



200-250kW Micro Oil Screw Air Compressor 4.5-5.5bar Industrial Grade

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GDK200-250kW
- Minimum Order Quantity: 1PC
- Price: negotiable
- Packaging Details: container
- Delivery Time: 10
- Payment Terms: tt
- Supply Ability: 10000t/y



Product Specification

- Exhaust Pressure: 4.5-5.5bar(g)
- Air Flow: 17.2-615m³/min
- Type: Micro Oil Screw Air Micro Oil Screw Compressed Air System Compressor:
- Rated Power: 200kW-250kW
- Noise Level: ≤80dB(A)
- Weight: 4598-6265kg
- Voltage: 6kV/10kV/400V
- Highlight: **Industrial Grade Screw Compressor, Low-Pressure Screw Compressor**

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Product Description:

The GDK200-250KW low-pressure micro oil screw air compressor is an efficient equipment designed specifically for industrial scenarios that require high compressed air quality and stable low-pressure supply. This model adopts advanced screw host technology, combined with a micro oil lubrication system, to provide stable and energy-saving compressed air output while ensuring low oil content. It is suitable for industries such as pharmaceuticals, food, electronics, textiles, etc. that are sensitive to air quality.

Core Features:

New Low Voltage 5barg Screw Host

The energy consumption of air compressors accounts for a significant proportion of your company's energy costs.

Our engineers and design experts have optimized the host using advanced computer simulation technology to improve its efficiency. In addition, the host has a well-known gas production in the industry, with lower operating noise, longer service life, and greater reliability, It can further reduce your overall cost of ownership.

Design for long-term reliable operation

The meticulous arrangement of lubrication points can effectively deliver lubricating oil accurately

Go to the required location, improve reliability and reduce energy consumption. Increase the fuel injection port of the main engine, optimize the lubrication of the main engine, and reduce the exhaust temperature.

Advanced gear design can achieve more efficient and reliable driving energy

The transmission of quantity.

Integrated gearbox

3.The integrated gearbox can reduce wind resistance loss and transmission system length, making performance more efficient and maintenance more convenient.

Excellent energy efficiency

Advanced rotor profile

4.Enhanced bearing arrangement helps reduce resistance, improve energy management, and thus enhance reliability and performance.

5.The maintenance free sealed transmission system does not require regular maintenance and can protect it from damage caused by dust and moisture.

6.The optimized screw rotor profile can improve energy efficiency, significantly increase exhaust volume, and reduce energy costs.

7.The arrangement of low friction bearings helps to improve energy efficiency.

8.Optimized gear lubrication increases operational reliability and reduces energy consumption by cleverly injecting lubricating oil into the gear meshing area.

9.The streamlined inlet and outlet channels reduce pressure drop. Enlarge the exhaust port of the main engine, reduce the pressure drop of the main engine, and improve the efficiency of the unit.

10.The optimized fuel injection process reduces temperature and improves efficiency during compression.

Optimized internal structure design



Intelligent

The Luminance series intelligent controller can monitor system parameters in real time, and the standard IoT function can enable you to know the status of the air compressor at any time no matter where you are, and achieve early warning to prevent unnecessary sudden shutdowns from causing you losses.



Reliable

The oil separation system, a three-stage separation system with cylindrical baffles, delivers oil in the air at a concentration of less than 3 parts per million, which can extend its service life and improve air quality.



Efficient/Reliable

The IP54 dustproof and waterproof fog shell of the electrical control box prevents pollution and saves high maintenance costs Large margin frequency converter ensures stable and efficient control of unit operation.



Efficient/easy to maintain

Large margin cooler to meet the cooling needs of low-pressure and large air volume under harsh working conditions, with reserved maintenance space for easy maintenance.



Efficient/Reliable

Low voltage power frequency motor, equipped with IEC60034-30 standard IE3 high-efficiency motor, with a protection level of IP55



High voltage power frequency motor, equipped with GB30254 standard national second-class energy efficiency motor



Variable frequency motor, equipped with high-efficiency IE5, IP66 oil cooled permanent magnet motor, achieving H-level insulation level and B-level temperature rise level.



Efficient/Reliable

Newly designed high-efficiency low-voltage host, optimized profile design, providing first-class gas volume and efficiency, sturdy and reliable, capable of long-term stable operation

A true low-pressure micro oil screw air compressor

Efficient

- The new generation of hosts and transmission systems designed specifically for low voltage provide excellent specific power and flow, reducing energy consumption
- Efficient motor, providing excellent energy efficiency
- The air-cooled unit is equipped with dual centrifugal fans, which have high efficiency, low noise, and large air volume; The water-cooled unit adopts stainless steel tube bundles to reduce the probability of corrosion

Productivity

- Can be connected to the same side pipeline on site for easy installation
- Large reserved space for internal maintenance, convenient for daily maintenance
- Wide color screen controller, standard RS485, Ethernet interface, supports Modbus RTU communication protocol

Reliable

- Designed for higher ambient temperatures, able to adapt to harsher working conditions
- Integrated water separator reduces post-treatment load and extends equipment lifespan
- Large size oil separator cylinder and oil separator core, more complete oil and gas separation, low fuel consumption
- Standard electrical control box with IP54 protection level, stronger waterproof and dustproof ability, safer and more reliable

Intelligent Internet Platform



In order to extend the normal operation time to a greater extent and allow the owner to safely manage the operation data of the air compressor at any time. The data system inside the GD air compressor will regularly send data to the data cloud platform, which customers can access through portable computers, tablets, or smartphones, allowing you to keep track of the machine's operation at any time. We provide layered service content, and customers can choose their level of data monitoring and analysis according to their specific operational needs.

Reduce planned downtime

Visual maintenance plan

Online unit status monitoring

Reduce the risk of downtime due to malfunctions

Timely maintenance and upkeep

Quickly contact product experts

Application area



Thermal power industry

Main applications:

- Pneumatic ash removal system;
- Pneumatic conveying of limestone powder in power plant calcium injection desulfurization.

Gas source usage:

- The ash removal system and limestone powder system in desulfurization generally use one gas source.
- The gas source of the pneumatic conveying system is often separated from other gas sources in the power plant, such as instrument gas. (Ensure stable system operation)



Cement Industry

- The quarry stores and mixes raw materials, and compressed air blows the limestone/clay/cement slurry mixture to help it mix thoroughly and evenly
- Bulk cement special vehicles (including trains, cars), ship pneumatic conveying of cement

Low pressure micro oil screw air compressors, with their advantages of high efficiency, stability, energy saving, and reliability, have been widely used in various industries including powder and particle crushing, grinding, and material conveying processes, including but not limited to manufacturing, construction engineering, medical equipment, food processing, as well as petrochemical, mining, environmental engineering, etc. With the continuous advancement of technology and the sustained growth of market demand, its application fields will further expand.



Product functions and specifications

Performance parameters of GDK200-250 power frequency standard unit

Model	Maximum pressure bar (g)	Rated power kW	Displacement* (FAD)m ³ /min	Voltage V	External dimensions L x W x H (mm)	Weight** kg
GDK200-5.5A	5.5	200	50.4	400V	3800 x 2150 x 2320	6220
GDK200-5.5W	5.5	200	50.4	400V	3800 x 2150 x 2320	5800
GDK200-5.5A MV	5.5	200	50.4	6kV/10kV	3800 x 2150 x 2320	6220
GDK200-5.5W MV	5.5	200	50.4	6kV/10kV	3800 x 2150 x 2320	5800
GDK250-5.5A	5.5	250	61.0	400V	3800 x 2150 x 2320	6265
GDK250-5.5W	5.5	250	61.0	400V	3800 x 2150 x 2320	5845
GDK250-5.5A MV	5.5	250	61.0	6kV/10kV	3800 x 2150 x 2320	6265
GDK250-5.5W MV	5.5	250	61.0	6kV/10kV	3800 x 2150 x 2320	5845

Performance parameters of GDK200-250 frequency conversion standard unit

Model	Pressure Range bar (g)	Rated power kW	Gas volume range* (FAD)m ³ /min	Voltage V	External dimensions L x W x H (mm)	Weight** kg
GDK200-5.5A VSD	4.5-5.5	200	17.2-61.0	400V	3100 x 2150 x 2320	5018
GDK200-5.5W VSD	4.5-5.5	200	17.2-61.0	400V	3100 x 2150 x 2320	4598
GDK250-5.5A VSD	4.5-5.5	200	17.3-61.5	400V	3100 x 2150 x 2320	5018
GDK250-5.5W VSD	4.5-5.5	200	17.3-61.5	400V	3100 x 2150 x 2320	4598

*The displacement is measured according to the testing standard in Appendix C of ISO1217:2009

**Weight deviation for reference only

Packing and Shipping:

Product Packaging:

The Micro oil screw compressed air system comes in a sturdy cardboard box with the product image and specifications printed on the outside. Inside, the product is securely packaged with foam inserts to prevent any damage during transportation.

Shipping:

Our standard shipping time is 3-5 business days. For expedited shipping, please contact our customer service team. We ship via trusted carriers such as UPS, FedEx, and USPS and provide a tracking number for your convenience.

Comprehensive and thoughtful after-sales service:

As a professional system service provider, we have a professional technical service model and technical quality management, a strong technical service team, and sufficient spare parts inventory to serve domestic and foreign customers at any time.

Technical guidance for building a new air compressor station building

Professional technicians conduct on-site debugging

Training for customer equipment management personnel

Regular visits to customers and free pre inspection of equipment

24-hour free service hotline, timely receiving feedback on customer needs for genuine spare parts, quality assurance

Authentic spare parts, quality assurance

Multiple options for extended warranty services to meet different customer needs

Timed service packages make maintenance easier, and ordering service packages ensures that customers quickly and conveniently have and use the correct spare parts

GD air compressors offer multiple customization options to meet the needs of different industries and processes

We provide overall evaluation services for air compressor systems. Regardless of the brand of air compressor and post-processing equipment used by customers, we have a professional team and equipment to collect and analyze data from the entire system, track system performance, provide professional solutions to improve system efficiency, reduce leaks, and lower operating costs

FAQ:

Q: What is the brand name of this product?

A: The brand name of this product is Aipu.

Q: What is the model number of this product?

A: The model number of this product is Micro oil screw compressed air system.

Q: Where is this product made?

A: This product is made in China.

Q: Does this product have any certifications?

A: Yes, this product is certified by ce.ul.

Q: What is the minimum order quantity for this product?

A: The minimum order quantity for this product is 1pc.

Q: Is the price of this product negotiable?

A: Yes, the price of this product is negotiable.

Q: What is the packaging details for this product?

A: The packaging details for this product is container.

Q: How long is the delivery time for this product?

A: The delivery time for this product is 30 days.

Q: What are the payment terms for this product?

A: The payment terms for this product is tt.

Q: What is the supply ability of this product?

A: The supply ability of this product is 10000t/y



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