



Intelligent Roots Blower Vacuum Pump For Optimal Performance And Energy Savings

Our Product Introduction

Basic Information

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



Product Specification

- Flow Range: 0.52-183.9m³/min
- Material: HT250
- Models: ZG
- Vacuum Degree: -9.8~-50kpa
- Highlight: intelligent roots blower vacuum pump,
intelligent roots type vacuum pump,
energy savings roots type vacuum pump



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Product Description

Intelligent Roots Vacuum Pump for Optimal Performance and Energy Savings

Product Features

Product Overview

This intelligent roots vacuum blower system is engineered with sophisticated control and monitoring capabilities to deliver unparalleled performance, efficiency, and reliability. Leveraging the robust, proven design of a roots-type vacuum pump combined with a state-of-the-art control architecture, this vacuum blower provides users with unprecedented levels of real-time operational insight and optimization.

Key Technical Features

High-Efficiency Roots Vacuum Pump

Optimized aerodynamics and drive system maximize energy savings

Innovative impeller and flow path design enhances vacuum output

Rugged, reliable construction ensures long service life

Advanced PLC-Based Control System

Integrated programmable logic controller (PLC) with touchscreen HMI

Comprehensive monitoring of critical parameters like speed, temperature, vibration

Advanced algorithms optimize performance and energy consumption

Predictive Maintenance Capabilities

Leverages sensor data and machine learning algorithms for predictive diagnostics

Automatically schedules maintenance based on real-time equipment health

Minimizes unplanned downtime and service interruptions

Connectivity and Remote Monitoring

Seamless integration with facility SCADA and building automation systems

Cloud-based remote access and analytics enable 24/7 monitoring

Email/SMS alerts notify operators of faults or performance anomalies

Key Advantages

Maximizes energy efficiency through intelligent performance optimization

Enhances reliability and uptime with condition-based predictive maintenance

Provides real-time operational visibility and remote access for process optimization

Facilitates seamless integration with modern industrial automation ecosystems

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.



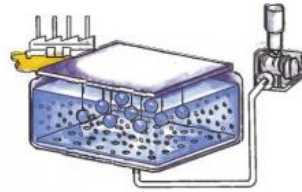
Examples of uses



■水泡浴 Foaming in Bath



■燃烧炉
Combustion a Fireplace



■电镀槽搅拌
Stirring in Plated Vessel



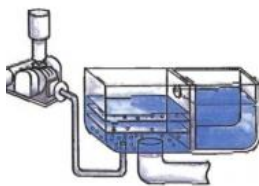
■公寓大楼的污水处理（曝气）
Waste water Aeration in Condominiums



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



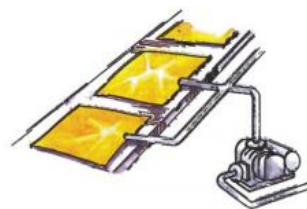
■养鱼用 Fish Care



■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		Qs	La	Po							
ZG-50V	n	Qth																										
	1450	1.68	1.09	0.57	1.1	0.80	0.85	1.1	0.52	1.12	1.5												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										
ZG-65V	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										
	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	2.38	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					
ZG-80V	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										
	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					
ZG-100V	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										
	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										
ZG-125V	3800	13.8	12.6	5.95	7.5	12.1	8.20	11	11.6	10.45	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						
	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										
ZG-160V	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	13.52	15	15.1	16.83	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	18.89	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	20.26	22	17.2	23.75	30	2										
	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					
ZG-200V	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	21.88	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-300V	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								
	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	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-200V	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	45.4	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	46.1	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	80.8	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	66.9	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	38.0	45	72.2	55.2	75	69.7	66.5	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-300V	1750	101.1	95.2	35.2	45	92.4	51.7	75	90.0	60.2	75	87.6	84.8	90	85.0	103.3	110				4							
	1900	109.8	104.0	41.9	55	101.0	59.8	75	98.9	77.8	110	96.5	95.8	110	93.9	113.7	132				4							
	2050	118.5	112.8	50.4	55	108.1	69.8	75	107.8	89.2	110	106.5	105.2	132	102.9	128	160				4							



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