Performance Data Sheet

AHA2435AXD

General Information

Model	AHA2435AXD	**Refrigerant**	R-12
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	2640	1640	1040	686	457	217	
	Watts	949	654	504	444	422	383	273
	Amps	5.90	5.27	4.93	4.77	4.69	4.58	4.33
	Lb/h	42.4	26.4	16.6	11.0	7.33	3.48	
-35	Btu/h	3190	2150	1500	1110	846	571	154
	Watts	1070	761	598	530	502	462	355
	Amps	6.02	5.37	5.02	4.86	4.78	4.68	4.45
	Lb/h	51.3	34.6	24.1	17.9	13.6	9.17	2.47
-30	Btu/h	3780	2710	2030	1610	1310	1010	564
	Watts	1200	875	700	623	591	551	447
	Amps	6.21	5.55	5.20	5.03	4.96	4.86	4.65
	Lb/h	60.9	43.6	32.6	25.8	21.0	16.2	9.07
-25	Btu/h	4420	3320	2610	2160	1840	1520	1060
	Watts	1340	994	809	725	689	649	550
	Amps	6.48	5.81	5.44	5.27	5.20	5.11	4.92
	Lb/h	71.2	53.4	42.0	34.8	29.6	24.4	17.0
-20	Btu/h	5100	3970	3240	2780	2440	2100	1630
	Watts	1470	1120	923	833	795	755	661
	Amps	6.80	6.12	5.74	5.57	5.50	5.42	5.24
	Lb/h	82.1	64.0	52.2	44.7	39.3	33.8	26.2
-15	Btu/h	5800	4660	3920	3440	3090	2750	2270
	Watts	1620	1250	1040	947	907	869	781
	Amps	7.18	6.47	6.09	5.91	5.85	5.78	5.61
	Lb/h	93.5	75.1	63.1	55.4	49.9	44.3	36.6
-10	Btu/h	6530	5380	4630	4150	3800	3450	2980
	Watts	1760	1380	1170	1070	1020	990	908
	Amps	7.59	6.87	6.48	6.30	6.23	6.17	6.02
	Lb/h	105	86.8	74.7	66.9	61.3	55.7	48.1
-5	Btu/h	7280	6120	5370	4890	4550	4210	3740
	Watts	1910	1520	1290	1190	1150	1120	1040
	Amps	8.03	7.30	6.89	6.71	6.65	6.60	6.46
	Lb/h	117	98.9	86.8	79.0	73.5	68.0	60.5

0	Btu/h	8030	6880	6140	5670	5340	5010	4560
	Watts	2060	1650	1420	1320	1270	1250	1180
	Amps	8.50	7.75	7.33	7.14	7.08	7.04	6.91
	Lb/h	130	111	99.3	91.7	86.3	81.1	73.8
5	Btu/h	8790	7650	6930	6470	6160	5850	5420
	Watts	2210	1790	1560	1450	1410	1380	1330
	Amps	8.97	8.20	7.77	7.58	7.52	7.48	7.37
	Lb/h	142	124	112	105	99.8	94.8	87.9
10	Btu/h	9550	8430	7720	7290	7000	6730	6330
	Watts	2350	1930	1690	1580	1540	1520	1470
	Amps	9.44	8.65	8.21	8.01	7.95	7.92	7.82
	Lb/h	155	137	125	118	114	109	103

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.777262E+04	1.798487E+04	3.909469E+01	7.706356E+02
C2	1.544920E+02	7.402260E+01	1.642212E-01	2.532437E+00
C3	-9.957165E+02	-4.043540E+02	-7.810941E-01	-1.605526E+01
C4	-1.013517E+00	-1.191861E-01	2.349571E-04	-1.517446E-02
C5	-2.101372E-01	-8.578025E-01	-1.362875E-03	-3.382194E-03
C6	8.009467E+00	3.279055E+00	6.377111E-03	1.291454E-01
C7	-8.205557E-03	-1.104377E-03	-1.356405E-05	-1.231548E-04
C8	1.385562E-02	1.559899E-03	-7.100532E-07	2.221527E-04
C9	2.209284E-03	3.800838E-03	6.024711E-06	3.506664E-05
C10	-2.215646E-02	-8.915388E-03	-1.742843E-05	-3.572708E-04

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