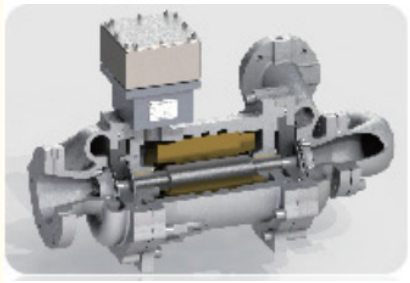
# Energy Efficient Air Suspension Blowers High Speed Turbo Blowers 5-120kPa

Our Product Introduction

## Basic Information

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



## Product Specification

- Flow Range: 5-500m³/min
- Boost: 5-120kPa
- Temperature: Up To 60°C
- Filter Density: F8
- Filtration Accuracy: PM2.5
- Filtration Efficiency: Up To 85 Per Cent
- Highlight: **120kpa turbo blower**, **120kpa high speed turbo blowers**, **energy efficient turbo blower**

## Product Description

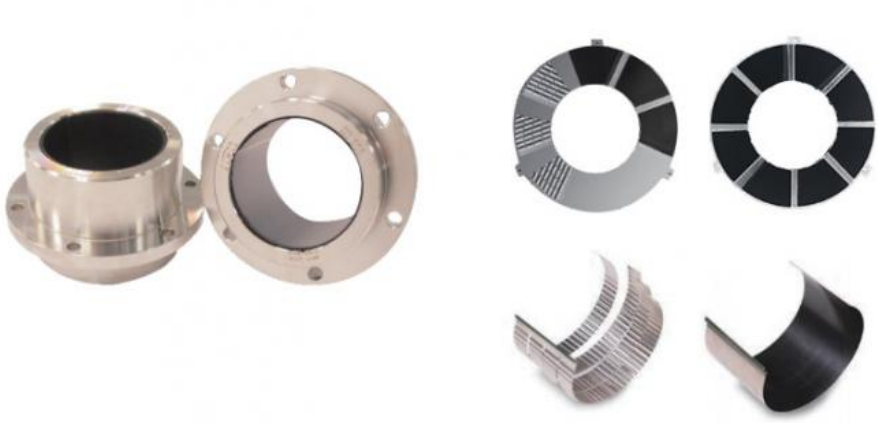
# Energy Efficient Air Suspension Blowers - Accelerating Your Processes

### Product Description

Product Overview
Combining advanced aerodynamics and intelligent drive system technologies, these energy-efficient air suspension blowers deliver robust, high-performance airflow output while dramatically reducing operating costs. Leveraging frictionless air bearing levitation and state-of-the-art variable frequency drive controls, these blowers are engineered to provide the powerful, dynamically optimized air supply required by modern industrial processes - all with unparalleled energy efficiency.
Key Technical Features
Air Bearing Suspension
Innovative air bearing design eliminates the need for mechanical bearings and lubrication
Enables silent, vibration-free operation and a completely oil-free air stream
Supports use in a wide range of industrial applications, including cleanrooms
High-Efficiency Airflow
Optimized aerodynamic flow path maximizes output while minimizing pressure losses
Variable frequency drive allows for precise adjustment and optimization of airflow
Delivers robust, stable air supply to power even the most demanding processes
Advanced Variable-Speed Control
Intelligent control algorithms dynamically adjust blower speed to match process demands
Eliminates wasteful constant-speed operation and part-load inefficiencies
Dramatically reduces overall energy consumption and operating expenses
Comprehensive Monitoring and Diagnostics
Integrated PLC and HMI provide real-time system oversight and predictive maintenance
Remote access and cloud-based analytics enable 24/7 performance optimization
Ensures maximum uptime and reliable operation
Key Advantages
Exceptional energy efficiency minimizes utility costs and environmental impact
Intelligent, variable-speed control optimizes airflow to match process requirements
Advanced monitoring and diagnostics maximize equipment uptime and reliability
Frictionless air bearing design supports use in a variety of industrial applications

## Foll Bearing Technology

Foil bearing has physical contact between therotor and the bearing before starting, therelative movement of the rotor and the bearinggenerates air pressure when starting, when therotor rotates, the speed of the air around therotor can be converted into pressure energy, andthe air pressure makes the rotor float when therotor reaches a certain rotation speed and playsa lubricatingrole. Foil bearing technologyeffectively solves theproblems of lowefficiency, short life, and the need forregularmaintenance and lubrication of the traditiona!mechanical support transmission system.



## Air Suspension Bearing High Speed Centrifugal Blower Series Selection

| Air Flow (m/min):1atm,20℃,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 | | | | |

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZGK110 | 190 | 150 | 115 | 104 | 93 | 85 | 72 | 67 | 57 | 11 | 880 | DN300 | 1500 | 1100 | 1580 |
| 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 wth the requirement of users to adape to different working condi tion. 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.



## 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 ad-ministrative 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

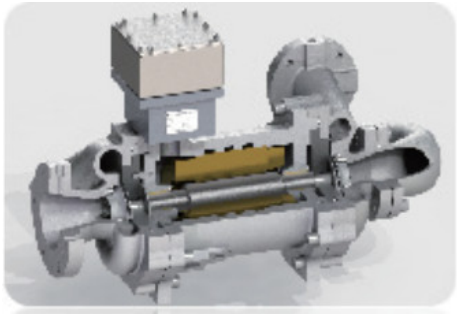
By studying the influence of impeller and volute flow on efficiency and working stability, the R&D team proposed a flow control method and a pneumatic optimization design method to improve the performance of the main engine, which greatly improved the efficiency of the main engine.

## Manufacturing & Equipment Base

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

### High power density permanent magnet synchronous motor technology

Based on the thermal multiphysics coupling design technology of electro magneticmachine, the R&D team independently developed a permanent magnet synchronous motor (PMSM); Through the electromagnetic optimization design technology of high speed permanent magnet motor coordinated with the control strategy, the problems of large rotor heat, high torque ripple and large motor noise are solved, so that it has the advantages of high reliability, high temperature resistance and low wind resistance loss. The design and process of rotor structural integrity were overcome, and a permanent magnet synchronous motor with high power density, low cost and high efficiency was developed.



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