



Yixing Aipu Air System Equipment Co., Ltd

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Magnetic Levitation Pump The Revolutionary Technology for Precise and Consistent Fluid Transfer

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Certification: CE CCC SABS TUV RoHS
- Model Number: GFV200
- Price: Negotiable
- Packaging Details: Standard Export Package
- Delivery Time: 6-8 workdays



Product Specification

- Vacuum Degree: -10~-70kpa
- Pumping Speed: 93-235m³/min
- Power: 200KW
- Motor Type: Magnetic Levitation
- Models: GFV200
- Suction Pipe Diameter: DN450

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.

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 with 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:

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

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:

We guarantee our pumps are certified to meet CE, CCC, SABS, TUV, and RoHS standards, ensuring the safety and reliability of our products. Our prices are negotiable, and we offer a Standard Export Package for packaging details. For further customization options, please contact our team to discuss your specific needs and requirements. We are committed to providing the best possible product and service to meet your vacuum pump needs.

Support and Services:

The Magnetic Levitation Vacuum Pumps product offers comprehensive technical support and services to ensure optimal performance and longevity of the product. Our team of experts is available to provide support and assistance with installation, maintenance, troubleshooting, and repairs. In addition, we offer training and education programs to help customers maximize the benefits of the product and stay up-to-date with the latest technology and advancements in the field. Our services also include calibration and certification to ensure accurate measurements and compliance with industry standards. We are dedicated to providing superior service and support to meet the needs of our customers and help them achieve their goals.

Packing and Shipping:

Product Packaging:

1 Magnetic Levitation Vacuum Pump unit

1 Power adapter

1 User manual

Shipping:

Shipping method: Standard shipping

Estimated delivery time: 5-7 business days

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 are the magnetic levitation vacuum pumps manufactured?

A2: The magnetic levitation vacuum pumps are manufactured in China.

Q3: What certifications do the magnetic levitation vacuum pumps have?

A3: The magnetic levitation vacuum pumps have 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 for the magnetic levitation vacuum pumps?

A5: The magnetic levitation vacuum pumps are packaged in standard export packages and have a delivery time of 6-8 workdays.



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