



Oil-Free Vortex Air Compressor 8-10barg 0.24-3m³/min 2.2kW-33kW

Our Product Introduction

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Basic Information

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



Product Specification

- Exhaust Pressure: 8-10barg
- Air Flow: 0.24-3m³/min
- Type: Oil Free Vortex Air Compression System
- Rated Power: 2.2kW-33kW
- Noise Level: ≤64dB(A)
- Weight: 204-1000kg
- Highlight: **oil-free air compressor 8-10barg,
vortex air compressor 0.24-3m³/min,
industrial air compressor 2.2kW-33kW**

Product Description

Product Description:

The oil-free vortex air compressor is an efficient, energy-saving, and low-noise compressed air equipment that uses advanced vortex technology and does not require lubricating oil to participate in the compression process, ensuring 100% oil-free output air and meeting the industry's strict requirements for air quality.

Pay attention to high-quality air:

Air quality plays a decisive role in many cases. If solid particles, water vapor, oil, and oil vapor appear in the compressed air system, it will lead to downtime, product damage, and even product recalls, damaging brand reputation. Worse still, it may also damage the credibility of consumers and products.

Improve reliability

Reliable product and system design can provide high-quality air, protect sensitive downstream gas equipment, reduce maintenance work, and extend equipment lifespan

Improve productivity

Using certified oil-free zero grade compressors ensures zero air pollution and eliminates the risk of product damage and waste.

Improve maintainability

Our oil-free equipment is specially designed for easy maintenance and repair, providing convenient access to consumable components.

Reduce lifecycle costs

The initial cost of an oil-free system is relatively high, but its operational and maintenance costs throughout its entire lifecycle are low, which can offset the two while maintaining higher air quality.

Oil free scroll compressor is suitable for your application:

Gardner Denver offers reliable oil-free products with a wide variety, always suitable for your industry and application. We will evaluate and recommend more suitable solutions to improve the productivity of the device, thereby providing a zero pollution risk final product.



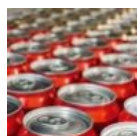
Hospitals, laboratories, universities



Pharmaceutical and Biotechnology



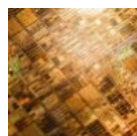
Medical equipment, plastics



Canned food, beverages, brewing



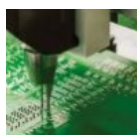
Glass manufacturing



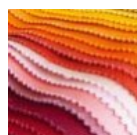
Electronics and semiconductors



Food processing



Electronics assembly



Textile industry



Bottling and distillation



Printing



Turf management

Working principle of vortex compressor:

A vortex air compressor provides compressed air through the mutual rotational motion of two vortex discs.

The rotating scroll rotates around the fixed scroll.

The space between the two vortex disks gradually decreases during the rotational motion towards the center, achieving air compression.

This process is repeated continuously to maintain suction.

After reaching the center position, the air is discharged through the outlet.

Advantages of Vortex Compressors:

Occupying less space	Less land area
Fewer components	Higher reliability, longer lifespan, and less maintenance
Lower noise level	A healthier working environment
100% oil-free	Can be used in any industry
Use fewer consumables	Longer maintenance intervals and longer service life
No metal friction	Less maintenance
Zero emissions	In line with the Sustainable Development Goals
Less sports spare parts	Less vibration
100% oil-free air	And ensure the production of high-quality oil-free air.

The advantages of our oil-free scroll compressor:



Our scroll compressor has a higher flow rate per kilowatt and a single-stage compression pressure of up to 10 bar. We achieve such high efficiency through the following design features:

Start/stop control reduces idle energy waste.

Dual inlet compressor design achieves stable and efficient compression of aluminum casing, reducing overall product weight.



Multi channel design can improve efficiency under low load conditions, which means you can precisely control the number of working compressors to match your needs.



Using large fans ensures low-temperature operation and extends component lifespan.



Manage exhaust pressure to meet your air requirements, while measuring critical operating parameters to reduce unexpected downtime.



A cooler with lower C TD values achieves lower exhaust temperatures and reduces the intake temperature for post-treatment. By selecting a lower level of post-treatment, the investment cost for post-treatment can be reduced.

ENVS series product functions and specifications :

Standard function

Air intake filtration, replaceable filter element	Pressure gauge*
Start/stop switch*	Automatic start/stop operation*
Power on indicator light*	Control voltage starter with motor overload protection*
High temperature shutdown with indicator light*	Air cooled aftercooler
Run time timer*	Sturdy motor, specifications meet operational requirements, with anti water ingress protection

Oil free vortex air compressor (50 Hz)

Model	Maximum pressure barg	Rated power kW	Air flow m³/min	Interface size BSPT	Dimensions (LxWxH)	Weight kg	Noise level dB(A)
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ENVS2-A8	8	2.2	0.24	1/2"	830 x 740 x 910	204	58
ENVS2-A10	10	2.2	0.21	1/2"		204	58
ENVS4-A8	8	3.7	0.40	1/2"		231	58
ENVS5-A8	8	5.5	0.60	1/2"		240	59
ENVS5-A10	10	5.5	0.53	1/2"		240	59
ENVS7-A8	8	7.7	0.84	1"	1445 x 800 x 1000	438	62
ENVS7-A10	10	7.7	0.74	1"		438	62
ENVS11-A8	8	11	1.20	1"		495	64
ENVS11-A10	10	11	1.06	1"		495	64
ENVS17-A8	8	16.5	1.89	R1	1280 x 770 x 1480	515	61
ENVS17-A10	10	16.5	1.50	R1		515	61
ENVS22-A8	8	22	2.52	R1	1330 x 880 x 1900	720	61
ENVS22-A10	10	22	2.00	R1		720	61
ENVS33-A8	8	33	3.78	R1.5	1360 x 1030 x 1670	1000	63
ENVS33-A10	10	33	3.00	R1.5		1000	63

Post processing equipment and solutions:

Air handling equipment

Moisture and pollutants in compressed air may cause serious equipment operation problems. You can choose Gardner Denver's air treatment equipment as an integral component of the compressed air system, which can be used in conjunction with an air compressor to help improve product or process quality, ensure productivity and system efficiency.



Adsorption type dryer

When the dew point requirement is very low, an adsorption dryer can be chosen to provide high-quality air. According to your different needs of reducing initial investment costs or energy costs, you can choose a non heat or externally heated adsorption dryer.

Provide reliable -20 ° C or -40 ° C pressure dew point low pressure drop design to save energy under most working conditions

Advanced microprocessor control, easy to use and able to maximize runtime



Air filters

Available in four filtration accuracies: G, D, H, and A, it can effectively remove dust particles, water mist, and oil mist from the system.

Advanced filter design concept, strong filtration capacity, more compact structure, and smaller volume easy to install.



Freeze drying machine

In many industrial applications, cost-effective freeze dryers can be chosen to provide clean and dry air.

7-10 pressure dew point.

Low investment, operation, and maintenance costs.

Non corrosive heat exchanger design for reliable operation and simple operation.

Solution

We provide reliable oil-free compressed air to your factory, far beyond the compressor itself. We use our extensive experience and global expertise to optimize total cost of ownership (TCO) through a systematic approach, helping you ensure reliability, low maintenance costs, and ease of maintenance, and realize value.

Packing and Shipping:

Product Packaging:

The Oil free vortex air compression 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.

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 Oil free vortex air compression 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 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 100t/y



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