



Yixing Aipu Air System Equipment Co., Ltd

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## Take Your Industrial Operations to the Next Level with Our Magnetic Levitation Pump

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

- Features: Energy Saving And Efficient, Low Noise, Maintenance Free, Intelligent Control
- Type: Magnetic Levitation Pump
- Vacuum Degree: -10~-70kpa
- Gas Volume Range: 25-290m<sup>3</sup>/min
- Operation Mode: Automatic



## Product Description

### Product Description:

Magnetic levitation vacuum pump is an efficient, energy-saving, and environmentally friendly product, designed with an integrated direct drive structure consisting of a ternary flow centrifugal impeller and a high-speed permanent magnet synchronous motor. 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 with the shaft, exhausts the air inside the impeller. Negative pressure is formed at the impeller, and external gas enters the impeller through the inlet pipe and is discharged 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

Ternary flow impeller is directly coupled with high-speed PMSM; Save more than 30% energy than Roots Vacuum Pump; Save more than 20% energy than Multi-stage Centrifugal Vacuum Pump;

Save more than 10% energy than Single Stage High Speed Centrifugal Vacuum Pump.

#### 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, and the noise of the vacuum pump is around 80dB(A).

#### 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 monitor 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.

Active Magnetic Bearing Technology is converted from the magnetic Suspension flywheel technology in the field of space satellite. The high performance attitude control and high efficiency energy conversion of the satellite are realized from magnetic Suspension flywheel technology, which greatly improves the attitude control and operation level of the satellite and effectively solves problems of low efficiency, short service life, routine maintenance requirement and lubrication issues on mechanical support transmission system.

### Technical Parameters:

Model	Vacuum degree	Gas volume range	Power(kw)	Suction pipe diameter
GFV50	10-50	25~50	50	DN250
GFV75	10-70	44~91	75	DN250
GFV100	10-70	53-121	100	DN350
GFV150	10-70	75-182	150	DN350
GFV200	10-70	93-235	200	DN450
GFV300	10-70	112-290	300	DN450

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.

### Applications:

The Magnetic Levitation Vacuum Pumps use advanced technology to create a floating vacuum that reduces friction and provides a stable and reliable performance. These pumps are also known as Hovering Vacuum Pumps and are widely used in various industries, including

semiconductor, analytical instruments, and research labs.

The Aipu Magnetic Levitation Vacuum Pumps have a power supply of 380V, 50/60Hz, making them suitable for use in different countries.

The Magnetic Levitation Vacuum Pumps produce less than 50 DB(A) of noise, making them ideal for use in quiet environments.

The Magnetic Levitation type of the Aipu Magnetic Levitation Vacuum Pumps makes them suitable for use in applications that require a high level of cleanliness, such as semiconductor manufacturing. These pumps provide a clean, oil-free vacuum that is essential in such industries.

Some of the product application occasions and scenarios include:

**Research Labs:** These pumps are ideal for use in research labs as they provide a stable and reliable performance, making them suitable for use in experiments and other research activities.

**Semiconductor Manufacturing:** The clean, oil-free vacuum provided by the Aipu Magnetic Levitation Vacuum Pumps makes them ideal for use in semiconductor manufacturing, where a high level of cleanliness is required.

**Analytical Instruments:** These pumps are ideal for use in analytical instruments as they provide a stable and reliable performance, making them suitable for use in various analytical applications.

In conclusion, the Aipu Magnetic Levitation Vacuum Pumps are a high-quality product that is suitable for use in various industries. They are durable, reliable, and easy to use, making them an excellent choice for anyone looking for a high-performance vacuum pump.

## Customization:

Our Magnetic Suspension Vacuum Pumps are suspension type with an Inlet/Outlet Flange of DN150/200/300/400. They are maintenance-free, oil-free, and have a compact design for easy installation. Our pumps have a pumping speed of 44-290 m<sup>3</sup>/min .

## Support and Services:

The Magnetic Levitation Vacuum Pumps are designed for high-end applications such as semiconductor manufacturing and research. Our technical support team is available to assist with installation, operation, and maintenance of the pumps to ensure optimal performance and longevity. We also offer repair services for any issues that may arise with the pumps.

Our product specialists can provide recommendations for the appropriate pump model based on your specific application needs. We also offer customization options for certain components of the pump to meet unique requirements.

Training services are also available for customers who may need additional education on the operation and maintenance of the pumps. Our team can provide both on-site and remote training sessions.

## Packing and Shipping:

Product Packaging:

**The Magnetic Levitation Vacuum Pumps will be securely packaged in a sturdy cardboard box to prevent any damage during shipping.**

**All necessary components and accessories will be included in the package.**

**A user manual and installation guide will be included to ensure proper setup and use of the product.**

Shipping:

**The product will be shipped via a reliable courier service to ensure timely and safe delivery.**

**All shipments will include tracking information to allow customers to monitor the progress of their delivery.**

**Shipping costs will be calculated based on the destination and weight of the package.**

**Customers can choose from a variety of shipping options to meet their specific needs.**

## FAQ:

A: The brand name of the Magnetic Levitation Vacuum Pump is Aipu.

2. Q: Where is the Magnetic Levitation Vacuum Pump made?

A: The Magnetic Levitation Vacuum Pump is made in China.

3. Q: What certifications does the Magnetic Levitation Vacuum Pump have?

A: The Magnetic Levitation Vacuum Pump has CE,CCC,SABS,TUV,RoHS certifications.

4. Q: What is the price of the Magnetic Levitation Vacuum Pump?

A: The price of the Magnetic Levitation Vacuum Pump is negotiable.

5. Q: How is the Magnetic Levitation Vacuum Pump packaged and how long is the delivery time?

A: The Magnetic Levitation Vacuum Pump is packaged in a standard export package and the delivery time is 6-8 workdays.





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