



## Ultra Long Life Magnetic Levitation Pump Maximising Process Stability And Operational Efficiency

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GFV200
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



### Product Specification

- Models: GFV200
- Brand Name: Aipu
- Gas Volume Range: 93-235
- Power: 200KW
- Highlight: 200kw magnetic levitation pump,  
200kw magnetic levitation vacuum pumps



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# Ultra Long Life Maglev Turbine Pumps - Maximising Process Stability and Operational Efficiency

## Product Description

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Key Features:

Magnetic Levitation (Maglev) Technology:

Contactless operation with no mechanical wear and tear

Ensures exceptional reliability and extended service life

Advanced Turbomolecular Design:

Multi-stage turbine architecture for high vacuum performance

Achieve vacuum levels down to  $10^{-9}$  Torr

Oil-Free Operation:

Completely dry vacuum pumping technology

Eliminates the need for oil, ensuring a clean vacuum environment

Energy-Efficient Performance:

Optimized motor and drive systems for low power consumption

Reduces operational costs and carbon footprint

Automated Monitoring and Diagnostics:

Real-time monitoring of critical parameters

Predictive maintenance capabilities for maximized uptime

The ultra long life maglev turbine pumps leverage the latest advancements in vacuum technology to deliver exceptional reliability, performance, and operational efficiency. Utilizing magnetic levitation (maglev) technology, these pumps achieve contactless operation, eliminating mechanical wear and tear for an unprecedented service life.

The advanced turbomolecular design, with a multi-stage turbine architecture, enables these pumps to achieve high vacuum performance down to  $10^{-9}$  Torr. This impressive vacuum capability makes them suitable for a wide range of applications, from semiconductor manufacturing to scientific research, where precise and stable vacuum conditions are critical.

Adopting a completely oil-free and dry vacuum pumping approach, these maglev turbine pumps eliminate the need for oil, ensuring a clean vacuum environment free from any potential contamination. This oil-free operation not only contributes to the overall cleanliness of the vacuum system but also simplifies maintenance and reduces the environmental impact associated with oil disposal.

Designed with energy efficiency in mind, these ultra long life maglev turbine pumps feature optimized motor and drive systems that minimize power consumption. This translates to lower operational costs and a reduced carbon footprint, aligning with the growing demand for sustainable vacuum solutions.

To further enhance the reliability and stability of the vacuum system, these pumps are equipped with automated monitoring and diagnostic capabilities. Real-time monitoring of critical parameters, such as vibration, temperature, and pressure, enables predictive maintenance strategies, maximizing uptime and minimizing unexpected downtime.

## 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

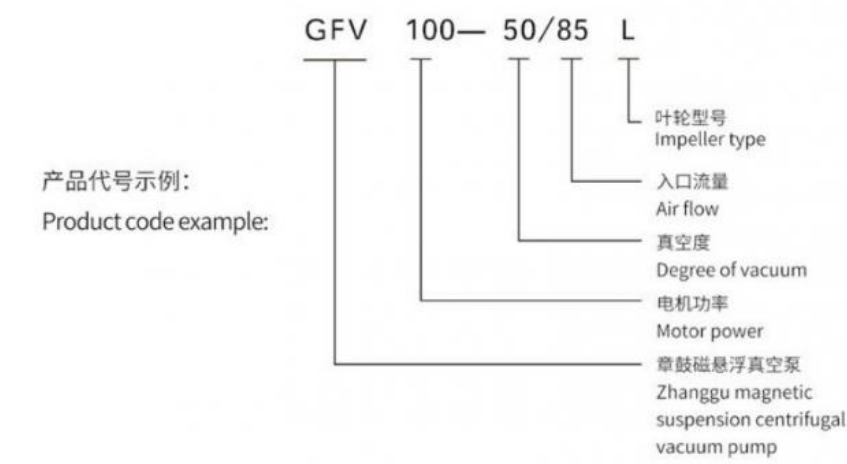
**With PLC+GPRS/3G/4G, we can real time monitor the operation status of the Blower and control flow, air pressure and speed by intelligently or manually mode. In case of failure, it can also be repaired and debugged remotely.**

### Application

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

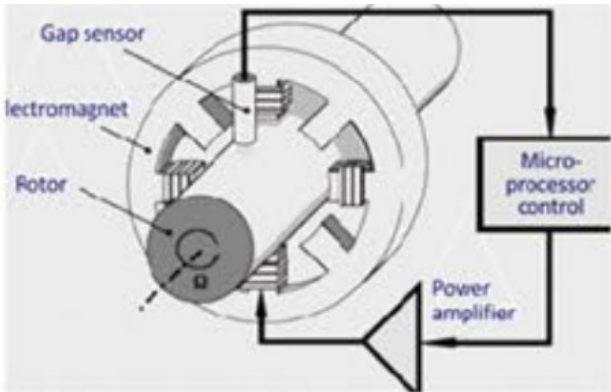
Model Selection of Magnetic Suspension Centrifugal Vacuum Pump

Model	Vacuum pump(kPa)	Air volume range	Power (kw)	Suction pipe diameter
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 independentintellectual property rights can guarantee the rotor system is suspended by electromagneticeforce when the equipment is powered on.The controller ensures that the signal is collectedmore 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 anydamage due to the sudden power failure or downtime.



Bearing technology

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

First-class lean manufacturing and testing base

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



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