3.50	3.45	3.40
	Lb/h	43.7	42.2	40.6	39.0	37.3	35.4	33.2
-5	Btu/h	3360	3180	2980	2780	2580	2370	2160
	Watts	810	687	613	575	557	548	532
	Amps	4.08	3.87	3.75	3.68	3.65	3.63	3.59
	Lb/h	49.5	48.2	46.8	45.4	43.8	42.0	40.0
0	Btu/h	3750	3560	3360	3160	2950	2730	2510
	Watts	827	715	650	620	609	606	595
	Amps	4.13	3.94	3.84	3.80	3.80	3.80	3.79
	Lb/h	55.1	54.0	52.9	51.6	50.1	48.4	46.4
5	Btu/h	4140	3950	3750	3540	3320	3090	2850
	Watts	836	735	681	659	657	659	654
	Amps	4.17	4.01	3.94	3.93	3.95	3.97	3.98
	Lb/h	60.8	59.9	59.0	57.8	56.4	54.8	52.9
10	Btu/h	4560	4360	4150	3930	3700	3460	3200
	Watts	841	752	708	695	701	711	712
	Amps	4.21	4.08	4.04	4.05	4.10	4.15	4.18
	Lb/h	66.9	66.2	65.4	64.3	63.1	61.5	59.6
15	Btu/h	5020	4810	4590	4360	4120	3860	3580
	Watts	845	767	734	732	747	764	772
	Amps	4.24	4.15	4.13	4.17	4.25	4.32	4.38
	Lb/h	73.7	73.1	72.4	71.4	70.2	68.7	66.8
20	Btu/h	5530	5320	5080	4840	4570	4290	4000
	Watts	850	785	764	772	796	822	836
	Amps	4.28	4.22	4.23	4.30	4.40	4.51	4.59
	Lb/h	81.3	80.8	80.2	79.3	78.2	76.7	74.8
25	Btu/h	6120	5880	5640	5370	5090	4790	4470
	Watts	859	808	798	817	851	886	908
	Amps	4.32	4.29	4.33	4.43	4.56	4.69	4.81
	Lb/h	90.0	89.7	89.1	88.3	87.2	85.7	83.8

<b>30</b>	Btu/h	6780	6530	6270	5980	5670	5350	5000
	Watts	876	838	842	872	916	961	991
	Amps	4.36	4.36	4.44	4.57	4.73	4.89	5.03
	Lb/h	100	99.8	99.4	98.6	97.4	95.9	94.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.994978E+03	5.094130E+03	1.161083E+01	6.526816E+01
C2	6.473998E+01	-2.261405E+01	-4.395815E-02	5.979522E-01
C3	-1.277311E+01	-1.072820E+02	-1.904524E-01	-1.959468E-01
C4	6.534098E-01	-2.363618E-01	-2.357955E-04	5.593895E-03
C5	3.270822E-01	4.032509E-01	7.422915E-04	8.907166E-03
C6	-3.555513E-02	8.575810E-01	1.544582E-03	1.415067E-03
C7	1.875001E-02	3.958335E-03	2.343750E-06	3.338050E-04
C8	-5.227280E-03	1.090894E-03	1.761364E-06	-4.047903E-05
C9	-2.142873E-03	-1.107184E-03	-1.071439E-06	-2.852384E-05
C10	-4.232583E-07	-2.291643E-03	-4.166504E-06	-6.968843E-06

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

Te = Evaporator Temperature

Tc = Condensing Temperature