

**AWA2460ZXD**
**General**

Model	AWA2460ZXD	Unit of Measure	Fahrenheit
Condition	ARI	Voltage/Frequency	230V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	MotorType	CSR

**Performance Information**

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-40	Btu/h	2910	2390	1700	998	419	112
	Watts	1060	948	832	706	559	380
	Amps	6.93	6.56	6.25	6.01	5.81	5.64
	Lb/h	51.6	47.4	37.3	24.4	11.5	1.45
-35	Btu/h	3950	3280	2440	1580	840	368
	Watts	1210	1090	975	850	704	526
	Amps	7.15	6.79	6.49	6.24	6.02	5.81
	Lb/h	71.7	65.2	52.9	37.8	22.7	10.5
-30	Btu/h	5110	4290	3300	2280	1380	736
	Watts	1360	1250	1140	1020	874	700
	Amps	7.39	7.06	6.78	6.53	6.30	6.06
	Lb/h	93.5	85.2	71.1	54.1	37.1	23.1
-25	Btu/h	6380	5420	4270	3100	2030	1220
	Watts	1510	1410	1310	1200	1060	899
	Amps	7.67	7.38	7.12	6.88	6.64	6.39
	Lb/h	117	107	91.9	73.4	55.0	39.5
-20	Btu/h	7790	6670	5370	4040	2810	1830
	Watts	1670	1580	1490	1390	1270	1120
	Amps	7.97	7.72	7.50	7.28	7.05	6.80
	Lb/h	143	132	116	96.0	76.5	59.9
-15	Btu/h	9320	8050	6600	5100	3710	2560
	Watts	1820	1750	1680	1590	1490	1350
	Amps	8.27	8.09	7.91	7.73	7.51	7.26
	Lb/h	171	160	142	122	102	84.4
-10	Btu/h	11000	9570	7960	6300	4740	3420
	Watts	1970	1920	1860	1800	1710	1590
	Amps	8.58	8.46	8.34	8.20	8.02	7.78
	Lb/h	202	190	172	152	131	113
-5	Btu/h	12800	11200	9450	7630	5910	4420
	Watts	2100	2070	2050	2000	1940	1840
	Amps	8.88	8.84	8.79	8.70	8.56	8.34
	Lb/h	236	224	206	185	164	147
0	Btu/h	14700	13000	11100	9100	7210	5550
	Watts	2220	2220	2220	2200	2170	2090
	Amps	9.16	9.22	9.24	9.21	9.12	8.95

	Lb/h	272	260	243	223	202	185
5	Btu/h	16800	14900	12900	10700	8660	6830
	Watts	2320	2350	2370	2390	2380	2340
	Amps	9.42	9.58	9.69	9.74	9.70	9.57
	Lb/h	312	301	284	264	245	228
10	Btu/h	19100	17000	14800	12500	10300	8250
	Watts	2390	2450	2510	2570	2590	2590
	Amps	9.65	9.92	10.1	10.3	10.3	10.2
	Lb/h	355	345	329	310	292	276

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-3.070410E+03	4.007823E+03	9.879530E+00	-3.593289E+02
C2	6.362991E+02	-3.350222E+01	-2.398399E-01	6.651669E+00
C3	7.500190E+02	-5.424509E+01	-4.503590E-02	1.873197E+01
C4	3.023919E+00	-1.084511E+00	-2.347869E-03	-3.670472E-03
C5	-2.172691E+00	6.341018E-01	4.496653E-03	1.020311E-02
C6	-8.329609E+00	5.478368E-01	6.594838E-04	-1.736225E-01
C7	5.394976E-03	-5.886858E-03	-1.132925E-05	2.565917E-04
C8	-1.356962E-03	7.376435E-03	2.078394E-05	7.314909E-04
C9	-4.660639E-03	-2.581862E-04	-1.359252E-05	2.351095E-06
C10	2.437408E-02	-1.842879E-03	-2.753170E-06	4.827960E-04

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

Te = Evaporator Temperature

Tc = Condensing Temperature



# Performance Data Sheet

## AWA2460ZXD

### General

Model	AWA2460ZXD	Unit of Measure	Fahrenheit
Condition	ARI (R-448A)	Voltage/Frequency	230V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	MotorType	CSR

### Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	2300				
	Watts	903				
	Amps	5.82				
	Lb/h	31.2				
-35	Btu/h	3150	2350			
	Watts	1040	930			
	Amps	6.03	5.76			
	Lb/h	42.9	34.9			
-30	Btu/h	4120	3170	2190		
	Watts	1190	1080	969		
	Amps	6.27	6.02	5.80		
	Lb/h	56.1	46.8	35.6		
-25	Btu/h	5210	4110	2980		
	Watts	1340	1250	1140		
	Amps	6.55	6.32	6.11		
	Lb/h	70.8	60.5	48.4		
-20	Btu/h	6410	5160	3880	2700	
	Watts	1510	1420	1330	1210	
	Amps	6.86	6.66	6.47	6.26	
	Lb/h	87.1	76.1	63.2	50.4	
-15	Btu/h	7740	6340	4900	3560	
	Watts	1670	1600	1520	1420	
	Amps	7.18	7.02	6.86	6.67	
	Lb/h	105	93.7	80.4	67.0	
-10	Btu/h	9200	7650	6050	4560	3290
	Watts	1830	1780	1720	1630	1520
	Amps	7.52	7.41	7.28	7.12	6.91
	Lb/h	125	113	99.9	86.3	74.6
-5	Btu/h	10800	9080	7330	5680	4250
	Watts	1980	1950	1910	1850	1760
	Amps	7.85	7.80	7.73	7.60	7.41
	Lb/h	147	136	122	108	96.6
0	Btu/h	12500	10700	8750	6930	5340
	Watts	2120	2110	2100	2060	2000
	Amps	8.19	8.21	8.18	8.10	7.94

	Lb/h	172	160	147	133	122
5	Btu/h	14400	12400	10300	8320	6560
	Watts	2240	2260	2280	2270	2230
	Amps	8.51	8.60	8.65	8.62	8.50
	Lb/h	198	187	174	161	150
10	Btu/h	16400	14200	12000	9850	7930
	Watts	2340	2400	2450	2470	2460
	Amps	8.81	8.99	9.11	9.14	9.08
	Lb/h	227	217	204	192	182

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-2.950687E+03	3.820348E+03	8.773178E+00	-2.366222E+02
C2	6.114883E+02	-3.193520E+01	-2.129813E-01	4.380195E+00
C3	7.207734E+02	-5.170761E+01	-3.999282E-02	1.233521E+01
C4	2.906017E+00	-1.033782E+00	-2.084955E-03	-2.416973E-03
C5	-2.087979E+00	6.044424E-01	3.993093E-03	6.718879E-03
C6	-8.004812E+00	5.222102E-01	5.856338E-04	-1.143324E-01
C7	5.184584E-03	-5.611391E-03	-1.006063E-05	1.689726E-04
C8	-1.304121E-03	7.031396E-03	1.845655E-05	4.816939E-04
C9	-4.478874E-03	-2.461156E-04	-1.207035E-05	1.548184E-06
C10	2.342366E-02	-1.756673E-03	-2.444863E-06	3.179266E-04

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

Te = Evaporator Temperature

Tc = Condensing Temperature



# Performance Data Sheet

## AWA2460ZXD

### General

Model	AWA2460ZXD	Unit of Measure	Fahrenheit
Condition	ARI (R-449A)	Voltage/Frequency	230V~60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	MotorType	CSR

### Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	2300				
	Watts	903				
	Amps	5.82				
	Lb/h	31.2				
-35	Btu/h	3150	2350			
	Watts	1040	930			
	Amps	6.03	5.76			
	Lb/h	42.9	34.9			
-30	Btu/h	4120	3170	2190		
	Watts	1190	1080	969		
	Amps	6.27	6.02	5.80		
	Lb/h	56.1	46.8	35.6		
-25	Btu/h	5210	4110	2980		
	Watts	1340	1250	1140		
	Amps	6.55	6.32	6.11		
	Lb/h	70.8	60.5	48.4		
-20	Btu/h	6410	5160	3880	2700	
	Watts	1510	1420	1330	1210	
	Amps	6.86	6.66	6.47	6.26	
	Lb/h	87.1	76.1	63.2	50.4	
-15	Btu/h	7740	6340	4900	3560	
	Watts	1670	1600	1520	1420	
	Amps	7.18	7.02	6.86	6.67	
	Lb/h	105	93.7	80.4	67.0	
-10	Btu/h	9200	7650	6050	4560	3290
	Watts	1830	1780	1720	1630	1520
	Amps	7.52	7.41	7.28	7.12	6.91
	Lb/h	125	113	99.9	86.3	74.6
-5	Btu/h	10800	9080	7330	5680	4250
	Watts	1980	1950	1910	1850	1760
	Amps	7.85	7.80	7.73	7.60	7.41
	Lb/h	147	136	122	108	96.6
0	Btu/h	12500	10700	8750	6930	5340
	Watts	2120	2110	2100	2060	2000
	Amps	8.19	8.21	8.18	8.10	7.94

	Lb/h	172	160	147	133	122
5	Btu/h	14400	12400	10300	8320	6560
	Watts	2240	2260	2280	2270	2230
	Amps	8.51	8.60	8.65	8.62	8.50
	Lb/h	198	187	174	161	150
10	Btu/h	16400	14200	12000	9850	7930
	Watts	2340	2400	2450	2470	2460
	Amps	8.81	8.99	9.11	9.14	9.08
	Lb/h	227	217	204	192	182

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-2.950687E+03	3.820348E+03	8.773178E+00	-2.366222E+02
C2	6.114883E+02	-3.193520E+01	-2.129813E-01	4.380195E+00
C3	7.207734E+02	-5.170761E+01	-3.999282E-02	1.233521E+01
C4	2.906017E+00	-1.033782E+00	-2.084955E-03	-2.416973E-03
C5	-2.087979E+00	6.044424E-01	3.993093E-03	6.718879E-03
C6	-8.004812E+00	5.222102E-01	5.856338E-04	-1.143324E-01
C7	5.184584E-03	-5.611391E-03	-1.006063E-05	1.689726E-04
C8	-1.304121E-03	7.031396E-03	1.845655E-05	4.816939E-04
C9	-4.478874E-03	-2.461156E-04	-1.207035E-05	1.548184E-06
C10	2.342366E-02	-1.756673E-03	-2.444863E-06	3.179266E-04

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

Te = Evaporator Temperature

Tc = Condensing Temperature



# Performance Data Sheet

## AWA2460ZXD

### General

Model	AWA2460ZXD	Unit of Measure	Fahrenheit
Condition	ARI (R-452A)	Voltage/Frequency	230V ~ 60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	Motor Type	CSR

### Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
-40	Btu/h	2260				
	Watts	869				
	Amps	5.96				
	Lb/h	42.2				
-35	Btu/h	3100	2310			
	Watts	999	894			
	Amps	6.17	5.90			
	Lb/h	58.0	47.1			
-30	Btu/h	4060	3120	2160		
	Watts	1140	1040	932		
	Amps	6.42	6.16	5.93		
	Lb/h	75.8	63.2	48.1		
-25	Btu/h	5120	4040	2930		
	Watts	1290	1200	1100		
	Amps	6.70	6.47	6.25		
	Lb/h	95.6	81.8	65.3		
-20	Btu/h	6310	5080	3820	2650	
	Watts	1450	1370	1280	1170	
	Amps	7.02	6.81	6.62	6.41	
	Lb/h	118	103	85.4	68.1	
-15	Btu/h	7620	6240	4820	3510	
	Watts	1610	1540	1460	1360	
	Amps	7.35	7.19	7.02	6.83	
	Lb/h	142	127	109	90.6	
-10	Btu/h	9050	7530	5960	4480	3240
	Watts	1760	1710	1650	1570	1460
	Amps	7.69	7.58	7.45	7.28	7.07
	Lb/h	169	153	135	117	101
-5	Btu/h	10600	8940	7220	5590	4180
	Watts	1900	1870	1840	1780	1690
	Amps	8.03	7.99	7.90	7.77	7.58
	Lb/h	199	183	165	146	131
0	Btu/h	12300	10500	8610	6820	5250
	Watts	2030	2030	2020	1990	1920
	Amps	8.37	8.40	8.37	8.29	8.13

	Lb/h	232	216	198	180	165
5	Btu/h	14100	12200	10100	8190	6460
	Watts	2150	2180	2190	2190	2150
	Amps	8.70	8.80	8.85	8.82	8.70
	Lb/h	268	253	235	218	203
10	Btu/h	16100	14000	11800	9690	7800
	Watts	2250	2310	2350	2380	2370
	Amps	9.01	9.20	9.32	9.35	9.29
	Lb/h	307	293	276	260	246

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-2.903285E+03	3.674368E+03	8.976164E+00	-3.197885E+02
C2	6.016674E+02	-3.071472E+01	-2.179092E-01	5.919711E+00
C3	7.091978E+02	-4.973188E+01	-4.091785E-02	1.667071E+01
C4	2.859331E+00	-9.942775E-01	-2.133174E-03	-3.266710E-03
C5	-2.054436E+00	5.813424E-01	4.085484E-03	9.080506E-03
C6	-7.876255E+00	5.022565E-01	5.991815E-04	-1.545171E-01
C7	5.101243E-03	-5.397106E-03	-1.029325E-05	2.283511E-04
C8	-1.283058E-03	6.762702E-03	1.888342E-05	6.509984E-04
C9	-4.406988E-03	-2.367000E-04	-1.234963E-05	2.091733E-06
C10	2.304748E-02	-1.689550E-03	-2.501424E-06	4.296692E-04

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

Te = Evaporator Temperature

Tc = Condensing Temperature



**Model: AWA2460ZXD**
**Product Description**

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


**Product Specifications**
**Performance**

Condition	Test Voltage	Refrigeration Capacity			Input Power (I) W	(E) Efficiency			EVAP TEMP	Condition	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		(R) Btu/h	(R) kcal/h	(R) W		(E) Btu/Wh	(E) kcal/Wh	W/W					
ARI (R-449A)	230V ~ 60HZ	6054	1527	1774	1716	3.53	.89	1.03	-23°C (-10°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)
ARI (R-448A)	230V ~ 60HZ	6054	1527	1774	1716	3.53	.89	1.03	-23°C (-10°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)
ARI (R-452A)	230V ~ 60HZ	5957	1502	1746	1650	3.61	.91	1.06	-23°C (-10°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)
ARI (R-404A)	230V ~ 60HZ	6300	1588	1846	1800	3.5	.88	1.03	-23°C (-10°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)

**General**

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

**Mechanical**

<b>Weight:</b>	72
<b>Weight Unit of Measure:</b>	LB
<b>Displacement (cc):</b>	53.49
<b>Oil Type:</b>	Polyolester
<b>Viscosity (cSt):</b>	32
<b>Oil Charge (cc):</b>	1141

**Electrical**

<b>Voltage Range (50 Hz):</b>	180-220
<b>Voltage Range (60 Hz):</b>	187-254
<b>Locked Rotor Amps (LRA):</b>	86
<b>Rated Load Amps (RLA 50 Hz):</b>	0

<b>Rated Load Amps (RLA 60 Hz):</b>	8.2
<b>Max. Continuous Current (MCC in Amps):</b>	19.6
<b>Motor Resistance (Ohm) - Main:</b>	.65
<b>Motor Resistance (Ohm) - Start:</b>	2.22
<b>Motor Type:</b>	CSR
<b>Overload Type:</b>	
<b>Relay Type:</b>	

## Agency Approval

CE Listed, cURus Recognized