



7.5-75kW Permanent Magnet Variable Frequency Micro Oil Screw Air Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GDK07-75kW
- Minimum Order Quantity: 1PC
- Price: negotiable
- Packaging Details: container
- Delivery Time: 10
- Payment Terms: tt
- Supply Ability: 10000t/y



Product Specification

- Exhaust Pressure: 7-16barg
- Air Flow: 0.51-13.4m³/min
- TypeMicro Oil Screw Air Permanent Magnet Variable Frequency Compressor: Micro Oil Screw Air Compressor
- Rated Power: 7.5kW-75kW
- Noise Level: ≤80dB(A)
- Weight: 169-1482kg
- Highlight: **Micro Oil Screw Air Compressor, Micro Oil Screw Air Compressor Technology**

Product Description

Product Description:

GDK07-75KW is an efficient and energy-saving micro oil screw air compressor designed specifically for the industrial sector, suitable for applications that require high compressed air quality but allow for trace oil content. This model adopts Dengfu's advanced screw host technology and intelligent control system, providing a stable, reliable, and energy-saving compressed air solution.

Core Features:

Excellent Host



Adopting Ingersoll Rand host for comprehensive performance improvement

Geometric and lubrication optimization of gears to achieve lower noise and higher reliability

Dynamic simulation optimization of the intake and exhaust channels of the host to reduce pressure drop and improve efficiency

Innovative design

Intake: The perfect combination of high-efficiency intake filter and ultra-low pressure loss intake valve reduces pressure loss and improves efficiency

Drive: Adopting IEC standard high-efficiency motor, gear direct transmission mode, no vulnerable parts, more efficient

Exhaust: The convenient top exhaust device can easily guide the air, making it easy to eliminate or recover waste heat

Intelligent control



Touch screen color display

Embedded IoT functionality

Multi machine joint control

Standard Modbus, remote/local monitoring

Multi detection security protection

Host exhaust temperature detection

Pressure detection before and after oil separation

Maintenance Tips

Variable frequency energy-saving

No peak starting current, completely eliminating energy consumption during unloading

Variable frequency starting current is low and has no impact on the power grid, which is particularly important for users in unstable areas of the power grid. Variable frequency control maintains the pressure band within 0.1 bar without the need for large gas storage tanks

The pressure will not exceed the required value, and there is no energy waste

The low starting torque of the motor has minimal impact on mechanical components, resulting in a longer service life of mechanical components (such as bearings). The torque is transmitted according to actual needs without wasting excess energy

Safe motor (power frequency unit)



IP55 closed motor (F-class insulation, B-class temperature rise), effectively dustproof and water-resistant

Can operate continuously and stably in an environment of 55 °C/131 °F

Permanent magnet motor (frequency converter unit)



Compared with asynchronous motors, rare earth permanent magnet motors have a simpler structure

Single, reliable operation, high power density, wide speed range, it is the ideal power choice for high-efficiency and energy-saving air compressors

efficient

Small size and light weight

Low noise

High starting torque

Start without impact

Wide speed range

Configure efficient IE5, IP66 oil cooled permanent magnet variable frequency motor, achieving H-level insulation and B-level temperature rise.

Connection method of host motor

GDK07-22 power frequency unit adopts belt connection

GDK30-75 power frequency unit adopts gear direct connection

GDK07-75 permanent magnet frequency converter unit adopts coaxial connection

Exquisite design, excellent performance, energy-saving and environmentally friendly, on-site micro oil screw permanent magnet variable frequency air compressor

Efficient Drive System

The host is precision manufactured, sturdy and durable

Coaxial connection of the host motor for higher transmission efficiency

Without gearbox and coupling, the drive system structure is more stable

Oil cooled permanent magnet synchronous motor

High quality permanent magnets are selected, which can withstand temperatures up to 180 °C.

The rotor has no excitation current, significantly improving efficiency.

The starting current is small, reducing the impact on the power grid.

Good performance indicators, with approximately constant efficiency and power factor.

Powerful frequency converter

Built in frequency converter, unique air duct design, stable and reliable

Adopting cutting-edge vector control technology, it has excellent low-frequency speed characteristics and dynamic response characteristics, and complete protection functions, which can achieve comprehensive protection from the frequency converter to the motor

Safe lightning protection design with built-in lightning overcurrent protection device effectively enhances the self-protection capability of the frequency converter against induced lightning

The S series permanent magnet frequency converter brings you

Start smoothly

No peak starting current

Completely eliminating energy consumption during unloading and reducing the burden on electrical components

The low starting current of frequency conversion has no impact on the power grid, which is particularly important for users in factories located in unstable areas of the power grid

Stable output pressure

Variable frequency control maintains the pressure band within 0.1 bar without the need for a large gas storage tank

The pressure will not exceed the required value, and there is no energy waste

No startup impact

The low starting torque of the motor has minimal impact on mechanical components, resulting in longer service life of mechanical components such as bearings

Transmit torque according to actual needs without wasting excess energy

IConn Intelligent Connected Cloud

Unit operating parameter report and reporting function

Real time data based monitoring of unit operation status, fault alarms, and event notifications

Problem diagnosis based on predictive analysis

Energy consumption and reliability diagnostic analysis



IConn Intelligent Connected Cloud aims to maximize normal operating time and enable homeowners to achieve real-time data management of compressed air systems with peace of mind. The advanced sensor technology inside the compressor regularly sends data to our cloud platform, which can be accessed from your personal computer, tablet, or smartphone to keep you informed of the machine's operation at any time. We provide layered service content, and you can choose the level of data monitoring and analysis according to your specific operational needs.

Enjoy numerous benefits

Real time operational data can be obtained anytime, anywhere

Powerful data analysis helps the operation and maintenance team maintain the ideal operational performance of the air compressor and reduce the risk of downtime due to malfunctions

Equipment maintenance notifications help ensure equipment reliability and extend service life

Real time monitoring provides useful data and facilitates communication, thereby improving productivity and mechanical efficiency

Sending proactive service alerts via email; Regularly provide regular data and access it through an online customer portal

If there is an abnormal situation with the compressor, your Ingersoll Rand authorized service provider will immediately receive an alarm and respond proactively, ensuring that your assets are safe and sound

New devices of specific models can be included as standard equipment at the factory, or existing devices can be upgraded as part of the CARE service contract

 Reduce planned downtime Better performance of the unit	 Visual maintenance plan The maintenance plan is clear at a glance, Be in control	 Timely maintenance and upkeep Extend the service life of the unit
 Online unit status monitoring Improve productivity and mechanical efficiency	 Reduce the risk of downtime due to malfunctions Reduce unplanned downtime	 Quickly contact product experts Provide better professional insights

Application area

Manufacturing industry: automobiles, mechanical processing, injection molding, spraying, etc

Food&Medicine: Packaging, Filling, Pneumatic Conveying (with post-processing required)

Electronics industry: SMT surface mount, precision instrument manufacturing

Other: Mining, construction, textile, etc

Product functions and specifications

Model	Power kW	Exhaust pressure(bar(g))	Volume flow m³/min	External dimensions (L x W x H)mm	Weight kg	Interface size BSPT
GDK07 75Power frequency unit parameters						
GDK07-7A	7.5	7	1.22	716 x 677 x 1061	222	G3/4
GDK07-8A	7.5	8	1.14	716 x 677 x 1061	222	G3/4
GDK07-10A	7.5	10	1	716 x 677 x 1061	222	G3/4
GDK07-12.5A	7.5	12.5	0.81	716 x 677 x 1061	222	G3/4
GDK11-7A	11	7	1.69	716 x 677 x 1061	225	G3/4
GDK11-8A	11	8	1.58	716 x 677 x 1061	225	G3/4
GDK11-10A	11	10	1.41	716 x 677 x 1061	225	G3/4
GDK11-12.5A	11	12.5	1.23	716 x 677 x 1061	225	G3/4
GDK15-7A	15	7	2.5	984 x 1017 x 1065	465	G1
GDK15-8A	15	8	2.4	984 x 1017 x 1065	465	G1
GDK15-10A	15	10	2.07	984 x 1017 x 1065	465	G1
GDK15-12.5A	15	12.5	1.7	984 x 1017 x 1065	465	G1
GDK18-7A	18.5	7	3.1	993 x 1020 x 1118	509	G1
GDK18-8A	18.5	8	3	993 x 1020 x 1118	509	G1
GDK18-10A	18.5	10	2.61	993 x 1020 x 1118	509	G1
GDK18-12.5A	18.5	12.5	2.15	993 x 1020 x 1118	509	G1
GDK22-7A	22	7	3.7	993 x 1020 x 1118	524	G1
GDK22-8A	22	8	3.6	993 x 1020 x 1118	524	G1
GDK22-10A	22	10	3.08	993 x 1020 x 1118	524	G1
GDK22-12.5A	22	12.5	2.72	993 x 1020 x 1118	524	G1
GDK30-7A	30	7	5.43	1544 x 884 x 1405	697	G1 1/2
GDK30-8A	30	8	5.21	1544 x 884 x 1405	697	G1 1/2
GDK30-10A	30	10	4.7	1544 x 884 x 1405	697	G1 1/2
GDK37-7A	37	7	6.5	1544 x 884 x 1405	742	G1 1/2
GDK37-8A	37	8	6	1544 x 884 x 1405	742	G1 1/2
GDK37-10A	37	10	5.5	1544 x 884 x 1405	742	G1 1/2
GDK45-7A	45	7	8.23	1544 x 884 x 1405	870	G1 1/2
GDK45-8A	45	8	8	1544 x 884 x 1405	870	G1 1/2
GDK45-10A	45	10	6.8	1544 x 884 x 1405	870	G1 1/2
GDK55-7A	55	7	10.6	1969 x 1234 x 1605	1472	G2
GDK55-8A	55	8	9.8	1969 x 1234 x 1605	1472	G2
GDK55-10A	55	10	8.6	1969 x 1234 x 1605	1472	G2
GDK75-7A	75	7	13.4	1969 x 1234 x 1605	1482	G2
GDK75-8A	75	8	13	1969 x 1234 x 1605	1482	G2
GDK75-10A	75	10	11.3	1969 x 1234 x 1605	1482	G2
GDK07 75HPMParameters of permanent magnet frequency conversion unit						
GDK07HPM-A	7.5	7-12.5	0.15-1.18	840 x 680 x 810	169	G3/4"
GDK11HPM-A	11	7-12.5	0.15-1.65	840 x 680 x 810	182	G3/4"
GDK15HPM-A	15	7-12.5	0.92-2.54	900 x 800 x 1300	325	G1"
GDK18HPM-A	18.5	7-12.5	0.92-3.12	900 x 800 x 1300	340	G1"
GDK22HPM-A	22	7-12.5	0.92-3.66	900 x 800 x 1300	342	G1"
GDK30HPM-A	30	7-10	2.00-5.60	1544 x 884 x 1405	618	G1 1/2
GDK37HPM-A	37	7-10	2.00-6.80	1544 x 884 x 1405	628	G1 1/2
GDK45HPM-A	45	7-10	2.00-8.10	1544 x 884 x 1405	629	G1 1/2
GDK55HPM-A	55	7-10	2.00-10.10	1969 x 1234 x 1605	839	G2
GDK75HPM-A	75	7-10	2.00-12.60	1969 x 1234 x 1605	859	G2

Packing and Shipping:

Product Packaging:

The Micro oil screw air compressor 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.

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 air compressor.

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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