

Jiapeng Air Compressor Booster WWY-15/4-150 Piston Type Oil Free Oxygen Booster For Oxygen Filling

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Anshan Jiapeng
- Certification: CE ISO9001
- Model Number: WWY-15/4-150
- Minimum Order Quantity: 1
- Price: \$2000~20000 per set
- Packaging Details: Wooden Case
- Delivery Time: With in 7 days
- Payment Terms: D/P, T/T, L/C, L/C, D/A, D/P, T/T, Western Union, MoneyGram
- Supply Ability: 500 Sets Per Year



Product Specification

- Input Pressure: 0.4Mpa
- OutLet Pressure: 15Mpa
- Flow Rate Nm3/h: 15
- Cylinder Diameter: $\Phi 65 + \Phi 36 + \Phi 20$ (3 Stages)
- Inlet Size: Rc1/2
- Outlet Size: G5/8
- Size: 1350*1050*1100 (mm)
- Weight: 420kg
- REV R/min: 640
- Application: O₂, N₂, Ar₂
- Highlight: **Air Compressor Booster ar₂,
Air Compressor Booster 640 R/min,
n₂ booster and compressor**

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Product Description

JIAPENG WWY-15/4-150 pISTON TYPE oIL FREE Oxygen Booster Supercharger Air compressor O2 High booster for Oxygen filling
About shanghai powerbuilder automation technology co.,ltd

- We are the authorized distributor of Anshan Jiapeng. We have been engaged in the assembly of PSA nitrogen generators and oxygen generators in our factory for 15 years, providing approximately 400 sets of PSA nitrogen generators and oxygen generators for domestic and international customers each year, including production, and debugging.
- In collaboration with Burkert Valves, we have customized our own double-acting pneumatic valve. Through the design of top and middle pressure equalization, and airflow orifice plates, we continuously optimize and reduce the air consumption ratio of the equipment, thus achieving energy savings. The energy consumption ratio of our equipment has reached the highest level in China. And through our patented silencer, our device noise is controlled to less than 55 db.
- In terms of process flow, we have cutting, welding, assembly, filling of molecular sieves, automatic rust removal, spraying, and complete procedures and supporting equipment for commissioning.
- In the supply chain aspect, we provide first-line brands such as Atlas Copco, Ingersoll Rand, GDK, Liutech, Bolaite, Hanbell, and BK for air compressors, and provide Boly, Atlas Copco, and Liutech refrigerated dryers, as well as Anshan Jiapeng and Anqing Baillian boosters.
- We can provide supporting equipment and accessories.
- Currently, our company's products are aimed at end-users and distributors worldwide. We provide customized remote systems, color customization, display interface customization, and many other OEM services. And we also provide ASME standard equipment and pressure tanks for USA and Australian market.
- For specific selection, please contact our customer manager. We hope to become your trusted long-term partner.

About Anshan Jiapeng Compressor Co., Ltd

Anshan Jiapeng Compressor Co., Ltd. is located in the southeast of Liaoning Province, located in the steel capital - Anshan, the company was established in June 1998, the registered capital of 5 million yuan, after the reform of the state-owned enterprises, the first production of oil-free gas compressor joint-stock companies, is the earliest domestic production license manufacturers. The company mainly produces 10 series of compressors with more than 100 models of oil-free air, oxygen, nitrogen, argon, helium, carbon dioxide, sulfur hexafluoride and other non-flammable and explosive gases. At the same time, supporting post-treatment equipment, cold and dry machines, filters, gas storage tanks, to provide users with oil-free, water-free, dust-free and sterile purified air. Fat-filling oil-free compressor can change the original old model structure, convenient maintenance, prolong the service life, has won the national patent (patent no. ZL 20112 0053943.2) is the first compressor production license and general machinery GC certification unit, and through the ISO9001-2008 system certification. National quality qualified products. National mechanical and electrical products energy efficiency grade certification, for many years by anshan Industrial and commercial bureau as industry and commerce exempt enterprises, abide by the contract heavy credit enterprise, Anshan technical supervision bureau "anti-counterfeiting and fidelity enterprise".

Jiapeng booster advantages

1. Chinese and English operation interface(pic1)
2. With abnormal alarm reminder function(pic2)
3. The filling booster is equipped with a water tank and a water pump. After 40 liters of water is added to water tank, the booster can work when the power is turned on. There is no need for a extra water tank and pump!



pic1



pic2

Working Principle

- **Gas Compression:** The process of gas compression is a fundamental operation performed by air compressors. It involves the intake of a large volume of air through one or more cylinders and the subsequent compression of this air using either a piston or a screw-type compression mechanism.
- In a piston-based compressor, the air is drawn into the cylinder during the suction stroke as the piston moves downward. Once the intake valve closes, the piston moves upward, compressing the air trapped within the cylinder. This compression action reduces the volume of the air, causing the molecules to come closer together. As a result, the gas pressure increases, achieving the desired level of compression.
- Screw-type compressors, on the other hand, utilize a pair of interlocking helical rotors to compress the gas. As the rotors rotate, the gas is trapped in the space between the rotors and the compressor housing. As the rotors continue to turn, the gas is progressively compressed and transported towards the discharge outlet. This compression process also leads to a reduction in molecular spacing, resulting in increased gas pressure and temperature.
- Regardless of the compression mechanism employed, the ultimate goal of gas compression is to increase the gas pressure for various applications. This compressed air can be utilized in a wide range of industries, such as manufacturing, construction, and automotive, for powering pneumatic tools, machinery, and other equipment.
- It's worth noting that during the compression process, the temperature of the gas also rises due to the increased molecular activity. This temperature increase is a result of the compression work performed on the gas. Managing and controlling the temperature is an important consideration in compressor design and operation to ensure efficient and reliable performance.
- By understanding the principles of gas compression and its effects on pressure and temperature, one can make informed decisions when selecting and operating air compressors for specific applications.
- **Discharge of high-pressure gas:** After compression, the high-pressure gas is pushed into the air compressor's storage tank or delivery pipelines. The storage tank is used to store the compressed air and balance the supply of air from the compressor.
- **Control system:** Air compressors are typically equipped with a control system to monitor and regulate the gas pressure. When the pressure drops below a set value, the control system starts the compressor to increase the gas supply. When the pressure reaches the preset upper limit, the control system stops or reduces the operation of the compressor.
- **Cooling system:** During the compression process, the temperature of the gas increases. Therefore, air compressors are usually equipped with a cooling system to lower the gas temperature. This can be achieved through air cooling or water cooling.
- **Lubrication system:** To reduce friction and wear, air compressors typically require a lubrication system to provide lubricating oil or lubricants

to the compression device and other moving parts.
In summary, an air compressor compresses a large volume of air into high-pressure gas to meet the compressed air requirements in various industrial and commercial applications. The key steps in the working principle include gas compression, discharge of high-pressure gas, control system, cooling system, and lubrication system.

Product description

Lot.	Item	Parameter
1	The compression medium	Oxygen (must be dry and free of particulate gas)
2	Model	WWY-15/4--150
3	Flow rate (standard) Nm ³ /h	15
4	Inlet temperature	≤40
5	Inlet pressure MPa	0.4
6	Outlet Pressure MPa	15
7	Cylinder diameter quantity	Φ65+Φ36+Φ20 mm
8	Revolving Speed r/min	640
9	Cooling Mode	Air cooling + water cooling (in circulation)
10	Lubrication method	Oil free lubrication
11	Compressed series	Three Level
12	Structural style	Angle type, W type, single unit
13	Motor	Power kW
		7.5
		The electric system
		AC380V, three-phase electricity, 50Hz,
		Insulation grade
		B Grade
		Protection grade
		IP44
		Start Mode
		Direct Starting
14	Drive Mode	Belt Drive
15	The installation type	The base type
16	Noise Figure dB(A)	≤80
17	Control mode	PLC Touch screen control: maintenance alarm, over temperature alarm, overpressure alarm, motor overload alarm and so on
18	Dimension of inlet and outlet	Rc1/2 Rc5/8
19	Size(L×W×H) mm	1350X1050X1100
20	Weight kg	≈420

The basic parameters listed in this table can be confirmed according to the actual working conditions

- Touch display PLC control
- Remote control is optional
- Inlet and outlet pressure overload, temperature overheating, cooling water failure, circulation rolling alarm and stop
- Operation time display, maintenance cycle prompt
- With water tank and circulating pump without external pipeline, filling antifreeze at low temperature without obstruction.



Our Service

1. We can provide acceptance video and shipping list
2. We can provide the boot video and boot introduction
3. We can provide maintenance videos and instructions
4. For **dealers** we can provide door-to-door service and factory training in your factory



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