

**Model: AWA2440ZXD**
**Product Description**

**Type:** Reciprocating  
**Application:** LBP - Low Back Pressure  
**Refrigerant:** R-404A  
**Voltage/Frequency:** 208-230V ~ 60Hz 200V ~ 50Hz  
**Version:** N/A


**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					
ARI	230V ~ 60HZ	3775	951	1106	1125	3.36	.85	.98	-23°C (-10°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°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:** 68  
**Weight Unit of Measure:** LB  
**Displacement (cc):** 37.545  
**Oil Type:** Polyolester  
**Viscosity (cSt):** 32  
**Oil Charge (cc):** 1141

**Electrical**

**Voltage Range (50 Hz):** 180-220  
**Voltage Range (60 Hz):** 187-254  
**Locked Rotor Amps (LRA):** 73  
**Rated Load Amps (RLA 50 Hz):** 0  
**Rated Load Amps (RLA 60 Hz):** 5.13  
**Max. Continuous Current (MCC in Amps):** 13.5  
**Motor Resistance (Ohm) - Main:** .88  
**Motor Resistance (Ohm) - Start:** 2.1  
**Motor Type:** CSR  
**Overload Type:** N/A  
**Relay Type:** N/A

**Agency Approval**

CE Listed, cURus Recognized



# Tecumseh

## Performance Data Sheet

### AWA2440ZXD

### General Information

<b>Model</b>	AWA2440ZXD	<b>Refrigerant</b>	R-404A
<b>Test Condition</b>	ARI	<b>Performance Test Voltage</b>	230V ~ 60HZ
<b>Return Gas</b>	4.4°C (40°F) RETURN GAS	<b>Motor Type</b>	CSR

### Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-40	Btu/h	2000	1670	1340	1010	682	354	27.3
	Watts	917	810	703	596	489	382	274
	Amps	4.30	4.12	3.94	3.75	3.57	3.38	3.20
	Lb/h	34.5	30.6	26.7	22.8	18.7	14.6	10.3
-35	Btu/h	2730	2280	1830	1380	928	481	34.9
	Watts	955	861	766	672	577	482	387
	Amps	4.47	4.30	4.13	3.96	3.79	3.63	3.45
	Lb/h	48.2	42.3	36.3	30.3	24.2	18.1	11.8
-30	Btu/h	3570	3000	2430	1860	1290	723	155
	Watts	1000	922	839	757	674	591	508
	Amps	4.64	4.49	4.34	4.19	4.03	3.88	3.72
	Lb/h	63.9	56.0	48.0	40.0	31.9	23.8	15.5
-25	Btu/h	4540	3840	3150	2460	1760	1070	381
	Watts	1060	992	921	850	779	707	636
	Amps	4.83	4.69	4.56	4.42	4.28	4.14	4.00
	Lb/h	81.7	71.9	61.9	52.0	41.9	31.8	21.6
-20	Btu/h	5610	4790	3980	3160	2340	1520	707
	Watts	1130	1070	1010	950	890	830	769
	Amps	5.03	4.91	4.79	4.67	4.55	4.43	4.30
	Lb/h	102	90.0	78.2	66.2	54.2	42.2	30.0
-15	Btu/h	6790	5850	4900	3960	3010	2070	1130
	Watts	1200	1150	1100	1060	1010	956	906
	Amps	5.25	5.14	5.04	4.93	4.83	4.72	4.62
	Lb/h	124	111	96.8	83.0	69.1	55.1	41.0
-10	Btu/h	8070	6990	5920	4850	3770	2700	1630
	Watts	1280	1240	1200	1160	1130	1090	1050
	Amps	5.48	5.39	5.30	5.22	5.13	5.04	4.95
	Lb/h	149	134	118	102	86.5	70.6	54.7
-5	Btu/h	9440	8230	7030	5820	4620	3420	2220
	Watts	1360	1330	1300	1270	1250	1220	1190
	Amps	5.73	5.66	5.59	5.52	5.45	5.38	5.31
	Lb/h	177	159	142	124	107	88.9	71.1

0	Btu/h	10900	9550	8220	6880	5550	4210	2880
	Watts	1440	1430	1410	1390	1370	1350	1330
	Amps	6.00	5.95	5.90	5.84	5.79	5.74	5.69
	Lb/h	207	188	168	149	130	110	90.4
5	Btu/h	12400	10900	9480	8010	6540	5070	3600
	Watts	1530	1520	1510	1500	1490	1470	1460
	Amps	6.29	6.26	6.22	6.19	6.16	6.13	6.09
	Lb/h	240	219	198	177	155	134	113
10	Btu/h	14000	12400	10800	9200	7600	5990	4390
	Watts	1610	1610	1610	1600	1600	1600	1600
	Amps	6.60	6.59	6.58	6.56	6.55	6.54	6.52
	Lb/h	276	253	230	207	184	161	138

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.159167E+04	1.598084E+03	6.392076E+00	3.607427E+02
C2	5.099740E+02	1.707625E+00	2.686976E-02	9.245428E+00
C3	-1.340263E+02	-2.007301E+00	-4.913450E-03	-1.922436E+00
C4	1.851368E+00	7.493703E-02	3.521961E-04	5.155918E-02
C5	-2.636001E+00	1.889675E-01	3.610677E-04	-3.664077E-02
C6	3.421446E-03	1.928208E-03	2.474584E-07	1.203457E-04
C7	-8.612128E-03	-2.033211E-03	2.341274E-06	1.479875E-04
C8	-3.612226E-03	-8.581411E-04	1.004309E-06	5.846636E-05
C9	-1.082232E-04	-2.183152E-05	3.908679E-08	1.963420E-06
C10	-7.079627E-06	-1.071159E-05	-7.724074E-09	-1.304855E-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