

Model: AVA5542EXT

Product Description

Type:	Reciprocating Compressors
Application:	HBP/AC - Air Conditioning
Refrigerant:	R-22
Voltage/Frequency:	200-230V 3~ 60Hz 200-220V 3~ 50Hz
Version:	N/A



Product Specifications

Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power (I) W	(E) Efficiency			EVAP TEMP	Condition	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		(R) Btu/h	(R) kcal/h	(R) W		(E) Btu/Wh	(E) kcal/Wh	W/W					
ASHRAE (R-22)	220V 3~ 50HZ	36100	9097	10577	3575	10.1	2.54	2.96	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	35°C (95°F)	46°C (115°F)
ASHRAE (R-22)	230V 3~ 60HZ	42500	10710	12453	4130	10.29	2.59	3.02	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	35°C (95°F)	46°C (115°F)

General

Evaporating Temp. Range:	-23.3°C to 12.8°C (-10°F to 55°F)
Motor Torque:	Low Start Torque (LST)
Compressor Cooling:	Fan

Mechanical

Weight:	79
Weight Unit of Measure:	LB
Displacement (cc):	73.271
Oil Type:	Polyolester
Viscosity (cSt):	32
Oil Charge (cc):	1624

Electrical

Voltage Range (50 Hz):	180-242
Voltage Range (60 Hz):	180-254
Locked Rotor Amps (LRA):	74
Rated Load Amps (RLA 50 Hz):	0
Rated Load Amps (RLA 60 Hz):	12
Max. Continuous Current (MCC in Amps):	20.7

Motor Resistance (Ohm) - Main:	1.31
Motor Resistance (Ohm) - Start:	
MotorType:	3PH
Overload Type:	
Relay Type:	

Agency Approval

cURus Recognized

AVA5542EXT

General

Model	AVA5542EXT	Unit of Measure	Fahrenheit
Condition	ASHRAE	Voltage/Frequency	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	150
-15	Btu/h	10800							
	Watts	1770							
	Amps	7.74							
	Lb/h	140							
-10	Btu/h	13700	11500						
	Watts	1900	1880						
	Amps	8.00	8.00						
	Lb/h	176	154						
-5	Btu/h	16800	14400	12400					
	Watts	2030	2040	2050					
	Amps	8.24	8.28	8.31					
	Lb/h	214	191	171					
0	Btu/h	20000	17500	15300	13300				
	Watts	2140	2180	2220	2260				
	Amps	8.47	8.55	8.63	8.69				
	Lb/h	254	230	209	190				
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		
	Watts	2350	2450	2550	2650	2720	2770		
	Amps	8.86	9.03	9.22	9.39	9.52	9.59		
	Lb/h	341	316	293	271	251	232		
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	16000
	Watts	2500	2660	2830	2990	3130	3240	3310	3340
	Amps	9.15	9.43	9.72	10.0	10.3	10.5	10.6	10.7
	Lb/h	439	413	388	365	342	319	296	272
25	Btu/h	40200	36700	33400	30200	27200	24400	21600	18800
	Watts	2550	2750	2940	3140	3310	3460	3560	3620
	Amps	9.25	9.58	9.93	10.3	10.6	10.9	11.1	11.3

	Lb/h	493	466	441	416	392	368	343	317
30	Btu/h	45300	41500	37900	34500	31200	28100	25000	21900
	Watts	2580	2810	3040	3270	3480	3650	3790	3880
	Amps	9.32	9.70	10.1	10.5	10.9	11.3	11.6	11.8
	Lb/h	552	524	498	472	447	421	394	366
35	Btu/h	50700	46700	42800	39100	35600	32100	28700	25300
	Watts	2600	2860	3130	3380	3620	3840	4010	4130
	Amps	9.35	9.79	10.3	10.8	11.2	11.7	12.1	12.4
	Lb/h	615	586	559	532	506	478	450	420
40	Btu/h	56600	52300	48200	44200	40300	36500	32700	29000
	Watts	2590	2890	3190	3480	3750	4000	4210	4360
	Amps	9.33	9.84	10.4	10.9	11.5	12.0	12.5	12.9
	Lb/h	682	653	625	597	569	540	510	477
45	Btu/h	63000	58400	53900	49600	45400	41300	37200	33100
	Watts	2560	2890	3220	3550	3860	4140	4380	4580
	Amps	9.28	9.84	10.5	11.1	11.7	12.3	12.9	13.4
	Lb/h	754	725	696	667	637	606	574	540
50	Btu/h	69900	65000	60200	55500	51000	46500	42000	37600
	Watts	2510	2870	3240	3600	3940	4260	4540	4770
	Amps	9.18	9.80	10.5	11.2	11.9	12.6	13.3	13.9
	Lb/h	832	802	772	741	710	678	644	608
55	Btu/h	77300	72000	66900	61900	57000	52200	47300	42500
	Watts	2430	2830	3230	3630	4000	4350	4670	4930
	Amps	9.02	9.72	10.5	11.3	12.1	12.9	13.6	14.3
	Lb/h	916	884	853	822	790	756	720	682

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