

General

AE4440E-DS1A

Model AE4440E-DS1A Unit of Measure Fahrenheit
 Condition EN12900(R-22) Voltage/Frequency 127V~ 60HZ
 RETURN GAS 20°C (68°F) RETURN GAS MotorType CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
	80	90	100	110	120	130	140	150	
5	Btu/h	2160	1990	1840	1700	1570	1440	1300	1150
	Watts	282	282	295	313	330	341	339	318
	Amps	4.43	4.49	4.56	4.63	4.69	4.72	4.72	4.68
	Lb/h	26.4	25.2	24.2	23.4	22.6	21.8	20.9	19.6
10	Btu/h	2450	2270	2100	1950	1800	1650	1490	1320
	Watts	285	294	314	338	360	373	373	352
	Amps	4.48	4.55	4.64	4.72	4.80	4.86	4.89	4.88
	Lb/h	30.1	28.8	27.8	26.9	26.0	25.1	24.0	22.5
15	Btu/h	2780	2580	2400	2220	2050	1880	1700	1510
	Watts	288	305	331	360	386	401	401	379
	Amps	4.52	4.61	4.71	4.81	4.92	5.00	5.06	5.08
	Lb/h	34.1	32.8	31.7	30.8	29.8	28.7	27.4	25.8
20	Btu/h	3130	2910	2710	2520	2330	2140	1930	1710
	Watts	292	316	348	381	408	425	425	400
	Amps	4.56	4.66	4.78	4.90	5.03	5.14	5.22	5.27
	Lb/h	38.5	37.2	36.0	35.0	33.9	32.7	31.2	29.4
25	Btu/h	3510	3280	3060	2840	2630	2410	2180	1930
	Watts	296	326	362	398	428	444	442	415
	Amps	4.60	4.71	4.84	4.99	5.13	5.27	5.38	5.46
	Lb/h	43.3	42.0	40.8	39.6	38.4	37.0	35.4	33.4
30	Btu/h	3920	3670	3430	3190	2950	2710	2450	2170
	Watts	300	335	375	413	443	458	454	422
	Amps	4.64	4.76	4.90	5.06	5.23	5.39	5.53	5.65
	Lb/h	48.6	47.2	45.9	44.7	43.3	41.8	40.0	37.8
35	Btu/h	4370	4090	3820	3560	3300	3030	2740	2430
	Watts	304	344	386	425	454	467	459	423
	Amps	4.66	4.79	4.95	5.13	5.32	5.51	5.68	5.82
	Lb/h	54.3	52.9	51.5	50.2	48.7	47.0	45.0	42.6
40	Btu/h	4840	4540	4250	3960	3670	3370	3050	2710
	Watts	308	350	394	433	461	471	458	416
	Amps	4.68	4.82	5.00	5.20	5.40	5.61	5.81	5.99
	Lb/h	60.5	59.0	57.6	56.1	54.5	52.7	50.5	47.9
45	Btu/h	5350	5020	4710	4390	4070	3740	3390	3020
	Watts	311	355	399	437	463	469	451	401
	Amps	4.69	4.84	5.03	5.25	5.48	5.71	5.94	6.15
	Lb/h	67.2	65.7	64.2	62.6	60.9	58.9	56.5	53.6
50	Btu/h	5890	5540	5200	4850	4500	4140	3750	3340
	Watts	313	359	402	438	460	461	437	379
	Amps	4.69	4.86	5.06	5.29	5.54	5.80	6.05	6.29
	Lb/h	74.5	72.9	71.3	69.6	67.7	65.6	63.0	59.9
55	Btu/h	6470	6090	5720	5340	4960	4560	4140	3690
	Watts	315	360	402	435	452	448	415	349
	Amps	4.68	4.85	5.07	5.32	5.59	5.87	6.16	6.43
	Lb/h	82.3	80.6	78.9	77.1	75.1	72.8	70.0	66.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.683144E+03	1.597140E+03	5.549072E+00	5.675510E+01
C2	5.858983E+01	-2.746364E+01	1.340038E-02	4.539808E-01
C3	-5.970377E+01	-3.769090E+01	-4.485087E-02	-8.134402E-01
C4	7.762420E-01	1.847782E-01	5.406138E-05	6.987252E-03
C5	2.394158E-02	4.661619E-01	-3.233846E-04	4.445075E-03
C6	3.957933E-01	3.486942E-01	5.250542E-04	6.349199E-03
C7	1.223231E-03	-3.201255E-04	-1.682693E-06	3.350398E-05
C8	-3.243994E-03	-1.988296E-03	-3.687441E-07	-9.544042E-06
C9	-1.456968E-03	-1.510067E-03	3.367523E-06	-2.775355E-05
C10	-1.077468E-03	-1.040216E-03	-1.825488E-06	-1.795513E-05

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

Te = Evaporator Temperature

T_c = Condensing Temperature