



Reliable And Durable Maglev Turbomolecular Pump For Demanding Industrial Environments

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GFV300
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



Product Specification

- Models: GFV300
- Brand Name: Aipu
- Gas Volume Range: 112-290
- Power: 300KW
- Highlight: reliable turbomolecular pump,
reliable turbomolecular vacuum pump,
durable turbomolecular pump



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Reliable and durable maglev turbomolecular pumps - for demanding industrial environments

Product Description

Reliable and Durable Maglev Turbomolecular Pumps - For Demanding Industrial Environments

Key Features:

Robust Construction:

Reinforced structural design with heavy-duty materials

Engineered to withstand harsh operating conditions

Magnetic Levitation Technology:

Contactless operation eliminates mechanical wear and tear

Provides superior reliability and extended service life

High Vacuum Performance:

Efficient multi-stage turbomolecular design

Achieves high vacuum levels down to 10^{-9} Torr

Corrosion and Chemical Resistance:

Specialized materials and protective coatings

Able to handle exposure to aggressive chemicals and gases

Reduced Maintenance Requirements:

Minimized downtime and maintenance costs

Reliable operation with extended service intervals

These reliable and durable maglev turbomolecular pumps are engineered to deliver exceptional vacuum performance in demanding industrial environments. Leveraging magnetic levitation technology, these pumps eliminate mechanical contact, significantly reducing wear and tear, and ensuring superior reliability and extended service life.

Featuring a robust structural design and the use of heavy-duty materials, these maglev turbomolecular pumps are built to withstand harsh operating conditions, including exposure to aggressive chemicals, gases, and other challenging industrial factors. The specialized materials and protective coatings further enhance the pumps' corrosion and chemical resistance, making them suitable for a wide range of industrial applications.

With their efficient multi-stage turbomolecular design, these pumps are capable of achieving high vacuum levels down to 10^{-9} Torr, meeting the stringent requirements of various industrial processes, such as semiconductor manufacturing, material processing, and scientific research.

By minimizing the need for maintenance and downtime, these reliable and durable maglev turbomolecular pumps offer a cost-effective solution for industrial vacuum systems. With extended service intervals and reduced maintenance requirements, users can maximize their operational efficiency and minimize the overall cost of ownership.

Performance Features

Energy saving and High efficiency

Ternary flow Impeller is directly coupled with high-speed PMSM;

Save more than 30% energy than Water Ring Vacuum Pump, no need circulating water,

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.

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.

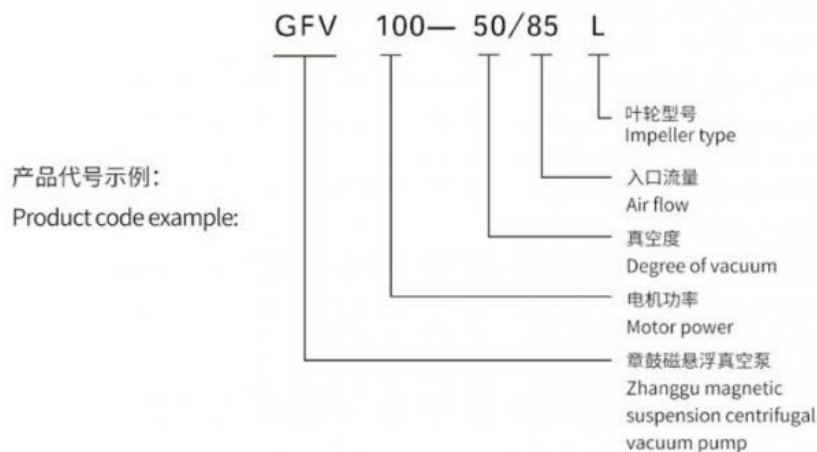
Application

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

Model Selection of Magnetic Suspension Centrifugal Vacuum Pump

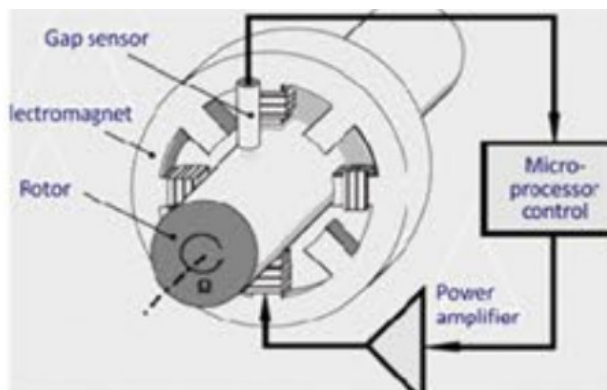
Model	Vacuum pump (kPa)	Air volume range	Power (kW)	Suction pipe diameter
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GFV75	10-70	44~91	75	DN150
GFV100		53~121	100	DN200
GFV150		75~182	150	DN250
GFV200		93~235	200	DN300
GFV300		112~290	300	DN400



Technology core

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



Bearing technology

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 the problems of low efficiency, short service life, routine maintenance requirement and lubrication issues on mechanical support transmission system.

First-class lean manufacturing and testing base

We have built laboratories, R & D buildings, processing work-shops, etc., with internationally advanced and China leading high-precision processing equipment.



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