

**Model: AGB4568TZ**
**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	63823	16083	18700	7456	8.56	2.16	2.51	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)
EN12900	400V 3~ 50HZ	53253	13420	15603	5693	9.35	2.36	2.74	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>	48
<b>Weight Unit of Measure:</b>	KG
<b>Displacement (cc):</b>	124.4
<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>	58
<b>Rated Load Amps (RLA 50 Hz):</b>	10.5
<b>Rated Load Amps (RLA 60 Hz):</b>	11.5
<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

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



## Performance Data Sheet

AGB4568ZTZ

### General

Model	AGB4568ZTZ	Unit of Measure	Celsius
Condition	EN12900(R-404A)	Voltage/Frequency	400V 3~ 50HZ
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)	13400	12200	11100	9910	8740	7560	6380	5200
	Watts (Power)	4150	4290	4430	4570	4690	4800	4880	4930
	Amps	6.95	7.15	7.33	7.49	7.62	7.72	7.80	7.86
-5	Watts (Capacity)	14400	13100	11900	10700	9460	8210	6960	5710
	Watts (Power)	4290	4430	4580	4730	4870	5010	5110	5190
	Amps	7.12	7.35	7.55	7.73	7.88	8.01	8.11	8.19
0	Watts (Capacity)	17600	16100	14700	13300	11800	10300	8820	7330
	Watts (Power)	4710	4850	5020	5210	5400	5590	5770	5940
	Amps	7.62	7.92	8.19	8.43	8.65	8.85	9.02	9.16
5	Watts (Capacity)	21300	19600	17900	16200	14400	12700	10900	9170
	Watts (Power)	5190	5320	5490	5700	5920	6160	6400	6650
	Amps	8.12	8.48	8.82	9.13	9.42	9.68	9.91	10.1
7.2	Watts (Capacity)	23000	21200	19400	17600	15700	13800	12000	10100
	Watts (Power)	5420	5540	5710	5920	6160	6410	6680	6950
	Amps	8.33	8.72	9.09	9.43	9.75	10.0	10.3	10.5
10	Watts (Capacity)	25500	23500	21500	19500	17500	15400	13400	11300
	Watts (Power)	5740	5850	6010	6220	6460	6730	7030	7330
	Amps	8.60	9.03	9.44	9.82	10.2	10.5	10.8	11.1
15	Watts (Capacity)	30300	28000	25600	23300	20900	18500	16100	13700
	Watts (Power)	6380	6460	6600	6800	7040	7330	7660	8010
	Amps	9.08	9.58	10.1	10.5	10.9	11.3	11.7	12.0

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.550000E+04	4.790000E+03	5.310000E+00	
C2	9.530000E+02	1.520000E+02	1.930000E-02	
C3	-2.440000E+02	-4.110000E+01	9.230000E-02	
C4	1.400000E+01	2.740000E+00	-1.540000E-04	
C5	-8.330000E+00	-3.780000E+00	2.680000E-03	
C6	-8.020000E-01	1.600000E+00	-5.090000E-04	
C7	5.920000E-02	2.600000E-02	0.000000E+00	
C8	-1.470000E-01	-5.490000E-02	0.000000E+00	
C9	-1.590000E-02	5.640000E-02	0.000000E+00	
C10	3.910000E-03	-1.070000E-02	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



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### General

Model	AGB4568ZTZ	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)	16400	15100	13700	12300	10800	9340	7780	6150
	Watts (Power)	5460	5630	5790	5930	6030	6080	6070	5970
	Amps	8.50	8.70	8.87	9.02	9.13	9.22	9.28	9.32
-5	Watts (Capacity)	17600	16200	14700	13200	11700	10100	8490	6750
	Watts (Power)	5640	5820	6000	6160	6280	6360	6380	6320
	Amps	8.76	8.98	9.18	9.34	9.48	9.59	9.68	9.73
0	Watts (Capacity)	21100	19500	17900	16200	14500	12700	10700	8720
	Watts (Power)	6200	6390	6600	6810	7000	7150	7260	7300
	Amps	9.53	9.82	10.1	10.3	10.5	10.7	10.8	11.0
5	Watts (Capacity)	24700	23000	21200	19400	17400	15400	13200	10900
	Watts (Power)	6770	6980	7210	7450	7690	7900	8080	8210
	Amps	10.3	10.7	11.0	11.3	11.5	11.8	12.0	12.2
7.2	Watts (Capacity)	26300	24600	22700	20800	18800	16600	14300	11900
	Watts (Power)	7030	7240	7480	7730	7990	8220	8430	8600
	Amps	10.6	11.0	11.4	11.7	12.0	12.3	12.5	12.7
10	Watts (Capacity)	28400	26600	24700	22600	20500	18200	15800	13300
	Watts (Power)	7380	7590	7830	8090	8370	8630	8870	9080
	Amps	11.1	11.5	11.9	12.2	12.6	12.9	13.2	13.4
15	Watts (Capacity)	32200	30200	28100	26000	23600	21100	18500	15700
	Watts (Power)	8040	8230	8470	8750	9040	9350	9640	9910
	Amps	11.9	12.3	12.8	13.2	13.6	14.0	14.3	14.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.040000E+04	6.070000E+03	7.220000E+00	
C2	7.890000E+02	1.500000E+02	7.550000E-02	
C3	-3.260000E+02	-4.720000E+01	9.360000E-02	
C4	1.710000E+00	1.940000E+00	6.190000E-05	
C5	3.600000E-01	-2.860000E+00	2.620000E-03	
C6	1.040000E+00	2.310000E+00	-5.550000E-04	
C7	-9.920000E-02	1.810000E-02	0.000000E+00	
C8	4.420000E-02	-4.890000E-02	0.000000E+00	
C9	-9.330000E-02	5.320000E-02	0.000000E+00	
C10	-1.780000E-02	-1.990000E-02	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