



Permanent Magnet Driven Magnetic Levitation Blower 3D Flow Field Optimised Fans 66-168m³/min

Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GF150
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



Product Specification

- Typology: Centrifugal Fan
- Flow Range: 66-168m³/min
- Boost: 40-120kPa
- Bear: Autonomous Domestic Magnetic Bearings
- Efficiency: 97%
- Highlight: permanent magnetic levitation blower,
permanent magnetic levitation bearings,
168m³/min magnetic levitation blower



This magnetic levitation high efficiency permanent magnet driven 3D flow optimised fan incorporates a number of cutting edge technologies to achieve outstanding levels of efficiency, reliability and performance.

Magnetic Levitation Bearings

Electromagnetic levitation technology completely eliminates mechanical contact and friction.

Dramatically increases system life and reliability

Supports high speed rotation, optimising airflow output performance

High-efficiency permanent magnet motor drive

Adopts high efficiency permanent magnet motor as power source

Higher efficiency and power density than traditional induction motors

Fast response characteristics for rapid speed and output adjustment

Three-dimensional flow field optimisation design

Adopts three-dimensional streamline optimised impeller and flow path design.

Creates complex vortex airflow patterns to improve overall aerodynamic efficiency.

Reduced flow losses and noise and vibration

Directly coupled structure

The motor is directly coupled to the impeller, eliminating the need for gearboxes or belts.

Simplifies the overall structural design and improves transmission efficiency.

Ultra-high efficiency: the perfect combination of magnetic levitation, high-efficiency motors and a three-dimensional optimised flow field significantly reduces energy consumption.

Superior Reliability: Virtually maintenance-free due to contactless maglev and permanent magnet motor construction.

High speed performance: Maglev technology supports higher speeds and optimised airflow output.

Energy saving and high efficiency

High-speed permanent magnet motor and high-efficiency ternary flow impeller are directly coupled.

More than 30% energy-saving than traditional Roots fan.

More than 20% energy-saving than multi-stage centrifugal blower.

More than 10% energy-saving than single-stage high-speed centrifugal blower.

Adopting self-balancing technology, the vibration amount of magnetic levitation bearing is one order of magnitude smaller than that of traditional bearing and no friction. At the same time to take the active damping design, stable operation, body vibration is very small, fan noise at 80dB (A) or so.

Integrated design, skid mounted structure, easy installation, one key start and stop. Daily operation, free of mechanical maintenance, only need to replace the filter.

Adopting PLC+GPRS/3G/4G, it can monitor the running status of the fan in real time, and realise the intelligent regulation of wind volume, wind pressure, rotational speed, etc. as well as manual mode control. In case of failure, it can also be remotely repaired and debugged.

[illegible]

sizes(mm)	1700×1500×1480			1850×1700×1780			2150×1750×1700			2370×2260×2080		
Weight (kg)	800	1000	1200	1350	1500	1800	2000	2500	2800	3200	3500	

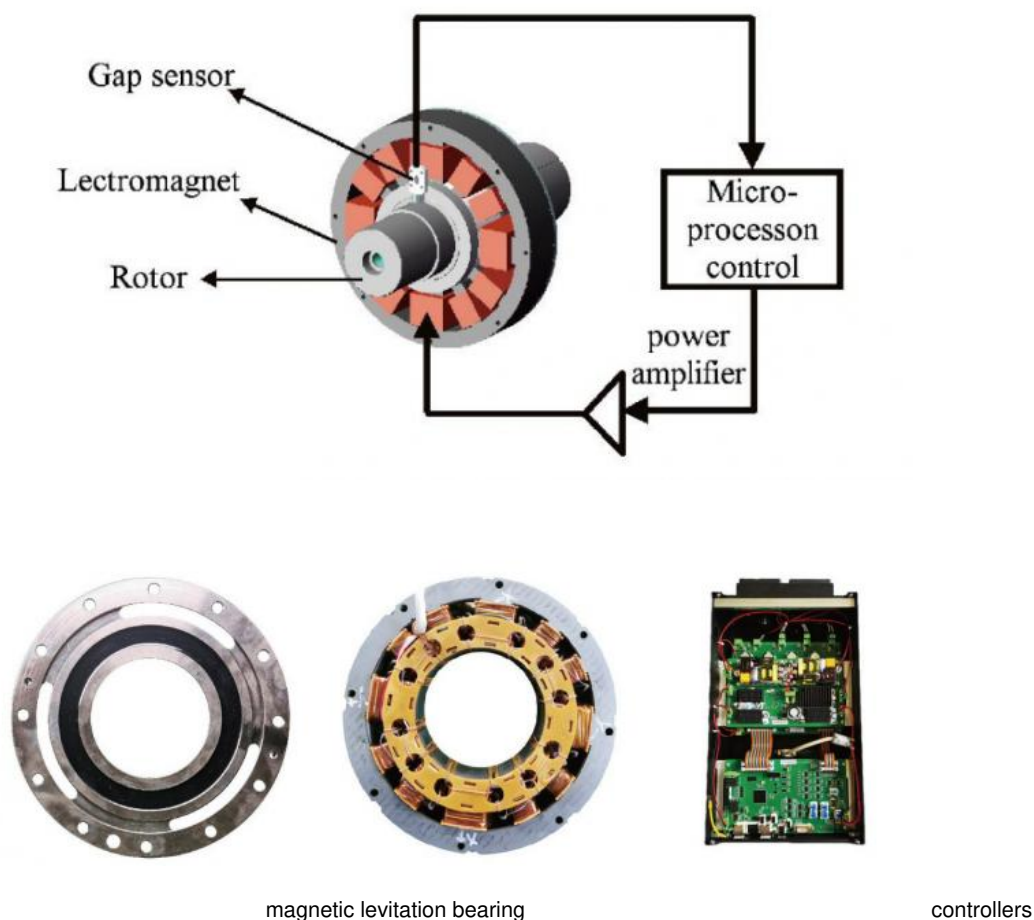
When the use conditions of the blower and the above table does not match, the need for performance conversion, our company can be non-standard design according to user requirements to meet the specific needs of users of various working conditions.

core technology

Core Technology with independent intellectual property right-Magnetic Bearing design and control technology

With independent intellectual property rights of 5 degrees of freedom magnetic levitation bearing technology, can ensure that when the equipment is energised, the rotor system can be levitated by electromagnetic force. The controller ensures more than 10,000 times of signal acquisition per second and gives real-time correction signals synchronously to ensure the stable levitation of the high-speed rotor.

With redundant power supply system and protection bearings to achieve multiple protection, will not cause any damage due to sudden power failure or fault shutdown.



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