



Model: AGB5553ECZ (AG5553E)

Product Description

Type: Reciprocating
Application: HBP/AC - Air Conditioning
Refrigerant: R-22
Voltage/Frequency: 230V ~ 60Hz 208V ~ 50Hz
Version: N/A

Product Specifications

Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power	Efficiency			EVAP TEMP	COND TEMP	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		Btu/h	kcal/h	W	W	Btu/Wh	kcal/Wh	W/W					
EN12900	230V ~ 60HZ	47171	11887	13821	5504	8.57	2.16	2.51	5°C (41°F)	50°C (122°F)	32°C (90°F)	15°C (59°F)	50°C (122°F)
EN12900	208V ~ 50HZ	40075	10099	11742	4615	8.68	2.19	2.54	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: Low Start Torque (LST)
Compressor Cooling: Fan

Mechanical

Weight: 47
Weight Unit of Measure: KG
Displacement (cc): 100.7
Oil Type: Mineral
Viscosity (cSt): 68
Oil Charge (cc): 1960

Electrical

Voltage Range (50 Hz): 187-230
Voltage Range (60 Hz): 207-253
Locked Rotor Amps (LRA): 137
Rated Load Amps (RLA 50 Hz): 27.6
Rated Load Amps (RLA 60 Hz): 27.5
Max. Continuous Current (MCC in Amps): 0
Motor Resistance (Ohm) - Main: .36
Motor Resistance (Ohm) - Start: 1.96
Motor Type: PSC
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed



Tecumseh

Performance Data Sheet

AGB5553ECZ

General Information

Model	AGB5553ECZ	Refrigerant	R-22
Test Condition	Tecumseh Europe	Performance Test Voltage	208V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	5340	4770						
	Watts (Power)	2670	2530						
	Amps	24.9	23.8						
-23.3	Watts (Capacity)	5470	4890	4370					
	Watts (Power)	2730	2600	2480					
	Amps	24.4	23.5	22.6					
-20	Watts (Capacity)	5920	5300	4740	4220	3730			
	Watts (Power)	2830	2740	2660	2590	2510			
	Amps	23.7	23.0	22.4	21.7	21.1			
-15	Watts (Capacity)	7070	6370	5740	5140	4570	4020		
	Watts (Power)	3000	2970	2950	2940	2920	2910		
	Amps	22.8	22.5	22.2	21.9	21.6	21.4		
-10	Watts (Capacity)	8790	7990	7250	6550	5880	5230	4580	
	Watts (Power)	3180	3210	3250	3290	3340	3380	3430	
	Amps	22.3	22.4	22.4	22.5	22.5	22.6	22.6	
-6.7	Watts (Capacity)	10200	9350	8530	7750	7010	6280	5550	4820
	Watts (Power)	3300	3370	3450	3530	3610	3700	3780	3860
	Amps	22.2	22.4	22.7	23.0	23.2	23.5	23.8	24.1
-5	Watts (Capacity)	11100	10100	9270	8450	7660	6890	6120	5340
	Watts (Power)	3370	3460	3560	3650	3760	3860	3960	4060
	Amps	22.1	22.5	22.9	23.3	23.7	24.1	24.4	24.8
0	Watts (Capacity)	13900	12800	11800	10800	9910	9000	8090	7170
	Watts (Power)	3570	3720	3870	4030	4180	4340	4490	4650
	Amps	22.3	23.0	23.7	24.4	25.1	25.8	26.5	27.2

5	Watts (Capacity)	17400	16100	14900	13700	12600	11500	10500	9380
	Watts (Power)	3790	3990	4190	4400	4610	4820	5030	5240
	Amps	22.8	23.9	24.9	25.9	26.9	27.9	28.9	29.9
7.2	Watts (Capacity)	19000	17700	16400	15200	14000	12800	11600	10500
	Watts (Power)	3890	4110	4340	4570	4800	5040	5270	5500
	Amps	23.2	24.3	25.5	26.6	27.7	28.9	30.0	31.1
10	Watts (Capacity)	21300	19900	18500	17100	15800	14500	13300	12000
	Watts (Power)	4010	4270	4530	4790	5050	5310	5570	5830
	Amps	23.7	25.0	26.3	27.6	28.9	30.2	31.5	32.7
15	Watts (Capacity)	25900	24200	22600	21000	19500	18000	16500	15000
	Watts (Power)	4250	4560	4870	5180	5490	5800	6110	6420
	Amps	24.9	26.5	28.1	29.7	31.2	32.8	34.3	35.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.270000E+04	2.840000E+03	1.780000E+01	
C2	8.390000E+02	-2.510000E+01	-3.210000E-01	
C3	-3.770000E+02	1.840000E+01	1.620000E-01	
C4	1.430000E+01	4.270000E-01	8.340000E-03	
C5	-7.350000E+00	2.260000E+00	1.330000E-02	
C6	3.430000E+00	2.470000E-01	-4.670000E-04	
C7	-3.000000E-16	-2.000000E-16	0.000000E+00	
C8	-9.850000E-02	-6.300000E-03	-5.070000E-05	
C9	1.010000E-02	-9.160000E-04	-9.810000E-06	
C10	-2.010000E-02	-1.570000E-03	3.150000E-06	

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

T_e = Evaporator Temperature

T_c = Condensing Temperature



Tecumseh

Performance Data Sheet

AGB5553ECZ

General Information

Model	AGB5553ECZ	Refrigerant	R-22
Test Condition	Tecumseh Europe	Performance Test Voltage	230V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	PSC

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-25	Watts (Capacity)	6260	5590						
	Watts (Power)	3050	2890						
	Amps	16.2	15.4						
-23.3	Watts (Capacity)	6440	5750	5130					
	Watts (Power)	3110	2970	2830					
	Amps	16.4	15.6	14.9					
-20	Watts (Capacity)	7010	6270	5600	4980	4380			
	Watts (Power)	3230	3130	3040	2960	2870			
	Amps	16.7	16.2	15.7	15.1	14.6			
-15	Watts (Capacity)	8400	7560	6800	6090	5410	4740		
	Watts (Power)	3430	3400	3380	3360	3350	3330		
	Amps	17.4	17.2	16.9	16.7	16.4	16.2		
-10	Watts (Capacity)	10400	9480	8590	7760	6970	6190	5410	
	Watts (Power)	3660	3700	3750	3800	3850	3900	3950	
	Amps	18.3	18.3	18.3	18.4	18.4	18.5	18.5	
-6.7	Watts (Capacity)	12100	11100	10100	9170	8290	7420	6560	5680
	Watts (Power)	3830	3910	4000	4100	4190	4290	4380	4480
	Amps	18.9	19.1	19.4	19.6	19.8	20.1	20.3	20.5
-5	Watts (Capacity)	13100	12000	11000	10000	9060	8140	7230	6300
	Watts (Power)	3920	4030	4140	4260	4370	4490	4610	4730
	Amps	19.2	19.6	19.9	20.2	20.6	20.9	21.3	21.6
0	Watts (Capacity)	16400	15200	13900	12800	11700	10600	9520	8440
	Watts (Power)	4210	4380	4560	4740	4930	5110	5300	5480
	Amps	20.4	21.0	21.7	22.3	22.9	23.6	24.2	24.8

5	Watts (Capacity)	20400	18900	17500	16200	14900	13600	12300	11000
	Watts (Power)	4520	4760	5010	5260	5510	5760	6010	6250
	Amps	21.6	22.6	23.6	24.5	25.4	26.4	27.3	28.3
7.2	Watts (Capacity)	22400	20800	19300	17800	16400	15000	13700	12300
	Watts (Power)	4670	4940	5210	5490	5770	6050	6330	6610
	Amps	22.3	23.4	24.4	25.5	26.6	27.7	28.8	29.9
10	Watts (Capacity)	25000	23300	21700	20100	18600	17000	15600	14100
	Watts (Power)	4860	5170	5480	5800	6110	6430	6750	7060
	Amps	23.1	24.3	25.6	26.9	28.1	29.4	30.7	31.9
15	Watts (Capacity)	30300	28300	26400	24600	22800	21000	19300	17500
	Watts (Power)	5230	5600	5980	6360	6750	7130	7510	7890
	Amps	24.6	26.2	27.8	29.4	31.0	32.6	34.2	35.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.680000E+04	3.340000E+03	1.630000E+01	
C2	9.760000E+02	-2.220000E+01	-1.420000E-01	
C3	-4.450000E+02	2.200000E+01	1.440000E-01	
C4	1.630000E+01	5.520000E-01	2.130000E-03	
C5	-8.530000E+00	2.770000E+00	1.300000E-02	
C6	4.040000E+00	2.850000E-01	-3.510000E-04	
C7	-4.000000E-16	-3.000000E-16	0.000000E+00	
C8	-1.120000E-01	-2.970000E-04	2.720000E-05	
C9	1.190000E-02	-1.180000E-03	-8.470000E-06	
C10	-2.370000E-02	-1.810000E-03	2.430000E-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