



## High Performance Roots Vacuum Pumps For Industrial Automation 0.52-183.9m<sup>3</sup>/min Flow range

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: ZG
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



### Product Specification

- Flow Range: 0.52-183.9m<sup>3</sup>/min
- Material: HT250
- Models: ZG
- Vacuum Degree: -9.8kPa~-50kPa
- Highlight: industrial roots vacuum pumps,  
industrial roots type vacuum pump,  
automation roots vacuum pumps



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## Product Description

# High-Performance Roots Vacuum Pump for Industrial Automation

## Product Features

### Product Overview

This versatile rotary lobe vacuum pump is designed to meet the diverse vacuum requirements of modern packaging operations. Featuring a flexible, high-performance roots-type design, this vacuum system can be seamlessly integrated into a wide range of packaging processes, from food and medical product sealing to material handling and industrial automation. With its robust construction and advanced features, this vacuum pump delivers reliable, energy-efficient performance even in demanding, high-throughput packaging environments.

### Key Technical Features

#### Flexible Vacuum Performance

Wide operating range accommodates diverse packaging application needs  
Rapid response to changes in vacuum demand enables precise process control  
Scalable models available to match specific flow and pressure requirements

#### Energy-Efficient Operation

Optimized aerodynamic design and premium drive components minimize energy use  
Variable frequency drive allows fine-tuned control of vacuum generation  
Intelligent control system monitors and optimizes efficiency in real-time

#### Hygienic, Sanitary Design

Smooth, crevice-free surfaces and advanced sealing minimize product contamination  
Materials and construction comply with food, pharmaceutical, and other sanitary standards  
Easy cleaning and sterilization enable use in sensitive packaging applications

#### Reliable, Low-Maintenance Operation

Robust, oil-free rotary lobe pump design provides long service life  
Minimal moving parts and automated lubrication system reduce maintenance needs  
Durable construction resists the effects of dust, debris, and other environmental stresses

### Key Advantages

Flexible performance to handle diverse vacuum packaging and material handling processes  
Highly efficient, energy-saving operation to minimize operating costs  
Hygienic, sanitary design supports use in sensitive food, medical, and other applications  
Reliable, low-maintenance operation reduces downtime and service requirements

## Scope of application

It is suitable for sewage treatment industry, petrochemical industry, food and drug industry, textile industry, metallurgy industry, cement and construction materials industry, printing and dyeing industry and other industries.

## Market Distribution

We have 42 offices throughout the country, in addition to Taiwan Province, 33 provinces in the country's administrative regions have a sound sales and service network. We can provide you with pre-sale, in-sale and after-sales service in a timely and convenient manner, understand your needs, and constantly improve the service and quality system while meeting the customized needs of customers.

## High Performance Aerodynamic Design Methodology for Wide Service Conditions

By studying the influence of impeller and volute flow on efficiency and working stability, the R&D team proposed a flow control method and a pneumatic optimization design method to improve the performance of the main engine, which greatly improved the efficiency of the main engine.

## Manufacturing & Equipment Base

has built laboratories, R&D buildings, processing workshops, etc., with internationally advanced and China leading high-precision processing equipment.



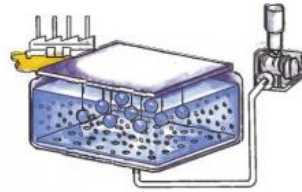
## Examples of uses



■水泡浴 Foaming in Bath



■燃烧炉  
Combustion a Fireplace



■电镀槽搅拌  
Stirring in Plated Vessel



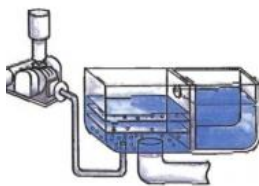
■公寓大楼的污水处理（曝气）  
Waste water Aeration in Condominiums



■工厂废水和畜产废水处理（曝气）  
Waste Water Aeration for Shop and  
Livestock Industries



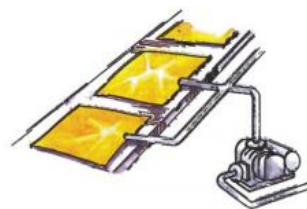
■养鱼用 Fish Care



■冲洗 Back Washing



■粉体输送（水泥、饲料、小片状物）  
Transport of Particles



■食品真空包装  
Vacuum Pack for Foods





## ZG 系列罗茨真空泵性能表

ZG Series Roots Type Vacuum Pump Performance Data

真空泵 型号 Model	转速 rpm r/min	理论流量 Theoretical Capacity m³/min	各真空度下的进口流量Qs(m³/min)、轴功率La(kW)及所配电机功率Po(kW) Inlet Flow Qs (m³/min), Shaft Power La (kW) and Motor Power Po (kW)															电机 极数 Motor Pole			
			-9.8kPa					-19.6kPa			-29.4kPa			-39.2kPa			-49kPa				
			Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po				
ZG-50V	n	Qth	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	4			
	1450	1.68	1.09	0.57	1.1	0.80	0.85	1.1	0.52	1.12	1.5	0.88	1.87	2.2				4			
	2000	2.32	1.73	0.73	1.1	1.44	1.11	1.5	1.16	1.49	2.2	0.88	1.87	2.2				4			
	2500	2.9	2.31	0.92	1.1	2.02	1.40	2.2	1.74	1.87	2.2	1.46	2.34	3				2			
	3000	3.48	2.89	1.17	1.5	2.60	1.74	2.2	2.32	2.31	3	2.04	2.87	4				2			
	3500	4.06	3.47	1.46	2.2	3.18	2.13	3	2.90	2.79	4	2.62	3.45	4	2.29	4.12	5.5	2			
	4000	4.64	4.05	1.76	2.2	3.76	2.52	3	3.48	3.27	4	3.20	4.03	5.5	2.87	4.79	5.5	2			
ZG-65V	4500	5.22	4.63	2.05	3	4.34	2.91	4	4.06	3.76	5.5	3.78	4.61	5.5	3.45	5.46	7.5	2			
	5000	5.8	5.21	2.25	3	4.91	3.19	4	4.64	4.14	5.5	4.36	5.09	7.5	4.03	6.04	7.5	2			
	1450	2.83	2.00	0.76	1.1	1.59	1.22	1.5	1.20	1.69	2.2							4			
	2000	3.9	3.07	0.99	1.1	2.66	1.62	2.2	2.28	2.26	3	1.88	2.90	4				4			
	2500	4.88	4.05	1.35	1.5	3.63	2.14	3	3.25	2.94	4	2.85	3.74	5.5				2			
	3000	5.85	5.02	1.66	2.2	4.61	2.61	3	4.23	3.57	4	3.83	4.52	5.5	3.38	5.48	7.5	2			
	3500	6.83	6.00	2.17	3	5.58	3.28	4	5.20	4.40	5.5	4.80	5.51	7.5	4.35	6.63	7.5	2			
ZG-80V	4000	7.8	6.97	2.42	3	6.56	3.70	5.5	6.18	4.97	5.5	5.78	6.25	7.5	5.33	7.52	11	2			
	4500	8.78	7.95	3.08	4	7.53	4.52	5.5	7.15	5.95	7.5	6.75	7.39	11	6.30	8.82	11	2			
	5000	9.75	8.92	3.64	4	8.51	5.24	7.5	8.13	6.83	7.5	7.73	8.42	11	7.28	10.02	11	2			
	2000	7.27	5.94	1.88	2.2	5.31	3.07	4	4.76	4.25	5.5	4.21	5.44	7.5				4			
	2300	8.37	7.05	2.36	3	6.44	3.72	5.5	5.89	5.09	7.5	5.35	6.45	7.5				2			
	2500	9.09	7.80	2.78	4	7.19	4.26	5.5	6.65	5.74	7.5	6.11	7.22	11	5.52	8.70	11	2			
	2800	10.2	8.91	3.26	4	8.31	4.92	5.5	7.78	6.57	7.5	7.24	8.23	11	6.66	9.89	11	2			
ZG-100V	3000	10.9	9.66	3.78	5.5	9.06	5.55	7.5	8.53	7.33	11	8.00	9.10	11	7.42	10.88	15	2			
	3300	12.0	10.8	4.45	5.5	10.2	6.41	7.5	9.67	8.36	11	9.14	10.31	15	8.57	12.27	15	2			
	3500	12.7	11.5	5.17	7.5	10.9	7.24	11	10.4	9.32	11	9.90	11.39	15	9.33	13.46	15	2			
	3800	13.3	12.6	5.95	7.5	12.1	8.20	11	11.6	10.43	15	11.0	12.70	15	10.5	14.95	18.5	2			
	4000	14.6	13.4	6.37	7.5	12.8	8.74	11	12.3	11.10	15	11.8	13.47	15	11.2	15.84	18.5	2			
	2000	10.9	9.04	2.58	3	8.14	4.35	5.5	7.35	6.13	7.5	6.55	7.90	11				4			
	2300	12.6	10.7	3.14	4	9.83	5.18	7.5	9.05	7.22	11	8.26	9.27	11				2			
ZG-125V	2500	13.6	11.8	3.72	5.5	11.0	5.94	7.5	10.2	8.16	11	9.41	10.38	15	8.55	12.60	15	2			
	2800	15.3	13.5	4.39	5.5	12.7	6.87	11	11.9	9.36	11	11.1	11.84	15	10.3	14.33	18.5	2			
	3000	16.4	14.6	5.06	7.5	13.8	7.73	11	13.0	10.39	15	12.3	13.05	15	11.4	15.72	18.5	2			
	3300	18.0	16.3	6.33	7.5	15.5	9.26	11	14.7	12.19	15	14.0	15.12	18.5	13.2	18.05	22	2			
	3500	19.1	17.4	7.31	11	16.6	10.41	15	15.9	13.32	15	15.1	16.63	18.5	14.3	19.73	22	2			
	3800	20.7	19.1	8.57	11	18.3	11.95	15	17.6	15.32	18.5	16.8	18.69	22	16.0	22.07	30	2			
	4000	21.8	20.2	9.55	11	19.4	13.10	15	18.7	16.63	18.5	18.0	20.20	22	17.2	23.75	30	2			
ZG-150V	1150	12.5	10.0	3.45	4	8.8	5.50	7.5	7.8	7.54	11	6.8	9.59	11				4			
	1450	15.8	13.3	4.6	5.5	12.1	7.2	11	11.1	9.8	11	10.1	12.3	15				4			
	1750	19.1	16.6	5.82	7.5	15.5	8.93	11	14.5	12.05	15	13.4	15.17	18.5	12.3	18.28	22	4			
	2000	21.8	19.4	7.2	11	18.2	10.7	15	17.2	14.3	18.5	16.2	17.9	22	15.1	21.4	30	4			
	2300	25	22.7	8.80	11	21.6	12.89	15	20.6	16.99	22	19.6	21.08	30	18.5	25.18	30	2			
	2600	28.3	26.0	10.3	15	24.9	15.0	18.5	23.9	19.6	22	23.0	24.2	30	21.9	28.9	37	2			
	2800	30.5	28.2	11.49	15	27.1	16.47	18.5	26.2	21.46	30	25.2	26.45	30	24.2	31.43	37	2			
ZG-200V	3000	32.7	30.4	12.5	15	29.3	17.9	22	28.4	23.2	30	27.5	28.6	37	26.4	33.9	37	2			

进口流量是指在各真空度下,进口温度为20℃,出口为绝压101.325kPa的进口空气流量  
Performance based on inlet air at standard temperature of 20℃,and discharge at an ambient pressure of 101.325kPa.



## ZG 系列罗茨真空泵性能表

ZG Series Roots Type Vacuum Pump Performance Data

真空泵 型号 Model	转速 rpm r/min	理论流量 Theoretical Capacity m³/min	各真空度下的进口流量Qs(m³/min)、轴功率La(kW)及所配电机功率Po(kW) Inlet Flow Qs (m³/min), Shaft Power La (kW) and Motor Power Po (kW)															电机 极数 Motor Pole										
			-9.8kPa					-19.6kPa					-29.4kPa						-39.2kPa					-49kPa				
			Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po		Qs	La	Po							
ZG-150V	n	Qth	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	Qs	La	Po	4							
	1150	20.1	16.2	5.5	7.5	14.5	8.8	11	12.9	12.0	15	11.4	15.3	18.5							4							
	1450	25.3	21.6	6.8	7.5	19.9	11.0	15	18.4	15.1	18.5	16.9	19.2	22							4							
	1750	30.5	27.0	8.4	11	25.3	13.4	15	23.9	18.4	22	22.4	23.4	30	20.8	28.3	37				4							
	2000	34.9	31.4	11.3	15	29.8	17.0	18.5	28.4	22.7	30	27.0	28.4	37	25.5	34.1	37				4							
	2300	40.1	36.8	14.2	18.5	35.2	20.7	30	33.9	27.3	30	32.5	33.8	37	31.0	40.4	45				2							
	2600	45.3	42.1	16.8	18.5	40.6	24.2	30	39.3	31.6	37	38.0	39.0	45	36.5	46.4	55				2							
ZG-175V	2800	48.8	45.7	18.6	22	44.2	26.6	30	42.9	34.5	45	41.7	42.5	55	40.2	50.5	55				2							
	3000	52.3	49.3	20.2	22	47.8	28.7	37	46.6	37.3	45	45.3	45.8	55	43.9	54.3	75				2							
	1150	27.14	23.4	7.0	11	21.5	11.5	15	19.7	15.9	18.5	17.9	20.3	30	15.9	24.8	30				4							
	1450	34.22	30.4	8.8	11	28.6	14.4	18.5	26.8	20.0	22	25.0	25.6	30	23.0	31.2	37				4							
	1750	41.3	37.5	11.4	15	35.6	18.1	22	33.9	24.9	30	32.1	31.6	37	30.1	38.3	45				4							
	2000	47.2	43.4	14.7	18.5	41.5	22.4	30	39.8	30.1	37	38.0	37.9	45	36.0	45.6	55				4							
	2300	54.28	50.5	18.2	22	48.6	27.0	30	46.9	35.9	45	45.1	44.8	55	43.0	53.7	75				2							
ZG-300V	2600	61.36	57.6	21.0	30	55.7	31.1	37	54.0	41.1	45	52.2	51.1	75	50.1	61.1	75				2							
	2800	66.08	62.3	23.8	30	60.4	34.6	45	58.7	45.5	55	56.9	56.2	75	54.8	67.0	75				2							
	3000	70.8	67.0	25.6	30	65.1	37.1	45	63.4	48.7	55	61.6	60.3	75	59.6	71.9	90				2							
	970	44.0	38.3	9.9	11	35.7	17.1	22	33.3	24.3	30	30.9	31.5	37							4							
	1250	56.7	51.2	14.2	18.5	48.6	23.5	30	46.3	32.7	37	44.0	42.0	55	41.4	51.3	75				4							
	1450	65.8	60.4	18.0	22	57.9	28.7	37	55.6	39.5	45	53.3	50.2	55	50.8	61.0	75				4							
	1600	72.6	67.3	21.5	30	64.8	33.3	37	62.6	45.2	55	60.3	57.1	75	57.8	69.0	75				4							
ZG-250V	1750	79.3	74.2	25.6	30	71.7	38.6	45	69.5	51.6	75	67.3	64.5	75	64.9	77.5	90				4							
	1900	86.1	81.1	30.7	37	78.6	44.8	55	76.5	58.9	75	74.3	73.0	90	71.9	87.1	110				4							
	2050	92.9	88.0	35.2	45	85.6	50.4	55	83.5	65.6	75	81.3	80.0	90	78.9	96.1	110				4							
	970	56.0	49.5	12.7	15	46.4	21.8	30	43.8	31.0	37	41.2	40.2	45	38.3	49.4	55				4							
	1250	72.2	65.9	19.4	22	62.9	31.2	37	60.4	43.1	55	57.8	54.9	75	55.1	66.7	75				4							
	1450	83.8	77.5	25.1	30	74.7	38.8	45	72.2	52.5	75	69.7	66.3	75	67.0	80.0	90				4							
	1600	92.5	86.4	30.6	37	83.6	45.8	55	81.1	60.9	75	78.7	76.0	90	76.0	91.2	110				4							
ZG-250V	1750	101.1	95.2	35.2	45	92.4	51.7	75	90.0	68.2	75	87.6	84.8	90	85.0	101.3	110				4							
	1900	109.8	104.0	41.9	55	101.0	59.8	75	98.9	77.8	90	96.5	95.8	110	93.9	113.7	132				4							
	2050	118.5	112.4	50.4	55	110.1	69.8	75	107.8	88.2	90	105.5	108.3	132	102.9	128	160				4							



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