

**Model: AGB4546ZTZ**
**Product Description**

<b>Type:</b>	Reciprocating Compressors
<b>Application:</b>	HBP - High Back Pressure
<b>ProductDescription:</b>	R-404A
<b>Voltage/Frequency:</b>	440V 3~ 60Hz 400V 3~ 50Hz
<b>Version:</b>	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	440V 3~ 60HZ	44713	11268	13101	5144	8.69	2.19	2.55	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)
EN12900	400V 3~ 50HZ	37225	9381	10907	3994	9.32	2.35	2.73	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)

**General**

<b>Evaporating Temp. Range:</b>	-6.7°C to 12.8°C (20°F to 55°F)
<b>Motor Torque:</b>	High Start Torque (HST)
<b>Compressor Cooling:</b>	Fan

**Mechanical**

<b>Weight:</b>	45
<b>Weight Unit of Measure:</b>	KG
<b>Displacement (cc):</b>	90.2
<b>Oil Type:</b>	Polyolester
<b>Viscosity (cSt):</b>	32
<b>Oil Charge (cc):</b>	1960

**Electrical**

<b>Voltage Range (50 Hz):</b>	340-440
<b>Voltage Range (60 Hz):</b>	396-499
<b>Locked Rotor Amps (LRA):</b>	42.5
<b>Rated Load Amps (RLA 50 Hz):</b>	7
<b>Rated Load Amps (RLA 60 Hz):</b>	7.2
<b>Max. Continuous Current (MCC in Amps):</b>	0

Motor Resistance (Ohm) - Main:

Motor Resistance (Ohm) - Start:

Motor Type: 3PH

Overload Type:

Relay Type:

#### Agency Approval

---

CCC Listed, CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed, IRAM Listed, SASO Listed, VDE Listed

## Performance Data Sheet

### AGB4546ZTZ

### General

Model	AGB4546ZTZ	Unit of Measure	Celsius
Condition	EN12900(R-404A)	Voltage/Frequency	400V 3~ 50HZ
RETURN GAS		MotorType	3PH

### Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-6.7	Watts (Capacity)	9390	8440	7490	6550	5620	4720	3850	3030
	Watts (Power)	2960	3060	3140	3200	3230	3230	3200	3120
	Amps	5.43	5.57	5.67	5.73	5.76	5.75	5.71	5.62
-5	Watts (Capacity)	10200	9160	8140	7140	6150	5190	4260	3360
	Watts (Power)	3040	3150	3250	3320	3370	3390	3370	3320
	Amps	5.55	5.71	5.83	5.91	5.96	5.97	5.94	5.87
0	Watts (Capacity)	12700	11500	10300	9080	7890	6720	5570	4470
	Watts (Power)	3290	3430	3560	3670	3760	3830	3870	3860
	Amps	5.91	6.12	6.29	6.43	6.53	6.59	6.61	6.60
5	Watts (Capacity)	15600	14200	12800	11300	9900	8490	7110	5760
	Watts (Power)	3530	3690	3850	4000	4130	4240	4320	4380
	Amps	6.25	6.51	6.73	6.92	7.08	7.19	7.27	7.31
7.2	Watts (Capacity)	17100	15500	14000	12400	10900	9360	7860	6390
	Watts (Power)	3630	3800	3970	4130	4280	4410	4520	4590
	Amps	6.39	6.67	6.92	7.14	7.31	7.45	7.55	7.62
10	Watts (Capacity)	19000	17300	15600	13900	12200	10500	8890	7270
	Watts (Power)	3760	3940	4130	4300	4470	4620	4750	4860
	Amps	6.57	6.88	7.16	7.40	7.61	7.78	7.91	8.00
15	Watts (Capacity)	22800	20900	18900	16900	14900	12900	11000	9030
	Watts (Power)	3990	4190	4400	4600	4800	4990	5160	5310
	Amps	6.87	7.24	7.57	7.87	8.13	8.35	8.53	8.68

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.950000E+04	2.540000E+03	3.880000E+00	
C2	7.920000E+02	3.630000E+01	5.240000E-03	
C3	-2.020000E+02	1.540000E+01	8.970000E-02	
C4	1.150000E+01	2.670000E-01	-3.360000E-04	
C5	-7.870000E+00	-1.780000E-01	2.130000E-03	
C6	-1.120000E+00	5.290000E-01	-7.360000E-04	
C7	4.350000E-02	6.190000E-03	0.000000E+00	
C8	-1.190000E-01	-1.550000E-02	0.000000E+00	
C9	-1.000000E-02	1.920000E-02	0.000000E+00	
C10	1.030000E-02	-6.960000E-03	0.000000E+00	

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

Te = Evaporator Temperature

$T_c$  = Condensing Temperature

## Performance Data Sheet

### AGB4546ZTZ

### General

Model	AGB4546ZTZ	Unit of Measure	Celsius
Condition	EN12900(R-404A)	Voltage/Frequency	440V 3~ 60HZ
RETURN GAS		Motor Type	3PH

### Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-6.7	Watts (Capacity)	11500	10400	9220	8060	6900	5750	4600	3470
	Watts (Power)	3840	3930	3990	4010	4000	3960	3880	3770
	Amps	5.97	6.12	6.24	6.31	6.34	6.33	6.27	6.18
-5	Watts (Capacity)	12400	11200	9990	8770	7550	6330	5120	3920
	Watts (Power)	3960	4070	4140	4190	4200	4170	4110	4020
	Amps	6.11	6.28	6.41	6.50	6.55	6.56	6.53	6.46
0	Watts (Capacity)	15300	13900	12500	11000	9590	8160	6730	5320
	Watts (Power)	4300	4450	4580	4680	4750	4780	4770	4730
	Amps	6.50	6.73	6.92	7.07	7.17	7.24	7.27	7.26
5	Watts (Capacity)	18600	17000	15300	13600	11900	10200	8520	6850
	Watts (Power)	4600	4810	4990	5140	5260	5350	5400	5420
	Amps	6.87	7.16	7.41	7.61	7.78	7.91	7.99	8.04
7.2	Watts (Capacity)	20200	18400	16600	14800	13000	11200	9370	7580
	Watts (Power)	4730	4960	5160	5340	5480	5590	5670	5710
	Amps	7.03	7.34	7.61	7.85	8.04	8.19	8.30	8.37
10	Watts (Capacity)	22400	20400	18500	16500	14500	12500	10500	8550
	Watts (Power)	4870	5140	5370	5570	5750	5890	6000	6080
	Amps	7.22	7.57	7.87	8.14	8.37	8.55	8.69	8.80
15	Watts (Capacity)	26700	24400	22000	19700	17400	15100	12800	10500
	Watts (Power)	5110	5430	5710	5970	6200	6400	6570	6710
	Amps	7.56	7.96	8.33	8.65	8.93	9.18	9.38	9.54

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.310000E+04	2.750000E+03	4.270000E+00	
C2	9.150000E+02	8.600000E+00	5.770000E-03	
C3	-2.310000E+02	6.700000E+01	9.860000E-02	
C4	1.290000E+01	-6.750000E-01	-3.690000E-04	
C5	-9.810000E+00	1.710000E+00	2.340000E-03	
C6	-1.210000E+00	-4.780000E-01	-8.100000E-04	
C7	4.780000E-02	-6.990000E-04	0.000000E+00	
C8	-1.570000E-01	1.200000E-03	0.000000E+00	
C9	3.430000E-03	4.930000E-03	0.000000E+00	
C10	8.540000E-03	-1.280000E-03	0.000000E+00	

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

Te = Evaporator Temperature

$T_c$  = Condensing Temperature