



Yixing Aipu Air System Equipment Co., Ltd

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Industrial micro oil screw two-stage compressor, find the perfect choice for your enterprise

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: GDK200-355kW
- Minimum Order Quantity: 1PC
- Price: negotiable
- Packaging Details: container
- Delivery Time: 10
- Payment Terms: tt
- Supply Ability: 10000t/y



Product Specification

- Exhaust Pressure: 7-14barg
- Air Flow: 14.8-70.1m³/min
- TypeMicro Oil Screw Air Micro Oil Screw Two-stage Compressor Compressor:
- Rated Power: 200kW-355kW
- Noise Level: ≤80dB(A)
- Weight: 5132-7145kg
- Highlight: industrial micro oil screw compressor, two-stage air compressor for enterprise, oil screw compressor with warranty

Product Description

Product Description:

The GDK200-355KW micro oil screw two-stage compressor is a high-end industrial compressor designed specifically for high efficiency, stability, and durability requirements. It uses two-stage compression technology and a micro oil lubrication system to provide high pressure and large flow while significantly reducing energy consumption and maintenance costs. It is suitable for industrial scenarios that require high air quality and continuous operation.

Core Features:

Dual stage compression host module



This compression module uses a durable high-performance rotor, which has a more significant energy-saving effect compared to single-stage compression models. Low compression ratio design ensures high efficiency

Greatly reduce the impact load of rotors at all levels and the thermal load of various components of the unit, effectively extending the service life of the main engine

The compression process is carried out separately in the first and second stage rotors

Under full load conditions, the compression efficiency is improved by 15% compared to single-stage compression

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

Cooling oil spray curtain



The unique intermediate cooling curtain design sprays mist like coolant onto the air that has been compressed in the first stage, rapidly reducing the temperature.

Unique inter stage cooling design, with coolant sprayed out in a curtain shape

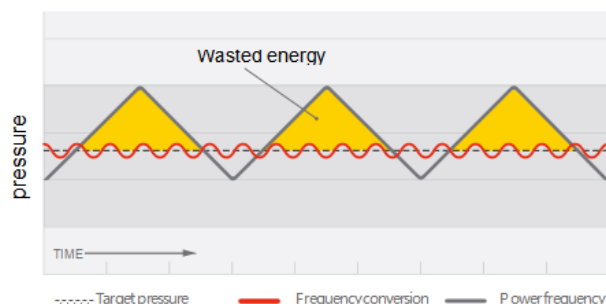
The air entering the second stage of compression is uniformly cooled, greatly reducing the compression energy required for the second stage of compression

Eliminate the need for an intercooler and have fewer components

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.

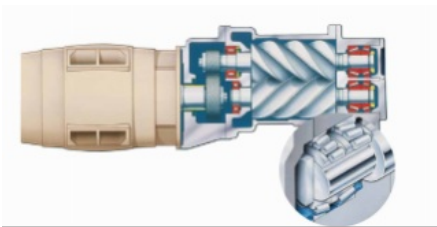
Save 35% of energy



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!

Precise and reliable transmission system



Integrated gear transmission design, balancing reliability and efficiency

Adopting high-precision gear direct drive design, this is a more ideal type in the power transmission system, which is simple, reliable, and has high operating efficiency, effectively optimizing the performance of the unit

The intake end adopts roller bearings, which have uniform force distribution and high stability

The exhaust end adopts back-to-back tapered roller bearings, which absorb axial thrust and radial load to the maximum extent through linear contact, while offsetting radial force and axial force

Design a unique oil storage tank to avoid dry friction and extend its service life. Without this structure, the estimated dry friction time per year is one hour, which can be fatal for bearing damage

Durable and sturdy motor



Design for an ambient temperature of 46

F-level insulation, B-level temperature rise

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

New generation intelligent controller



High resolution color display

Support Modbus communication protocol, flexible selection of local control and remote control

Equipped with joint control operation function, it can simultaneously control up to 8 units

Efficient intake system

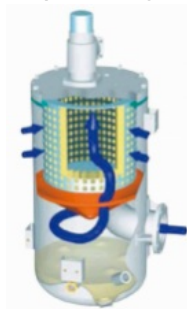


Choose a large margin intake filter

Ultra low pressure air filter design to improve unit efficiency

Reduce maintenance frequency and lower maintenance costs

Unique oil and gas separation system

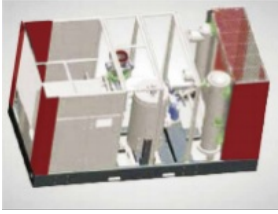


Unique two-stage buffering and three-stage separator

This separator reduces the oil content in the exhaust gas of the equipment to a lower level and can also reduce the frequency of coolant supply

Effectively reduce the impact of excessive or insufficient oil injection in the separator on the oil content of compressed air

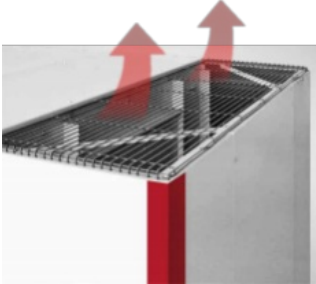
Cooling system designed based on an ambient temperature of 46



Cooling module design facilitates higher system stability

The unit adopts a simpler pipeline layout, which improves heat dissipation performance and creates higher maintenance efficiency

Top exhaust



Design in accordance with thermodynamic principles

Easy to install the air guide cover and timely export hot air

Leak free sealing system

Highly corrosion-resistant material, suitable for oil, water, gas, and other mixed media

High wear resistance, with automatic elastic compensation function after sealing surface wear

Good self-lubricating performance, can be used for oil-free lubrication sealing

Has self sealing function and reliable sealing performance

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

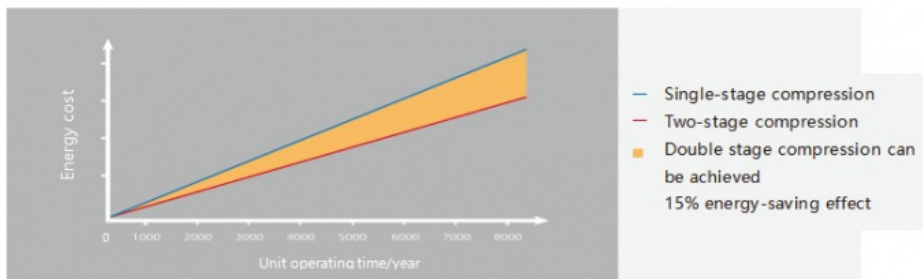
Timely maintenance and upkeep

Quickly contact product experts

More efficient and energy-saving two-stage compression technology

In two-stage compression, the compression ratio of each stage is low, which correspondingly reduces the bearing load and extends the component life. By using two-stage compression, the compression ratio of each stage is reduced to minimize internal leakage

By cooling between stages, the second stage compression is made closer to isothermal compression, achieving energy savings



Application area



Product functions and specifications

Performance parameters of GDK200-355-2S power frequency unit

Model	Volume flow(m ³ /min)					Voltage V	Dimensions (length x width x height)mm		Weight(kg)	
	7barg	8barg	10barg	12.5barg	14barg		Forced air cooling	Water-cooling	Forced air cooling	Water-cooling
GDK200-2S	41.5	38.8	36.2	/*	29.6	380	4000x1930x2146	3684x1990x2054	6880	6132
						6000	4650x1930x2146	4054x1990x2054	6680	6227
						10000	4650x1930x2146	4054x1990x2054	7160	6627
GDK250-2S	49.2	47.4	44.2	/*	36.4	380	4000x1930x2146	3684x1990x2054	6030	5182
						6000	4650x1930x2146	4054x1990x2054	6740	5327
						10000	4650x1930x2146	4054x1990x2054	7280	6677
GDK315-2S	65	62.1	58.2	50.6	/	380	4000x1930x2146	3684x1990x2054	6260	5727
						6000	4650x1930x2146	4054x1990x2054	6910	6417
						10000	4650x1930x2146	4054x1990x2054	7410	6837
GDK355-2S	70.1	67	60.5	54.2	/	380	4000x1930x2146	3684x1990x2054	6360	5777
						6000	4650x1930x2146	4054x1990x2054	6960	6467
						10000	4650x1930x2146	4054x1990x2054	7460	6887

/*/* There is no such model available

Performance parameters of GDK200-355-2S-VSD frequency conversion unit

Model	Power kW	Exhaust pressure bar	Air volume m3/min	Outline dimension Length x Width x Height (mm)	Voltage V	Weight kg
GDK200-2S-7AVSD	200	7.5	20.8-41.5	4050x1930x2146	380-415	5860
GDK200-2S-8AVSD	200	8.5	19.4-38.8	4050x1930x2146	380-415	5860
GDK200-2S-10AVSD	200	10	18.1-36.2	4050x1930x2146	380-415	5860
GDK200-2S-14AVSD	200	14	14.8-29.6	4050x1930x2146	380-415	5860
GDK200-2S-7WVSD	200	7.5	20.8-41.5	3727x1972x2046	380-415	5512
GDK200-2S-8WVSD	200	8.5	19.4-38.8	3727x1972x2046	380-415	5512
GDK200-2S-10WVSD	200	10	18.1-36.2	3727x1972x2046	380-415	5512
GDK200-2S-14WVSD	200	14	14.8-29.6	3727x1972x2046	380-415	5512
GDK250-2S-7AVSD	250	7.5	24.6-49.2	4050x1930x2146	380-415	6230
GDK250-2S-8AVSD	250	8.5	23.7-47.4	4050x1930x2146	380-415	6230
GDK250-2S-10AVSD	250	10	22.1-44.2	4050x1930x2146	380-415	6230
GDK250-2S-14AVSD	250	14	18.2-36.4	4050x1930x2146	380-415	6230
GDK250-2S-7WVSD	250	7.5	24.6-49.2	3727x1972x2046	380-415	5562
GDK250-2S-8WVSD	250	8.5	23.7-47.4	3727x1972x2046	380-415	5562
GDK250-2S-10WVSD	250	10	22.1-44.2	3727x1972x2046	380-415	5562
GDK250-2S-14WVSD	250	14	18.2-36.4	3727x1972x2046	380-415	5562
GDK315-2S-7AVSD	315	7.5	32.5-65.0	4127x2032x2146	380-415	7095
GDK315-2S-8AVSD	315	8.5	31.1-62.1	4127x2032x2146	380-415	7095
GDK315-2S-10AVSD	315	10	28.1-56.2	4127x2032x2146	380-415	7095
GDK315-2S-12.5A VSD	315	12.5	25.3-50.6	4127x2032x2146	380-415	7095
GDK315-2S-7WVSD	315	7.5	32.5-65.0	3727x1972x2046	380-415	6107
GDK315-2S-8WVSD	315	8.5	31.1-62.1	3727x1972x2046	380-415	6107
GDK315-2S-10WVSD	315	10	28.1-56.2	3727x1972x2046	380-415	6107
GDK315-2S-12.5WVSD	315	12.5	25.3-50.6	3727x1972x2046	380-415	6107
GDK355-2S-7AVSD	355	7.5	35.1-70.1	4127x2032x2146	380-415	7145
GDK355-2S-8AVSD	355	8.5	33.5-67.0	4127x2032x2146	380-415	7145
GDK355-2S-10AVSD	355	10	30.3-60.5	4127x2032x2146	380-415	7145
GDK355-2S-12.5A VSD	355	12.5	27.1-54.2	4127x2032x2146	380-415	7145
GDK355-2S-7WVSD	355	7.5	35.1-70.1	3727x1972x2046	380-415	6157
GDK355-2S-8WVSD	355	8.5	33.5-67.0	3727x1972x2046	380-415	6157
GDK355-2S-10WVSD	355	10	30.3-60.5	3727x1972x2046	380-415	6157
GDK355-2S-12.5WVSD	355	12.5	27.1-54.2	3727x1972x2046	380-415	6157

Packing and Shipping:

Product Packaging:

The Micro oil screw two-stage 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.

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 two-stage 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



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