

General

AE4440Y-XN1A

Model	AE4440Y-XN1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-513A)	Voltage/Frequency	230V ~ 60HZ
RETURN GAS	35°C (95°F) RETURN GAS	Motor Type	CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
	80	90	100	110	120	130	140	150	
5	Btu/h	2560	2400	2230	2040	1860	1700	1550	1420
	Watts	311	332	349	362	372	380	386	392
	Amps	2.45	2.57	2.64	2.68	2.70	2.71	2.73	2.77
	Lb/h	32.7	32.3	31.4	30.2	28.9	27.6	26.5	25.9
	Btu/h	2920	2740	2540	2340	2150	1970	1800	1670
10	Watts	331	353	371	385	397	407	416	425
	Amps	2.50	2.62	2.70	2.75	2.77	2.80	2.83	2.88
	Lb/h	37.5	37.0	36.1	34.8	33.4	32.0	31.0	30.4
	Btu/h	3290	3090	2880	2670	2450	2250	2070	1920
	Watts	350	373	392	408	421	434	446	459
15	Amps	2.55	2.68	2.76	2.82	2.86	2.89	2.93	3.00
	Lb/h	42.6	42.0	41.0	39.6	38.2	36.8	35.7	35.1
	Btu/h	3700	3480	3250	3010	2780	2560	2360	2200
	Watts	369	392	412	430	446	461	477	493
	Amps	2.59	2.73	2.82	2.89	2.94	2.98	3.04	3.12
20	Lb/h	48.0	47.4	46.2	44.8	43.3	41.9	40.8	40.1
	Btu/h	4140	3900	3640	3380	3130	2890	2680	2490
	Watts	387	411	433	452	471	489	508	528
	Amps	2.63	2.78	2.88	2.96	3.02	3.08	3.15	3.25
	Lb/h	53.9	53.1	51.9	50.5	48.9	47.4	46.3	45.7
25	Btu/h	4610	4350	4070	3790	3510	3250	3020	2810
	Watts	404	429	453	474	496	517	540	564
	Amps	2.67	2.83	2.95	3.04	3.11	3.19	3.27	3.38
	Lb/h	60.2	59.4	58.1	56.6	55.0	53.5	52.3	51.7
	Btu/h	5120	4830	4530	4230	3930	3650	3390	3160
30	Watts	420	447	472	496	520	545	572	601
	Amps	2.71	2.88	3.01	3.12	3.21	3.30	3.40	3.53
	Lb/h	67.2	66.2	64.9	63.3	61.6	60.1	58.9	58.3
	Btu/h	5680	5360	5030	4700	4380	4070	3790	3540
	Watts	435	463	491	518	545	574	604	638
40	Amps	2.75	2.93	3.08	3.20	3.30	3.41	3.53	3.68
	Lb/h	74.7	73.7	72.3	70.6	68.9	67.4	66.2	65.5
	Btu/h	6280	5930	5570	5220	4870	4530	4220	3950
	Watts	448	479	509	539	569	602	637	675
	Amps	2.79	2.99	3.15	3.28	3.41	3.53	3.67	3.84
45	Lb/h	83.0	81.9	80.4	78.7	76.9	75.3	74.1	73.5
	Btu/h	6930	6550	6160	5780	5400	5040	4700	4400
	Watts	461	494	526	559	594	630	670	714
	Amps	2.83	3.04	3.22	3.37	3.52	3.66	3.82	4.01
	Lb/h	92.0	90.9	89.3	87.5	85.7	84.1	82.9	82.2
50	Btu/h	7630	7220	6800	6380	5980	5590	5220	4890
	Watts	473	508	543	580	618	659	703	752
	Amps	2.87	3.10	3.30	3.47	3.63	3.79	3.97	4.18
	Lb/h	102	101	99.0	97.2	95.3	93.7	92.5	91.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.880089E+03	-1.746636E+02	-1.728244E+00	-1.236149E+01
C2	9.325414E+01	7.849810E+00	9.056296E-03	1.155339E+00
C3	3.124716E+01	1.006446E+01	1.036201E-01	1.212464E+00
C4	6.289446E-01	-5.036172E-02	-2.606937E-04	2.684108E-03
C5	-4.178680E-01	-8.413222E-02	-5.129086E-05	-4.289518E-03
C6	-4.458031E-01	-6.459380E-02	-8.255167E-04	-1.142174E-02
C7	4.393462E-03	-5.910890E-05	7.067551E-07	9.304750E-05
C8	-3.127073E-03	4.559720E-04	2.297286E-06	2.900164E-06
C9	6.452285E-04	4.927475E-04	8.696491E-07	1.372191E-05
C10	1.380212E-03	1.417322E-04	2.198891E-06	3.236271E-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

T_c = Condensing Temperature

AE4440Y-XN1A

General

Performance Data Sheet

Model	AE4440Y-XN1A	Unit of Measure	Celsius
Condition	EN12900(R-134a)	Voltage/Frequency	220V~ 50HZ
RETURN GAS	20°C (68°F) RETURN GAS	MotorType	CSIR

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-15	Btu/h	1810	1640	1480	1350	1220	1110	992	876
	Watts (Power)	232	261	282	297	307	314	320	327
	Amps	2.59	2.64	2.69	2.71	2.73	2.73	2.74	2.74
	Lb/h	10.7	10.1	9.61	9.18	8.80	8.46	8.15	7.85
	Btu/h	2290	2090	1910	1750	1610	1470	1340	1200
-10	Watts (Power)	255	284	306	321	332	340	346	353
	Amps	2.62	2.68	2.72	2.75	2.77	2.78	2.79	2.80
	Lb/h	13.5	12.9	12.4	12.0	11.6	11.2	10.8	10.4
	Btu/h	2640	2420	2230	2050	1890	1740	1580	1430
	Watts (Power)	270	301	324	340	352	361	368	376
-6.7	Amps	2.65	2.71	2.76	2.79	2.81	2.83	2.84	2.86
	Lb/h	15.7	15.1	14.6	14.1	13.6	13.2	12.7	12.3
	Btu/h	2840	2610	2410	2220	2050	1880	1720	1560
	Watts (Power)	277	310	333	351	363	372	380	388
	Amps	2.66	2.73	2.78	2.82	2.84	2.86	2.87	2.89
-5	Lb/h	16.9	16.3	15.8	15.3	14.8	14.3	13.9	13.4
	Btu/h	3500	3240	2990	2770	2560	2360	2160	1960
	Watts (Power)	297	333	360	381	396	408	419	430
	Amps	2.71	2.78	2.84	2.89	2.92	2.95	2.98	3.00
	Lb/h	20.9	20.3	19.7	19.2	18.6	18.1	17.6	17.0
0	Btu/h	4280	3970	3680	3410	3160	2910	2660	2420
	Watts (Power)	311	351	383	408	427	444	458	473
	Amps	2.74	2.83	2.90	2.96	3.01	3.05	3.09	3.13
	Lb/h	25.7	25.0	24.4	23.8	23.2	22.6	22.0	21.3
	Btu/h	4670	4330	4020	3730	3450	3180	2910	2650
5	Watts (Power)	313	356	391	418	440	458	475	491
	Amps	2.75	2.85	2.92	2.99	3.04	3.09	3.14	3.19
	Lb/h	28.0	27.4	26.8	26.2	25.5	24.9	24.2	23.5
	Btu/h	5200	4830	4490	4170	3860	3560	3260	2960
	Watts (Power)	313	360	398	428	453	475	494	514
7.2	Amps	2.76	2.86	2.95	3.02	3.09	3.15	3.20	3.26
	Lb/h	31.3	30.7	30.0	29.4	28.7	28.0	27.3	26.5
	Btu/h	6270	5840	5440	5050	4680	4320	3960	3600
	Watts (Power)	302	356	401	438	470	498	524	550
	Amps	2.74	2.87	2.97	3.06	3.15	3.23	3.31	3.39
10	Lb/h	38.0	37.3	36.6	35.9	35.2	34.4	33.5	32.6

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.881129E+03	-1.975000E+02	1.697000E+00	2.587575E+01
C2	1.947807E+02	-2.285833E+00	-2.558333E-03	8.471900E-01
C3	-1.085870E+02	2.697958E+01	5.477917E-02	-2.210126E-01
C4	3.381007E+00	-2.820000E-01	-5.866667E-04	1.588513E-02
C5	-1.735543E+00	2.120000E-01	2.983333E-04	2.415726E-03
C6	1.179549E+00	-4.205000E-01	-8.475000E-04	2.302403E-03
C7	2.252003E-02	-4.966667E-03	-1.233333E-05	1.692204E-04
C8	-3.267906E-02	4.950000E-03	1.316667E-05	-2.151990E-05
C9	9.008013E-04	-7.000000E-04	1.833333E-06	-5.106887E-05
C10	-6.739326E-03	2.366667E-03	4.833333E-06	-1.547580E-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