



Performance Data Sheet

AE4425Z-FZ1A

General

Model	AE4425Z-FZ1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-404A)	Voltage/Frequency	220V~ 50HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	1310					
	Watts	264					
	Amps	3.23					
	Lb/h	13.9					
-5	Btu/h	1440	1320				
	Watts	258	261				
	Amps	3.28	3.30				
	Lb/h	17.2	16.6				
0	Btu/h	1590	1460	1330			
	Watts	255	259	264			
	Amps	3.33	3.36	3.38			
	Lb/h	20.6	19.9	19.2			
5	Btu/h	1770	1620	1480	1330		
	Watts	255	260	266	271		
	Amps	3.39	3.42	3.45	3.48		
	Lb/h	24.1	23.3	22.5	21.6		
10	Btu/h	1970	1810	1650	1490	1320	
	Watts	256	263	270	277	284	
	Amps	3.45	3.48	3.52	3.56	3.59	
	Lb/h	27.7	26.9	26.0	25.0	23.7	
15	Btu/h	2190	2020	1840	1670	1480	1280
	Watts	260	268	277	285	293	300
	Amps	3.50	3.55	3.60	3.64	3.69	3.74
	Lb/h	31.5	30.6	29.6	28.5	27.1	25.4
20	Btu/h	2450	2250	2060	1860	1650	1430
	Watts	264	274	285	295	304	312
	Amps	3.55	3.61	3.67	3.73	3.78	3.84
	Lb/h	35.7	34.6	33.6	32.3	30.8	28.9
25	Btu/h	2720	2510	2300	2080	1850	1610
	Watts	269	281	293	305	316	325
	Amps	3.60	3.67	3.74	3.81	3.88	3.95
	Lb/h	40.1	38.9	37.8	36.4	34.8	32.7
30	Btu/h	3030	2790	2550	2310	2060	1790
	Watts	273	288	302	315	328	339
	Amps	3.64	3.72	3.81	3.89	3.97	4.05

	Lb/h	44.8	43.6	42.3	40.8	39.0	36.9
35	Btu/h	3360	3100	2830	2570	2290	2000
	Watts	277	294	310	326	340	353
	Amps	3.67	3.77	3.87	3.97	4.06	4.16
	Lb/h	50.0	48.6	47.2	45.6	43.7	41.3
40	Btu/h	3710	3430	3140	2840	2540	2220
	Watts	280	300	318	336	352	367
	Amps	3.69	3.81	3.92	4.04	4.15	4.26
	Lb/h	55.6	54.1	52.5	50.8	48.7	46.2
45	Btu/h	4100	3780	3460	3130	2800	2450
	Watts	282	304	325	345	363	380
	Amps	3.70	3.84	3.97	4.10	4.23	4.36
	Lb/h	61.7	60.1	58.4	56.4	54.2	51.6
50	Btu/h	4510	4160	3810	3450	3080	2700
	Watts	281	306	329	351	372	391
	Amps	3.69	3.85	4.01	4.16	4.30	4.45
	Lb/h	68.3	66.6	64.7	62.6	60.2	57.4
55	Btu/h	4940	4560	4170	3780	3380	2970
	Watts	278	305	331	356	379	401
	Amps	3.68	3.86	4.03	4.20	4.37	4.53
	Lb/h	75.5	73.6	71.6	69.4	66.8	63.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.483987E+03	3.084422E+02	2.754138E+00	4.278936E+01
C2	5.160707E+01	-3.891617E+00	-4.192336E-03	7.293975E-01
C3	-3.460717E+01	-2.078191E+00	1.281137E-02	-5.632252E-01
C4	8.773697E-01	2.673948E-02	-2.140534E-04	3.597767E-03
C5	-1.941727E-01	5.107457E-02	2.025416E-04	2.978118E-04
C6	2.145873E-01	2.254136E-02	-9.739988E-05	5.069657E-03
C7	2.402768E-04	-7.028338E-04	-2.206056E-06	6.213061E-05
C8	-4.198217E-03	2.822754E-04	2.743749E-06	-1.404635E-05
C9	-1.700565E-04	-1.279783E-04	-3.633216E-07	-9.082059E-06
C10	-7.109923E-04	-6.689720E-05	2.952794E-07	-1.726919E-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

Tc = Condensing Temperature



Performance Data Sheet

AE4425Z-FZ1A

General

Model	AE4425Z-FZ1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-448A)	Voltage/Frequency	220V~ 50HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	1280					
	Watts	243					
	Amps	2.98					
	Lb/h	9.88					
-5	Btu/h	1400	1280				
	Watts	237	240				
	Amps	3.02	3.04				
	Lb/h	12.2	11.8				
0	Btu/h	1550	1420	1290			
	Watts	234	238	242			
	Amps	3.07	3.09	3.11			
	Lb/h	14.6	14.1	13.6			
5	Btu/h	1720	1580	1440	1300		
	Watts	234	239	244	249		
	Amps	3.13	3.15	3.18	3.20		
	Lb/h	17.1	16.5	16.0	15.3		
10	Btu/h	1920	1760	1610	1450	1280	
	Watts	235	242	248	255	261	
	Amps	3.18	3.21	3.25	3.28	3.31	
	Lb/h	19.7	19.1	18.4	17.7	16.8	
15	Btu/h	2140	1970	1800	1620	1440	1240
	Watts	238	246	254	262	269	275
	Amps	3.23	3.27	3.32	3.36	3.40	3.44
	Lb/h	22.4	21.7	21.0	20.2	19.3	18.0
20	Btu/h	2380	2190	2010	1810	1610	1400
	Watts	242	252	261	270	279	286
	Amps	3.27	3.33	3.38	3.43	3.49	3.54
	Lb/h	25.3	24.6	23.8	22.9	21.9	20.5
25	Btu/h	2650	2450	2240	2020	1800	1560
	Watts	247	258	269	280	290	298
	Amps	3.32	3.38	3.45	3.51	3.57	3.64
	Lb/h	28.4	27.6	26.8	25.8	24.7	23.2
30	Btu/h	2950	2720	2490	2250	2010	1750
	Watts	251	264	277	290	301	311
	Amps	3.35	3.43	3.51	3.59	3.66	3.74

	Lb/h	31.8	30.9	30.0	28.9	27.7	26.2
35	Btu/h	3270	3020	2760	2500	2230	1950
	Watts	255	270	285	299	312	324
	Amps	3.38	3.48	3.57	3.66	3.75	3.83
	Lb/h	35.5	34.5	33.5	32.3	31.0	29.3
40	Btu/h	3620	3340	3050	2770	2470	2160
	Watts	257	275	292	308	323	337
	Amps	3.40	3.51	3.62	3.72	3.83	3.93
	Lb/h	39.4	38.4	37.3	36.0	34.6	32.8
45	Btu/h	3990	3680	3370	3050	2730	2390
	Watts	259	279	298	316	333	349
	Amps	3.41	3.54	3.66	3.78	3.90	4.02
	Lb/h	43.8	42.6	41.4	40.1	38.5	36.6
50	Btu/h	4390	4050	3710	3360	3000	2630
	Watts	258	281	302	323	342	359
	Amps	3.41	3.55	3.69	3.83	3.97	4.10
	Lb/h	48.5	47.2	45.9	44.4	42.7	40.7
55	Btu/h	4810	4440	4070	3690	3300	2890
	Watts	255	280	304	327	348	368
	Amps	3.39	3.55	3.71	3.87	4.03	4.18
	Lb/h	53.6	52.2	50.8	49.2	47.4	45.3

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.393669E+03	2.832056E+02	2.539281E+00	3.036281E+01
C2	5.026786E+01	-3.573172E+00	-3.865184E-03	5.175729E-01
C3	-3.370990E+01	-1.908161E+00	1.181172E-02	-3.996575E-01
C4	8.546506E-01	2.455064E-02	-1.973591E-04	2.552933E-03
C5	-1.891396E-01	4.689578E-02	1.867421E-04	2.113105E-04
C6	2.090240E-01	2.069711E-02	-8.980001E-05	3.597368E-03
C7	2.337797E-04	-6.453180E-04	-2.033885E-06	4.408725E-05
C8	-4.089342E-03	2.591777E-04	2.529667E-06	-9.967101E-06
C9	-1.656467E-04	-1.175067E-04	-3.349726E-07	-6.444487E-06
C10	-6.925590E-04	-6.142401E-05	2.722391E-07	-1.225402E-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

Tc = Condensing Temperature



Performance Data Sheet

AE4425Z-FZ1A

General

Model	AE4425Z-FZ1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-449A)	Voltage/Frequency	220V~ 50HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	1280					
	Watts	243					
	Amps	2.98					
	Lb/h	9.88					
-5	Btu/h	1400	1280				
	Watts	237	240				
	Amps	3.02	3.04				
	Lb/h	12.2	11.8				
0	Btu/h	1550	1420	1290			
	Watts	234	238	242			
	Amps	3.07	3.09	3.11			
	Lb/h	14.6	14.1	13.6			
5	Btu/h	1720	1580	1440	1300		
	Watts	234	239	244	249		
	Amps	3.13	3.15	3.18	3.20		
	Lb/h	17.1	16.5	16.0	15.3		
10	Btu/h	1920	1760	1610	1450	1280	
	Watts	235	242	248	255	261	
	Amps	3.18	3.21	3.25	3.28	3.31	
	Lb/h	19.7	19.1	18.4	17.7	16.8	
15	Btu/h	2140	1970	1800	1620	1440	1240
	Watts	238	246	254	262	269	275
	Amps	3.23	3.27	3.32	3.36	3.40	3.44
	Lb/h	22.4	21.7	21.0	20.2	19.3	18.0
20	Btu/h	2380	2190	2010	1810	1610	1400
	Watts	242	252	261	270	279	286
	Amps	3.27	3.33	3.38	3.43	3.49	3.54
	Lb/h	25.3	24.6	23.8	22.9	21.9	20.5
25	Btu/h	2650	2450	2240	2020	1800	1560
	Watts	247	258	269	280	290	298
	Amps	3.32	3.38	3.45	3.51	3.57	3.64
	Lb/h	28.4	27.6	26.8	25.8	24.7	23.2
30	Btu/h	2950	2720	2490	2250	2010	1750
	Watts	251	264	277	290	301	311
	Amps	3.35	3.43	3.51	3.59	3.66	3.74

	Lb/h	31.8	30.9	30.0	28.9	27.7	26.2
35	Btu/h	3270	3020	2760	2500	2230	1950
	Watts	255	270	285	299	312	324
	Amps	3.38	3.48	3.57	3.66	3.75	3.83
	Lb/h	35.5	34.5	33.5	32.3	31.0	29.3
40	Btu/h	3620	3340	3050	2770	2470	2160
	Watts	257	275	292	308	323	337
	Amps	3.40	3.51	3.62	3.72	3.83	3.93
	Lb/h	39.4	38.4	37.3	36.0	34.6	32.8
45	Btu/h	3990	3680	3370	3050	2730	2390
	Watts	259	279	298	316	333	349
	Amps	3.41	3.54	3.66	3.78	3.90	4.02
	Lb/h	43.8	42.6	41.4	40.1	38.5	36.6
50	Btu/h	4390	4050	3710	3360	3000	2630
	Watts	258	281	302	323	342	359
	Amps	3.41	3.55	3.69	3.83	3.97	4.10
	Lb/h	48.5	47.2	45.9	44.4	42.7	40.7
55	Btu/h	4810	4440	4070	3690	3300	2890
	Watts	255	280	304	327	348	368
	Amps	3.39	3.55	3.71	3.87	4.03	4.18
	Lb/h	53.6	52.2	50.8	49.2	47.4	45.3

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.393669E+03	2.832056E+02	2.539281E+00	3.036281E+01
C2	5.026786E+01	-3.573172E+00	-3.865184E-03	5.175729E-01
C3	-3.370990E+01	-1.908161E+00	1.181172E-02	-3.996575E-01
C4	8.546506E-01	2.455064E-02	-1.973591E-04	2.552933E-03
C5	-1.891396E-01	4.689578E-02	1.867421E-04	2.113105E-04
C6	2.090240E-01	2.069711E-02	-8.980001E-05	3.597368E-03
C7	2.337797E-04	-6.453180E-04	-2.033885E-06	4.408725E-05
C8	-4.089342E-03	2.591777E-04	2.529667E-06	-9.967101E-06
C9	-1.656467E-04	-1.175067E-04	-3.349726E-07	-6.444487E-06
C10	-6.925590E-04	-6.142401E-05	2.722391E-07	-1.225402E-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

Tc = Condensing Temperature



Performance Data Sheet

AE4425Z-FZ1A

General

Model	AE4425Z-FZ1A	Unit of Measure	Fahrenheit
Condition	ASHRAE(R-452A)	Voltage/Frequency	220V~50HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)						
		90	100	110	120	130	140
-10	Btu/h	1230					
	Watts	254					
	Amps	3.05					
	Lb/h	12.3					
-5	Btu/h	1350	1240				
	Watts	249	251				
	Amps	3.10	3.12				
	Lb/h	15.2	14.7				
0	Btu/h	1490	1370	1250			
	Watts	246	249	254			
	Amps	3.15	3.17	3.19			
	Lb/h	18.2	17.6	17.0			
5	Btu/h	1660	1520	1390	1250		
	Watts	245	250	256	261		
	Amps	3.21	3.23	3.26	3.29		
	Lb/h	21.3	20.6	19.9	19.1		
10	Btu/h	1850	1700	1550	1400	1240	
	Watts	247	253	260	267	273	
	Amps	3.26	3.30	3.33	3.36	3.40	
	Lb/h	24.5	23.7	23.0	22.1	20.9	
15	Btu/h	2060	1900	1730	1560	1390	1200
	Watts	250	258	266	274	282	288
	Amps	3.31	3.36	3.40	3.44	3.49	3.53
	Lb/h	27.9	27.1	26.2	25.2	24.0	22.4
20	Btu/h	2300	2120	1940	1750	1550	1350
	Watts	254	264	274	283	292	300
	Amps	3.36	3.42	3.47	3.52	3.58	3.63
	Lb/h	31.5	30.6	29.7	28.6	27.2	25.6
25	Btu/h	2560	2360	2160	1950	1740	1510
	Watts	258	270	282	293	304	313
	Amps	3.40	3.47	3.54	3.60	3.67	3.73
	Lb/h	35.4	34.4	33.4	32.2	30.7	28.9
30	Btu/h	2850	2620	2400	2170	1930	1690
	Watts	263	277	291	304	316	326
	Amps	3.44	3.52	3.60	3.68	3.76	3.83

	Lb/h	39.6	38.5	37.4	36.1	34.5	32.6
35	Btu/h	3160	2910	2660	2410	2150	1880
	Watts	267	283	299	314	327	340
	Amps	3.47	3.57	3.66	3.75	3.84	3.93
	Lb/h	44.2	43.0	41.7	40.3	38.6	36.5
40	Btu/h	3490	3220	2950	2670	2380	2080
	Watts	270	288	306	323	339	353
	Amps	3.49	3.60	3.71	3.82	3.92	4.03
	Lb/h	49.1	47.8	46.4	44.9	43.0	40.9
45	Btu/h	3850	3550	3250	2950	2630	2300
	Watts	271	292	312	331	349	365
	Amps	3.50	3.63	3.75	3.88	4.00	4.12
	Lb/h	54.5	53.1	51.6	49.9	47.9	45.6
50	Btu/h	4230	3910	3580	3240	2900	2540
	Watts	271	294	317	338	358	376
	Amps	3.49	3.64	3.79	3.93	4.07	4.21
	Lb/h	60.4	58.8	57.2	55.4	53.2	50.7
55	Btu/h	4640	4280	3920	3560	3180	2790
	Watts	267	293	319	343	365	385
	Amps	3.48	3.65	3.81	3.97	4.13	4.29
	Lb/h	66.7	65.1	63.3	61.3	59.1	56.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.273831E+03	2.968001E+02	2.604383E+00	3.782122E+01
C2	4.849367E+01	-3.744706E+00	-3.963687E-03	6.447177E-01
C3	-3.251951E+01	-1.999738E+00	1.211459E-02	-4.978308E-01
C4	8.244594E-01	2.572930E-02	-2.024299E-04	3.179953E-03
C5	-1.824633E-01	4.914697E-02	1.915270E-04	2.631881E-04
C6	2.016427E-01	2.169046E-02	-9.210197E-05	4.481042E-03
C7	2.256426E-04	-6.762964E-04	-2.085992E-06	5.491784E-05
C8	-3.944945E-03	2.716192E-04	2.594576E-06	-1.241534E-05
C9	-1.597923E-04	-1.231473E-04	-3.435632E-07	-8.027455E-06
C10	-6.681037E-04	-6.437204E-05	2.792179E-07	-1.526416E-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

Tc = Condensing Temperature



Performance Data Sheet

AE4425Z-FZ1A

General

Model	AE4425Z-FZ1A	Unit of Measure	Celsius
Condition	EN12900(R-404A)	Voltage/Frequency	240V ~ 50HZ
RETURN GAS	10K (18°F) SUPERHEAT	MotorType	CSIR

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-15	Watts (Capacity)			301	417	236	55.5	173	884
	Watts (Power)	1070	468	198	148	208	268	216	
	Amps			2.31	373	2.59		2.93	1860
	Lb/h	918	295	10.9		10.2	66.7	9.95	
-10	Watts (Capacity)			378	487	299	112	223	926
	Watts (Power)	1080	480	211	164	226	288	238	
	Amps			2.34	373	2.65		3.01	1860
	Lb/h	921	297	13.3		12.6	69.0	12.2	
-6.7	Watts (Capacity)			436	539	346	154	259	957
	Watts (Power)	1080	486	219	173	237	301	253	
	Amps			2.37	373	2.68		3.06	1860
	Lb/h	923	299	15.1		14.3	70.7	13.8	
-5	Watts (Capacity)			468	568	373	177	278	973
	Watts (Power)	1090	489	223	178	243	307	260	
	Amps			2.38	373	2.70		3.08	1860
	Lb/h	924	300	16.1		15.3	71.6	14.7	
0	Watts (Capacity)			573	664	458	252	342	1030
	Watts (Power)	1090	495	232	190	258	325	281	14.0
	Amps			2.41	374	2.75		3.15	1860
	Lb/h	927	303	19.3		18.3	74.6	17.5	
5	Watts (Capacity)		24.5	696	775	557	338	416	1090
	Watts (Power)	1090	498	238	199	270	340	299	35.7
	Amps			2.43	374	2.79		3.22	1860
	Lb/h	931	307	22.9		21.8	77.9	20.7	
7.2	Watts (Capacity)		90.7	757	829	605	381	453	1120
	Watts (Power)	1090	498	240	202	275	346	307	44.5
	Amps			2.43	374	2.81		3.25	1860
	Lb/h	933	309	24.7		23.4	79.5	22.2	
10	Watts (Capacity)		181	839	904	672	439	503	1160
	Watts (Power)	1080	496	240	205	279	353	315	55.0
	Amps			2.44	374	2.83		3.28	1860
	Lb/h	935	311	27.1		25.7	81.6	24.3	
15	Watts (Capacity)		362	1000	1050	805	557	604	1240
	Watts (Power)	1070	490	237	206	284	362	328	71.3
	Amps			2.43	374	2.85		3.33	1860

	Lb/h	940	316	31.9		30.1	85.9	28.3	
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COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-4.641920E+04	1.782370E+04	-1.187050E+05	1.815720E+04
C2	3.912040E+01	-3.576240E+00	-1.245050E-02	7.155430E-01
C3	2.914890E+03	-1.089040E+03	7.320250E+03	-1.118340E+03
C4	6.546890E-01	-1.184140E-01	-3.028530E-04	1.332790E-02
C5	-3.788280E-01	1.328880E-01	4.300230E-04	1.547460E-03
C6	-5.932170E+01	2.213880E+01	-1.483830E+02	2.266650E+01
C7	2.888040E-03	-9.391390E-04	-3.180440E-06	7.777120E-05
C8	-7.504860E-03	1.321110E-03	3.361180E-06	-1.019810E-04
C9	-7.377860E-04	-1.278520E-04	1.573710E-07	-5.912410E-05
C10	3.954920E-01	-1.476870E-01	9.892220E-01	-1.511050E-01

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

Te = Evaporator Temperature

Tc = Condensing Temperature