



## Mechanical Contactless Magnetic Levitation Blower Permanent Drive Intelligent Optimised Flow Field blower

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GF250
- Minimum Order Quantity: 1
- Price: Negotiable
- Packaging Details: Export Standard Packaging
- Payment Terms: T/T, L/C



### Product Specification

- Typology: Centrifugal Fan
- Flow Range: 110-270m<sup>3</sup>/min
- Boost: 40-120kPa
- Bear: Autonomous Domestic Magnetic Bearings
- Efficiency: 97%
- Highlight: **Permanent Drive Magnetic Levitation Blower, Mechanical Contactless Magnetic Levitation Blower**



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## Mechanical contactless magnetic levitation high-efficiency permanent magnet drive intelligent optimised flow field fan

### Product Description

Contactless Magnetic Levitation Bearing  
 Adopting advanced electromagnetic levitation technology, completely eliminating mechanical contact.  
 Significantly improves system reliability and service life  
 Supports high speed rotation, optimising the airflow output of the fan.  
 High-efficiency permanent magnet motor drive  
 Adopts high efficiency, high power density permanent magnet motors as the drive system.  
 Higher energy conversion efficiency than conventional induction motors  
 Fast response characteristics for quick adjustment of speed and output  
 Intelligent optimised 3D flow field design  
 Advanced numerical simulation and intelligent algorithms are used to optimise the design of the three-dimensional flow field.  
 Creates complex vortex airflow patterns, dramatically improving overall aerodynamic efficiency.  
 Reduces flow losses and noise and vibration  
 Directly coupled compact structure  
 The motor is directly coupled to the impeller, eliminating the need for a gearbox or belt drive.  
 Simplified overall structural design and improved transmission efficiency  
 Smaller and lighter overall dimensions.  
 Excellent performance indicators  
 Ultra-high efficiency: the perfect combination of magnetic levitation, high-efficiency motors and an optimised flow field significantly reduces energy consumption.  
 Outstanding reliability: maintenance-free due to the mechanical contact-free construction of the maglev and permanent magnet motors.  
 High-speed performance: Maglev technology supports higher speeds and optimised airflow output.  
 Compact and lightweight: direct coupled design for smaller and lighter overall dimensions.

### Performance Features

#### 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.

#### Low noise

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.

#### Maintenance-free

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

#### Intelligent control

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.

### Magnetic Levitation Blower Series Selection

Product Series	GF 50	GF 75	GF 100	GF 125	GF 150	GF 175	GF 200	GF 250	GF 300	GF350	GF 400
Motorpower(KW)	50	75	100	125	150	175	200	250	300	350	400
Boost (kPa)	Inlet flow rate (m³/min) 1atm 20°C										
40	55	86	110	156	168	208	219	270	323	425	443
50	50	74	100	132	149	185	198	247	297	375	396
60	43	64	85	113	127	158	169	210	253	320	356
70	37	55	74	99	111	140	148	184	222	280	312
80	33	49	65	86	97	120	129	160	193	240	271
90	28	44	57	75	84	105	112	139	167	210	235
100		40	52	68	77	96	102	127	153	190	215
110					71	88	95	118	142	175	199
120					66	82	88	110	132	165	185
130									124	152	165

150									148
sizes(mm)	1700×1500 ×1480	1850×1700×1780	2150×1750×1700	2370×2260×2080					
Weight (kg)	800	1000	1200	1500	2000	2500	2800	3500	

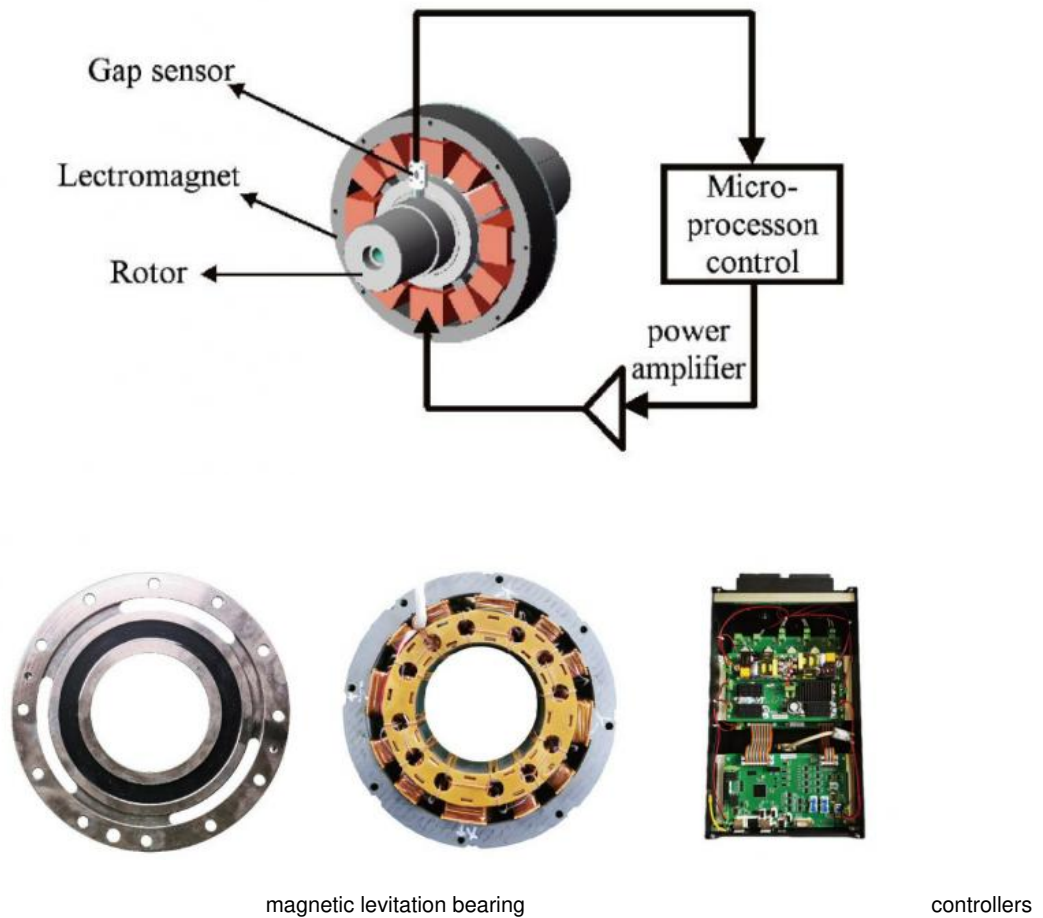
When the use conditions of the blower and the above table does not match, the need for performance conversion, our company can be non-standard design according to user requirements to meet the specific needs of users of various working conditions.

## 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.



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