



Yixing Aipu Air System Equipment Co., Ltd

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## Industrial Magnetic Levitation Pump with Advanced Magnetic Levitation Technology

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Certification: CE CCC SABS TUV RoHS
- Model Number: GFV75
- Price: Negotiable
- Packaging Details: Standard Export Package
- Delivery Time: 6-8 workdays



### Product Specification

- Vacuum Degree: 10-70kpa
- Flow Range: 44-91m<sup>3</sup>/min
- Voltage: 380V
- Color: Silver
- Highlight: industrial magnetic levitation pump,  
magnetic levitation pump with warranty,  
advanced magnetic levitation technology pump

## Product Description

### Product Description:

Magnetic levitation vacuum pump is an efficient, energy-saving, and environmentally friendly product, which adopts a three element flow centrifugal impeller and a high-speed synchronous motor integrated direct drive structure. It detects the vibration of the rotating shaft in real time through the built-in displacement sensor, and transmits the obtained information to the magnetic levitation bearing controller for conditioning and calculation, generating control current, which is then input into the magnetic bearing coil to generate electromagnetic force, thereby achieving the suspension of the rotating shaft.

A permanent magnet synchronous motor generates a frequency controllable current through a frequency converter, which is input into the motor stator to generate a rotating magnetic field and drive the shaft to rotate at high speed.

The impeller, which rotates at high speed along with the shaft, exhausts the air inside the impeller, creating negative pressure at the impeller. External gas enters the impeller through the inlet pipe and is expelled from the volute exhaust outlet. The inlet is connected to the vacuum process point to achieve the function of vacuuming.

### Performance 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.**

### Application:

It is suitable for vacuum dehydration, post treatment of origami machine material conveying, tail gas recovery, etc

### Model Selection of Magnetic Suspension Centrifugal Vacuum Pump:

型号	真空泵 (kPa)	气量范围	功率 (kW)	吸入管径
GFV75	10~70	44~91	75	DN150
GFV100		53~121	100	DN200
GFV150		75~182	150	DN250
GFV200		93~235	200	DN300
GFV300		112~290	300	DN400

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:

Product Packaging:

**One** Magnetic Levitation Pump

**User Manual**

**Mounting Screws and Brackets**

Shipping:

**Free Shipping within the United States**

**Estimated Delivery Time: 3-5 Business Days**

**International Shipping Available**

**Additional Shipping Costs May Apply**

### FAQ:

**Q: What is the brand name of these Magnetic Levitation pump?**

**A: The brand name of these Magnetic Levitation pump is Aipu.**

**Q: Where are these Magnetic Levitation pumps manufactured?**

**A: These Magnetic Levitation pumps are manufactured in China.**

**Q: What certifications do these Magnetic Levitation pumps have?**

**A: These Magnetic Levitation pumps have CE, CCC, SABS, TUV, and RoHS certifications.**

**Q: What is the price of these Magnetic Levitation pumps?**

**A: The price of these Magnetic Levitation pumps is negotiable.**

**Q: What are the packaging details and delivery time for these Magnetic Levitation pumps?**

**A: These Magnetic Levitation pumps come with standard export packaging and have a delivery time of 6-8 workdays.**



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