

**Model: AVB5558EXN**
**Product Description**

**Type:** Reciprocating Compressors  
**Application:** HBP/AC - Air Conditioning  
**Refrigerant:** R-22/R-407C  
**Voltage/Frequency:** 208-230V ~ 60Hz 200-220V ~ 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					
ARI (R-22)	230V ~ 60HZ	57500	14490	16848	5480	10.49	2.64	3.07	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	18.3°C (65°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:** 89  
**Weight Unit of Measure:** LB  
**Displacement (cc):** 91.035  
**Oil Type:** Polyolester  
**Viscosity (cSt):** 32  
**Oil Charge (cc):** 1624

**Electrical**

**Voltage Range (50 Hz):** 180-242  
**Voltage Range (60 Hz):** 197-254  
**Locked Rotor Amps (LRA):** 141  
**Rated Load Amps (RLA 50 Hz):** 0  
**Rated Load Amps (RLA 60 Hz):** 24.8  
**Max. Continuous Current (MCC in Amps):** 42  
**Motor Resistance (Ohm) - Main:** .379

Motor Resistance (Ohm) - Start: 1.67

Motor Type: PSC

Overload Type:

Relay Type:

[Agency Approval](#)

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# Performance Data Sheet

## AVB5558EXN

### General

Model	AVB5558EXN	Unit of Measure	Fahrenheit
Condition	ARI(R-22)	Voltage/Frequency	230V ~ 60HZ
RETURN GAS		MotorType	PSC

### Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
		80	90	100	110	120	130	140	150
-15	Btu/h	16100	13800						
	Watts	2360	2320						
	Amps	11.1	11.0						
	Lb/h	209	186						
-10	Btu/h	19800	17500						
	Watts	2580	2570						
	Amps	12.0	12.0						
	Lb/h	255	234						
-5	Btu/h	23600	21300	18900					
	Watts	2780	2800	2820					
	Amps	12.7	12.9	13.0					
	Lb/h	302	283	262					
0	Btu/h	27700	25300	22800	20200				
	Watts	2960	3000	3060	3120				
	Amps	13.4	13.7	14.0	14.2				
	Lb/h	352	334	314	290				
5	Btu/h	32000	29600	27000	24300	21400			
	Watts	3120	3180	3270	3370	3440			
	Amps	14.1	14.5	14.9	15.3	15.5			
	Lb/h	404	387	368	345	319			
10	Btu/h	36600	34100	31400	28500	25500	22400		
	Watts	3250	3350	3470	3600	3710	3790		
	Amps	14.7	15.2	15.8	16.3	16.7	16.9		
	Lb/h	459	443	424	403	377	348		
15	Btu/h	41600	38900	36000	33000	29900	26600	23200	
	Watts	3370	3490	3650	3810	3960	4080	4140	
	Amps	15.2	15.9	16.6	17.3	17.9	18.3	18.4	
	Lb/h	518	502	484	463	438	409	376	
20	Btu/h	47000	44100	41000	37800	34400	30900	27300	23600
	Watts	3470	3620	3800	4000	4190	4350	4460	4500
	Amps	15.7	16.5	17.3	18.2	19.0	19.6	19.9	19.9
	Lb/h	580	565	547	526	501	473	440	403
25	Btu/h	52800	49600	46300	42900	39300	35600	31700	27800
	Watts	3550	3730	3940	4170	4400	4600	4760	4850
	Amps	16.2	17.0	18.0	19.0	20.0	20.8	21.4	21.7

	Lb/h	648	632	614	592	568	539	506	469
30	Btu/h	59000	55600	52100	48300	44500	40500	36400	32100
	Watts	3620	3820	4070	4330	4600	4840	5040	5190
	Amps	16.5	17.5	18.6	19.7	20.9	21.9	22.7	23.3
	Lb/h	720	704	685	663	638	609	576	538
35	Btu/h	65800	62100	58200	54200	50000	45700	41300	36800
	Watts	3670	3900	4180	4480	4780	5060	5310	5500
	Amps	16.9	17.9	19.1	20.4	21.7	22.9	24.0	24.8
	Lb/h	798	781	762	739	713	683	649	611
40	Btu/h	73200	69100	64900	60500	56000	51400	46600	41700
	Watts	3710	3970	4270	4600	4940	5270	5560	5800
	Amps	17.1	18.2	19.5	21.0	22.4	23.9	25.1	26.2
	Lb/h	882	864	843	820	793	762	727	687
45	Btu/h	81100	76700	72100	67300	62400	57400	52200	47000
	Watts	3730	4010	4350	4720	5090	5460	5800	6090
	Amps	17.3	18.5	19.9	21.5	23.1	24.7	26.2	27.5
	Lb/h	973	953	931	906	878	845	809	768
50	Btu/h	89700	84800	79800	74700	69400	63900	58300	52600
	Watts	3740	4050	4420	4820	5230	5640	6020	6360
	Amps	17.5	18.7	20.2	21.9	23.6	25.4	27.1	28.7
	Lb/h	1070	1050	1030	999	969	935	897	854
55	Btu/h	99000	93700	88200	82600	76800	70900	64900	58700
	Watts	3740	4080	4470	4900	5360	5810	6240	6620
	Amps	17.6	18.9	20.4	22.2	24.1	26.1	28.0	29.8
	Lb/h	1180	1150	1130	1100	1070	1030	990	946

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.030000E+04	5.740000E+03	2.080000E+01	4.350000E+02
C2	9.420000E+02	1.610000E+01	1.430000E-01	8.400000E+00
C3	-8.140000E+01	-9.380000E+01	-3.060000E-01	-8.380000E-01
C4	1.100000E+01	-3.930000E-01	1.100000E-04	9.890000E-02
C5	-1.200000E+00	-8.080000E-02	-2.470000E-03	2.110000E-02
C6	-1.050000E+00	1.010000E+00	3.850000E-03	2.200000E-03
C7	5.630000E-02	1.120000E-03	3.870000E-07	6.660000E-04
C8	-7.210000E-02	-2.080000E-04	-1.550000E-05	-5.960000E-04
C9	-1.230000E-03	3.700000E-03	2.990000E-05	9.660000E-06
C10	1.170000E-03	-3.400000E-03	-1.470000E-05	-5.950000E-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