

Model: AGB4573ZTZ
Product Description

Type:	Reciprocating Compressors
Application:	HBP - High Back Pressure
ProductDescription:	R-404A
Voltage/Frequency:	440V 3~ 60Hz 400V 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	440V 3~ 60HZ	68553	17275	20086	7831	8.75	2.21	2.56	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)
EN12900	400V 3~ 50HZ	57130	14397	16739	6526	8.75	2.21	2.56	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)

General

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

Mechanical

Weight:	49
Weight Unit of Measure:	KG
Displacement (cc):	135
Oil Type:	Polyolester
Viscosity (cSt):	32
Oil Charge (cc):	1960

Electrical

Voltage Range (50 Hz):	340-440
Voltage Range (60 Hz):	396-499
Locked Rotor Amps (LRA):	61
Rated Load Amps (RLA 50 Hz):	10.7
Rated Load Amps (RLA 60 Hz):	13.4
Max. Continuous Current (MCC in Amps):	0

Motor Resistance (Ohm) - Main: 2.2
Motor Resistance (Ohm) - Start: 2.2
Motor Type: 3PH
Overload Type:
Relay Type:

Agency Approval

CCC Listed, CE Listed, GOST RUSSIA Listed, GOST UKRAINE Listed, IRAM Listed, SASO Listed, UL Recognized, cURus Recognized



Performance Data Sheet

AGB4573ZTZ

General

Model	AGB4573ZTZ	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)	14300	13100	11900	10600	9310	7980	6660	5340
	Watts (Power)	4690	4870	5010	5110	5180	5210	5200	5140
	Amps	8.05	8.31	8.52	8.68	8.79	8.85	8.86	8.83
-5	Watts (Capacity)	15400	14100	12800	11400	10100	8660	7240	5830
	Watts (Power)	4850	5040	5190	5320	5400	5440	5450	5400
	Amps	8.28	8.56	8.79	8.97	9.10	9.18	9.22	9.20
0	Watts (Capacity)	18800	17300	15800	14200	12500	10800	9120	7410
	Watts (Power)	5300	5540	5750	5920	6050	6140	6190	6190
	Amps	8.96	9.31	9.60	9.84	10.0	10.2	10.3	10.3
5	Watts (Capacity)	22800	21100	19200	17300	15300	13300	11300	9250
	Watts (Power)	5750	6050	6300	6520	6700	6840	6940	6990
	Amps	9.67	10.1	10.4	10.7	11.0	11.2	11.3	11.4
7.2	Watts (Capacity)	24800	22900	20900	18800	16700	14500	12400	10100
	Watts (Power)	5950	6270	6550	6790	6990	7150	7270	7350
	Amps	9.99	10.4	10.8	11.1	11.4	11.6	11.8	12.0
10	Watts (Capacity)	27400	25300	23100	20900	18600	16200	13800	11400
	Watts (Power)	6200	6550	6860	7130	7360	7550	7700	7800
	Amps	10.4	10.9	11.3	11.6	12.0	12.2	12.4	12.6
15	Watts (Capacity)	32600	30200	27600	25000	22300	19500	16700	13900
	Watts (Power)	6650	7050	7410	7740	8020	8270	8470	8620
	Amps	11.2	11.7	12.2	12.6	13.0	13.3	13.6	13.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.560000E+04	3.240000E+03	5.870000E+00	
C2	1.020000E+03	2.890000E+01	6.660000E-02	
C3	-1.460000E+02	8.380000E+01	1.330000E-01	
C4	1.540000E+01	-3.260000E-01	4.330000E-04	
C5	-7.970000E+00	2.130000E+00	2.430000E-03	
C6	-3.170000E+00	-4.270000E-01	-9.950000E-04	
C7	6.360000E-02	-1.310000E-03	0.000000E+00	
C8	-1.590000E-01	8.970000E-03	0.000000E+00	
C9	-3.830000E-02	-2.090000E-03	0.000000E+00	
C10	1.710000E-02	-2.520000E-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



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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)	17200	15800	14400	12800	11300	9680	8080	6500
	Watts (Power)	5650	5860	6030	6160	6240	6280	6270	6200
	Amps	8.84	9.13	9.36	9.54	9.66	9.73	9.74	9.70
-5	Watts (Capacity)	18500	17000	15500	13800	12200	10500	8770	7080
	Watts (Power)	5830	6060	6260	6400	6510	6560	6570	6520
	Amps	9.09	9.40	9.66	9.86	10.0	10.1	10.1	10.1
0	Watts (Capacity)	22700	20900	19000	17100	15100	13100	11000	8960
	Watts (Power)	6380	6670	6920	7120	7280	7390	7450	7460
	Amps	9.85	10.2	10.5	10.8	11.0	11.2	11.3	11.3
5	Watts (Capacity)	27500	25300	23100	20800	18500	16000	13600	11100
	Watts (Power)	6920	7270	7580	7850	8070	8240	8350	8420
	Amps	10.6	11.1	11.5	11.8	12.1	12.3	12.5	12.6
7.2	Watts (Capacity)	29800	27500	25100	22600	20100	17500	14900	12200
	Watts (Power)	7160	7540	7870	8170	8410	8610	8750	8840
	Amps	11.0	11.5	11.9	12.2	12.5	12.8	13.0	13.1
10	Watts (Capacity)	32900	30400	27800	25100	22300	19500	16600	13700
	Watts (Power)	7460	7870	8250	8570	8860	9090	9270	9390
	Amps	11.4	11.9	12.4	12.8	13.1	13.4	13.7	13.9
15	Watts (Capacity)	39200	36200	33200	30000	26800	23400	20100	16700
	Watts (Power)	7990	8470	8910	9300	9650	9940	10200	10400
	Amps	12.3	12.8	13.4	13.8	14.2	14.6	14.9	15.1

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.080000E+04	3.890000E+03	6.450000E+00	
C2	1.220000E+03	3.470000E+01	7.330000E-02	
C3	-1.750000E+02	1.010000E+02	1.460000E-01	
C4	1.850000E+01	-3.910000E-01	4.770000E-04	
C5	-9.560000E+00	2.550000E+00	2.670000E-03	
C6	-3.810000E+00	-5.120000E-01	-1.090000E-03	
C7	7.630000E-02	-1.570000E-03	0.000000E+00	
C8	-1.910000E-01	1.080000E-02	0.000000E+00	
C9	-4.590000E-02	-2.510000E-03	0.000000E+00	
C10	2.050000E-02	-3.020000E-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

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