# High performance micro oil screw air compressor for heavy machinery equipment

Our Product Introduction

## Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GDK 185-315kW
- Minimum Order Quantity: 1PC
- Price: negotiable
- Packaging Details: container
- Delivery Time: 10
- Payment Terms: tt
- Supply Ability: 100t/y

## Product Specification

- Exhaust Pressure: 7-10barg
- Air Flow: 12.1-64m³/min
- Type: Micro Oil Screw Air Compressor
- Rated Power: 85kW-315kW
- Noise Level: ≤80dB(A)
- Weight: 4805-6660kg

## Product Description

## Product Description:

The GDK185-315KW micro oil screw air compressor adopts advanced screw technology, combined with high-efficiency design and low fuel consumption characteristics, designed specifically for industries, manufacturing, construction, and other fields that require stable air sources. This series of products is known for high reliability, energy conservation, environmental protection, and low maintenance costs, and is suitable for medium and high voltage application scenarios.

## Core Features:

**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 monitoring of unit status

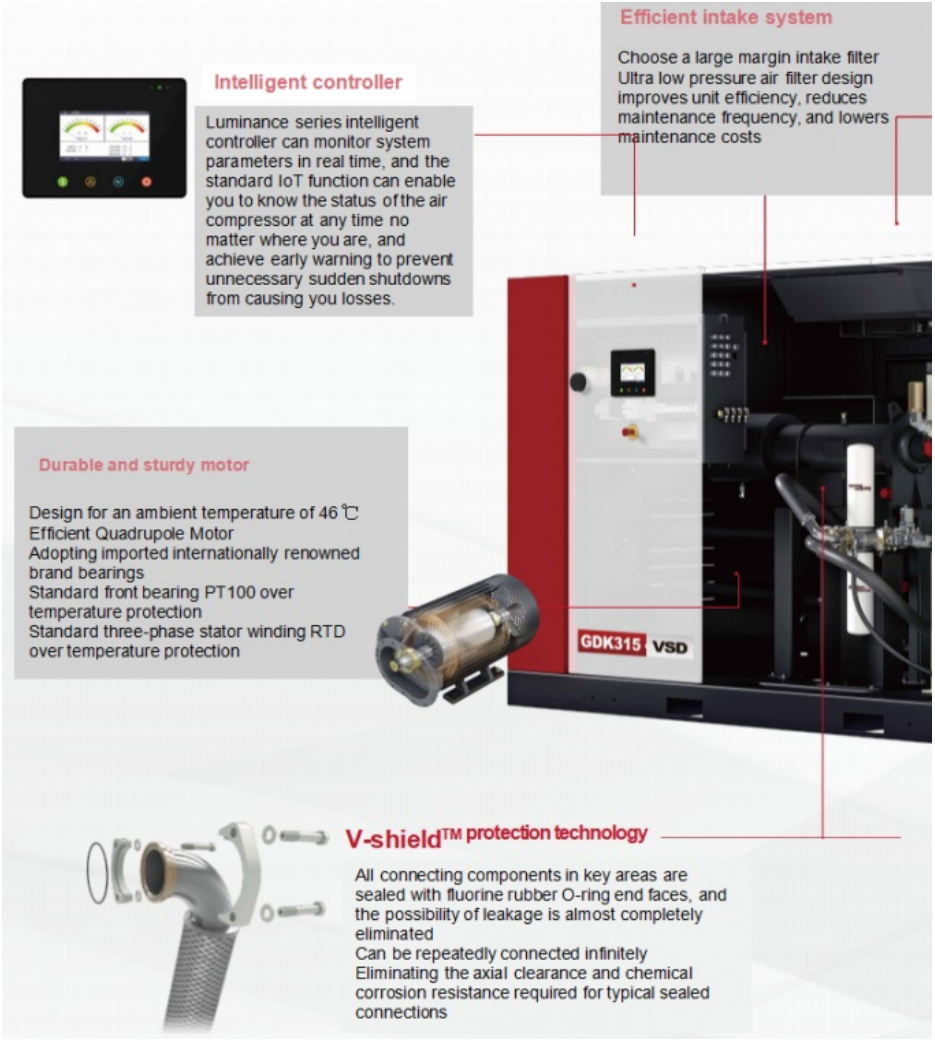
Reduce the risk of downtime due to malfunctions and maintain in a timely manner

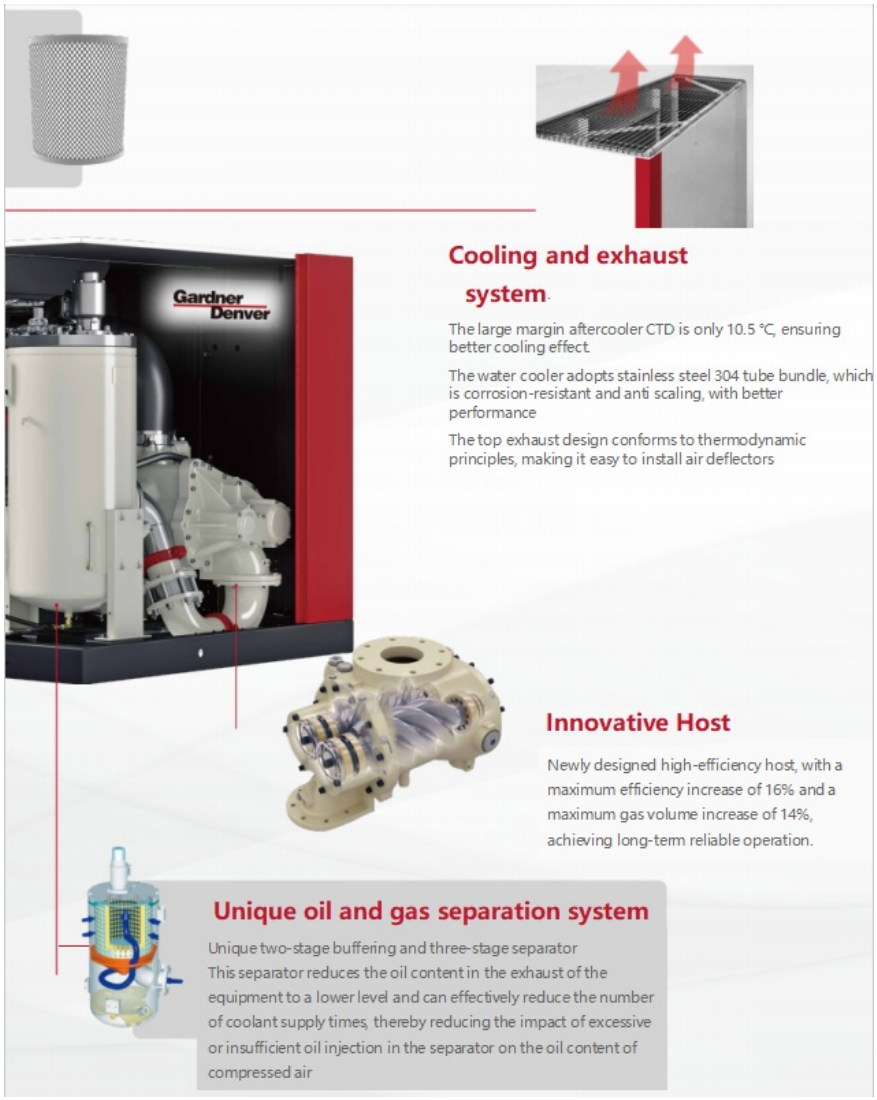
Quickly contact product experts

**Service maintenance package**

Genentenfu has developed maintenance packages that cover the entire operating cycle for customers to choose from, catering to their different maintenance needs and operating times. Customized maintenance packages can effectively cover spare parts that need to be replaced regularly for daily consumption, as well as provide maintenance components for major parts to ensure the normal and healthy operation of the machine.

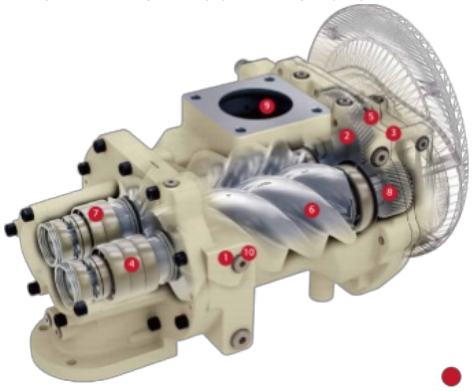
**Optimized internal structure design**


Efficient intake system
Choose a large margin intake filter
Ultra low pressure air filter design improves unit efficiency, reduces maintenance frequency, and lowers maintenance costs
Intelligent controller
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.
Durable and sturdy motor
Design for an ambient temperature of 46℃
Efficient Quadrupole Motor
Adopting imported internationally renowned brand bearings
Standard front bearing PT100 over temperature protection
Standard three-phase stator winding RTD over temperature protection
GDK315 VSD
V-shield™ protection technology
All connecting components in key areas are sealed with fluorine rubber O-ring end faces, and the possibility of leakage is almost completely eliminated
Can be repeatedly connected infinitely
Eliminating the axial clearance and chemical corrosion resistance required for typical sealed connections




**Newly designed high-efficiency 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, resulting in a 16% increase in efficiency. In addition, the host has a well-known gas production rate in the industry, lower operating noise, longer service life, and greater reliability: multiple advantages help your company's profits to reach new heights.



The meticulous arrangement of lubrication points can effectively deliver lubricating oil to the required location, improve reliability, and reduce energy consumption.

Advanced gear design can achieve more efficient and reliable transmission of driving energy.

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

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

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

The optimized screw rotor profile can improve energy efficiency by 16%, increase exhaust volume by 14%, and also reduce energy costs.

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

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

The streamlined inlet and outlet channels reduce pressure drop.

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

**Advantages of frequency conversion**
Variable frequency air compressors have greatly improved the efficiency and reliability of air compressors. GD air compressor can not only achieve wide range adjustment, but also put the air compressor into sleep mode during ultra-low speed operation, without the need for no-load operation. Variable frequency air compressors maximize energy savings while reliably providing clean compressed air.

**Save 35% of energy**


On the basis of traditional power frequency compressors
Power frequency compressors typically require a larger pressure band control range, while variable frequency compressors are closer to the target pressure. For every 1 bar (14.5 psi) pressure exceeding the required limit, an additional 7% energy consumption is required!

## 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

### Performance parameters of GDK185-315VSD frequency conversion series units

| Model | Pressure Range barg | Rated power kW | Displacement (FAD) m³/min | External dimensions L x W x H (mm) | Weight kg |
|---|---|---|---|---|---|
| GDK185VSD_A | 7-10 | 185 | 12.1-37.0 | 4076 X 1930 X 2102 | 4998 |
| GDK185VSD_W | 7-10 | 185 | 12.1-37.0 | 4076 X 1930 X 2102 | 4900 |
| GDK186VSD_A | 7-10 | 225 | 16.8-46.0 | 4000 X 1930 X 2146 | 6255 |
| GDK186VSD_W | 7-10 | 225 | 16.8-46.0 | 3517 X 1930 X 2147 | 6255 |
| GDK187VSD_A | 7-10 | 275 | 17.6-56.5 | 3850 X 2150 X 2440 | 6570 |
| GDK187VSD_W | 7-10 | 275 | 17.6-56.5 | 3140 X 2150 X 2005 | 5520 |
| GDK188VSD_A | 7-10 | 315 | 20.3-64.0 | 3850 X 2150 X 2440 | 7160 |
| GDK188VSD_W | 7-10 | 315 | 20.3-64.0 | 3140 X 2150 X 2005 | 5520 |

### Performance parameters of GDK185-315FS power frequency series units

| Model | Maximum working pressure barg | Rated power kW | Displacement(FAD) m³/min | Voltage v | External dimensions(mm) Forced air cooling | External dimensions(mm)Water-cooling | Weight(kg) Forced air cooling | Weight(kg) Water-cooling |
|---|---|---|---|---|---|---|---|---|
| GDK185_A/W7.5 | 7.5 | 185 | 37 | 380 | 4076 X 1930 X 2102 | 4076 X 1930 X 2102 | 4805 | 4725 |
| GDK185_A/W8.5 | 8.5 | 185 | 35.7 | 380 | 4076 X 1930 X 2102 | 4076 X 1930 X 2102 | 4805 | 4725 |
| GDK185_A/W10 | 10.0 | 185 | 32.4 | 380 | 4076 X 1930 X 2102 | 4076 X 1930 X 2102 | 4805 | 4725 |
| GDK220_A/W7.5 | 7.5 | 225 | 45.6 | 380 | 4000 X 1930 X 2146 | 3517 X 1930 X 2147 | 5584 | 5584 |
| | | | | 6000 | 4650 X 1930 X 2146 | 4168X 1930 X 2147 | 6600 | 6600 |
| | | | | 10000 | 4650 X 1930 X 2146 | 4168X 1930 X 2147 | 6707 | 6707 |
| GDK220_A/W8.5 | 8.5 | 225 | 43.2 | 380 | 4000 X 1930 X 2146 | 3517 X 1930 X 2147 | 5584 | 5584 |
| | | | | 6000 | 4650 X 1930 X 2146 | 4168X 1930 X 2147 | 6600 | 6600 |
| | | | | 10000 | 4650 X 1930 X 2146 | 4168X 1930 X 2147 | 6707 | 6707 |
| GDK220_A/W10 | 10.0 | 225 | 38.8 | 380 | 4000 X 1930 X 2146 | 3517 X 1930 X 2147 | 5584 | 5584 |
| | | | | 6000 | 4650 X 1930 X 2146 | 4168X 1930 X 2147 | 6600 | 6600 |
| | | | | 10000 | 4650 X 1930 X 2146 | 4168X 1930 X 2147 | 6707 | 6707 |
| GDK275FS-7A/W | 7.5 | 275 | 56.5 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6020 | 5020 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6410 | 6000 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6470 | 6000 |
| GDK275FS-8A/W | 8.5 | 275 | 53.0 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6020 | 5020 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6410 | 6000 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6470 | 6000 |
| GDK275FS-10A/W | 10.0 | 275 | 48.0 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6020 | 5020 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6410 | 6000 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6470 | 6000 |
| GDK315FS-7A | 7.5 | 315 | 63.0 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6600 | 5580 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6280 | 6075 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6660 | 6075 |
| GDK315FS-7W | 7.5 | 315 | 64.0 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6600 | 5580 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6280 | 6075 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6660 | 6075 |
| GDK315FS-8A/W | 8.5 | 315 | 60.8 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6600 | 5580 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6280 | 6075 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6660 | 6075 |
| GDK315FS-10A | 10.0 | 315 | 55.0 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6600 | 5580 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6280 | 6075 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6660 | 6075 |
| GDK315FS-10W | 10.0 | 315 | 53.0 | 380 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6600 | 5580 |
| | | | | 6000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6280 | 6075 |
| | | | | 10000 | 3850 X 2150 X 2240 | 3140 X 2150 X 2005 | 6660 | 6075 |

## 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 10 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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