

AWA7515ZXT

General

Model	AWA7515ZXT	Unit of Measure	Fahrenheit
Condition	ARI (R-404A)	Voltage/Frequency	230V 3~ 60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	9930	8580	7210	5840	4490	3190
	Watts	1700	1670	1640	1590	1540	1470
	Amps	5.61	5.60	5.56	5.51	5.44	5.35
	Lb/h	180	169	156	141	123	104
-5	Btu/h	11500	10100	8580	7090	5600	4150
	Watts	1810	1800	1790	1770	1730	1680
	Amps	5.82	5.86	5.86	5.84	5.80	5.75
	Lb/h	209	199	187	171	154	136
0	Btu/h	13300	11700	10100	8480	6840	5210
	Watts	1910	1930	1940	1940	1930	1890
	Amps	6.05	6.13	6.18	6.20	6.19	6.16
	Lb/h	243	233	221	206	190	172
5	Btu/h	15200	13600	11800	10000	8190	6370
	Watts	2020	2060	2100	2120	2130	2110
	Amps	6.29	6.42	6.51	6.56	6.58	6.58
	Lb/h	281	271	259	245	229	211
10	Btu/h	17400	15600	13600	11700	9650	7610
	Watts	2120	2190	2250	2300	2330	2330
	Amps	6.54	6.72	6.85	6.94	6.99	7.01
	Lb/h	322	313	301	287	271	254
15	Btu/h	19700	17700	15600	13400	11200	8920
	Watts	2210	2310	2400	2470	2520	2540
	Amps	6.80	7.03	7.20	7.32	7.41	7.45
	Lb/h	367	358	346	333	317	300
20	Btu/h	22200	20000	17700	15300	12800	10300
	Watts	2290	2420	2530	2630	2700	2750
	Amps	7.08	7.35	7.56	7.72	7.84	7.91
	Lb/h	416	407	395	382	366	350
25	Btu/h	24900	22500	19900	17300	14500	11700
	Watts	2360	2510	2660	2780	2870	2940
	Amps	7.36	7.68	7.93	8.13	8.27	8.37
	Lb/h	469	460	448	434	419	403
30	Btu/h	27700	25000	22200	19300	16200	13100
	Watts	2400	2590	2760	2910	3030	3120
	Amps	7.65	8.02	8.31	8.54	8.72	8.85

	Lb/h	525	515	503	490	474	458
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.082550E+04	2.347249E+03	2.829108E+00	1.374993E+02
C2	4.590553E+02	-4.384147E+01	-8.246774E-02	7.510836E+00
C3	1.535572E+01	-1.842901E+01	6.799600E-02	3.714365E+00
C4	7.735637E+00	-1.560220E-01	2.536601E-04	9.387689E-02
C5	4.435934E-01	9.003611E-01	1.894043E-03	-1.169030E-02
C6	-1.459253E+00	2.278699E-01	-4.344379E-04	-3.451302E-02
C7	-1.739026E-02	-4.749719E-03	-9.190070E-07	-1.461066E-04
C8	-4.153039E-02	1.534985E-03	-1.946846E-16	-1.562266E-04
C9	-1.523036E-02	-1.982007E-03	-5.090613E-06	8.451152E-05
C10	3.949076E-03	-8.527697E-04	8.465946E-07	6.943404E-05

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

AWA7515ZXT

General

Model	AWA7515ZXT	Unit of Measure	Fahrenheit
Condition	ARI (R-407A)	Voltage/Frequency	230V 3~ 60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	10500	9130	7770	6400	5030	3650
	Watts	1610	1560	1500	1450	1390	1330
	Amps	5.03	4.98	4.94	4.89	4.83	4.77
	Lb/h	124	114	103	92.5	81.6	70.4
-5	Btu/h	12500	10900	9350	7770	6200	4610
	Watts	1700	1670	1640	1610	1570	1530
	Amps	5.21	5.20	5.18	5.16	5.14	5.11
	Lb/h	146	136	125	115	104	93.2
0	Btu/h	14600	12800	11000	9230	7440	5650
	Watts	1800	1790	1780	1760	1750	1730
	Amps	5.42	5.44	5.45	5.46	5.47	5.47
	Lb/h	170	160	150	140	129	118
5	Btu/h	16800	14800	12800	10800	8790	6790
	Watts	1890	1900	1910	1920	1930	1930
	Amps	5.63	5.68	5.73	5.77	5.81	5.85
	Lb/h	197	187	177	167	157	146
10	Btu/h	19100	16900	14700	12500	10200	8030
	Watts	1980	2010	2050	2080	2110	2140
	Amps	5.86	5.94	6.02	6.10	6.17	6.24
	Lb/h	226	216	206	197	186	176
15	Btu/h	21600	19100	16700	14300	11800	9390
	Watts	2060	2120	2170	2230	2280	2330
	Amps	6.10	6.21	6.33	6.43	6.54	6.64
	Lb/h	257	248	238	228	218	208
20	Btu/h	24200	21500	18900	16200	13600	10900
	Watts	2130	2210	2290	2370	2450	2520
	Amps	6.34	6.49	6.63	6.78	6.91	7.05
	Lb/h	291	282	272	263	253	243
25	Btu/h	26900	24100	21200	18300	15400	12500
	Watts	2190	2300	2400	2500	2600	2700
	Amps	6.58	6.77	6.95	7.12	7.29	7.46
	Lb/h	327	318	309	299	290	280
30	Btu/h	29900	26800	23700	20600	17500	14300
	Watts	2240	2370	2500	2620	2750	2870
	Amps	6.82	7.04	7.26	7.47	7.68	7.88

	Lb/h	365	356	347	338	328	319
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.052084E+04	1.848067E+03	5.193829E+00	2.581275E+02
C2	8.126812E+02	-2.085698E+01	-1.556757E-02	4.769820E+00
C3	-1.780487E+02	-7.150521E-01	2.131471E-03	-9.939750E-01
C4	2.861253E+00	-1.253779E-01	1.805256E-04	4.799720E-02
C5	-4.305664E+00	4.424248E-01	6.419134E-04	3.408048E-03
C6	1.924315E-02	5.943429E-03	1.309389E-05	5.940258E-04
C7	1.806201E-02	-3.073256E-03	-3.694877E-06	-6.010317E-05
C8	-6.993742E-03	9.321811E-04	1.041100E-06	4.108716E-06
C9	3.636711E-04	-2.839896E-05	-2.610164E-08	1.777111E-06
C10	-1.161082E-04	-4.804955E-05	-1.021443E-07	-4.471088E-06

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

AWA7515ZXT

General

Model	AWA7515ZXT	Unit of Measure	Fahrenheit
Condition	ARI (R-448A)	Voltage/Frequency	230V 3~ 60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	10600	9190	7820	6440	5060	3670
	Watts	1660	1610	1560	1500	1440	1380
	Amps	5.34	5.29	5.24	5.19	5.13	5.06
	Lb/h	134	122	111	99.6	87.8	75.8
-5	Btu/h	12600	11000	9400	7820	6230	4640
	Watts	1760	1730	1700	1660	1620	1580
	Amps	5.54	5.52	5.50	5.48	5.46	5.42
	Lb/h	157	146	135	124	112	100
0	Btu/h	14700	12900	11100	9290	7490	5690
	Watts	1860	1850	1840	1830	1810	1790
	Amps	5.75	5.77	5.79	5.80	5.80	5.81
	Lb/h	183	172	161	150	139	127
5	Btu/h	16900	14900	12900	10900	8840	6830
	Watts	1960	1970	1980	1990	2000	2000
	Amps	5.98	6.03	6.08	6.13	6.17	6.21
	Lb/h	212	201	190	180	168	157
10	Btu/h	19200	17000	14800	12500	10300	8080
	Watts	2050	2080	2120	2150	2180	2210
	Amps	6.22	6.31	6.40	6.48	6.55	6.62
	Lb/h	243	233	222	211	200	189
15	Btu/h	21700	19200	16800	14300	11900	9450
	Watts	2130	2190	2250	2310	2360	2410
	Amps	6.47	6.60	6.72	6.83	6.94	7.05
	Lb/h	277	267	256	246	235	224
20	Btu/h	24300	21600	19000	16300	13600	11000
	Watts	2200	2290	2370	2450	2530	2610
	Amps	6.73	6.89	7.04	7.19	7.34	7.48
	Lb/h	313	303	293	283	272	261
25	Btu/h	27100	24200	21300	18400	15500	12600
	Watts	2270	2380	2490	2590	2700	2800
	Amps	6.99	7.18	7.37	7.56	7.74	7.92
	Lb/h	352	342	332	322	312	301
30	Btu/h	30100	27000	23800	20700	17600	14400
	Watts	2320	2450	2590	2720	2840	2970
	Amps	7.24	7.48	7.71	7.93	8.15	8.36

	Lb/h	393	383	373	363	353	343
COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW			
C1	3.069815E+04	1.912854E+03	5.514019E+00	2.777088E+02			
C2	8.174025E+02	-2.158815E+01	-1.652727E-02	5.131653E+00			
C3	-1.790831E+02	-7.401189E-01	2.262874E-03	-1.069377E+00			
C4	2.877874E+00	-1.297732E-01	1.916544E-04	5.163821E-02			
C5	-4.330678E+00	4.579347E-01	6.814863E-04	3.666581E-03			
C6	1.935493E-02	6.151784E-03	1.390110E-05	6.390878E-04			
C7	1.816695E-02	-3.180988E-03	-3.922669E-06	-6.466256E-05			
C8	-7.034373E-03	9.648581E-04	1.105286E-06	4.420408E-06			
C9	3.657839E-04	-2.939446E-05	-2.771095E-08	1.911920E-06			
C10	-1.167825E-04	-4.973398E-05	-1.084413E-07	-4.810259E-06			

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

AWA7515ZXT

General

Model	AWA7515ZXT	Unit of Measure	Fahrenheit
Condition	ARI (R-449A)	Voltage/Frequency	230V 3~ 60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	10600	9190	7820	6440	5060	3670
	Watts	1660	1610	1560	1500	1440	1380
	Amps	5.34	5.29	5.24	5.19	5.13	5.06
	Lb/h	134	122	111	99.6	87.8	75.8
-5	Btu/h	12600	11000	9400	7820	6230	4640
	Watts	1760	1730	1700	1660	1620	1580
	Amps	5.54	5.52	5.50	5.48	5.46	5.42
	Lb/h	157	146	135	124	112	100
0	Btu/h	14700	12900	11100	9290	7490	5690
	Watts	1860	1850	1840	1830	1810	1790
	Amps	5.75	5.77	5.79	5.80	5.80	5.81
	Lb/h	183	172	161	150	139	127
5	Btu/h	16900	14900	12900	10900	8840	6830
	Watts	1960	1970	1980	1990	2000	2000
	Amps	5.98	6.03	6.08	6.13	6.17	6.21
	Lb/h	212	201	190	180	168	157
10	Btu/h	19200	17000	14800	12500	10300	8080
	Watts	2050	2080	2120	2150	2180	2210
	Amps	6.22	6.31	6.40	6.48	6.55	6.62
	Lb/h	243	233	222	211	200	189
15	Btu/h	21700	19200	16800	14300	11900	9450
	Watts	2130	2190	2250	2310	2360	2410
	Amps	6.47	6.60	6.72	6.83	6.94	7.05
	Lb/h	277	267	256	246	235	224
20	Btu/h	24300	21600	19000	16300	13600	11000
	Watts	2200	2290	2370	2450	2530	2610
	Amps	6.73	6.89	7.04	7.19	7.34	7.48
	Lb/h	313	303	293	283	272	261
25	Btu/h	27100	24200	21300	18400	15500	12600
	Watts	2270	2380	2490	2590	2700	2800
	Amps	6.99	7.18	7.37	7.56	7.74	7.92
	Lb/h	352	342	332	322	312	301
30	Btu/h	30100	27000	23800	20700	17600	14400
	Watts	2320	2450	2590	2720	2840	2970
	Amps	7.24	7.48	7.71	7.93	8.15	8.36

	Lb/h	393	383	373	363	353	343
COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW			
C1	3.069815E+04	1.912854E+03	5.514019E+00	2.777088E+02			
C2	8.174025E+02	-2.158815E+01	-1.652727E-02	5.131653E+00			
C3	-1.790831E+02	-7.401189E-01	2.262874E-03	-1.069377E+00			
C4	2.877874E+00	-1.297732E-01	1.916544E-04	5.163821E-02			
C5	-4.330678E+00	4.579347E-01	6.814863E-04	3.666581E-03			
C6	1.935493E-02	6.151784E-03	1.390110E-05	6.390878E-04			
C7	1.816695E-02	-3.180988E-03	-3.922669E-06	-6.466256E-05			
C8	-7.034373E-03	9.648581E-04	1.105286E-06	4.420408E-06			
C9	3.657839E-04	-2.939446E-05	-2.771095E-08	1.911920E-06			
C10	-1.167825E-04	-4.973398E-05	-1.084413E-07	-4.810259E-06			

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

AWA7515ZXT

General

Model	AWA7515ZXT	Unit of Measure	Fahrenheit
Condition	ARI (R-452A)	Voltage/Frequency	230V 3~ 60HZ
RETURN GAS	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	9790	8520	7250	5980	4700	3410
	Watts	1680	1630	1570	1520	1460	1390
	Amps	5.46	5.41	5.36	5.30	5.24	5.18
	Lb/h	175	161	146	131	115	99.5
-5	Btu/h	11600	10200	8720	7260	5780	4300
	Watts	1780	1750	1720	1680	1640	1600
	Amps	5.66	5.65	5.63	5.61	5.58	5.55
	Lb/h	206	192	177	162	147	132
0	Btu/h	13600	11900	10300	8620	6950	5280
	Watts	1880	1870	1860	1850	1830	1810
	Amps	5.88	5.90	5.92	5.93	5.94	5.94
	Lb/h	240	226	212	197	182	167
5	Btu/h	15600	13800	11900	10100	8210	6330
	Watts	1980	1990	2000	2010	2020	2030
	Amps	6.12	6.17	6.22	6.27	6.31	6.35
	Lb/h	278	264	250	236	221	206
10	Btu/h	17800	15800	13700	11600	9570	7490
	Watts	2070	2110	2140	2180	2210	2240
	Amps	6.36	6.45	6.54	6.62	6.70	6.77
	Lb/h	319	305	291	277	263	248
15	Btu/h	20100	17900	15600	13300	11000	8770
	Watts	2160	2220	2280	2330	2390	2440
	Amps	6.62	6.75	6.87	6.99	7.10	7.20
	Lb/h	363	350	336	323	308	294
20	Btu/h	22600	20100	17600	15100	12600	10200
	Watts	2230	2320	2400	2480	2560	2640
	Amps	6.88	7.04	7.20	7.36	7.51	7.65
	Lb/h	411	398	384	371	357	343
25	Btu/h	25200	22500	19800	17100	14400	11700
	Watts	2290	2410	2520	2620	2730	2830
	Amps	7.14	7.34	7.54	7.73	7.92	8.10
	Lb/h	461	449	436	422	409	395
30	Btu/h	27900	25000	22100	19200	16300	13400
	Watts	2340	2480	2620	2750	2880	3010
	Amps	7.41	7.65	7.88	8.11	8.33	8.55

	Lb/h	515	503	490	477	464	450
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.848600E+04	1.935469E+03	5.638772E+00	3.644247E+02
C2	7.584995E+02	-2.184338E+01	-1.690120E-02	6.734036E+00
C3	-1.661781E+02	-7.488694E-01	2.314068E-03	-1.403295E+00
C4	2.670491E+00	-1.313076E-01	1.959907E-04	6.776249E-02
C5	-4.018604E+00	4.633487E-01	6.969046E-04	4.811490E-03
C6	1.796021E-02	6.224516E-03	1.421562E-05	8.386468E-04
C7	1.685780E-02	-3.218598E-03	-4.011429E-06	-8.485431E-05
C8	-6.527464E-03	9.762662E-04	1.130296E-06	5.800891E-06
C9	3.394249E-04	-2.974202E-05	-2.833795E-08	2.508918E-06
C10	-1.083672E-04	-5.032199E-05	-1.108948E-07	-6.312292E-06

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: AWA7515ZXT

Product Description

Type:	Reciprocating Compressors
Application:	MBP – Medium Back Pressure
Refrigerant:	R-404A/R-407A/R-448A/R-449A/R-452A
Voltage/Frequency:	200-230V 3~ 60Hz 200-220V 3~ 50Hz
Version:	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 3~ 60HZ	16304	4111	4778	2454	6.64	1.67	1.95	-6.7°C (20°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)
ARI (R-448A)	230V 3~ 60HZ	16304	4111	4778	2454	6.64	1.67	1.95	-6.7°C (20°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)
ARI (R-452A)	230V 3~ 60HZ	15129	3815	4434	2483	6.09	1.54	1.79	-6.7°C (20°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)
ARI (R-404A)	230V 3~ 60HZ	15200	3830	4454	2600	5.85	1.47	1.71	-6.7°C (20°F)	49°C (120°F)	35°C (95°F)	4.4°C (40°F)	49°C (120°F)

General

Evaporating Temp. Range:	-23.3°C to -1.1°C (-10°F to 30°F)
Motor Torque:	High Start Torque (HST)
Compressor Cooling:	Fan

Mechanical

Weight:	75
Weight Unit of Measure:	LB
Displacement (cc):	53.49
Oil Type:	Polyolester
Viscosity (cSt):	32
Oil Charge (cc):	1141

Electrical

Voltage Range (50 Hz):	180-242
Voltage Range (60 Hz):	180-254
Locked Rotor Amps (LRA):	63.4
Rated Load Amps (RLA 50 Hz):	0

Rated Load Amps (RLA 60 Hz):	7.7
Max. Continuous Current (MCC in Amps):	13
Motor Resistance (Ohm) - Main:	1.28
Motor Resistance (Ohm) - Start:	
MotorType:	3PH
Overload Type:	
Relay Type:	

Agency Approval

cURus Recognized