



Yixing Aipu Air System Equipment Co., Ltd

aipukqdl.com



## Superior Suspension Centrifugal Blower for High-Performance Airflow and Ventilation Systems

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Certification: CE CCC SABS TUV RoHS
- Price: Negotiable
- Packaging Details: Standard Export Package
- Delivery Time: 6-8 workdays



### Product Specification

- Power Consumption: 15 KW
- Place: China
- Application: Chemical Industry
- Vacuum Level:  $\leq 0.1$  Mbar
- Control System: PLC Control
- Power Supply: 380V/50Hz
- Material: Stainless Steel
- Capacity: 1000 Kg/h



### More Images



## Product Description

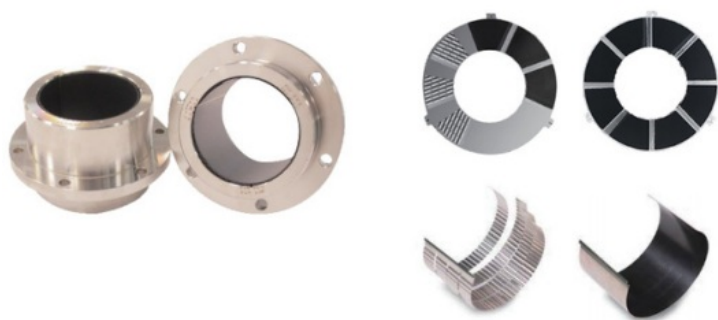
### Product Description:

Foil Bearing High-speed Centrifugal Blowers is a high-efficiency, energy-saving, green and environmentally friendly product, its mechanical structure is simple, the moving parts are few, the control robustness is good, and the maintenance is convenient. It adopts automotive-grade oil-free and high-reliability dynamic pressure foil bearing, which has no friction and small mechanical loss during operation. Using advanced permanent magnet synchronous motor technology, the maximum speed can reach 95000rpm, and it only takes 5s to run at full speed. The motor efficiency is as high as 97%, which meets the two-stage energy efficiency standard.

The high-efficiency ternary flow impeller used in the Foil Bearing High-speed Centrifugal Blowers breaks through the key technology of low specific speed design and has high efficiency. The integrated special design of the main engine makes the noise less than 75dB(A) and the vibration less than 12μm. It adopts stepless adjustment, and the blower can start and stop quickly, and the number of continuous starts and stops exceeds 200,000 times.

### Foil Bearing Technology:

Foil bearing has physical contact between the rotor and the bearing before starting, the relative movement of the rotor and the bearing generates air pressure when starting, when the rotor rotates, the speed of the air around the rotor can be converted into pressure energy, and the air pressure makes the rotor float when the rotor reaches a certain rotation speed and plays a lubricating role. Foil bearing technology effectively solves the problems of low efficiency, short life, and the need for regular maintenance and lubrication of the traditional mechanical support transmission system.



### TAir Suspension Bearing High Speed Centrifugal Blower Series Selection :

Air Flow (m/min):1atm,20°C,65%RH, density=12kg/m3, Tolerance=+5%															
model number	Outlet pressure (bar)									power	Weight	Outlet calibre	Dimension (mm)		
	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.2	kw	kg	PN1.0 MPa	elder	width	height
	Inlet Flow(m³/min)														
ZGK15	24	17	14	13	10	/	/	/	/	15	300	DN150	1300	800	1230
ZGK22	36	29	24	21	18	16	/	/	/	22	310				
ZGK30	49	39	33	28	25	22	/	/	/	30	330				
ZGK37	62	48	41	35	31	28	25	22	19	37	350				
ZGK45	78	62	51	45	31	34	32	28	23	45	550	DN200	1500	1100	1580
ZGK55	94	76	60	54	47	40	38	34	28	55	630				
ZGK75	124	95	76	69	63	55	49	45	37	75	650				
ZGK90	157	120	95	86	79	69	62	56	46	90	830	DN300	1500	1100	1580
ZGK110	190	150	115	104	93	85	72	67	57	11	880				
ZGK132	221	170	136	122	108	99	86	79	67	132	930				
ZGK150	252	190	156	140	122	112	9	90	77	150	1450	DN300	1800	1500	2080
ZGK185	314	230	190	171	155	136	124	112	91	185	1720				
ZGK225	380	290	228	208	183	164	145	132	111	225	2140	DN400	2300	1700	2140
ZGK300	504	378	312	276	243	220	198	181	150	300	2320				

When the atmospheric conditions and medium are varied, the relative performance conversion calculation will be different, we can re-designed in accordance with the requirement of users to adapt to different working conditions. There are two cooling methods for air suspension centrifugal blower: self-circulating water cooling and forced air cooling. If you have special requirements on the cooling mode, please tell us in advance.

## Applications:

### Sewage treatment industry

Application scenarios: municipal sewage treatment plants, industrial wastewater treatment (chemical, printing and dyeing, papermaking, etc.).

Advantages:

Energy saving of 30% -50%: Compared to traditional Roots blowers, air suspension technology has no mechanical friction and higher efficiency.

Precise aeration control: By adjusting the air volume through frequency conversion, matching the oxygen demand of the biochemical tank, and reducing energy consumption.

Maintenance free: No gears, no lubricating oil, reducing downtime maintenance costs.

### Chemical and petrochemical industry

Application scenarios: gas transportation (such as chlorine gas, sulfur dioxide), reactor aeration, exhaust gas treatment.

Advantages:

Explosion proof design: Customizable explosion-proof models (Ex certified), suitable for flammable and explosive environments.

Corrosion resistant material: The impeller and shell can be made of stainless steel or special coatings to cope with corrosive gases.

### Electric power and metallurgical industry

Application scenarios: desulfurization and denitrification (FGD) in coal-fired power plants, blast furnace blowing, and flue gas circulation.

Advantages:

High pressure ratio operation: Single stage compression can achieve higher pressures (usually 0.3-1.0 bar), simplifying the system structure.

High temperature adaptability: Some models can handle high temperature gases below 150 °C.

### Food and pharmaceutical industry

Application scenarios: Fermentation aeration (such as antibiotic production), pneumatic conveying.

Advantages:

Oil free pollution: Air bearing technology ensures the purity of the transported gas and complies with GMP standards.

Low noise: Operating noise ≤ 80dB, suitable for factory areas with strict environmental requirements.

## Customization:

Brand Name: Aipu

Place of Origin: China

Certification: CE,CCC,SABS,TUV,RoHS

Packaging Details: Standard Export Package

Delivery Time: 6-8 workdays

## Support and Services:

Our team of highly qualified technicians provides 24/7 technical support and services to ensure that our customers receive the best possible experience with our product.

Our technicians are trained to diagnose and troubleshoot any issues that may arise with the system. We also provide training to our customers on how to operate and maintain the system to ensure optimal performance.

## Packing and Shipping:

Product Packaging:

The Suspension Centrifugal Blower comes in a sturdy wooden crate for maximum protection during transport. The system components are securely packed with foam and bubble wrap to prevent any damage during shipment.

Shipping:

Shipping time may vary depending on your location. Once your order is processed, you will receive a tracking number to monitor your shipment's progress. Please note that any customs fees or taxes associated with international shipping are the responsibility of the customer.

## FAQ:

**Q1: What is the brand name of this product?**

A1: The brand name of this product is Aipu.

**Q2: Where is this product manufactured?**

A2: This product is manufactured in China.

**Q3: What certifications does this product have?**

A3: This product has CE, CCC, SABS, TUV, and RoHS certifications.

**Q4: How much does this product cost?**

A4: The price of this product is negotiable.

**Q5: What are the packaging details and delivery time for this product?**

A5: The packaging details for this product are standard export package. The delivery time is 6-8 workdays.



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13771572002



183426306@qq.com



aipukqdl.com

Yixing Yicheng Street Hardware Electromechanical City, Phase I, Block 5, District 3, 8071