



Ultra High Vacuum Magnetic Levitation Turbine Pumps For Excellent Vacuum Performance At Very Low Pressure Levels

Our Product Introduction

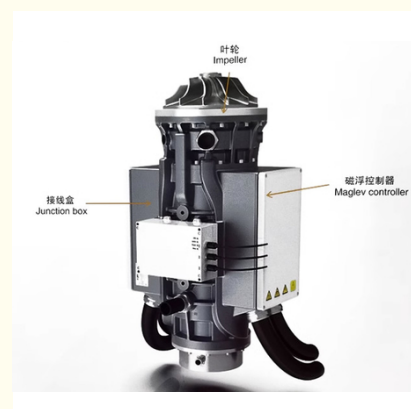
Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GFV75
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



Product Specification

- Models: GFV75
- Brand Name: Aipu
- Gas Volume Range: 53-121
- Power: 100KW
- Highlight: **High Vacuum Magnetic Levitation Pump, Magnetic Levitation Turbine Pumps, Low Pressure Magnetic Levitation Pump**



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Ultra-High Vacuum Magnetic Levitation Turbine Pumps - for excellent vacuum performance at very low pressure levels

Product Description

Ultra-High Vacuum Magnetic Levitation Turbine Pumps - For Excellent Vacuum Performance at Very Low Pressure Levels

Key Features:

Extreme Vacuum Capability:

Achieve ultra-high vacuum levels down to 10^{-10} Torr

Optimized for demanding high-vacuum applications

Magnetic Levitation Technology:

Contactless operation eliminating mechanical wear

Ensures superior reliability and extended service life

Efficient Multi-Stage Turbine Design:

Optimized aerodynamics and impeller geometry

Delivers high pumping speeds and excellent vacuum performance

Oil-Free Operation:

Eliminates the need for oil, ensuring a clean vacuum environment

Prevents potential contamination of the vacuum chamber

Advanced Vibration and Noise Control:

Reduced vibration transmission for use in sensitive applications

Minimizes acoustic noise for quiet operation

These ultra-high vacuum magnetic levitation turbine pumps are designed to deliver exceptional vacuum performance at extremely low pressure levels, down to 10^{-10} Torr. Engineered for demanding high-vacuum applications, these pumps leverage advanced magnetic levitation technology to achieve superior reliability and extended service life.

The innovative multi-stage turbine design, with optimized aerodynamics and impeller geometry, enables these pumps to generate high pumping speeds while maintaining excellent vacuum quality. The contactless operation, made possible by the magnetic levitation system, eliminates mechanical wear and tear, ensuring reliable and long-lasting performance.

By eliminating the need for oil, these ultra-high vacuum pumps provide a clean vacuum environment, preventing potential contamination of the vacuum chamber. This oil-free design contributes to a more efficient and environmentally friendly vacuum solution.

Recognizing the importance of minimal vibration and noise in sensitive applications, these pumps incorporate advanced control systems and design features to reduce vibration transmission and acoustic emissions. This makes them well-suited for use in critical research, scientific, and high-tech manufacturing environments.

Performance Features

Energy saving and High efficiency

Low Noise

With the self-balancing technology, the vibration level of Magnetic bearing is lower than traditionabearings, 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 theblower, No need for mechanical maintenance during daily operation, only to replace the filter.

Intelligent Control

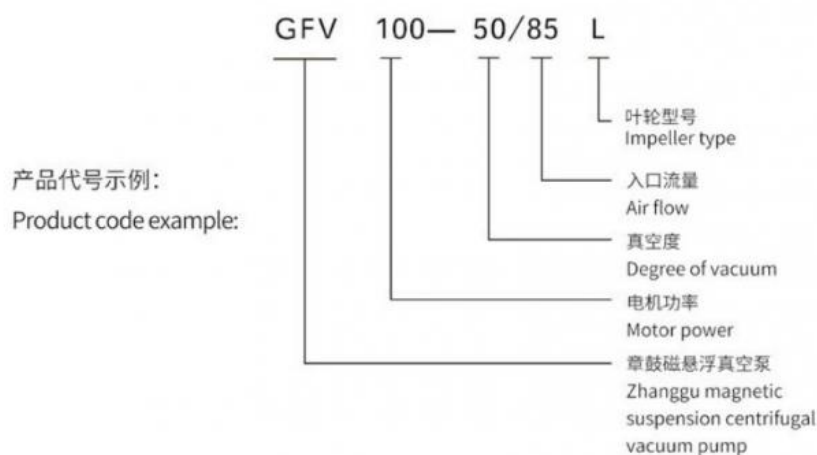
With PLC+GPRS/3G/4G, we can real time monitor the operation status of the Blower and controlflow, air pressure and speed by intelligently or manually mode. in case of failure, it can also be repaired and debugged remotely.

Application

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

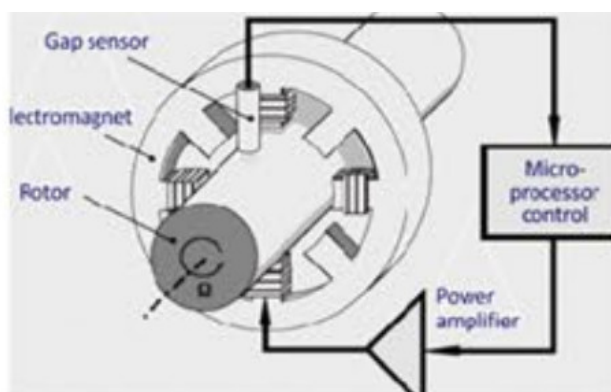
Model Selection of Magnetic Suspension Centrifugal Vacuum Pump

Model	Vacuum pump(kPa)	Air volume range	Power (kw)	Suction pipe diameter
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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