Performance Data Sheet

AVA5542EXT

General Information

Model	AVA5542EXT	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	230V 3~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	10800	8800					
	Watts	1770	1720					
	Amps	7.74	7.70					
	Lb/h	140	118					
-10	Btu/h	13700	11500	9650				
	Watts	1900	1880	1860				
	Amps	8.00	8.00	7.98				
	Lb/h	176	154	134				
-5	Btu/h	16800	14400	12400	10600			
	Watts	2030	2040	2050	2050			
	Amps	8.24	8.28	8.31	8.31			
	Lb/h	214	191	171	153			
0	Btu/h	20000	17500	15300	13300	11500		
	Watts	2140	2180	2220	2260	2270		
	Amps	8.47	8.55	8.63	8.69	8.69		
	Lb/h	254	230	209	190	172		
5	Btu/h	23500	20800	18400	16200	14200		
	Watts	2250	2320	2390	2460	2500		
	Amps	8.68	8.80	8.93	9.04	9.11		
	Lb/h	296	272	250	229	211		
10	Btu/h	27200	24300	21700	19300	17100	15000	13000
	Watts	2350	2450	2550	2650	2720	2770	2780
	Amps	8.86	9.03	9.22	9.39	9.52	9.59	9.57
	Lb/h	341	316	293	271	251	232	212
15	Btu/h	31200	28100	25300	22700	20200	17900	15600
	Watts	2430	2560	2700	2820	2930	3010	3050
	Amps	9.02	9.24	9.48	9.71	9.91	10.0	10.1
	Lb/h	388	362	339	316	295	274	253
20	Btu/h	35500	32200	29200	26300	23600	21000	18500
	Watts	2500	2660	2830	2990	3130	3240	3310
	Amps	9.15	9.43	9.72	10.0	10.3	10.5	10.6
	Lb/h	439	413	388	365	342	319	296

25	Btu/h	40200	36700	33400	30200	27200	24400	21600
	Watts	2550	2750	2940	3140	3310	3460	3560
	Amps	9.25	9.58	9.93	10.3	10.6	10.9	11.1
	Lb/h	493	466	441	416	392	368	343
30	Btu/h	45300	41500	37900	34500	31200	28100	25000
	Watts	2580	2810	3040	3270	3480	3650	3790
	Amps	9.32	9.70	10.1	10.5	10.9	11.3	11.6
	Lb/h	552	524	498	472	447	421	394
35	Btu/h	50700	46700	42800	39100	35600	32100	28700
	Watts	2600	2860	3130	3380	3620	3840	4010
	Amps	9.35	9.79	10.3	10.8	11.2	11.7	12.1
	Lb/h	615	586	559	532	506	478	450
40	Btu/h	56600	52300	48200	44200	40300	36500	32700
	Watts	2590	2890	3190	3480	3750	4000	4210
	Amps	9.33	9.84	10.4	10.9	11.5	12.0	12.5
	Lb/h	682	653	625	597	569	540	510
45	Btu/h	63000	58400	53900	49600	45400	41300	37200
	Watts	2560	2890	3220	3550	3860	4140	4380
	Amps	9.28	9.84	10.5	11.1	11.7	12.3	12.9
	Lb/h	754	725	696	667	637	606	574
50	Btu/h	69900	65000	60200	55500	51000	46500	42000
	Watts	2510	2870	3240	3600	3940	4260	4540
	Amps	9.18	9.80	10.5	11.2	11.9	12.6	13.3
	Lb/h	832	802	772	741	710	678	644
55	Btu/h	77300	72000	66900	61900	57000	52200	47300
	Watts	2430	2830	3230	3630	4000	4350	4670
	Amps	9.02	9.72	10.5	11.3	12.1	12.9	13.6
	Lb/h	916	884	853	822	790	756	720

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.344559E+04	3.176192E+03	1.058879E+01	6.040353E+02
C2	8.658597E+02	-2.465224E+01	1.355807E-02	7.516444E+00
C3	-6.077276E+02	-4.068084E+01	-8.557885E-02	-6.803809E+00
C4	6.935925E+00	-2.563580E-01	-7.375143E-04	4.736875E-02
C5	-1.601694E+00	5.709510E-01	-6.668002E-05	2.592976E-02
C6	2.804323E+00	4.891359E-01	1.052613E-03	3.758913E-02
C7	3.999739E-02	-2.141744E-03	-4.093833E-06	4.543648E-04
C8	-2.942422E-02	7.653372E-04	4.432614E-06	-2.543590E-05
C9	-1.070291E-02	2.193041E-04	5.515137E-06	-2.234170E-04
C10	-5.440767E-03	-1.774582E-03	-3.926883E-06	-9.056742E-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