



**Yixing Aipu Air System Equipment Co., Ltd**  
aipukqdl.com



## Contactless Magnetic Levitation Pump Zero Emissions Energy Saving and Contamination-Free Vacuum Solution

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

- Material: Stainless Steel
- Models: GFV75
- Brand Name: Aipu

for more products please visit us on [aipukqdl.com](http://aipukqdl.com)

# Contactless Magnetic Levitation Pump Zero Emissions Energy Saving and Contamination-Free Vacuum Solution

## Product Description

Environmentally Friendly Magnetic Levitation Dry Vacuum Pumps - Zero Emissions, Energy Saving and Carbon Reducing Clean Vacuum Solutions

Key Features:

Emission-Free Operation:

Completely oil-free and dry vacuum pumping technology

Eliminates the need for oil, preventing any potential leaks or emissions

Energy-Efficient Design:

Optimized motor and drive systems for low power consumption

Contributes to reduced operational costs and carbon footprint

Magnetic Levitation Technology:

Contactless operation with no mechanical wear and tear

Ensures long service life and minimized maintenance requirements

High Vacuum Performance:

Advanced multi-stage turbomolecular design

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

Clean and Contamination-Free Vacuum:

Oil-free operation maintains a clean vacuum environment

Ideal for sensitive applications requiring high purity

These environmentally friendly magnetic levitation dry vacuum pumps offer a clean and sustainable vacuum solution, addressing the growing demand for carbon-reducing technologies. Leveraging the latest advancements in vacuum technology, these pumps achieve zero emissions through a completely oil-free and dry pumping design.

By eliminating the need for oil, the risk of potential leaks and contamination is eliminated, ensuring a clean vacuum environment that is ideal for sensitive applications. This oil-free operation also contributes to the overall environmental friendliness of the system, as it prevents the disposal of used oil and the associated carbon footprint.

The energy-efficient design, featuring optimized motor and drive systems, further enhances the sustainability of these magnetic levitation dry vacuum pumps. The reduced power consumption not only leads to lower operating costs but also significantly contributes to the reduction of the overall carbon footprint.

Utilizing magnetic levitation technology, these pumps achieve contactless operation, eliminating mechanical wear and tear.

This innovative design approach ensures long service life and minimized maintenance requirements, reducing the resource consumption and environmental impact associated with frequent maintenance and replacement.

Capable of delivering high vacuum performance down to  $10^{-9}$  Torr, these environmentally friendly dry vacuum pumps are well-suited for a wide range of applications, including semiconductor manufacturing, scientific research, and industrial processes, where a clean and contamination-free vacuum environment is critical.

## 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

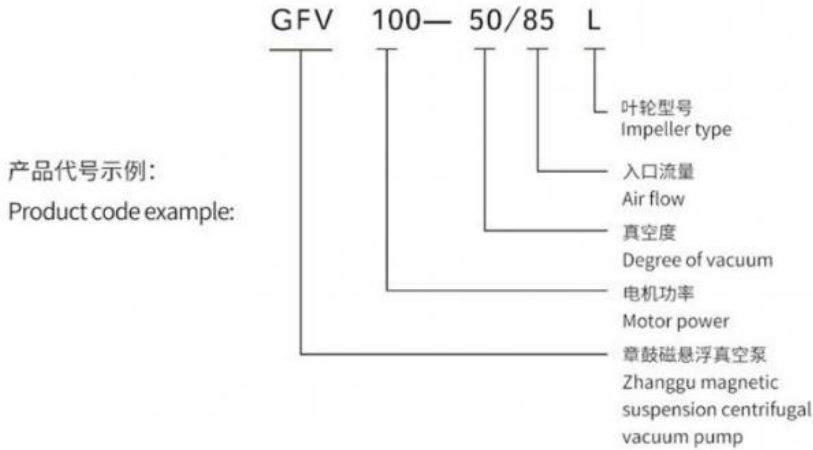
**With PLC+GPRS/3G/4G, we can real time monitor the operation status of the Blower and control flow, air pressure and speed by intelligently or manually mode. In case of failure, it can also be repaired and debugged remotely.**

### Application

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

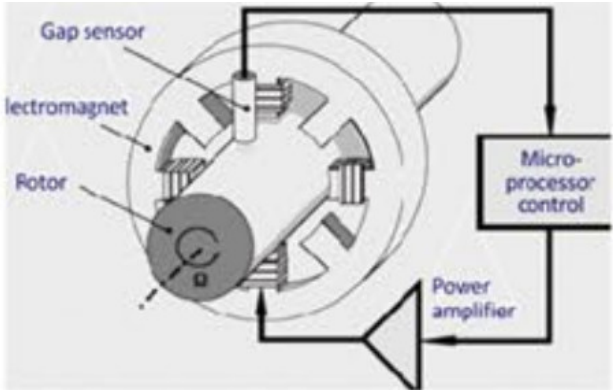
## Model Selection of Magnetic Suspension Centrifugal Vacuum Pump

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 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.



**Yixing Aipu Air System Equipment Co., Ltd**



13771572002



183426306@qq.com



aipukqdl.com

Yixing Yicheng Street Hardware Electromechanical City, Phase I, Block 5, District 3, 8071