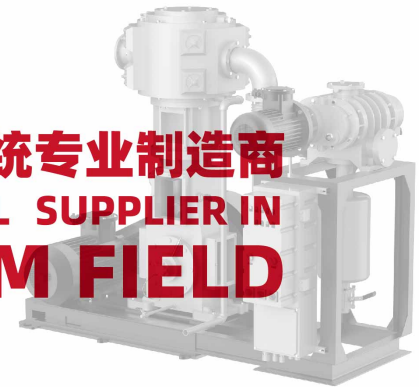


**TEN
VAC**

真空设备/系统专业制造商
PROFESSIONAL SUPPLIER IN
VACUUM FIELD



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南通市天奕真空设备有限公司
NANTONG TENVAC VACUUM EQUIPMENT CO.,LTD

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1.

公司简介 COMPANY BRIEF

南通市天奕真空设备有限公司位于长江三角洲中心地带有着北上海美誉的南通市海门区，距上海一江之隔，交通便利。

我公司主要生产产品有螺杆真空泵、罗茨风机、罗茨真空泵、无油立式往复真空泵、水环泵、旋片泵、真空泵机组、真空泵叶轮等。

公司拥有数台数控加工设备，均为知名品牌，如沈阳机床集团、上海机床、昆明机床等，其余车、镗、刨、铣等加工设备一应俱全，既保证产能又保证质量。

公司通过ISO9001质量管理体系认证，并始终贯彻严把质量关的核心理念，不断提升生产工艺，提高产品质量，并且根据不同行业不同领域用户开发出独具针对性的设备，赢得了客户的一致好评。目前公司产品已远销世界各地。

凭借着良好的产品质量，公司信誉与周到服务，南通市天奕真空设备有限公司已跻身国内真空行业前列！在未来，我们会不断创新，与时俱进，为真空行业的进步发展贡献出一份力量！

我们真诚的期待能与您携手合作，共创辉煌！

Nantong tenvac vacuum equipment Co., Ltd. is located in the center of the Yangtze River Delta, Haimen district, which known as North-Shanghai. It is near by Shanghai and has a convenient transportation.

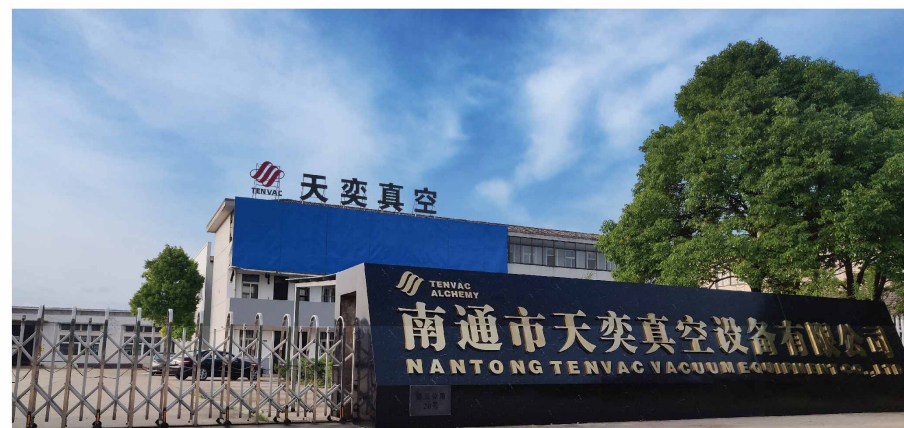
Our company mainly produces are screw vacuum pump, roots blower, roots vacuum pump, oil-free vertical reciprocating vacuum pump, water ring pump, rotary vane pump, vacuum pump unit, vacuum pump impeller and so on.

Our company has several CNC processing equipments, which are well-known brands, such as SMTCL, Taiwan kent, Kunming Machine Tool, Japan Okuma, etc. The remaining processing equipments, such as lathe, boring, planer, milling and so on, ensure both production capacity and quality.

The company always carries out the core concept of strict quality control, constantly improves production technology and product quality, and develops unique equipment according to users in different industries and fields. Has won the customer's unanimous praise. At present, the company's products have been sold all over the world.

With good product quality, company reputation and thoughtful service, Nantong Teni Vacuum Equipment Co., Ltd. has entered the forefront of the domestic vacuum industry! In the future, we will continue to innovate, keep pace with the times, and contribute to the progress and development of the vacuum industry!

We sincerely look forward to working with you to create brilliance!



1万平生产基地，全系列加工设备，完善的质量管理体系
10000 m2 production base, a full range of processing equipment, perfect quality management system



高端的数控化加工足以保证每个工件的精度，为您带来优质的产品
High-end numerical control processing is enough to ensure the accuracy of each workpiece, and bring you high-quality products.



“相信专业的力量”凭借着10余年的技术积累与发展，我们的客户已经遍布全球

"Believe in the Power of Professionalism" With more than 10 years of technological accumulation and development, our customers have spread all over the world.



公司文化、使命、愿景 Company Culture, Mission and Vision

- 质量第一，持续创新
Quality first, continuous innovation
- 以人为本，诚信经营
People-oriented, integrity management
- 创中国一流品牌，做百年企业
Create a first-class brand in China and be a century-old enterprise
- 推动真空行业发展，促进行业革新
Promote the development of the vacuum industry and promote industry innovation

我们始终将选拔人才、培养人才放在首位。尊重和信任每一个员工，打造学习型团队，通过持续学习，不断提高企业和个人的核心竞争力。坚持原则，强调纪律，群策群力，发扬团队合作精神

We always put selecting talents and training talents in the first place. Respect and trust every employee, build a learning team, and continuously improve the core competitiveness of enterprises and individuals through continuous learning. Adhere to principles, emphasize discipline, work together, and promote teamwork

我们的十项标准：勤奋敬业，诚实正直，勇敢忠诚，乐观自信，崇尚学习，积极进取，创新奉献，充满激情，重视合作，主人精神

Our ten principles: Diligent and dedicated, Honest and upright, Brave and loyal, Optimistic and confident, Advocating learning, Active and enterprising, Innovative and dedication, Full of passion, Value cooperation, Protagonist spirit

2.

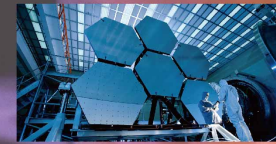
真空应用领域 VACUUM APPLICATION FIELD

真空泵及机组的应用领域主要有：石油化工、新材料、生物医药、航空航天、金属冶炼、电子、电力、实验室、食品、真空炉、真空镀膜及真空输送等。

The main application fields of vacuum pumps and units are petrochemical industry, new materials, biomedicine, aerospace, metal smelting, electronics, power, laboratory, food, vacuum furnace, vacuum coating and vacuum conveying.



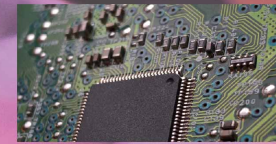
石油化工
Petroleum-chemical industry



航空航天
Aeronautics and Astronautics



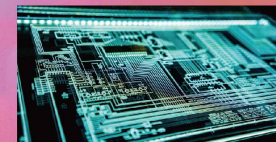
生物医药
Bio-medical industry



电子科技
Electronic industry



食品行业
Food industry



新材料
New material

3.

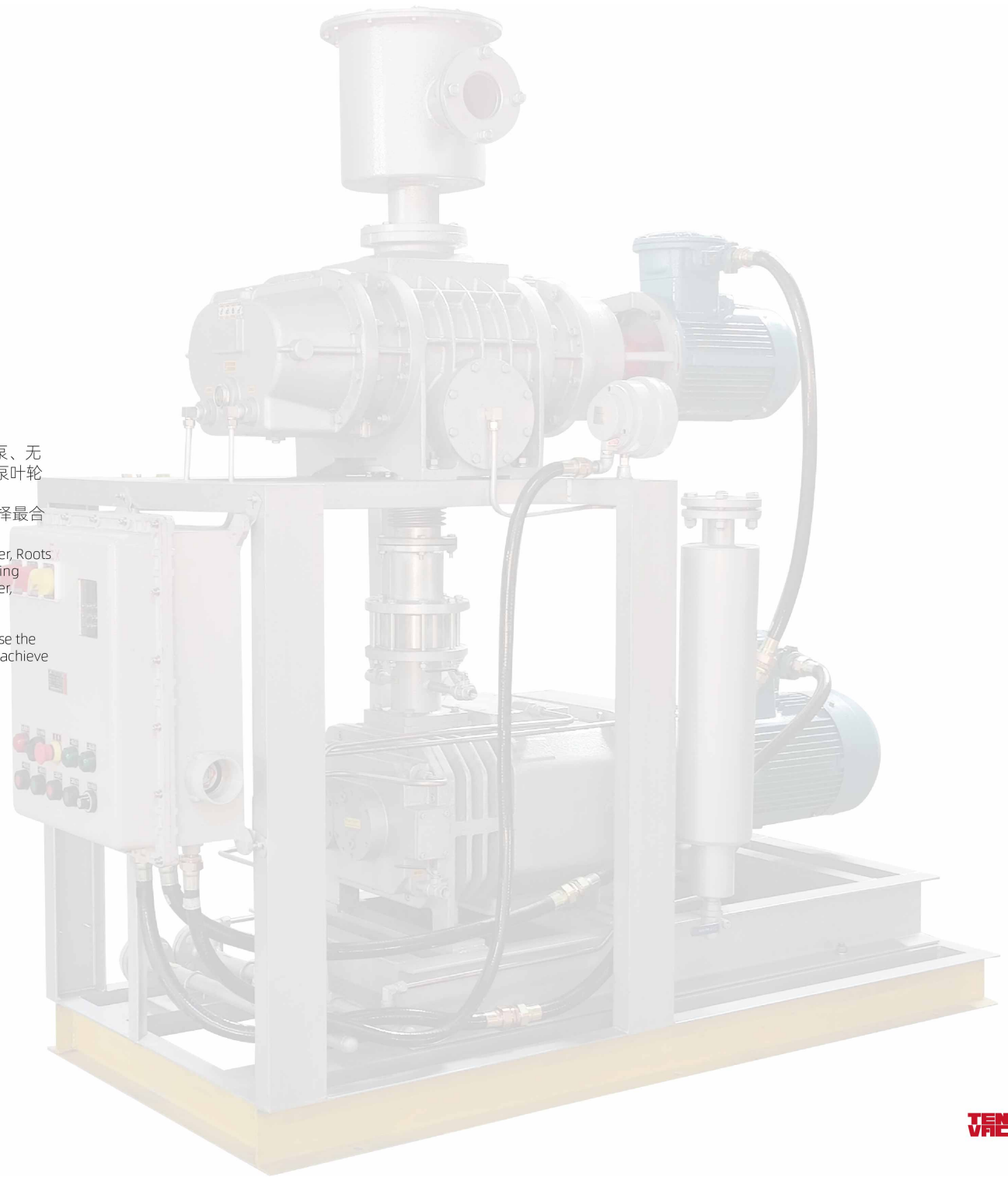
产品介绍 PRODUCT INTRODUCTION

本公司主营产品有螺杆真空泵、罗茨风机、罗茨真空泵、无油立式往复真空泵、水环泵、旋片泵、真空泵机组、真空泵叶轮、配件等。

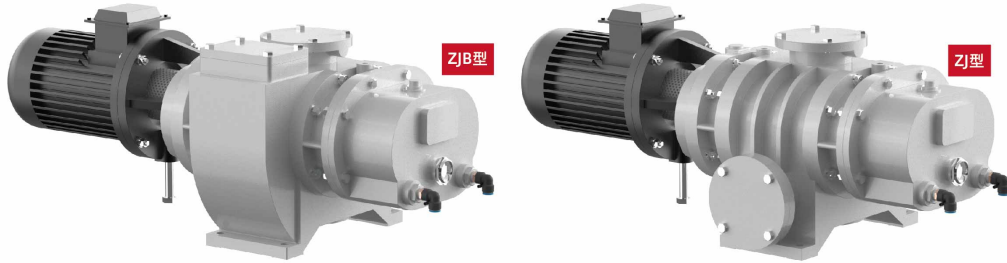
我们根据不同行业进行差异化设计，针对不同工况选择最合适的设备，真正做到“独家定制”。

The company's main products are Screw vacuum pump, Roots blower, Roots vacuum pump, oil-free vertical reciprocating vacuum pump, water ring pump, rotary vane pump, vacuum pump unit, vacuum pump impeller, accessories and so on.

We design different products according to different industries, choose the most suitable equipment for different working conditions, and truly achieve "exclusive customization".



罗茨真空泵 ROOTS VACUUM PUMP



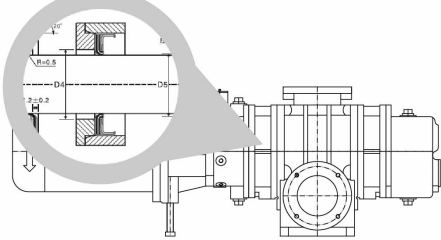
各类防腐涂层



PTFE防腐涂层（可应对盐酸、氯苯、醋酸、硝酸、氯化物、氢氧根化合物等强酸强碱工况，特别适用于医药化工企业）

哈氏合金防腐涂层（可应对低浓度盐酸、酯类、醇类等一般性腐蚀性物，是一种广谱的抗腐蚀涂层）

干式密封结构 机械密封结构



罗茨真空泵的干式密封结构可以有效的阻止通过泵腔的物料进入油箱从而达到保护轴承，齿轮和润滑油的目的，减少维修频次，延长泵的使用寿命。

我们建议根据不同的工况对应选择不同的密封结构，因地制宜，具体问题具体分析。

设备简介 Brief Introduction

ZJ/ZJB系列罗茨真空泵（简称：罗茨泵）是指泵内装有两个相反方向同步旋转的叶形转子，转子间、转子与泵壳内壁间有细小间隙而互不接触的一种旋转式变容真空泵（须与前级泵组合方可使用），是目前获得中、高真空主要抽气设备之一。

ZJ/ZJB series Roots vacuum pump (referred to as: Roots pump) refers to a kind of rotation in which the two rotors are rotated synchronously in opposite directions, and there is a small gap between the rotor and the inner wall of the pump casing without contact with each other. The variable displacement vacuum pump is one of the main pumping equipments for medium and high vacuum.

选型参数 Selection table

| 型号 Model | 抽速率 (L/S) | 极限压力 Ultimate pressure (pa) | 转速 Speed (RPM) | 功率 Power (KW) | 口径 (MM) | | 重量 Weight (KG) | 推荐前级泵型号 Recommended backing pump model |
|-------------|--------------|--------------------------------------|----------------------|---------------------|-------------|--------------|----------------------|---|
| | | | | | 进口 Inlet | 出口 Outlet | | |
| ZJ-30 | 30 | 6X10 ⁻² | 2770 | 1.1 | 50 | 40 | 66 | 2XZ-4 |
| ZJB-30 | | 5X10 ⁻² | | | | | | |
| ZJ-70 | 70 | 6X10 ⁻² | 2780 | 1.5 | 80 | 50 | 87 | 2X-8 |
| ZJB-70 | | 5X10 ⁻² | | | | | | |
| ZJ150 | 150 | 6X10 ⁻² | 2900 | 3 | 100 | 100 | 198 | 2X-15 |
| ZJB-150 | | 5X10 ⁻² | | | | | | |
| ZJ-300 | 300 | 6X10 ⁻² | 1450 | 4 | 150 | 150 | 490 | 2X-30A |
| ZJB-300 | | 5X10 ⁻² | | | | | | |
| ZJ-600 | 600 | 6X10 ⁻² | 2900 | 5.5 | 150 | 150 | 490 | 2X-70A |
| ZJB-600 | | 5X10 ⁻² | | | | | | |
| ZJ-1200 | 1200 | 6X10 ⁻² | 1450 | 11 | 300 | 300 | 1550 | 2X-70A 二台 |
| ZJB-1200 | | 5X10 ⁻² | | | 300 | 300 | 1580 | |
| ZJ-2500 | 2500 | 5X10 ⁻² | 2900 | 18.5 | 300 | 300 | 1620 | 2X-70A 二台 |

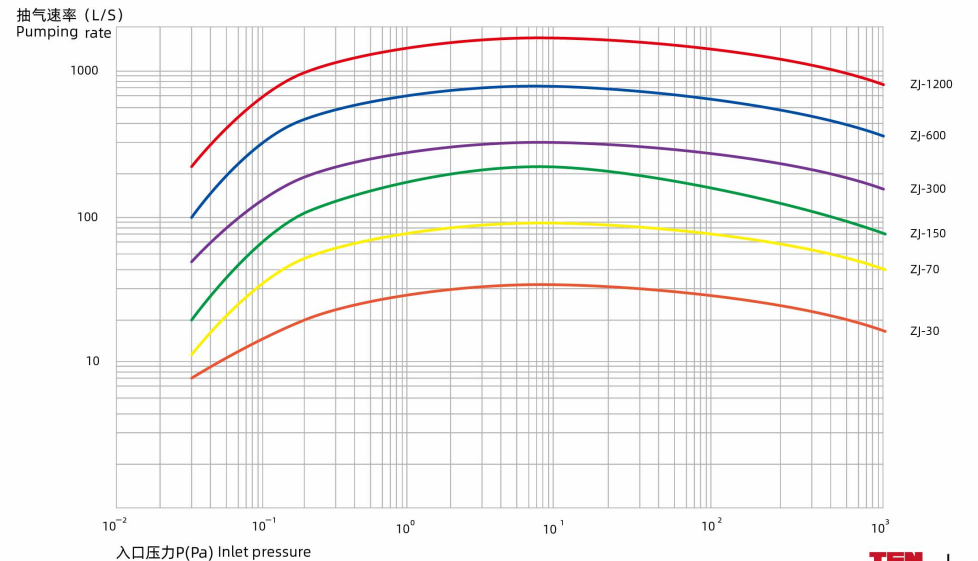
注: 1. 极限压力是指在配备推荐前级泵的条件下, 不带任何附加容器、泵口密闭不进气, 经过充分抽气后用压缩真空计在泵进口处测得的稳定的空气分压力的最低值

1. The ultimate pressure refers to the stable air partial pressure measured at the pump inlet by the compression vacuum gauge without any additional container. It is equivalent to the experimental value

2. 上表各性能级均是在配备推荐前级泵条件下获得的, 用户可根据不同情况选用不同的前级真空泵, 但主要性能指标会有所变化

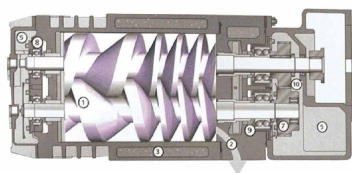
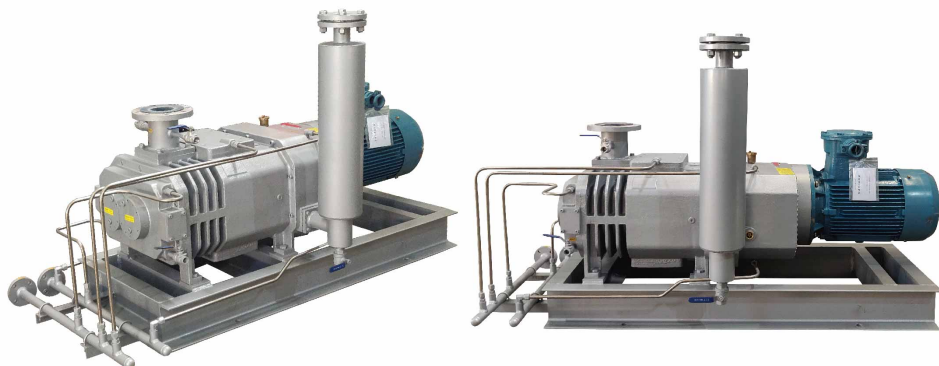
2. The various grades of the above table are obtained under the condition of the recommended fore pump. Users can choose different pre-stage vacuum pumps according to different situations, but the main performance indicators will change

性能曲线 Performance Curve



干式螺杆真空泵

DRY SCREW VACUUM PUMP



- ① Inlet 进气口 ② Exhaust 排气口 ③ Water Jacket 水套
- ④ Screw Rotor 螺杆 ⑤ Oil 润滑油 ⑥ Gas Path 气道
- ⑦ Timing Gears 正时齿轮 ⑧ Bearings 轴承 ⑨ Shaft Seals 轴封
- ⑩ Oil Seal 油封

*可根据不同工况定制各种类密封结构

设备简介 Brief Introduction

干式螺杆真空泵是通过泵腔内一对作等速反向旋转螺杆的啮合作用，吸入并排出被抽气体而形成高真空，其结构如右图所示。螺杆真空泵的螺杆转子型线采用自主设计的专利型线，由一对斜齿齿轮驱动，以顺时针方向转动（从电机风扇端侧观察）。在螺杆旋转时，二个螺杆之间、螺杆和泵体之间都保持一定的间隙且互不接触，因而运转时泵腔内无摩擦，可以实现转子的高转速运转。依靠转子间隙和泵腔间隙进行密封，将被抽气体被螺杆转子平顺地压送到排气口，并直接排出泵腔，螺杆泵两端的轴封确保齿轮箱内的润滑油无法进入泵腔内部。螺杆真空泵为卧式结构，采用联轴器与电机直联。TYLG100-TYLG220 型号的螺杆泵电机采用端面法兰形式安装于螺杆泵前盖端面处，TYLG300 及以上型号的电机则采用端面加底脚的形式，与泵整体安装在同一机架上。为了减少泵的排气噪声，泵的排气口可配置消声器。

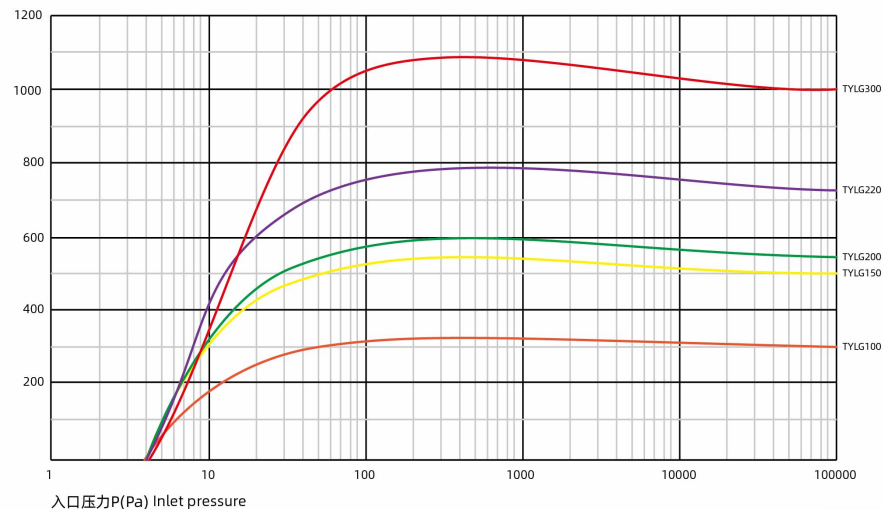
The dry screw vacuum pump forms a high vacuum by sucking and discharging the pumped gas through the meshing action of a pair of constant-speed and counter-rotating screws in the pump chamber. Its structure is shown in the right figure. The screw rotor profile of the screw vacuum pump adopts a self-designed patent profile, which is driven by a pair of helical gears and rotates in a clockwise direction (viewed from the end of the motor fan). When the screw rotates, a certain gap is maintained between the two screws, and between the screw and the pump body and does not touch each other. Therefore, there is no friction in the pump cavity during operation, and the high-speed operation of the rotor can be realized. Relying on the rotor gap and the pump cavity gap for sealing, the pumped gas is smoothly pressed by the screw rotor to the exhaust port and directly discharged from the pump cavity. The shaft seals at both ends of the screw pump ensure that the lubricating oil in the gear box cannot enter the pump cavity. The screw vacuum pump is a horizontal structure, which is directly connected to the motor by a coupling. The TYLG100-TYLG220 screw pump motor is installed on the end face of the front cover of the screw pump in the form of an end face flange, while the motor of TYLG300 and above adopts the end face and foot form and is installed on the same frame as the pump. In order to reduce the exhaust noise of the pump, the exhaust port of the pump can be equipped with a muffler.

选型参数 Selection table

| 性能参数 | 单位 | TYLG100 | TYLG150 | TYLG200 | TYLG220 | TYLG300 | TYLG400 | TYLG550 | TYLG780 |
|-------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|-------------------------|
| 抽速 | m ³ /H | 390 | 550 | 690 | 800 | 1100 | 1500 | 2000 | 2800 |
| 极限压力 | Pa | 5 | 5 | 5 | 5 | 10 | 20 | 20 | 20 |
| 电机功率 | KW | 11 | 15 | 18.5 | 22 | 30 | 37 | 55 | 55 |
| 电机转速 | RPM | 2900 | 2900 | 2900 | 2900 | 2900 | 1450 | 1450 | 1450 |
| 进口法兰 | mm | DN80 | DN100 | DN100 | DN100 | DN125 | DN125 | DN150 | DN150 |
| 出口法兰 | mm | DN40 | DN60 | DN60 | DN60 | DN80 | DN80 | DN100 | DN100 |
| 冷却水压力 | barg | 2~4 | 2~4 | 2~4 | 2~4 | 2~4 | 2~4 | 2~4 | 2~4 |
| 冷却水流量 | L/min | 6 | 8 | 8 | 8 | 8 | 16 | 16 | 16 |
| 冷却水温度 | °C | 5~35 | 5~35 | 5~35 | 5~35 | 5~35 | 5~35 | 5~35 | 5~35 |
| 噪声 | dB | ≤75 | ≤75 | ≤80 | ≤80 | ≤80 | ≤85 | ≤85 | ≤85 |
| 尺寸 | cm | L 136 W 64 H 68 | L 152 W 78 H 80 | L 161 W 78 H 80 | L 169 W 78 H 80 | L 179 W 84 H 93 | L 225 W 88 H 110 | L 225 W 88 H 110 | L 225 W 140 H 137 |
| 重量 | kg | 450 | 580 | 650 | 1050 | 1200 | 1800 | 2100 | 2500 |

性能曲线 Performance Curve

抽气速率 (m³/H)
Pumping rate



立式无油往复真空泵

VERTICAL OIL-FREE RECIPROCATING VACUUM PUMP



普通带联形式

不锈钢材质

减速机直联形式 (特别适用于防爆工况)

可定制

N₂ 氮气密封结构

Ⓢ 各类防腐涂层

设备简介 Brief Introduction

WLW系列无油立式往复真空泵为W系列无油往复真空泵的升级款，其相较于老款有诸多优点

- 1、极限真空度高
- 2、节能、节水、节省占地面积
- 3、气阀轴向装置，使用寿命长
- 4、振动小，噪音低
- 5、提高了真空清洁度

6、WLW系列可采用化学镀镍磷或镀哈氏合金涂层，能耐各类酸碱及有机溶剂腐蚀

WLW系列无油立式往复真空泵已广泛应用于制药、化工、食品等行业的真空输送提料、提炼、蒸馏、浓缩、真空包装、干燥、气体解析、尾气回收等场合，是取代W型卧式往复泵，水环式真空泵的理想产品

WLW series oil-free vertical reciprocating vacuum pump is an upgraded version of W series oil-free reciprocating vacuum pump, which has many advantages compared with the old one.

- 1.The ultimate vacuum is high
- 2.Energy saving, water saving, saving floor space
- 3.Air valve axial device, long service life
- 4.Low vibration, low noise
- 5.Improved vacuum cleanliness

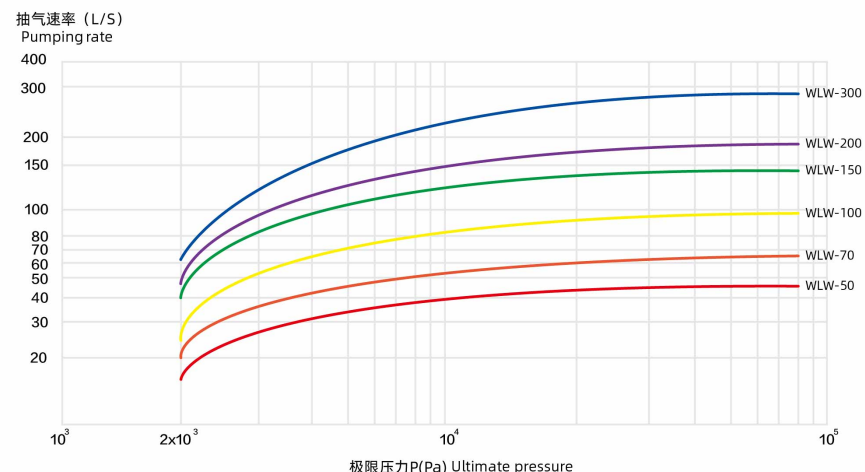
6.WLW series can be coated with electroless nickel-phosphorus or Hastelloy coating, which can resist various types of acid and alkali and organic solvent corrosion.

WLW series oil-free vertical reciprocating vacuum pump has been widely used in vacuum conveying, refining, distillation, concentration, vacuum packaging, drying, gas analysis, exhaust gas recovery, etc. in the pharmaceutical, chemical, food and other industries. Reciprocating pump, ideal for water ring vacuum pumps

选型参数 Selection table

| 参数 Parameter | 型号 Model | | | | | |
|------------------------------------|-------------|--------|---------|---------|---------|---------|
| | WLW-50 | WLW-70 | WLW-100 | WLW-150 | WLW-200 | WLW-300 |
| 项目 Properties | | | | | | |
| 抽气速率 Pumping rate (L/S) | 50 | 70 | 100 | 150 | 200 | 300 |
| 极限压力 Ultimate pressure (Pa) | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
| 转速 Speed (r.p.m) | 270 | 380 | 300 | 310 | 280 | 250 |
| 电机功率 Power (KW) | 4 | 5.5 | 7.5 | 11 | 15 | 22 |
| 吸气口径 Inlet caliber (mm) | Φ50 | Φ50 | Φ100 | Φ125 | Φ125 | Φ160 |
| 排气口径 Outlet caliber (mm) | Φ50 | Φ50 | Φ100 | Φ125 | Φ125 | Φ160 |
| 进水口径 Water inlet caliber (mm) | Φ15 | Φ15 | Φ15 | Φ15 | Φ15 | Φ20 |
| 出水口径 Water outlet caliber (mm) | Φ15 | Φ15 | Φ15 | Φ15 | Φ15 | Φ20 |
| 泵温升 Temperature difference (°C) | 40 | 40 | 40 | 40 | 40 | 40 |
| 噪声 Noise (dB) | ≤70 | ≤75 | ≤75 | ≤78 | ≤80 | ≤80 |
| 重量 Weight (kg) | 500 | 510 | 700 | 900 | 1000 | 1500 |

性能曲线 Performance Curve



2BV水环式真空泵

2BV WATER RING VACUUM PUMP



不锈钢加长防爆款

设备简介 Brief Introduction

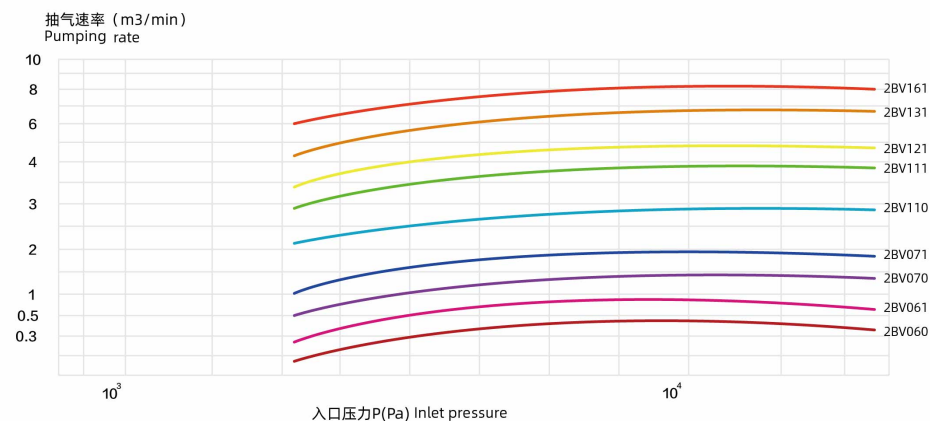
2BV水环式真空泵为整体结构，即电机与泵同轴的单级泵。轴封采用机械密封，具有架构简单，安装简捷，绝对无油，安全可靠等特点。适宜抽吸含有大量水汽或微量杂质的介质。主要应用于塑料，食品等行业的真空除汽、成型、浓缩等工艺过程中。

The 2BV water ring vacuum pump is a unitary structure, that is, a single-stage pump in which the motor and the pump are coaxial. The shaft seal adopts mechanical seal, which has the advantages of simple structure, simple installation, absolutely no oil, safe and reliable. Suitable for pumping media containing large amounts of water vapor or trace impurities. Mainly used in the process of vacuum degassing, forming and concentrating in plastics, food and other industries.

选型参数 Selection table

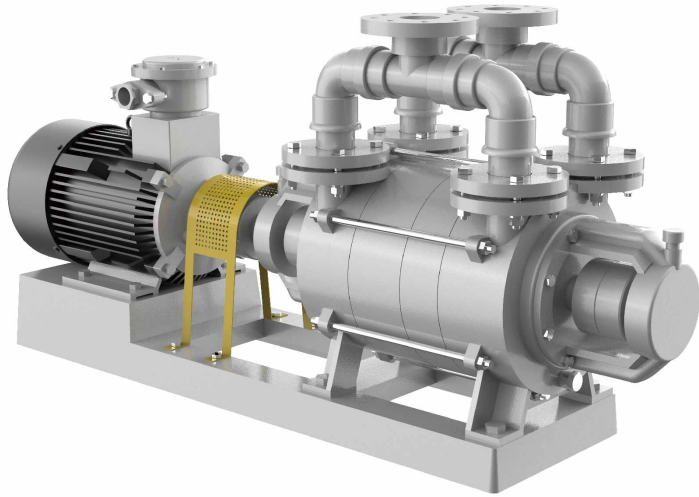
| 型号 Model | 功率 Power (KW) | 抽气速率 Pumping rate (m ³ /min) | 极限压力 Ultimate pressure (Pa) | 重量 Weight (kg) | 工作液流量 Water consumption (L/min) | 噪声 Noise (dB) |
|-------------|------------------|--|--------------------------------|-------------------|------------------------------------|------------------|
| 2BV06 | 1.1 | 0.45 | 3300 | 37 | 2 | 62 |
| 2BV61 | 1.5 | 0.87 | 3300 | 41 | 2 | 65 |
| 2BV70 | 3 | 1.33 | 3300 | 66 | 2.5 | 66 |
| 2BV71 | 4 | 1.83 | 3300 | 85 | 4.2 | 72 |
| 2BV110 | 4 | 2.75 | 3300 | 120 | 6.7 | 63 |
| 2BV111 | 5.5 | 3.83 | 3300 | 150 | 8.3 | 68 |
| 2BV121 | 7.5 | 4.68 | 3300 | 210 | 10 | 69 |
| 2BV131 | 11 | 6.68 | 3300 | 280 | 15 | 73 |
| 2BV161 | 15 | 8.3 | 3300 | 400 | 20 | 74 |

性能曲线 Performance Curve



SK/2SK系列水环式真空泵

SK/2SK WATER RING VACUUM PUMP



设备简介 Brief Introduction

主要用来抽除空气和其他有一定腐蚀性，不溶于水，允许含有少量固体颗粒物的气体。广泛用于食品、纺织、医药、化工等行业的真空蒸发、浓缩、浸渍、干燥等工艺中。

该型真空泵具有真空度高、结构简单、使用方便、工作可靠、维护方便等特点。

It is mainly used to remove air and other gases that are corrosive, insoluble in water, and allow a small amount of solid particles. Widely used in vacuum evaporation, concentration, impregnation, drying and other processes in food, textile, pharmaceutical, chemical and other industries.

This type of vacuum pump has the characteristics of high vacuum, simple structure, convenient use, reliable operation and convenient maintenance.

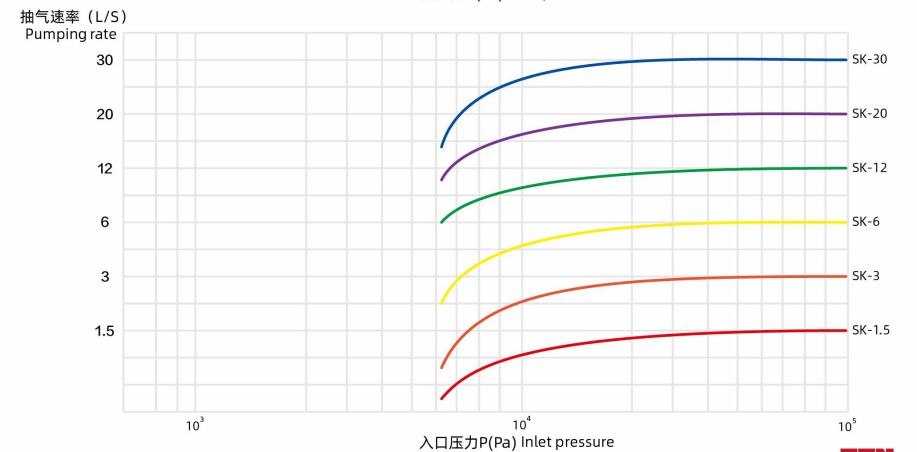
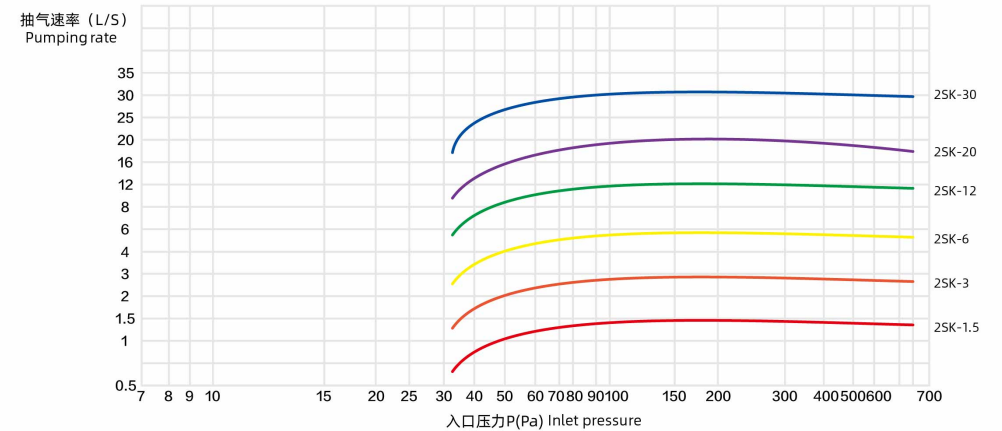
选型参数 Selection table

| 项目 Properties 型号 Model | 抽气速率 Pumping rate (m ³ /min) | 极限压力 Ultimate pressure (Pa) | 功率 Power (KW) | 转速 Speed (r.p.m) | 工作液流量 Water consumption (L/min) | 进排气口径 Inlet/Outlet caliber (mm) |
|---------------------------------|--|--------------------------------|------------------|---------------------|------------------------------------|------------------------------------|
| 2SK-3 | 3 | 3300 | 7.5 | 1440 | 15-20 | Φ40 |
| 2SK-6 | 6 | 3300 | 15 | 1460 | 25-30 | Φ50 |
| 2SK-12 | 12 | 3300 | 22 | 970 | 40-50 | Φ100 |
| 2SK-20 | 20 | 3300 | 37 | 740 | 60-80 | Φ125 |
| 2SK-30 | 30 | 3300 | 55 | 740 | 70-90 | Φ125 |

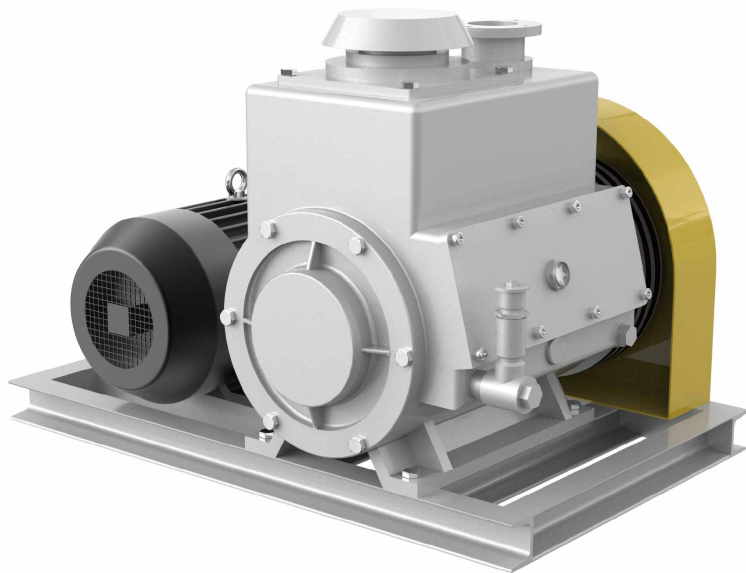
选型参数 Selection table

| 型号 Model | 抽气速率 Pumping rate (m ³ /min) | 极限压力 Ultimate pressure (Pa) | | 功率 Power (KW) | | 转速 Speed (r.p.m) | 压力 Pressure (kg/cm ²) | 进排气口径 Inlet/Outlet caliber (mm) | | 工作液流量 Water consumption (L/min) |
|-------------|--|--------------------------------|--------|--------------------|-------------------|---------------------|--------------------------------------|------------------------------------|----------|------------------------------------|
| | | mmHg | Mpa | 真空泵 Vacuum pump | 压缩机 Compressor | | | 进气Inlet | 排气Outlet | |
| | | | | | | | | | | |
| SK-12 | 12 | -700 | -0.093 | 18.5 | 30 | 970 | 0-1 | 100 | 100 | 40-50 |
| SK-20 | 20 | -700 | -0.093 | 37 | 55 | 740 | 0-1 | 125 | 125 | 60-80 |
| SK-30 | 30 | -700 | -0.093 | 55 | 75 | 740 | 0-1 | 125 | 125 | 70-100 |

性能曲线 Performance Curve



2X系列旋片式真空泵 2X ROTARY VANE VACUUM PUMP



设备简介 Brief Introduction

2X系列旋片式真空泵可以单独使用，也可以作为增压泵、扩散泵、分子泵的前级泵使用，具有真空度高的特点。该系列泵广泛应用于冶金、机械、电子、化工、石油、医药等行业的真空冶炼、真空镀膜、真空热处理、真空干燥等工艺中。

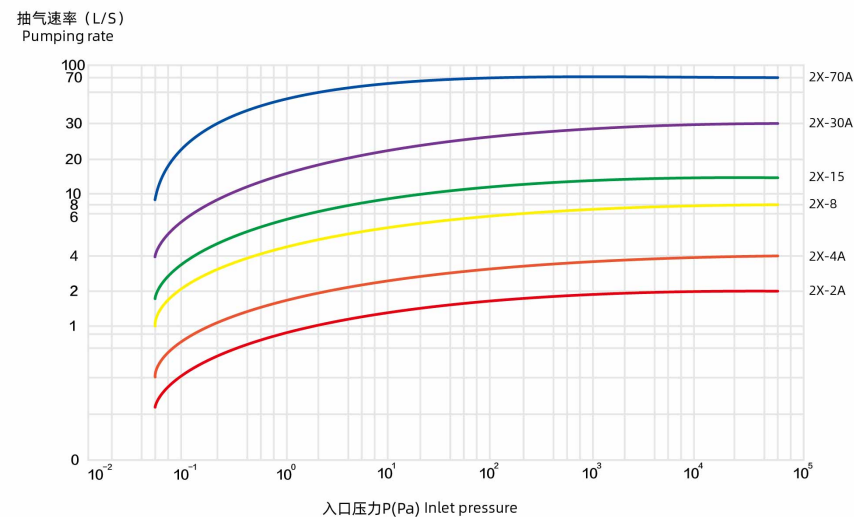
The 2X series rotary vane vacuum pump can be used alone or as a fore pump of a booster pump, a diffusion pump or a molecular pump, and has a high degree of vacuum.

This series of pumps are widely used in vacuum smelting, vacuum coating, vacuum heat treatment, vacuum drying and other processes in metallurgy, machinery, electronics, chemical, petroleum, pharmaceutical and other industries.

选型参数 Selection table

| 项目 Properties | 型号 Model | 2X-2A | 2X-4A | 2X-8 | 2X-15 | 2X-30A | 2X-70A |
|------------------------------------|-------------|---------------------|----------|----------|----------|----------|----------|
| 抽气速率 Pumping rate (L/S) | | 2 | 4 | 8 | 15 | 30 | 70 |
| 极限压力 Ultimate pressure (Pa) | | ≤6×10 ⁻² | | | | | |
| 电机功率 Power (kW) | | 0.37 | 0.55 | 1.1 | 2.2 | 3 | 5.5 |
| 泵温升 Temperature difference (°C) | | ≤40°C | | | | | |
| 噪音 Noise (dB) | | 70 | 72 | 75 | 80 | 82 | 86 |
| 吸气口径 Inlet caliber (mm) | | 25 | 25 | 40 | 40 | 65 | 80 |
| 转速 Speed (r.p.m) | | 450 | 450 | 320 | 320 | 450 | 450 |
| 用油量 Oil consumption (L) | | 0.7 | 0.7 | 2 | 2 | 2.8 | 4.2 |
| 外形尺寸 Size(cm) | | 56x30x41 | 56x34x42 | 79x43x54 | 79x53x54 | 78x50x56 | 91x65x70 |
| 重量 Weight (kg) | | 50 | 55 | 110 | 160 | 205 | 350 |

性能曲线 Performance Curve



三叶型罗茨鼓风机

TRI-LOBE ROOTS BLOWER

无油封等易损件
NO QUICK-WEAR PART

一款不喷油的风机
NO OIL SPLASH



设备简介 Brief Introduction

三叶罗茨风机是一种双叶轮同步压缩机械，每个三叶型转子用两个轴承支撑，利用一对同步齿轮，使两个转子的相对位置始终保持不变。属容积式鼓风机，具有强制输气特征。三叶罗茨风机作为回转式机械，具有比较稳定的工作特性，三叶罗茨风机转子与转子、转子与泵体、转子与侧盖之间都有微小间隙，因而工作腔内没有摩擦，无接触磨损部分；三叶罗茨风机经济耐用，无需润滑，使用寿命长，动力平衡性好。运转一周有六次吸排气过程，容积效率高结构简单，使用维护方便，不需要内部润滑，输送的介质不含油等特点。泵转子的支撑采用了可靠的消除结构，转动部件作细致的动平衡，并采用高精度的斜齿轮，因此，运行平稳，噪声低，使用更加可靠，可在高压差下长期运行。

罗茨风机广泛应用于陶瓷、建材、造纸、电业、石油、化工、纺织、水产养殖、污水处理、食品等行业的气力输送系统。

The three-leaf Roots blower is a two-impeller synchronous compression machine. Each three-bladed rotor is supported by two bearings. A pair of synchronous gears are used to keep the relative positions of the two rotors constant. It is a positive displacement blower with forced gas transmission characteristics. As a rotary machine, the three-leaf Roots blower has relatively stable working characteristics. There is a slight gap between the rotor and rotor of the three-leaf Roots blower, the rotor and the pump body, and the rotor and the side cover. Therefore, there is no friction in the working chamber. Contact with the wear part; the three-leaf Roots blower is economical and durable, requires no lubrication, has a long service life and good dynamic balance. There are six suction and exhaust processes in one week of operation. The volumetric efficiency is high, the structure is simple, the use and maintenance are convenient, no internal lubrication is required, and the medium to be transported does not contain oil. The support of the pump rotor adopts a reliable anti-backlash structure, the rotating parts are carefully balanced, and the high-precision helical gear is used. Therefore, the operation is stable, the noise is low, the use is more reliable, and the long-term operation can be performed under the high pressure difference.

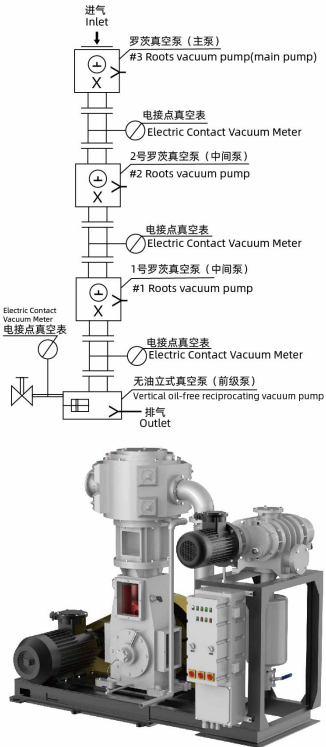
Roots blowers are widely used in the pneumatic conveying systems of ceramics, building materials, paper, electricity, petroleum, chemical, textile, aquaculture, sewage treatment, food and other industries.

选型参数 Selection table

| 型号 Model | 转速 rpm | 升压 (kgf/cm ²) Discharge Pressure | | | | | | | | | | | | | | | | | | | | |
|-------------|-----------|--|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|---|-------------------------------|--|
| | | 0.1kgf/cm ² | | 0.2kgf/cm ² | | 0.3kgf/cm ² | | 0.4kgf/cm ² | | 0.5kgf/cm ² | | 0.6kgf/cm ² | | 0.7kgf/cm ² | | 0.8kgf/cm ² | | 0.9kgf/cm ² | | 1kgf/cm ² | | |
| | | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | 流量 capacity (m ³ /min) | 轴功率 Shaft power (KW) | |
| SR65A | 1240 | 1.92 | 0.48 | 1.73 | 0.92 | 1.58 | 1.33 | 1.44 | 1.74 | 1.32 | 2.10 | | | | | | | | | | | |
| | 1360 | 2.16 | 0.56 | 1.97 | 1.04 | 1.82 | 1.48 | 1.68 | 1.94 | 1.56 | 2.35 | | | | | | | | | | | |
| | 1450 | 2.31 | 0.63 | 2.14 | 1.12 | 2.00 | 1.60 | 1.86 | 2.10 | 1.74 | 2.54 | 1.63 | 3.00 | | | | | | | | | |
| | 1530 | 2.45 | 0.70 | 2.28 | 1.20 | 2.14 | 1.72 | 2.02 | 2.25 | 1.90 | 2.72 | 1.79 | 3.20 | | | | | | | | | |
| SR65B | 1240 | 2.59 | 0.65 | 2.33 | 1.24 | 2.13 | 1.79 | 1.94 | 2.35 | 1.78 | 2.83 | | | | | | | | | | | |
| | 1360 | 2.91 | 0.75 | 2.66 | 1.40 | 2.45 | 1.99 | 2.26 | 2.61 | 2.10 | 3.17 | | | | | | | | | | | |
| | 1450 | 3.11 | 0.85 | 2.88 | 1.51 | 2.70 | 2.16 | 2.51 | 2.83 | 2.35 | 3.42 | 2.20 | 4.04 | | | | | | | | | |
| | 1530 | 3.30 | 0.94 | 3.07 | 1.62 | 2.88 | 2.32 | 2.72 | 3.03 | 2.56 | 3.67 | 2.41 | 4.31 | | | | | | | | | |
| SR80 | 1240 | 3.37 | 1.14 | 3.18 | 1.76 | 3.06 | 2.35 | 2.91 | 2.94 | 2.76 | 3.53 | 2.63 | 4.11 | | | | | | | | | |
| | 1360 | 3.77 | 1.29 | 3.59 | 1.99 | 3.46 | 2.64 | 3.30 | 3.31 | 3.16 | 3.98 | 3.02 | 4.65 | | | | | | | | | |
| | 1460 | 4.08 | 1.40 | 3.90 | 2.17 | 3.76 | 2.87 | 3.49 | 3.88 | 3.34 | 4.64 | 3.20 | 5.40 | 3.06 | 6.16 | | | | | | | |
| | 1560 | 4.38 | 1.52 | 4.21 | 2.32 | 4.07 | 3.10 | 3.82 | 4.17 | 3.67 | 4.99 | 3.53 | 5.79 | 3.39 | 6.59 | | | | | | | |
| SR100A | 1240 | 4.66 | 1.62 | 4.48 | 2.50 | 4.36 | 3.31 | 4.12 | 4.44 | 3.96 | 5.30 | 3.82 | 6.15 | 3.69 | 7.00 | | | | | | | |
| | 1220 | 5.34 | 1.68 | 5.03 | 2.70 | 4.76 | 3.71 | 4.53 | 4.76 | 4.32 | 5.76 | 4.13 | 6.90 | | | | | | | | | |
| | 1310 | 5.73 | 1.87 | 5.44 | 2.96 | 5.18 | 4.05 | 4.95 | 5.18 | 4.74 | 6.30 | 4.55 | 7.48 | 4.38 | 8.73 | | | | | | | |
| | 1460 | 6.53 | 2.18 | 6.25 | 3.40 | 6.00 | 4.62 | 5.78 | 5.87 | 5.58 | 7.10 | 5.39 | 8.45 | 5.20 | 9.83 | | | | | | | |
| SR100B | 1540 | 6.91 | 2.40 | 6.64 | 3.67 | 6.40 | 4.98 | 6.19 | 6.30 | 5.99 | 7.61 | 5.81 | 9.00 | 5.62 | 10.44 | | | | | | | |
| | 1680 | 7.63 | 2.78 | 7.36 | 4.18 | 7.13 | 5.62 | 6.92 | 7.08 | 6.73 | 8.50 | 6.55 | 10.03 | 6.37 | 11.51 | 6.19 | 12.95 | | | | | |
| | 980 | 5.89 | 1.33 | 5.28 | 2.59 | 4.85 | 3.73 | 4.48 | 4.95 | 4.19 | 6.09 | 3.88 | 7.25 | 3.60 | 8.37 | 3.32 | 9.62 | | | | | |
| | 1100 | 6.78 | 1.99 | 6.18 | 3.28 | 5.77 | 4.58 | 5.38 | 5.89 | 5.09 | 7.25 | 4.78 | 8.65 | 4.50 | 10.00 | 4.22 | 11.35 | | | | | |
| SR125A | 1200 | 7.50 | 2.10 | 6.91 | 3.52 | 6.52 | 4.86 | 6.13 | 6.22 | 5.81 | 7.65 | 5.53 | 9.15 | 5.24 | 10.65 | 4.95 | 12.15 | | | | | |
| | 1310 | 8.34 | 2.32 | 7.76 | 3.85 | 7.35 | 5.40 | 6.95 | 6.80 | 6.66 | 8.27 | 6.34 | 9.91 | 6.08 | 11.50 | 5.82 | 13.15 | 5.56 | 14.80 | 5.30 | 16.45 | |
| | 1450 | 9.38 | 2.55 | 8.78 | 4.30 | 8.39 | 5.96 | 7.98 | 7.65 | 7.68 | 9.32 | 7.39 | 11.15 | 7.12 | 12.92 | 6.85 | 14.72 | 6.58 | 16.52 | 6.31 | 18.32 | |
| | 1600 | 10.46 | 3.45 | 9.87 | 5.17 | 9.48 | 6.86 | 9.08 | 8.65 | 8.78 | 10.37 | 8.45 | 12.10 | 8.17 | 13.82 | 7.89 | 15.67 | 7.61 | 17.52 | 7.33 | 19.37 | |
| SR125B | 1100 | 9.36 | 2.75 | 8.53 | 4.53 | 7.96 | 6.32 | 7.42 | 8.13 | 7.02 | 10.01 | 6.60 | 11.94 | 6.21 | 13.80 | 5.82 | 15.66 | | | | | |
| | 1200 | 10.35 | 2.90 | 9.54 | 4.86 | 9.00 | 6.71 | 8.46 | 8.58 | 8.02 | 10.56 | 7.63 | 12.63 | 7.23 | 14.70 | 6.83 | 16.77 | | | | | |
| | 1310 | 11.51 | 3.20 | 10.71 | 5.31 | 10.14 | 7.45 | 9.59 | 9.38 | 9.19 | 11.41 | 8.75 | 13.68 | 8.39 | 15.87 | 8.03 | 18.15 | 7.67 | 20.42 | 7.31 | 22.70 | |
| | 1450 | 12.94 | 3.52 | 12.12 | 5.93 | 11.58 | 8.22 | 11.01 | 10.56 | 10.60 | 12.86 | 10.20 | 15.39 | 9.83 | 17.83 | 9.45 | 20.31 | 9.08 | 22.80 | 8.71 | 25.28 | |
| SR150A | 1600 | 14.43 | 4.76 | 13.62 | 7.13 | 13.08 | 9.47 | 12.53 | 11.94 | 12.12 | 14.31 | 11.66 | 16.70 | 11.27 | 19.07 | 10.89 | 21.62 | 10.50 | 24.18 | 10.12 | 26.73 | |
| | 980 | 11.85 | 3.05 | 11.01 | 5.60 | 10.35 | 7.75 | 9.89 | 10.00 | 9.39 | 12.40 | 9.03 | 14.60 | 8.65 | 16.80 | 8.27 | 19.30 | | | | | |
| | 1100 | 13.49 | 4.50 | 12.75 | 6.82 | 12.11 | 9.35 | 11.72 | 11.80 | 11.29 | 14.45 | 10.95 | 17.10 | 10.62 | 19.78 | 10.29 | 22.46 | | | | | |
| | 1200 | 14.91 | 4.95 | 14.16 | 7.50 | 13.55 | 10.15 | 13.13 | 12.88 | 12.75 | 15.62 | 12.36 | 18.48 | 12.03 | 21.30 | 11.70 | 24.12 | | | | | |
| SR150B | 1310 | 16.38 | 5.52 | 15.69 | 8.56 | 15.12 | 11.40 | 14.59 | 14.42 | 14.22 | 17.45 | 13.82 | 20.48 | 13.52 | 23.52 | 13.22 | 26.56 | 12.92 | 29.60 | 12.62 | 32.64 | |
| | 1450 | 18.45 | 6.05 | 17.68 | 9.15 | 17.15 | 12.35 | 16.59 | 15.55 | 16.20 | 18.90 | 15.90 | 22.15 | 15.54 | 25.50 | 15.15 | 28.90 | 14.76 | 32.30 | 14.37 | 35.70 | |
| | 1600 | 20.55 | 8.30 | 19.79 | 12.15 | 19.00 | 16.00 | 18.72 | 19.80 | 18.29 | 23.60 | 17.94 | 27.50 | 17.75 | 31.40 | 17.56 | 35.30 | 17.37 | 39.20 | 17.18 | 43.10 | |
| | 980 | 15.05 | 3.87 | 13.98 | 7.11 | 13.14 | 9.84 | 12.56 | 12.70 | 11.93 | 15.75 | 11.47 | 18.54 | 10.99 | 21.34 | 10.50 | 25.31 | | | | | |
| SR200A | 1100 | 17.13 | 5.72 | 16.19 | 8.66 | 15.38 | 11.87 | 14.88 | 14.99 | 14.34 | 18.35 | 13.91 | 21.72 | 13.49 | 25.12 | 13.07 | 28.52 | | | | | |
| | 1200 | 18.94 | 6.29 | 17.99 | 9.53 | 17.21 | 12.89 | 16.68 | 16.36 | 16.19 | 19.84 | 15.70 | 23.47 | 15.28 | 27.05 | 14.86 | 30.63 | | | | | |
| | 1310 | 20.80 | 7.01 | 19.93 | 10.87 | 19.20 | 14.48 | 18.53 | 18.31 | 18.06 | 22.16 | 17.55 | 26.01 | 17.17 | 29.87 | 16.79 | 33.73 | 16.41 | 37.59 | 16.03 | 41.45 | |
| | 1450 | 23.43 | 7.68 | 22.45 | 11.62 | 21.78 | 15.68 | 21.07 | 19.75 | 20.57 | 24.00 | 20.19 | 28.13 | 19.74 | 32.39 | 19.24 | 36.70 | 18.75 | 41.02 | 18.25 | 45.34 | |
| SR200B | 1600 | 26.10 | 10.54 | 25.13 | 15.43 | 24.37 | 20.32 | 23.77 | 25.15 | 23.23 | 29.97 | 22.78 | 34.93 | 22.54 | 39.88 | 22.30 | 44.83 | 22.06 | 49.78 | 21.82 | 54.74 | |
| | 980 | 22.25 | 6.50 | 21.40 | 9.90 | 20.90 | 13.50 | 20.35 | 17.20 | 19.80 | 20.80 | 19.40 | 25.50 | 18.80 | 29.80 | 18.45 | 35.00 | | | | | |
| | 1100 | 25.50 | 7.50 | 24.50 | 11.70 | 24.20 | 16.80 | 23.50 | 21.40 | 23.20 | 26.50 | 22.70 | 31.60 | 22.00 | 36.00 | 21.30 | 40.40 | | | | | |
| | 1200 | 28.20 | 8.50 | 27.40 | 13.20 | 26.60 | 18.00 | 26.40 | 23.50 | 25.80 | 28.60 | 25.30 | 33.70 | 24.70 | 38.50 | 24.10 | 43.30 | | | | | |
| SR250A | 1310 | 31.10 | 9.50 | 30.20 | 15.10 | 29.60 | 20.60 | 29.30 | 26.40 | 28.40 | 31.50 | 28.20 | 37.50 | 27.70 | 43.50 | 27.20 | 49.50 | 26.70 | 55.50 | 26.20 | 61.50 | |
| | 1450 | 34.80 | 10.30 | 34.10 | 16.50 | 33.20 | 22.40 | 33.00 | 28.90 | 32.20 | 34.80 | 32.00 | 41.50 | 31.20 | 47.50 | 31.00 | 54.10 | 30.60 | 60.70 | 30.20 | 67.30 | |
| | 980 | 28.90 | 8.30 | 28.00 | 12.80 | 27.10 | 17.10 | 26.20 | 25.00 | 25.90 | 28.60 | 25.10 | 32.20 | 24.40 | 37.90 | 24.20 | 44.70 | | | | | |
| | 1100 | 32.60 | 9.20 | 31.90 | 14.50 | 30.90 | 19.80 | 30.40 | 25.30 | 29.90 | 30.80 | 29.20 | 36.30 | 28.30 | 41.50 | 27.70 | 46.70 | | | | | |
| SR250B | 1200 | 36.20 | 10.60 | 35.00 | 16.10 | 34.60 | 23.30 | 33.90 | 28.40 | 33.00 | 34.40 | 32.80 | 40.90 | 31.90 | 47.00 | 31.30 | 53.10 | | | | | |
| | 1310 | 39.90 | 11.40 | 39.10 | 17.90 | 38.10 | 24.70 | 37.20 | 31.10 | 36.90 | 38.40 | 36.00 | 45.30 | 35.60 | 53.20 | 35.20 | 60.30 | 34.80 | 71.10 | 34.40 | 79.70 | |
| | 1450 | 4 | | | | | | | | | | | | | | | | | | | | |

JZJWLW系列罗茨无油立式往复真空机组

JZJWLW VACUUM SYSTEM



设备简介 Brief Introduction

JZJWLW系列真空机组，是以罗茨真空泵为主泵，立式无油往复真空泵为前级泵，通过电接点真空表来实现罗茨真空泵，立式无油往复真空泵自动启停，自动保护真空系统的真空获得设备。广泛应用于电子、真空镀膜、化纤、冶金、热处理、焊接、化工等行业。

它除了具有一般罗茨真空泵机组的特点外，由于采用无油立式往复真空泵作为前级泵，还能提高真空清洁度，特别适合抽除遇油反应的气体和无压缩凝固性的气体。

JZJWLW series vacuum unit is based on Roots vacuum pump as the main pump. The vertical oil-free reciprocating vacuum pump is the front stage pump. The Roots vacuum pump is realized by the electric contact vacuum table. The vertical oil-free reciprocating vacuum pump automatically starts and stops, and the automatic protection vacuum system The vacuum gets the equipment. Widely used in electronics, vacuum coating, chemical fiber, metallurgy, heat treatment, welding, chemical and other industries.

In addition to the characteristics of the general Roots vacuum pump unit, it also improves the vacuum cleanliness by using the oil-free vertical reciprocating vacuum pump as the foreline pump. It is especially suitable for removing oils and non-compressed coagulating gases.

选型参数 Selection table

| 项目 Properties 型号 Model | 抽气速率 Pumping rate (L/S) | 极限压力 Ultimate pressure (Pa) | 机组组成泵型号 Model of vacuum system | | | | 总功率 Power (kW) | 吸气口径 Inlet caliber (mm) | 排气口径 Outlet caliber (mm) |
|---------------------------------|----------------------------------|--------------------------------------|-----------------------------------|-----------------|-----------------|-------------------------------|----------------------|----------------------------------|-----------------------------------|
| | | | 主泵 Main pump | 中间泵二 #2 pump | 中间泵一 #1 pump | 前级泵 Front stage pump | | | |
| JZJWLW70-1 | 70 | 133 | ZJ-70 | | | WLW-50 | 5.5 | 80 | 50 |
| JZJWLW150-2 | 150 | 133 | ZJ-150 | | | WLW-50 | 7 | 100 | 50 |
| JZJWLW150-2A | 150 | 133 | ZJ-150 | | | WLW-70 | 8.5 | 100 | 50 |
| JZJWLW150-1 | 150 | 133 | ZJ-150 | | | WLW-100 | 10.5 | 100 | 100 |
| JZJWLW300-2 | 300 | 133 | ZJ-300 | | | WLW-150 | 11.5 | 150 | 100 |
| JZJWLW300-2A | 300 | 133 | ZJ-300 | | | WLW-150 | 15 | 150 | 125 |
| JZJWLW300-1 | 300 | 133 | ZJ-300 | | | WLW-200 | 19 | 150 | 125 |
| JZJWLW600-2 | 600 | 133 | ZJ-600 | | | WLW-200 | 20.5 | 150 | 125 |
| JZJWLW600-2A | 600 | 133 | ZJ-600 | | | WLW-300 | 27.5 | 150 | 160 |
| JZJWLW600-1 | 600 | 133 | ZJ-600 | | | WLW-400 | 35.5 | 150 | 160 |
| JZJWLW1200-2 | 1200 | 133 | ZJ-1200 | | | WLW-600 | 56 | 300 | 250 |
| JZJWLW70-11 | 70 | 15 | ZJ-70 | | ZJ-70 | WLW-50 | 7 | 80 | 50 |
| JZJWLW150-21 | 150 | 15 | ZJ-150 | | ZJ-70 | WLW-50 | 8.5 | 100 | 50 |
| JZJWLW150-11 | 150 | 15 | ZJ-150 | | ZJ-150 | WLW-100 | 13.5 | 100 | 100 |
| JZJWLW300-22 | 300 | 15 | ZJ-300 | | ZJ-150 | WLW-70 | 12.5 | 150 | 50 |
| JZJWLW300-21 | 300 | 15 | ZJ-300 | | ZJ-150 | WLW-100 | 14.5 | 150 | 100 |
| JZJWLW600-22 | 600 | 15 | ZJ-600 | | ZJ-300 | WLW-150 | 20.5 | 150 | 125 |
| JZJWLW600-21 | 600 | 15 | ZJ-600 | | ZJ-300 | WLW-200 | 24.5 | 150 | 125 |
| JZJWLW1200-22 | 1200 | 15 | ZJ-1200 | | ZJ-600 | WLW-300 | 38.5 | 300 | 160 |
| JZJWLW1200-21 | 1200 | 15 | ZJ-1200 | | ZJ-600 | WLW-400 | 46.5 | 300 | 160 |
| JZJWLW150-211 | 150 | 1 | ZJ-150 | ZJ-70 | ZJ-70 | WLW-50 | 10 | 100 | 50 |
| JZJWLW300-221 | 300 | 1 | ZJ-300 | ZJ-150 | ZJ-70 | WLW-50 | 12.5 | 150 | 50 |
| JZJWLW300-211 | 300 | 1 | ZJ-300 | ZJ-150 | ZJ-150 | WLW-100 | 17.5 | 150 | 100 |
| JZJWLW600-222 | 600 | 1 | ZJ-600 | ZJ-300 | ZJ-150 | WLW-70 | 18 | 150 | 50 |
| JZJWLW600-221 | 600 | 1 | ZJ-600 | ZJ-300 | ZJ-150 | WLW-100 | 20 | 150 | 100 |
| JZJWLW600-211 | 600 | 1 | ZJ-600 | ZJ-300 | ZJ-300 | WLW-200 | 28.5 | 150 | 125 |
| ZJZWLW1200-222 | 1200 | 1 | ZJ-1200 | ZJ-600 | ZJ-300 | WLW-150 | 31.5 | 300 | 125 |
| JZJWLW1200-221 | 1200 | 1 | ZJ-1200 | ZJ-600 | ZJ-300 | WLW-200 | 35.5 | 300 | 125 |
| JZJWLW1200-211 | 1200 | 1 | ZJ-1200 | ZJ-600 | ZJ-600 | WLW-400 | 52 | 300 | 160 |

注：以上为推荐型号，可以根据客户要求，特殊定制

The above models are recommended and can be customized according to customer requirements

JZJLG系列螺杆罗茨真空机组

JZJLG VACUUM SYSTEM



设备简介 Brief Introduction

JZJLG系列真空机组，是以罗茨真空泵为主泵，螺杆真空泵为前级泵，通过电接点真空表来实现罗茨真空泵，螺杆真空泵自动启停，自动保护真空系统的真空获得设备。广泛应用于电子、真空镀膜、化纤、冶金、热处理、焊接、化工等行业。

它除了具有一般罗茨真空泵机组的特点外，由于采用螺杆真空泵作为前级泵，不仅真空度高，还能提高真空清洁度，特别适合抽除遇油反应的气体和无压缩凝固性的气体。是目前取代立式无油真空机组的最佳选择。

JZJLG series vacuum unit is based on Roots vacuum pump as the main pump. The Screw vacuum pump is the front stage pump. The Roots vacuum pump is realized by the electric contact vacuum table. The Screw vacuum pump automatically starts and stops, and the automatic protection vacuum system The vacuum gets the equipment. Widely used in electronics, vacuum coating, chemical fiber, metallurgy, heat treatment, welding, chemical and other industries.

In addition to the characteristics of the general Roots vacuum pump unit, it also improves the vacuum cleanliness by using the Screw vacuum pump as the foreline pump. It is especially suitable for removing oils and non-compressed coagulating gases.

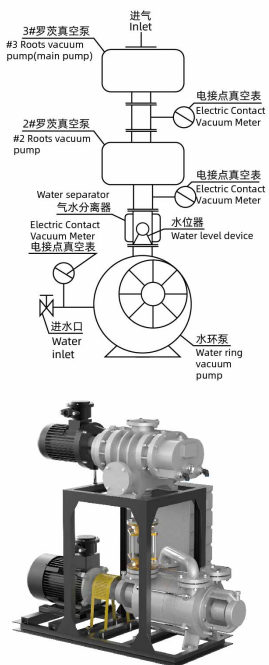
选型参数 Selection table

| 项目 Properties 型号 Model | 抽气速率 Pumping rate (L/S) | 极限压力 Ultimate pressure (Pa) | 机组组成泵型号 Model of vacuum system | | | 总功率 Power (KW) | 吸气口径 Inlet caliber (mm) | 排气口径 Outlet caliber (mm) |
|---------------------------------|----------------------------------|--------------------------------------|-----------------------------------|-----------------------------|----------------------------|----------------------|-------------------------------|-----------------------------------|
| | | | 主泵 Main pump | 中间泵 Intermediate pump | 前级泵 Front stage pump | | | |
| JZJLG150 | 150 | 5 | ZJ-150 | | TYLG-100 | 14 | 100 | 40 |
| JZJLG300-1 | 300 | | ZJ-300 | | TYLG-100 | 15 | 150 | 40 |
| JZJLG300-2 | 300 | | ZJ-300 | | TYLG-150 | 19 | 150 | 60 |
| JZJLG600-1 | 600 | | ZJ-600 | | TYLG-150 | 20.5 | 150 | 60 |
| JZJLG600-2 | 600 | | ZJ-600 | | TYLG-200 | 24 | 150 | 60 |
| JZJLG600-3 | 600 | | ZJ-600 | | TYLG-220 | 27.5 | 150 | 60 |
| JZJLG600-4 | 600 | | ZJ-600 | | TYLG-300 | 35.5 | 150 | 80 |
| JZJLG1200-1 | 1200 | | ZJ-1200 | | TYLG-300 | 41 | 300 | 80 |
| JZJLG1200-2 | 1200 | | ZJ-1200 | | TYLG-400 | 48 | 300 | 80 |
| JZJLG1200-3 | 1200 | | ZJ-1200 | | TYLG-550 | 66 | 300 | 100 |
| JZJLG2500-1 | 2500 | | ZJ-2500 | | TYLG-550 | 77 | 300 | 100 |
| JZJLG2500-2 | 2500 | | ZJ-2500 | | TYLG-780 | 77 | 300 | 100 |
| JZJLG600-11 | 600 | | 0.5 | ZJ-600 | ZJ-300 | TYLG-150 | 24.5 | 150 |
| JZJLG1200-11 | 1200 | ZJ-1200 | | ZJ-600 | TYLG-150 | 31.5 | 300 | 60 |
| JZJLG1200-12 | 1200 | ZJ-1200 | | ZJ-600 | TYLG-200 | 35 | 300 | 60 |
| JZJLG1200-13 | 1200 | ZJ-1200 | | ZJ-600 | TYLG-300 | 46.5 | 300 | 80 |
| JZJLG2500-11 | 2500 | ZJ-2500 | | ZJ-1200 | TYLG-300 | 63 | 300 | 80 |
| JZJLG2500-12 | 2500 | ZJ-2500 | | ZJ-1200 | TYLG-400 | 70 | 300 | 80 |
| JZJLG2500-13 | 2500 | ZJ-2500 | | ZJ-1200 | TYLG-550 | 88 | 300 | 100 |

注：以上为推荐型号，可以根据客户要求，特殊定制

The above models are recommended and can be customized according to customer requirements

JZJS系列罗茨水环真空机组 JZJS VACUUM SYSTEM



设备简介 Brief Introduction

JZJS型罗茨水环真空机组，是以罗茨真空泵为主泵，以水环式真空泵为前级泵，通过电接点真空表实现机组自动启闭，自动保护及整套机组的安全保护的真空获得设备。

它除了具有一般罗茨真空泵机组的某些特点外，由于采用水环式真空泵作为前级泵，所以它特别适用于抽除含有较多水蒸气及有一定腐蚀性气体的工业流程中。例如干燥、脱水、蒸发、蒸馏、结晶等工艺。

由于水环式真空泵的极限真空远比油封机械泵低，所以用水环式真空泵作前级泵的罗茨水环机组的极限真空比用油封机械泵作前级泵的罗茨机械泵机组的极限真空要低。本型号三级机组的极限真空25Pa，二级机组的极限真空小于400Pa，但这样的真空度对于上述工业流程要求已经完全可以满足了。

JZJS Roots Water Ring Vacuum Unit is a vacuum acquisition equipment with Roots Vacuum Pump as the main pump and Water Ring Vacuum Pump as the front pump. It realizes automatic start-up and shut-down of the unit, automatic protection and safety protection of the whole unit by means of electric contact vacuum meter.

In addition to some characteristics of general Roots vacuum pump units, the water ring vacuum pump is used as the front pump, so it is especially suitable for industrial processes that contain more water vapor and corrosive gases. For example, drying, dehydration, evaporation, distillation, crystallization and other processes.

Because the limit vacuum of water-ring vacuum pump is much lower than that of oil-seal mechanical pump, the limit vacuum of Roots water-ring unit using water-ring vacuum pump as the front pump is lower than that of Roots mechanical pump unit using oil-seal mechanical pump as the front pump. The limit vacuum of this type of three-stage unit is 25 Pa, and that of the second-stage unit is less than 400 Pa. However, such a vacuum degree can fully meet the requirements of the above-mentioned industrial process.

选型参数 Selection table

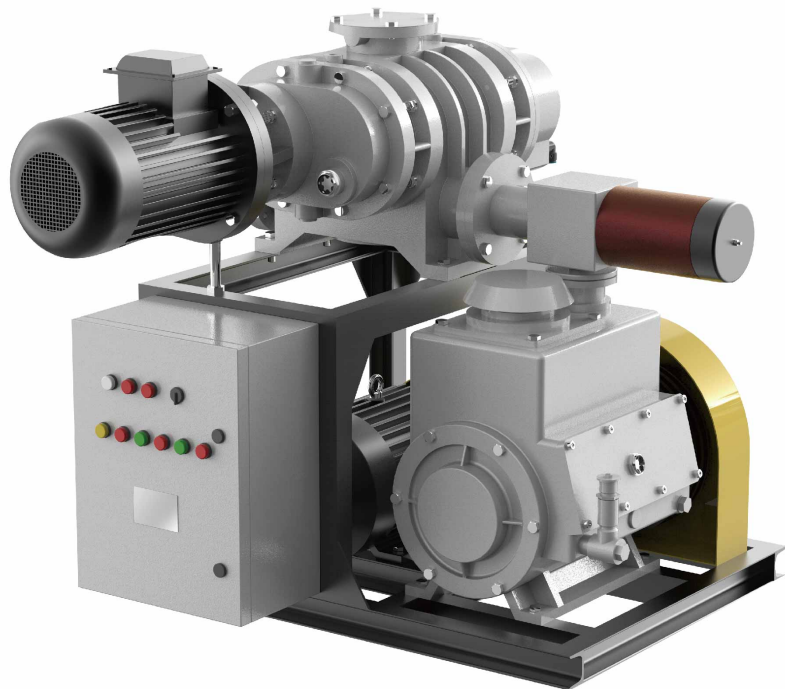
| 项目 Properties 型号 Model | 抽气速率 Pumping rate (L/S) | 极限压力 Ultimate pressure (Pa) | 机组组成泵型号 Model of vacuum system | | | | 总功率 Power (KW) | 吸气口径 Inlet caliber (mm) | 排气口径 Outlet caliber (mm) |
|---------------------------------|----------------------------------|--------------------------------------|-----------------------------------|-----------------|-----------------|----------------------------|----------------------|----------------------------------|-----------------------------------|
| | | | 主泵 Main pump | 中间泵二 #2 pump | 中间泵一 #1 pump | 前级泵 Front stage pump | | | |
| JZJS30-1 | 30 | 400 | ZJ-30 | | | 25K-1.5 | 4.75 | 50 | 40 |
| JZJS70-2 | 70 | 400 | ZJ-70 | | | 25K-1.5 | 5.5 | 80 | 40 |
| JZJS70-1 | 70 | 400 | ZJ-70 | | | 25K-3 | 9 | 80 | 40 |
| JZJS150-2 | 150 | 400 | ZJ-150 | | | 25K-3 | 10.5 | 100 | 40 |
| JZJS150-1 | 150 | 400 | ZJ-150 | | | 25K-6 | 18 | 100 | 50 |
| JZJS300-2 | 300 | 400 | ZJ-300 | | | 25K-6 | 19 | 150 | 50 |
| JZJS300-1 | 300 | 400 | ZJ-300 | | | 25K-12 | 26 | 150 | 100 |
| JZJS600-2 | 600 | 400 | ZJ-600 | | | 25K-12 | 29.5 | 150 | 100 |
| JZJS600-1 | 600 | 400 | ZJ-600 | | | 25K-20 | 44.5 | 150 | 125 |
| JZJS1200-2 | 1200 | 400 | ZJ-1200 | | | 25K-30 | 66 | 300 | 125 |
| JZJS30-11 | 30 | 25 | ZJ-30 | | ZJ-30 | 25K-1.5 | 5.5 | 50 | 40 |
| JZJS70-21 | 70 | 25 | ZJ-70 | | ZJ-30 | 25K-1.5 | 6.25 | 80 | 40 |
| JZJS70-12 | 70 | 25 | ZJ-70 | | ZJ-70 | 25K-1.5 | 7 | 80 | 40 |
| JZJS70-11 | 70 | 25 | ZJ-70 | | ZJ-70 | 25K-3 | 10.5 | 80 | 40 |
| JZJS150-21 | 150 | 25 | ZJ-150 | | ZJ-70 | 25K-3 | 12 | 100 | 40 |
| JZJS150-12 | 150 | 25 | ZJ-150 | | ZJ-150 | 25K-3 | 13.5 | 100 | 40 |
| JZJS150-11 | 150 | 25 | ZJ-150 | | ZJ-150 | 25K-6 | 21 | 100 | 50 |
| JZJS300-22 | 300 | 25 | ZJ-300 | | ZJ-150 | 25K-3 | 14.5 | 150 | 40 |
| JZJS300-21 | 300 | 25 | ZJ-300 | | ZJ-150 | 25K-6 | 22 | 150 | 50 |
| JZJS300-12 | 300 | 25 | ZJ-300 | | ZJ-150 | 25K-6 | 23 | 150 | 50 |
| JZJS300-11 | 300 | 25 | ZJ-300 | | ZJ-300 | 25K-12 | 30 | 150 | 100 |
| JZJS600-22 | 600 | 25 | ZJ-600 | | ZJ-300 | 25K-6 | 26.5 | 150 | 50 |
| JZJS600-21 | 600 | 25 | ZJ-600 | | ZJ-300 | 25K-12 | 33.5 | 150 | 100 |
| JZJS1200-22 | 1200 | 25 | ZJ-1200 | | ZJ-300 | 25K-12 | 40.5 | 300 | 100 |
| JZJS1200-22A | 1200 | 25 | ZJ-1200 | | ZJ-600 | 25K-20 | 55.5 | 300 | 125 |
| JZJS1200-21 | 1200 | 25 | ZJ-1200 | | ZJ-600 | 25K-30 | 73.5 | 300 | 125 |
| JZJS30-111 | 30 | 1 | ZJ-30 | ZJ-30 | ZJ-30 | 25K-1.5 | 6.25 | 50 | 40 |
| JZJS70-211 | 70 | 1 | ZJ-70 | ZJ-30 | ZJ-30 | 25K-1.5 | 7 | 80 | 40 |
| JZJS150-211 | 150 | 1 | ZJ-150 | ZJ-70 | ZJ-70 | 25K-3 | 13.5 | 100 | 40 |
| JZJS300-411 | 300 | 1 | ZJ-300 | ZJ-70 | ZJ-70 | 25K-3 | 14.5 | 150 | 40 |
| JZJS300-221 | 300 | 1 | ZJ-300 | ZJ-150 | ZJ-70 | 25K-3 | 16 | 150 | 40 |
| JZJS300-211 | 300 | 1 | ZJ-300 | ZJ-150 | ZJ-150 | 25K-6 | 25 | 150 | 50 |
| JZJS600-411 | 600 | 1 | ZJ-600 | ZJ-150 | ZJ-150 | 25K-6 | 28.5 | 150 | 50 |
| JZJS600-221 | 600 | 1 | ZJ-600 | ZJ-300 | ZJ-150 | 25K-6 | 29.5 | 150 | 50 |
| JZJS1200-221 | 1200 | 1 | ZJ-1200 | ZJ-600 | ZJ-300 | 25K-12 | 44.5 | 300 | 100 |
| JZJS2500-222 | 2500 | 1 | ZJ-2500 | ZJ-1200 | ZJ-600 | 25K-20 | 74 | 300 | 125 |

注：以上为推荐型号，可以根据客户要求，特殊定制

The above models are recommended and can be customized according to customer requirements

JZJX系列罗茨旋片真空机组

JZJX VACUUM SYSTEM



设备简介 Brief Introduction

JZJX系列罗茨旋片真空机组是以罗茨真空泵为主泵，旋片泵为前级泵串联而成的真空机组。其结构紧凑，操作方便，适用于抽除空气，无可凝絮性及无腐蚀性的气体。广泛应用于需要高真空的真空系统中，如真空冶炼、电容器、变压器、真空浸渍处理、真空镀膜等。

JZJX series Roots rotary vane vacuum unit is a vacuum unit composed of Roots vacuum pump as the main pump and rotary vane pump as the front pump in series. The utility model has compact structure and convenient operation, and is suitable for extracting air, no coagulable and non-corrosive gas. It is widely used in vacuum systems requiring high vacuum, such as vacuum smelting, capacitors, transformers, vacuum impregnation treatment, vacuum coating, etc.

选型参数 Selection table

| 项目 型号 Model | 抽气速率 Pumping rate (L/S) | 极限压力 Ultimate pressure (Pa) | 主泵 Main pump | 前级泵 Front stage pump | 总功率 Power(KW) | 吸气口径 Inlet caliber (mm) | 排气口径 Outlet caliber (mm) |
|-------------------|-------------------------------|--------------------------------------|-----------------|----------------------------|------------------|-------------------------------|-----------------------------------|
| JZJX30-8 | 30 | 5×10^{-2} | ZJ-30 | 2X-4 | 1.3 | 50 | 19 |
| JZJX30-4 | 30 | 5×10^{-2} | ZJ-30 | 2X-8 | 1.85 | 50 | 19 |
| JZJX70-8 | 70 | 5×10^{-2} | ZJ-70 | 2X-8 | 2.6 | 80 | 19 |
| JZJX70-4 | 70 | 5×10^{-2} | ZJ-70 | 2X-15 | 3.7 | 80 | G2" |
| JZJX150-8 | 150 | 5×10^{-2} | ZJ-150 | 2X-15 | 5.2 | 100 | G2" |
| JZJX150-4 | 150 | 5×10^{-2} | ZJ-150 | 2X-30 | 6 | 100 | G2 1/2" |
| JZJX150-2 | 150 | 5×10^{-2} | ZJ-150 | 2X-70 | 8.5 | 100 | G4" |
| JZJX300-8 | 300 | 5×10^{-2} | ZJ-300 | 2X-30 | 7 | 150 | G2 1/2" |
| JZJX300-4 | 300 | 5×10^{-2} | ZJ-300 | 2X-70 | 9.5 | 150 | G4" |
| JZJX300-2 | 300 | 5×10^{-2} | ZJ-300 | 2X-70两台 | 15 | 150 | G4" |
| JZJX600-8 | 600 | 5×10^{-2} | ZJ-600 | 2X-70 | 11 | 150 | G4" |
| JZJX600-4 | 600 | 5×10^{-2} | ZJ-600 | 2X-70两台 | 18.5 | 150 | G4" |
| JZJX1200-8 | 1200 | 5×10^{-2} | ZJ-1200 | 2X-70两台 | 22 | 300 | G4" |

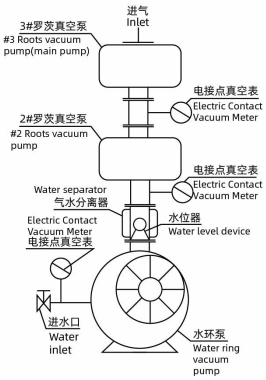
注：以上为推荐型号，可以根据客户要求，特殊定制

The above models are recommended and can be customized according to customer requirements

JZJBV罗茨水环真空机组

JZJBV VACUUM SYSTEM

选型参数 Selection table



| Properties 项目 型号 Model | 抽气速率 Pumping rate (L/S) | 极限压力 Ultimate pressure (Pa) | 机组组成泵型号 Model of vacuum system | | | 总功率 Power (KW) | 吸气口径 Inlet caliber (mm) | 排气口径 Outlet caliber (mm) |
|---------------------------------|----------------------------------|--------------------------------------|-----------------------------------|-----------------------------|----------------------------|----------------------|-------------------------------|-----------------------------------|
| | | | 主泵 Main pump | 中间泵 Intermediate pump | 前级泵 Front stage pump | | | |
| JZJBV110-70 | 70 | 400 | ZJ-70 | | 2BV5110 | 5.5 | 80 | 52 |
| JZJBV111-70 | 70 | 400 | ZJ-70 | | 2BV5111 | 7 | 80 | 52 |
| JZJBV121-150 | 150 | 400 | ZJ-150 | | 2BV5121 | 10.5 | 100 | 66.5 |
| JZJBV131-150 | 150 | 400 | ZJ-150 | | 2BV5131 | 14 | 100 | 66.5 |
| JZJBV161-150 | 150 | 400 | ZJ-150 | | 2BV5161 | 18 | 100 | 80 |
| JZJBV110-150 | 150 | 25 | ZJ-150 | ZJ-70 | 2BV5110 | 8.5 | 100 | 52 |
| JZJBV111-150 | 150 | 25 | ZJ-150 | ZJ-70 | 2BV5111 | 10 | 100 | 52 |
| JZJBV121-300 | 300 | 25 | ZJ-300 | ZJ-150 | 2BV5121 | 14.5 | 150 | 66.5 |
| JZJBV131-300 | 300 | 25 | ZJ-300 | ZJ-150 | 2BV5131 | 18 | 150 | 66.5 |
| JZJBV161-300 | 300 | 25 | ZJ-300 | ZJ-150 | 2BV5161 | 22 | 150 | 80 |
| JZJBV161-600 | 600 | 25 | ZJ-600 | ZJ-300 | 2BV5161 | 24.5 | 150 | 80 |

注：以上为推荐型号，可以根据客户要求，特殊定制

The above models are recommended and can be customized according to customer requirements

设备简介 Brief Introduction

JZJBV系列机组由于可以用水当做介质来工作，所以在实际使用中常被用于抽除有污染或易燃易爆的气体。

JZJBV series units are often used to extract polluted or flammable and explosive gases in practical use because they can work with water as a medium.

RPP水喷射真空机组

RPP VACUUM SYSTEM



设备简介 Brief Introduction

JZJP型罗茨水喷射真空机组是由罗茨泵（又称机械增压泵）为主泵（包括中间泵），水喷射泵为前级泵组成。用全塑卧式水喷射真空机组作为前级泵，可抽腐蚀性气体，一级罗茨泵极限真空可达150Pa，二级罗茨泵极限真空可达25Pa，机组广泛应用于真空干燥，真空蒸馏，真空浓缩等。在冶金，石油化工，造纸，食品，电子工业部门得到广泛的应用。可根据客户实际需要，可以设计更多及成套机组，以提高机组的抽气能力和真空度。

JZJP roots water jet vacuum system is composed of roots pump (also known as mechanical booster pump) as main pump (including intermediate pump), and water jet pump is composed of front stage pump. The plastic horizontal water jet vacuum unit is used as the front stage pump, which can pump corrosive gas. The limit vacuum of the first stage roots pump can reach 150 Pa, and the second stage roots pump can reach 25 Pa. The unit is widely used in vacuum drying, vacuum distillation, vacuum concentration, etc. It is widely used in metallurgy, petrochemical, papermaking, food and electronic industries. According to the actual needs of customers, more and complete sets of units can be designed to improve the pumping capacity and vacuum degree of the system

选型参数 Selection table

| 项目 Properties 型号 Model | 抽气速率 Pumping rate (L/S) | 极限压力 Ultimate pressure (Pa) | 机组组成泵型号 Model of vacuum system | | | 总功率 Power (KW) |
|---------------------------------|----------------------------------|--------------------------------------|-----------------------------------|-----------------------------|----------------------------|----------------------|
| | | | 主泵 Main pump | 中间泵 Intermediate pump | 前级泵 Front stage pump | |
| JZJP-70-60 | 70 | 150 | ZJ-70 | | RPP-40-60 | 5.5 |
| JZJP-70-180 | 70 | 150 | ZJ-70 | | RPP-54-180 | 7.7 |
| JZJP-150-280 | 150 | 150 | ZJ-150 | | RPP-65-280 | 10.5 |
| JZJP-150-360 | 150 | 150 | ZJ-150 | | RPP-65-360 | 14 |
| JZJP-150-500 | 150 | 150 | ZJ-150 | | RPP-80-500 | 18 |
| ZJZP-300-500 | 300 | 150 | ZJ-300 | | RPP-80-500 | 19 |
| JZJP-70-70-60 | 70 | 25 | ZJ-70 | ZJ-70 | RPP-40-60 | 7.4 |
| JZJP-70-70-180 | 70 | 25 | ZJ-70 | ZJ-70 | RPP-54-180 | 9.9 |
| JZJP-150-70-280 | 150 | 25 | ZJ-150 | ZJ-70 | RPP-65-280 | 12.7 |
| JZJP-150-70-360 | 150 | 25 | ZJ-150 | ZJ-70 | RPP-65-360 | 16.2 |
| JZJP-300-150-500 | 300 | 25 | ZJ-300 | ZJ-150 | RPP-80-500 | 22 |

注：以上为推荐型号，可以根据客户要求，特殊定制

The above models are recommended and can be customized according to customer requirements

4.

常用单位换算表 UNIT CONVERSION TABLE

抽气速率单位换算表 Speed rate unit conversion table

| 单位 unit | 立方米/秒 | 升/秒 | 立方米/小时 | 立方英尺/分 |
|-----------------------------|-----------------------|-------|-------------------|---------|
| | M ³ /S | L/S | M ³ /H | CFT/MIN |
| 1立方米/秒(1M ³ /S) | 1 | 1000 | 3600 | 2118.88 |
| 1升/秒(1L/S) | 10 ⁻³ | 1 | 3.6 | 2.119 |
| 1立方米/小时(1M ³ /H) | 2.78x10 ⁻⁴ | 0.278 | 1 | 0.59 |
| 1立方英尺/分 (1CFT/MIN) | 4.72x10 ⁻⁴ | 0.47 | 1.69 | 1 |

压强单位换算表 Pressure unit conversion table

| | 帕 Pa | 托 Torr | 微米汞柱 μmHg | 微巴 μbar | 毫巴 mbar | 大气压 atm | 工程大气压 am | 英寸汞柱 inHg | 磅/英寸 ² lb/in ² |
|---------------------|------------------|----------------------|------------------------|-------------------------|-------------------------|--------------------------|-------------------------|------------------------|---|
| 1Pa | 1 | 7.5x10 ⁻³ | 7.5 | 10 | 10 ⁻² | 9.86923x10 ⁻⁶ | 1.0197x10 ⁻⁵ | 2.953x10 ⁻⁴ | 1.450x10 ⁻⁴ |
| 1Torr | 133.32 | 1 | 10 ³ | 1333.2 | 1.3332 | 1.31579x10 ⁻³ | 1.3595x10 ⁻³ | 3.937x10 ⁻² | 1.934x10 ⁻² |
| 1μmHg | 0.13332 | 10 ⁻³ | 1 | 1.3332 | 1.3332x10 ⁻³ | 1.31579x10 ⁻⁶ | 1.3595x10 ⁻⁶ | 3.937x10 ⁻⁵ | 1.934x10 ⁻⁵ |
| 1μbar | 10 ⁻¹ | 7.5x10 ⁻⁴ | 7.5x10 ⁻¹ | 1 | 10 ⁻³ | 9.86923x10 ⁻⁷ | 1.0197x10 ⁻⁶ | 2.953x10 ⁻⁵ | 1.450x10 ⁻⁵ |
| 1mbar | 10 ² | 7.5x10 ⁻¹ | 7.5x10 ² | 10 ³ | 1 | 9.86923x10 ⁻⁴ | 1.0197x10 ⁻³ | 2.953x10 ⁻² | 1.450x10 ⁻² |
| 1atm | 101325 | 760 | 760x10 ³ | 1013.25x10 ³ | 1013.25 | 1 | 1.0333 | 29.921 | 14.696 |
| 1am | 98066.3 | 735.56 | 735.56x10 ³ | 980663 | 980663x10 ⁻³ | 0.967839 | 1 | 28.959 | 14.223 |
| 1inHg | 3386 | 25.4 | 25.4x10 ³ | 3.386x10 ⁴ | 33.86 | 3.342x10 ⁻² | 3.453x10 ⁻² | 1 | 4.912x10 ⁻¹ |
| 1lb/in ² | 6895 | 51.715 | 51.715x10 ³ | 6.895x10 ⁴ | 68.95 | 6.805x10 ⁻² | 7.031x10 ⁻² | 2.086 | 1 |