



## Upgrade Your Pumping System with Magnetic Levitation Pump for Maximum Efficiency

### Our Product Introduction

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#### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Certification: CE CCC SABS TUV RoHS
- Model Number: GFV300
- Price: Negotiable
- Packaging Details: Standard Export Package
- Delivery Time: 6-8 workdays



#### Product Specification

- Features: Maintenance-free, Oil-free, Compact Design
- Ultimate Pressure: -10~-70kpa
- Models: GFV300
- Application Scope: Semiconductor, Analytical Instruments, Research Labs
- Gas Volume Range: 112-290m<sup>3</sup>/min
- Power: 300KW
- Type: Magnetic Levitation Pump

## Product Description

### Product Description:

The Magnetic Levitation Vacuum Pumps are of the Dry Scroll Pump type, which means they use a scroll mechanism to compress gases. The pumps are constructed with high-quality Stainless Steel material, ensuring durability and long-lasting performance. The Stainless Steel material also provides excellent resistance to corrosion and high-temperature applications.

The Magnetic Levitation Vacuum Pumps are ideal for a wide range of applications, including Semiconductor, Analytical Instruments, and Research Labs. These pumps are designed to deliver high pumping speeds and ultimate pressure levels of up to  $10^{-7}$  Mbar. The pumps are suitable for use in clean environments due to their oil-free and contaminant-free pumping mechanism.

The Magnetic Levitation Vacuum Pumps have a compact design, with dimensions of 335 X 220 X 180 Mm. The compact size makes them easy to integrate into existing systems, and they require minimal floor space. The pumps are also easy to install, operate, and maintain.

In summary, if you are in need of a high-performance vacuum pump that delivers maintenance-free and low noise operation, then the Magnetic Levitation Vacuum Pumps are the perfect solution. These pumps are ideal for semiconductor, analytical instruments, and research labs, and they offer ultimate pressure levels of up to  $10^{-7}$  Mbar. The pumps are constructed with Stainless Steel material, ensuring durability and long-lasting performance. Their compact size and easy installation make them a perfect fit for any application.

### Features:

#### Energy saving and High efficiency

Tenary flow Impeller is directly coupled with high-speed PMSM

#### Low noise

With the self-balancing technology, the vibration level of Magnetic bearing is lower than traditional bearings, and there is no friction. Adopting the active vibration damping design, the blower can operate smoothly of less vibration.

#### Maintenance Free

Integrated design, skid mounted structure, convenient installation, one key to start and stop the blower. No need for mechanical maintenance during daily operation, only to replace the filter.

#### Intelligent Control

With PLC+GPRS/3G/4G, we can real time monitored the operation status of the blower and control flow, air pressure and speed by intelligently or manually mode. In case of failure, it can also be repaired and debugged remotely.

### Technical Parameters:

型号	真空度(kPa)	气量范围	功率(kW)	吸入管径
GFV50	10 ~ 50	25 ~ 50	50	DN250
GFV75	10 ~ 70	44 ~ 91	75	DN250
GFV100		53 ~ 121	100	DN350
GFV150		75 ~ 182	150	DN350
GFV200		93 ~ 235	200	DN450
GFV300		112 ~ 290	300	DN450

Five-degree-of-freedom magnetic suspension bearing technology which have independent intellectual property rights can guarantee the rotor system is suspended by electromagnetic force when the equipment is powered on. The controller ensures that the signal is collected more than 10000 times per second and the stable suspension of high-speed rotor.

Redundant power system and spare bearings could provide multiple protection to avoid any damage due to the sudden power failure or downtime.

### Applications:

The Magnetic Levitation pumps are very wide, mainly including papermaking, food, pharmaceuticals, environmental protection, metallurgy, petroleum, petrochemical, printing and dyeing industries. These industries have a high demand for efficient and energy-saving equipment, as well as low operation and maintenance costs, and Magnetic Levitation pumps precisely meet these requirements.

#### Technical features and application advantages.

The Magnetic Levitation pump adopts a high-power high-speed permanent magnet synchronous motor to directly drive the high-efficiency centrifugal impeller, and uses five degrees of freedom active magnetic levitation bearings to achieve high-speed direct drive. The operation process is contactless, frictionless, and lubrication free. Its integrated pry mounting structure makes installation convenient, the overall structure compact, occupies a small area, and has low operation and maintenance costs. Compared with traditional vacuum pumps, magnetic levitation vacuum pumps save more than 35% energy and have a user-friendly interface. They can be remotely controlled and monitored online according to customer needs, with a noise level of only about 80dB (A).

#### Market prospects and user evaluations

Against the backdrop of the country's strong advocacy for industrial structure upgrading and energy conservation and emission reduction, the market's demand for efficient and energy-saving equipment is increasing day by day. Magnetic Levitation pump and compressors are widely used in fields such as sewage treatment, cement, food, pharmaceuticals, printing and dyeing, papermaking, and chemical

engineering due to their high efficiency, energy saving, and low maintenance costs. With the further strict requirements of the country for energy conservation and emission reduction, the traditional equipment market is facing upgrading and transformation. Magnetic levitation centrifugal equipment has become an important choice due to its advantages of energy conservation, environmental protection, and low noise.

## Customization:

## Support and Services:

The Magnetic Levitation pumps product comes with comprehensive technical support and services to ensure optimal performance and customer satisfaction. Our team of experts is available to provide assistance with installation, troubleshooting, and maintenance of the product. We also offer repair and replacement services for any defective components. Additionally, we provide training and educational resources for customers to help them understand the product and its features. Our goal is to provide exceptional customer service and exceed expectations in all aspects of our support and services for the Magnetic Levitation pumps product.

## Packing and Shipping:

Introducing our revolutionary Magnetic Levitation Vacuum Pumps! With cutting-edge technology, our pumps offer superior performance and efficiency compared to traditional vacuum pumps. The magnetic levitation system eliminates the need for bearings, resulting in reduced friction and noise, and increased durability and lifespan.

Each pump comes with a user manual and power cord. Our packaging is designed to ensure safe delivery of your pump, with sturdy cardboard and foam inserts to protect against damage during shipping.

International shipping is available for an additional fee. Orders are typically processed within 24 hours and shipped within 1-2 business days. You will receive a tracking number once your order has been shipped.

Order your Magnetic Levitation Vacuum Pump today and experience the future of vacuum technology!

## FAQ:

**Q1: What is the brand name of the Magnetic Levitation Vacuum Pumps?**

A1: The brand name of the Magnetic Levitation Vacuum Pumps is Aipu.

**Q2: Where is the Magnetic Levitation Vacuum Pumps manufactured?**

A2: The Magnetic Levitation Vacuum Pumps is manufactured in China.

**Q3: What certifications does the Magnetic Levitation Vacuum Pumps have?**

A3: The Magnetic Levitation Vacuum Pumps has CE, CCC, SABS, TUV, and RoHS certifications.

**Q4: What is the price of the Magnetic Levitation Vacuum Pumps?**

A4: The price of the Magnetic Levitation Vacuum Pumps is negotiable.

**Q5: What are the packaging and delivery details of the Magnetic Levitation Vacuum Pumps?**

A5: The Magnetic Levitation Vacuum Pumps comes with standard export packaging and delivery time is 6-8 workdays.



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