



Magnetic Levitation Pump Maglev Blower Maglev Compressor Maglev Fans 44-91m³/min

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

- Gas Volume Range: 44-91m³/min
- Models: GFV75
- Power: 75KW
- Brand Name: Aipu
- Highlight: 75KW Maglev Blower, Maglev Compressor, Maglev Fans



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Factory Supply Vacuum Pump Maglev Blower Maglev Compressor Maglev Fans

Product Description

Magnetic Suspension Centrifugal Vacuum Pump is a product of high efficiency, energy saving and environment-friendly that is directly mounted by high-speed PMSM and ternary flow centrifugal impeller. The shaft vibration is timely supervised by build-in displacement sensor. The collected data will be input to the Magnetic Suspension Bearing Controller for computation to generate the control current. This current will be input to the windings of Magnetic Suspension Bearing to generate the magnetic force for suspension.

PMSM generates frequency controllable current via inverter, this current will be input to the motor stator to generate rotation magnetic field to drive the shaft rotating at high speed.

The impeller driven by high-speed rotating shaft will throw out the air in the impeller, negative pressure is generated at the impeller. External air continuously enters the impeller from the inlet pipe. Then will be discharged from volute casing outlet. The inlet pipe was connected with the vacuum point to realize the function of vacuum pumping.

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

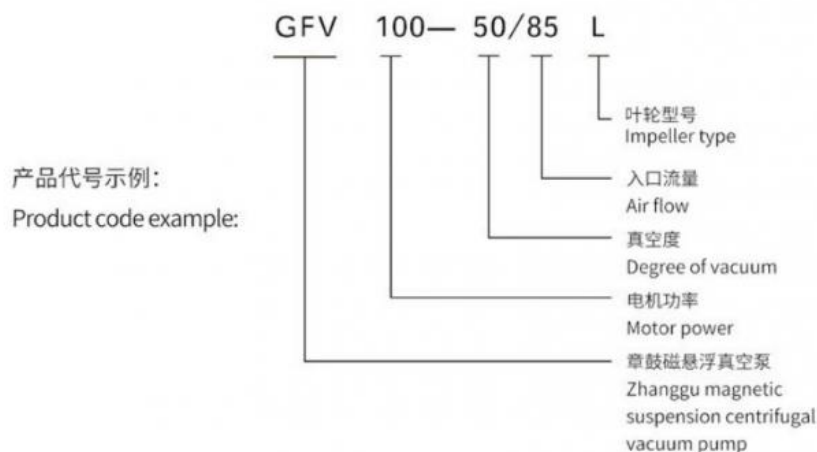
With PLC+GPRS/3G/4G, we can real time monitor the operation status of the Blower and control flow, air pressure and speed by intelligently or manually mode. in case of failure, it can also be repaired and debugged remotely.

Application

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

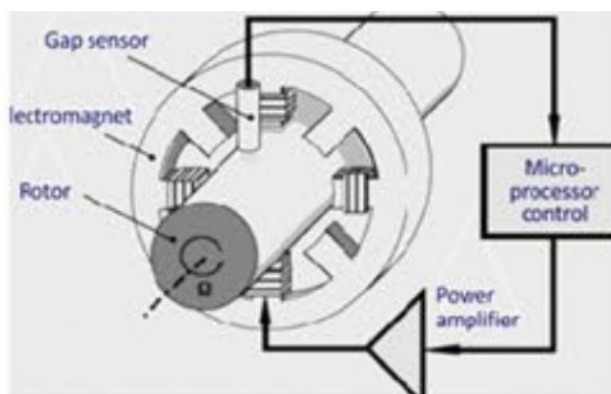
Model Selection of Magnetic Suspension Centrifugal Vacuum Pump

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.



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