

General

AE4460Y-AA3C

Model AE4460Y-AA3C Unit of Measure Fahrenheit
 Condition ASHRAE(R-513A) Voltage/Frequency 115V~ 60HZ
 RETURN GAS 35°C (95°F) RETURN GAS MotorType CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
	80	90	100	110	120	130	140	150	
5	Btu/h	3570	3360	3130	2900	2660	2440	2220	2020
	Watts	457	469	484	500	515	526	532	529
	Amps	4.94	5.02	5.14	5.27	5.38	5.46	5.49	5.43
	Lb/h	43.3	42.4	41.4	40.4	39.3	38.3	37.4	36.6
10	Btu/h	4080	3840	3590	3320	3060	2790	2540	2300
	Watts	484	496	512	530	547	562	572	574
	Amps	5.13	5.21	5.33	5.47	5.61	5.72	5.79	5.78
	Lb/h	49.5	48.6	47.6	46.4	45.2	43.9	42.6	41.5
15	Btu/h	4630	4370	4090	3800	3500	3190	2900	2610
	Watts	512	524	541	561	580	598	612	619
	Amps	5.34	5.41	5.53	5.69	5.84	5.99	6.09	6.13
	Lb/h	56.2	55.4	54.4	53.1	51.7	50.2	48.7	47.2
20	Btu/h	5220	4940	4630	4310	3980	3640	3300	2960
	Watts	542	554	571	592	614	635	653	664
	Amps	5.57	5.63	5.75	5.91	6.09	6.26	6.40	6.49
	Lb/h	63.5	62.8	61.7	60.4	58.9	57.3	55.5	53.7
25	Btu/h	5850	5550	5220	4860	4490	4120	3730	3350
	Watts	574	585	603	625	649	672	693	710
	Amps	5.82	5.87	5.99	6.16	6.35	6.55	6.72	6.85
	Lb/h	71.3	70.7	69.8	68.5	66.9	65.1	63.2	61.1
30	Btu/h	6520	6200	5840	5460	5050	4640	4210	3790
	Watts	608	618	636	658	684	710	735	755
	Amps	6.10	6.13	6.25	6.42	6.62	6.84	7.05	7.22
	Lb/h	79.7	79.3	78.4	77.1	75.6	73.7	71.6	69.3
35	Btu/h	7240	6890	6500	6090	5650	5190	4730	4250
	Watts	643	652	670	693	720	749	777	801
	Amps	6.40	6.42	6.52	6.70	6.91	7.15	7.38	7.59
	Lb/h	88.6	88.4	87.7	86.5	84.9	83.0	80.8	78.4
40	Btu/h	7990	7620	7200	6760	6290	5790	5280	4760
	Watts	680	688	706	729	758	788	819	847
	Amps	6.73	6.72	6.82	6.99	7.22	7.47	7.73	7.98
	Lb/h	98.0	98.1	97.5	96.5	95.0	93.1	90.9	88.3
45	Btu/h	8780	8380	7940	7470	6960	6420	5870	5300
	Watts	720	726	743	767	796	829	862	894
	Amps	7.08	7.06	7.14	7.31	7.54	7.81	8.09	8.37
	Lb/h	108	108	108	107	106	104	102	99.1
50	Btu/h	9610	9190	8720	8210	7670	7090	6500	5880
	Watts	761	766	782	806	836	870	906	941
	Amps	7.46	7.41	7.48	7.64	7.88	8.16	8.46	8.77
	Lb/h	118	119	119	119	117	116	113	111
55	Btu/h	10500	10000	9530	8990	8410	7800	7160	6490
	Watts	805	808	822	846	877	912	950	988
	Amps	7.87	7.80	7.85	8.00	8.23	8.53	8.85	9.19
	Lb/h	130	131	131	131	130	128	126	123

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.696591E+03	6.971321E+02	7.724056E+00	3.619234E+01
C2	9.361494E+01	1.006873E+01	1.008293E-01	7.163984E-01
C3	1.040887E+01	-1.000783E+01	-1.046596E-01	1.703941E-01
C4	9.315474E-01	6.817460E-02	7.364186E-04	3.581158E-03
C5	2.475900E-01	-1.319519E-01	-1.590895E-03	9.770121E-03
C6	-2.996125E-01	1.139662E-01	1.150847E-03	-2.605217E-03
C7	-9.860128E-04	7.395375E-05	1.564279E-06	3.724779E-06
C8	-5.664102E-04	-4.668164E-04	-4.851125E-06	8.621255E-05
C9	-3.948989E-03	8.344439E-04	9.209953E-06	-6.460076E-05
C10	9.706737E-04	-3.782749E-04	-3.802415E-06	8.709879E-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

T_c = Condensing Temperature

AE4460Y-AA3C

General

Performance Data Sheet

Model AE4460Y-AA3C **Unit of Measure** Fahrenheit
Condition EN12900(R-134a) **Voltage/Frequency** 115V~ 60HZ
RETURN GAS 20°C (68°F) RETURN GAS **MotorType** CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
	80	90	100	110	120	130	140	150	
5	Btu/h	3040	2850	2660	2460	2260	2070	1890	1720
	Watts	420	431	445	460	474	484	489	486
	Amps	4.55	4.63	4.74	4.86	4.96	5.04	5.06	5.01
	Lb/h	38.9	38.1	37.2	36.3	35.3	34.4	33.6	32.9
10	Btu/h	3470	3270	3050	2830	2600	2380	2160	1950
	Watts	445	456	471	487	503	517	525	528
	Amps	4.73	4.80	4.91	5.04	5.17	5.27	5.34	5.33
	Lb/h	44.5	43.7	42.8	41.7	40.6	39.4	38.3	37.3
15	Btu/h	3930	3710	3480	3230	2970	2720	2460	2220
	Watts	471	482	497	515	533	550	562	569
	Amps	4.92	4.99	5.10	5.24	5.39	5.52	5.62	5.65
	Lb/h	50.6	49.8	48.9	47.7	46.5	45.1	43.8	42.4
20	Btu/h	4440	4200	3940	3660	3380	3090	2800	2520
	Watts	498	509	525	544	564	584	600	611
	Amps	5.14	5.19	5.30	5.45	5.62	5.77	5.90	5.98
	Lb/h	57.1	56.4	55.5	54.3	53.0	51.5	49.9	48.3
25	Btu/h	4970	4720	4430	4130	3820	3500	3170	2850
	Watts	528	538	554	574	596	618	637	652
	Amps	5.37	5.41	5.52	5.68	5.85	6.03	6.19	6.32
	Lb/h	64.1	63.6	62.7	61.5	60.1	58.5	56.8	54.9
30	Btu/h	5550	5270	4960	4640	4300	3940	3580	3220
	Watts	558	568	584	605	629	653	675	694
	Amps	5.62	5.65	5.76	5.92	6.11	6.31	6.50	6.65
	Lb/h	71.6	71.2	70.5	69.4	67.9	66.3	64.4	62.3
35	Btu/h	6150	5860	5530	5180	4800	4420	4020	3620
	Watts	591	600	616	637	662	688	714	736
	Amps	5.90	5.92	6.01	6.17	6.37	6.59	6.81	7.00
	Lb/h	79.6	79.4	78.8	77.8	76.4	74.7	72.7	70.5
40	Btu/h	6790	6480	6120	5750	5340	4920	4490	4050
	Watts	625	633	649	671	697	725	753	779
	Amps	6.20	6.20	6.29	6.44	6.65	6.89	7.13	7.35
	Lb/h	88.1	88.1	87.7	86.8	85.4	83.7	81.7	79.4
45	Btu/h	7460	7130	6750	6350	5920	5460	4990	4510
	Watts	662	668	683	705	732	762	792	822
	Amps	6.53	6.50	6.58	6.73	6.95	7.19	7.46	7.72
	Lb/h	97.1	97.4	97.2	96.4	95.2	93.5	91.4	89.1
50	Btu/h	8170	7810	7410	6980	6520	6030	5520	5000
	Watts	700	704	718	741	768	800	832	865
	Amps	6.88	6.83	6.89	7.04	7.26	7.52	7.80	8.09
	Lb/h	107	107	107	107	106	104	102	99.5
55	Btu/h	8900	8530	8110	7650	7150	6630	6090	5520
	Watts	740	742	756	777	806	838	873	908
	Amps	7.26	7.19	7.23	7.37	7.59	7.86	8.16	8.47
	Lb/h	116	117	118	117	117	115	113	111

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.142851E+03	6.407897E+02	7.119995E+00	3.253518E+01	
C2	7.959165E+01	9.254969E+00	9.294393E-02	6.440078E-01	
C3	8.849649E+00	-9.198997E+00	-9.647465E-02	1.531761E-01	
C4	7.920039E-01	6.266471E-02	6.788269E-04	3.219289E-03	
C5	2.105016E-01	-1.212875E-01	-1.466479E-03	8.782870E-03	
C6	-2.547313E-01	1.047554E-01	1.060845E-03	-2.341965E-03	
C7	-8.383105E-04	6.797679E-05	1.441944E-06	3.348398E-06	
C8	-4.815633E-04	-4.290882E-04	-4.471742E-06	7.750095E-05	
C9	-3.357440E-03	7.670039E-04	8.489687E-06	-5.807298E-05	
C10	8.252691E-04	-3.477026E-04	-3.505047E-06	7.829763E-06	

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

Te = Evaporator Temperature

Tc = Condensing Temperature