

Model: AGB5546EKZ
Product Description

Type: Reciprocating Compressors
Application: HBP/AC - Air Conditioning
ProductDescription: R-22
Voltage/Frequency: 220V 3~ 60Hz 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					
EN12900	220V 3~ 50HZ	34795	8768	10195	3534	9.85	2.48	2.88	5°C (41°F)	50°C (122°F)	32°C (90°F)	15°C (59°F)	50°C (122°F)

General

Evaporating Temp. Range: -15°C to 15°C (5°F to 59°F)
Motor Torque: High Start Torque (HST)
Compressor Cooling: Fan

Mechanical

Weight: 44
Weight Unit of Measure: KG
Displacement (cc): 90.2
Oil Type: Mineral
Viscosity (cSt): 68
Oil Charge (cc): 1960

Electrical

Voltage Range (50 Hz): 180-253
Voltage Range (60 Hz): 187-264
Locked Rotor Amps (LRA): 99
Rated Load Amps (RLA 50 Hz): 14.2
Rated Load Amps (RLA 60 Hz): 14.5
Max. Continuous Current (MCC in Amps): 0
Motor Resistance (Ohm) - Main: .9

Motor Resistance (Ohm) - Start: .9
Motor Type: 3PH
Overload Type:
Relay Type:

[Agency Approval](#)

CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed

AGB5546EKZ
General

Model	AGB5546EKZ	Unit of Measure	Celsius
Condition	Tecumseh Europe(R-22)	Voltage/Frequency	220V 3~ 50HZ
RETURN GAS		MotorType	3PH

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	3610	3210						
	Watts (Power)	1730	1620						
	Amps	12.1	11.5						
-23.3	Watts (Capacity)	3820	3400	3030					
	Watts (Power)	1810	1710	1610					
	Amps	12.1	11.5	11.0					
-20	Watts (Capacity)	4370	3910	3490	3110	2750			
	Watts (Power)	1940	1880	1810	1750	1700			
	Amps	11.9	11.6	11.2	10.8	10.5			
-15	Watts (Capacity)	5600	5050	4540	4070	3630	3200		
	Watts (Power)	2150	2130	2110	2100	2090	2080		
	Amps	11.8	11.6	11.5	11.3	11.1	11.0		
-10	Watts (Capacity)	7290	6630	6020	5440	4900	4370	3840	
	Watts (Power)	2350	2370	2400	2430	2470	2500	2530	
	Amps	11.7	11.7	11.7	11.8	11.8	11.8	11.9	
-6.7	Watts (Capacity)	8660	7910	7220	6570	5950	5340	4740	4120
	Watts (Power)	2470	2530	2590	2650	2710	2770	2830	2900
	Amps	11.6	11.8	11.9	12.1	12.2	12.4	12.5	12.7
-5	Watts (Capacity)	9440	8650	7920	7220	6560	5910	5260	4600
	Watts (Power)	2540	2610	2680	2760	2830	2910	2990	3060
	Amps	11.6	11.8	12.0	12.2	12.4	12.6	12.8	13.1
0	Watts (Capacity)	12100	11100	10200	9400	8600	7810	7030	6240
	Watts (Power)	2720	2840	2950	3070	3190	3310	3430	3550
	Amps	11.6	12.0	12.3	12.7	13.1	13.4	13.8	14.2
5	Watts (Capacity)	15100	14000	13000	12000	11000	10100	9160	8220
	Watts (Power)	2900	3050	3210	3370	3530	3690	3850	4010
	Amps	11.6	12.2	12.7	13.2	13.7	14.2	14.7	15.2
7.2	Watts (Capacity)	16600	15400	14300	13300	12200	11200	10200	9190
	Watts (Power)	2980	3150	3320	3500	3680	3860	4040	4210
	Amps	11.7	12.3	12.8	13.4	14.0	14.5	15.1	15.7
10	Watts (Capacity)	18700	17400	16200	15000	13900	12700	11600	10500
	Watts (Power)	3070	3270	3460	3660	3860	4070	4270	4460
	Amps	11.7	12.4	13.0	13.7	14.3	15.0	15.6	16.2
15	Watts (Capacity)	22600	21200	19800	18400	17100	15800	14500	13200
	Watts (Power)	3230	3470	3710	3950	4180	4420	4660	4900

	Amps	11.9	12.6	13.4	14.2	14.9	15.7	16.4	17.2
--	------	------	------	------	------	------	------	------	------

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.960000E+04	2.160000E+03	9.250000E+00	
C2	7.620000E+02	-1.570000E+01	-1.910000E-01	
C3	-3.250000E+02	1.430000E+01	8.480000E-02	
C4	1.140000E+01	4.990000E-03	2.590000E-03	
C5	-6.720000E+00	1.750000E+00	6.600000E-03	
C6	2.970000E+00	1.840000E-01	-2.520000E-04	
C7	-3.000000E-16	-2.000000E-16	0.000000E+00	
C8	-7.290000E-02	-4.810000E-03	-5.580000E-05	
C9	8.660000E-03	-7.420000E-04	-5.080000E-06	
C10	-1.740000E-02	-1.170000E-03	1.690000E-06	

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

Te = Evaporator Temperature

Tc = Condensing Temperature