

VACUUM PUMP HEAD VACUUM PUMP STATION

PRODUCT BROCHURE



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PROFESSIONAL
SERVICE-ORIENTED
RESEARCH-DRIVEN
INNOVATIVE

CRAFT PRODUCTS WITH
SINCERITY, SERVE
CLIENTS WHOLEHEARTEDLY

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ABOUT US



Brand Mission

With the name Youcheng, we supply premium products and services for automation equipment enterprises worldwide.



Core Values

Customer First, People-Oriented; Quality Supreme, Value Priority



Brand Vision

Build a Premium Brand, Forge a First-Class Enterprise

30000

Total Base Area
Over 10,000 Square Meters

155

Our products are sold to more than
155 countries and regions worldwide.

50

Built sound business partnerships
with over 50 countries.

QUALITY FOR SURVIVAL, REPUTATION FOR GROWTH

Founded in 2013, our company adheres to rigorous quality inspection and control standards to deliver high-standard, premium products to customers. Equipped with dedicated R&D, technical support and sales teams, we rapidly address market demands, keep innovating, and serve all clients with outstanding professional capabilities.

INTEGRITY IN SERVICE, CUSTOMERS FOREMOST

Adhering to the service tenet of putting customers first, our company wins the market with integrity. Through professional training, we now have a professional sales team covering pre-sales, in-sales and after-sales services. We stick to the customer-oriented business policy. Via skill training and professional assessments, we continuously strengthen all staff's service awareness to provide customers with high-quality, efficient and thoughtful services!



01

OUR STORY

Jiangsu Youcheng Zhixin Electromechanical Equipment Co., Ltd. (hereinafter referred to as "Youcheng Zhixin") was founded in 2013. Located in Kunshan City, Jiangsu Province, it owns a 30,000-square-meter intelligent manufacturing base. The group encompasses six subsidiaries: Jiangsu Youcheng Zhixin Electromechanical Equipment Co., Ltd., Jiangsu Sufite Machinery Equipment Co., Ltd., Jiangsu Youcheng Ruinan Technology Co., Ltd., Jiangsu Taizhikun Electromechanical Equipment Co., Ltd., Jiangxi Guangfeng Machinery Co., Ltd., and Dongguan Meiwangxing Electromechanical Equipment Co., Ltd.

As an integrated enterprise integrating R&D, design, production and sales, we have long focused on the electromechanical hardware sector. Supported by a stringent quality control system and a professional technical team, we keep advancing the innovation and upgrading of our products and services to rapidly meet market demands. Our core product lineup covers air storage tanks, vacuum pumps, pressure booster valves, motors, fans, pneumatic components, vacuum systems and hardware products. These items are widely applied in more than ten key industries including precision machining, medical devices, electric power, petrochemicals, aerospace, food processing, pharmaceuticals, printing and plastics manufacturing.

Thanks to superior quality and sound reputation, our products are well recognized by the market, selling well nationwide and exported to 155 countries and regions across the globe. The company consistently adheres to the business philosophy of "Customer First, People-Oriented, Quality Supreme, Value Priority". While continuously expanding market reach, we strengthen internal management and brand building. By boosting product innovation, commercializing technological achievements and actively exploring international markets, we strive to grow into a leading professional global enterprise.

Guided by the development vision of "Build a Premium Brand, Forge a First-Class Enterprise", Youcheng Zhixin leverages cutting-edge technology, high-quality products and professional services to cooperate with partners worldwide, jointly driving the advancement of the automation equipment industry.



02

OIL-FREE VACUUM PUMP

Oil-free & Maintenance-free

Large fan, fast heat dissipation

It features a simple structure, easy operation and convenient maintenance, and causes no environmental pollution. Boasting great durability, the oil-free vacuum pump can be used for both vacuum extraction and air compression. It is a fundamental vacuum-generating device with an extremely wide range of applications. Compared with oil-sealed vacuum pumps, oil-free vacuum pumps deliver lower vacuum levels and smaller pumping speeds. Nevertheless, they are compact, easy to install, simple to maintain and portable. They produce no oil mist and pose no pollution risks, making them particularly ideal for laboratories with high cleanliness requirements. They have become standard equipment in labs.



Upgraded high-airflow cooling fan boosts heat dissipation efficiency by 50%



Multiple aluminum heat sinks expand heat dissipation area for fast heat evacuation.



Integrated aluminum housing enables rapid heat dissipation.



100% all-copper motor

Note: Pictures for reference only; actual product shall prevail.



VN-18

Voltage	220V	Pumping speed	15L/min
Power	60W	Negative pressure / Positive pressure	-80Kpa/300Kpa
Weight	0.94Kg	External air pipe	10mm
Installation dimensions	6-M4/52.8mm	Overall dimensions	110*90*115mm

Product Features: Dual-purpose unit integrating vacuum suction and air compression functions; compact and lightweight, completely oil-free operation with zero contamination.
Recommended Applications: Cupping machines, plate-making machines, drug delivery equipment, automated systems & measuring instruments, semiconductor components, etc.



VN-18-2

Voltage	220V	Pumping speed	5L/min
Power	13W	Negative pressure / Positive pressure	-55Kpa/350Kpa
Weight	0.85Kg	External air pipe	10mm
Installation dimensions	/	Overall dimensions	120*115*75mm

Product Features: Dual-purpose unit integrating vacuum suction and air compression functions; compact and lightweight, completely oil-free operation with zero contamination.
Recommended Applications: Cupping machines, plate-making machines, drug delivery equipment, automated systems & measuring instruments, semiconductor components, etc.



VN-20

Voltage	220V	Pumping speed	8.5L/min
Power	60W	Negative pressure / Positive pressure	-80Kpa/400Kpa
Weight	1.45Kg	OD of the connector	10mm
Installation dimensions	65*65*60mm	Overall dimensions	135*120*75mm

Product Features: Dual-purpose unit integrating vacuum suction and air compression functions; compact and lightweight, completely oil-free operation with zero contamination.
Recommended Applications: Cupping machines, plate-making machines, drug delivery equipment, automated systems & measuring instruments, semiconductor components, etc.



VN-26235

Voltage	220V	Pumping speed	5.5L/min
Power	50W	Positive pressure	250Kpa
Weight	0.9Kg	Overall dimensions	114*82*130mm

Product Features: Dual-purpose unit integrating vacuum suction and air compression functions; compact and lightweight, completely oil-free operation with zero contamination.
Recommended Applications: Cupping machines, plate-making machines, drug delivery equipment, automated systems & measuring instruments, semiconductor components, etc.



VN-26333

Voltage	220V	Pumping speed	6L/min
Power	60W	Negative pressure / Positive pressure	-75Kpa/250Kpa
Weight	0.9Kg	External air pipe	10mm
Installation dimensions	/	Overall dimensions	113*92*119mm

Product Features: Eco-friendly oil-free, high pumping speed, high-temperature shaping, no oil leakage or oil spattering
Recommended Applications: Food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, paper industry (moisture & water vapor removal), etc.

**VN-35300**

Voltage	220V	Pumping speed	8L/min
Power	13W	Negative pressure / Positive pressure	-60Kpa/250Kpa
Weight	1.5Kg	Overall dimensions	123*91*115mm

Product Features: Dual-purpose unit integrating vacuum suction and air compression functions; compact and lightweight, completely oil-free operation with zero contamination.
Recommended Applications: Cupping machines, plate-making machines, drug delivery equipment, automated systems & measuring instruments, semiconductor components, etc.

**VN-30-1**

Voltage	220V	Pumping speed	28L/min
Power	90W	Negative pressure	-80Kpa
Weight	2.08Kg	Inner diameter of hose	7mm
Installation dimensions	/	Overall dimensions	145*85*127mm

Product Features: Equipped with vacuum suction function, fully oil-free operation with no pollution.
Recommended Applications: Cupping machines, vacuum suction pens, drug delivery equipment, dermabrasion devices, suction apparatuses, electric control pens, semiconductor components, etc.

**VN-40**

Voltage	220V	Pumping speed	36L/min
Power	130W	Negative pressure	-88Kpa
Weight	3.5Kg	Connector size	G1/4
Installation dimensions	110*70mm	Overall dimensions	176*95*143mm

Product Features: Equipped with vacuum suction function, fully oil-free operation with no pollution.
Recommended Applications: Cupping machines, vacuum suction pens, drug delivery equipment, dermabrasion devices, suction apparatuses, electric control pens, semiconductor components, etc.

**VN-50**

Voltage	220V	Pumping speed	53L/min
Power	230W	Negative pressure	-88Kpa
Weight	4.45Kg	Connector size	G1/4
Installation dimensions	142*95mm	Overall dimensions	201*125*144mm

Product Features: Equipped with vacuum suction function, fully oil-free operation with no pollution.
Recommended Applications: Cupping machines, vacuum suction pens, drug delivery equipment, dermabrasion devices, suction apparatuses, electric control pens, semiconductor components, etc.

**VN-60**

Voltage	220V	Pumping speed	60L/min
Power	260W	Negative pressure	-91Kpa
Weight	6.5Kg	Connector size	G1/4
Installation dimensions	146*83mm	Overall dimensions	240*150*170mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise operation. The motor features overload protection and robust design, requiring minimal maintenance.
Recommended Applications: Semiconductor automation equipment, laminating & packaging machines, optoelectronic material manufacturing, freeze drying, etc.

**VN-120V**

Voltage	220V	Pumping speed	100L/min
Power	370W	Negative pressure	-91Kpa
Weight	9Kg	Connector size	G1/4
Installation dimensions	202*90mm	Overall dimensions	250*125*205mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise operation. The motor features overload protection and robust design, requiring minimal maintenance.
Recommended Applications: Semiconductor automation equipment, laminating & packaging machines, optoelectronic material manufacturing, freeze drying, etc.

**VN-120H**

Voltage	220V	Pumping speed	80L/min
Power	370W	Negative pressure	-99Kpa
Weight	9Kg	Connector size	G1/4
Installation dimensions	202*90mm	Overall dimensions	250*130*205mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise operation. The motor features overload protection and robust design, requiring minimal maintenance.
Recommended Applications: Semiconductor automation equipment, laminating & packaging machines, optoelectronic material manufacturing, freeze drying, etc.

**VN-180V**

Voltage	220V	Pumping speed	160L/min
Power	600W	Negative pressure	-91Kpa
Weight	10.5Kg	Connector size	G1/4
Installation dimensions	223*90mm	Overall dimensions	270*127*220mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation
Recommended Applications: Semiconductor automation equipment, laminating & packaging machines, optoelectronic material manufacturing, coating machines, automatic semiconductor LED inspection & sorting machines, robotic arms, rotary evaporators, solvent degassing, vacuum concentration, freeze drying, etc.

**VN-180H**

Voltage	220V	Pumping speed	160L/min
Power	600W	Negative pressure	-91Kpa
Weight	10.5Kg	Connector size	G1/4
Installation dimensions	223*90mm	Overall dimensions	270*127*220mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation
Recommended Applications: Semiconductor automation equipment, laminating & packaging machines, optoelectronic material manufacturing, coating machines, automatic semiconductor LED inspection & sorting machines, robotic arms, rotary evaporators, solvent degassing, vacuum concentration, freeze drying, etc.

**VN-200V**

Voltage	220V	Pumping speed	200L/min
Power	1000W	Negative pressure	-91Kpa
Weight	17Kg	Connector size	G1/2
Installation dimensions	242*126mm	Overall dimensions	310*160*280mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise running. The motor adopts robust design with overload protection and requires little maintenance.
Recommended Applications: Applications: CNC machines, LED inspection equipment, dispensing machines, semiconductor vacuum ovens, automated robotic arms, etc.

**VN-200H**

Voltage	220V	Pumping speed	150L/min
Power	1000W	Negative pressure	-99Kpa
Weight	17Kg	Connector size	G1/2
Installation dimensions	242*126mm	Overall dimensions	310*160*280mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise running. The motor adopts robust design with overload protection and requires little maintenance.

Recommended Applications: Applications: CNC machines, LED inspection equipment, dispensing machines, semiconductor vacuum ovens, automated robotic arms, etc.

**VN-300V**

Voltage	220V	Pumping speed	300L/min
Power	1500W	Negative pressure	-91Kpa
Weight	18Kg	Connector size	G1/2
Installation dimensions	243*127mm	Overall dimensions	315*155*300mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise running. The motor adopts robust design with overload protection and requires little maintenance.

Recommended Applications: Applications: CNC machines, LED inspection equipment, dispensing machines, semiconductor vacuum ovens, automated robotic arms, etc.

**VN-300H**

Voltage	220V	Pumping speed	200L/min
Power	1500W	Negative pressure	-99Kpa
Weight	18Kg	Connector size	G1/2
Installation dimensions	243*127mm	Overall dimensions	315*155*305mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise running. The motor adopts robust design with overload protection and requires little maintenance.

Recommended Applications: Applications: CNC machines, LED inspection equipment, dispensing machines, semiconductor vacuum ovens, automated robotic arms, etc.

**VN-500V-1**

Voltage	220V	Pumping speed	480L/min
Power	800W	Negative pressure	8.3*10 ³ Kpa
Weight	18.75Kg	Connector size	G1/2
Noise level	≤68DB	Overall dimensions	325*293*211mm

Product Features: Low power consumption, high flow rate, vacuum function, fully oil-free and pollution-free operation

Recommended Applications: Applicable to CNC machines, LED testers, dispensing machines, semiconductor vacuum ovens, automated robotic arms and other equipment

**UV-60V**

Voltage	220V	Pumping speed	60L/min
Power	270W	Negative pressure / Positive pressure	-88Kpa/250Kpa
Weight	5.05Kg	Mounting hole diameter	M8
Installation dimensions	127*83mm	Overall dimensions	240*150*170mm

Product Features: High flow rate with vacuum function, fully oil-free and pollution-free operation, low noise running. The motor adopts robust design with overload protection and requires little maintenance.

Recommended Applications: Fully automatic film laminators, semiconductor LED testing & packaging machines, dental treatment units, etc.

VN-180V

Voltage	220V	Pumping speed	160L/min
Power	600W	Negative pressure	-91Kpa
Weight	10.5Kg	Connector size	G1/4
Installation dimensions	242*126mm	Overall dimensions	270*130*205mm

Product Features: High flow rate with vacuum function, fully oil-free and contamination-free operation

Recommended Applications: Semiconductor automation equipment, laminating and packaging machines, optoelectronic material production, coating machines, automatic semiconductor LED inspection and sorting machines, robotic arms, rotary evaporators, solvent degassing, vacuum concentration, freeze drying, etc.

**UV-180H**

Voltage	220V	Pumping speed	120L/min
Power	600W	Negative pressure	-99Kpa
Weight	10.5Kg	Connector size	G1/4
Installation dimensions	224*88mm	Overall dimensions	270*130*205mm

Product Features: High flow rate with vacuum function, fully oil-free and contamination-free operation

Recommended Applications: Semiconductor automation equipment, laminating and packaging machines, optoelectronic material production, coating machines, automatic semiconductor LED inspection and sorting machines, robotic arms, rotary evaporators, solvent degassing, vacuum concentration, freeze drying, etc.

**OIL-FREE DIAPHRAGM VACUUM PUMP**

Vacuum pumps of Youcheng Zhixin brand adopt world-leading design concepts and manufacturing technologies. They boast sleek streamlined appearance, robust construction, wide versatility and user-friendly operation, making them exceptional premium precision instruments for laboratory research. When paired with filter flask kits, this oil-free vacuum pump is suitable for mobile phase filtration and degassing in liquid chromatography analysis. It greatly boosts filtration efficiency and optimizes degassing performance.



PRODUCT DISPLAY IMAGES



YP-10L

Voltage	220V	Pumping speed	10L/min
Power	8W	Negative pressure	-80Kpa
Weight	2.85Kg	Connector size	G1/4 Internal Thread
Noise level	≤58DB	Overall dimensions	240*120*150mm

Product Features: Powerful performance, low-noise operation, compact and portable, supports 24-hour continuous non-stop running, oil-free and contamination-free
Recommended Applications: Suitable for online gas sampling and rapid solution filtration. It can evacuate air from sealed containers, as well as perform gas circulation, pumping and suction operations.

YP-15L

Voltage	220V	Pumping speed	15L/min
Power	10W	Negative pressure	-80Kpa
Weight	2.85Kg	Connector size	G1/4 Internal Thread
Noise level	≤58DB	Overall dimensions	240*120*150mm

Product Features: Powerful performance, low-noise operation, compact and portable, supports 24-hour continuous non-stop running, oil-free and contamination-free
Recommended Applications: Suitable for online gas sampling and rapid solution filtration. It can evacuate air from sealed containers, as well as perform gas circulation, pumping and suction operations.

MINI DC VACUUM PUMP

Dual function of pumping and suction | High negative pressure & strong suction

This series of DC pumps are oil-free power conveying equipment. Featuring small size and light weight, they are also known as mini DC vacuum pumps. Widely applied in scientific research, gas sampling, instruments and meters, chemical analysis, medical care, pharmaceutical hygiene, bioengineering, packaging equipment, papermaking and many other industries. Key features: Oil-free lubrication, safe and eco-friendly, easy maintenance; compact design, small footprint, high performance, low noise and excellent air tightness. Simply put, driven by a DC motor, the pump extracts air from containers. The extracted gas can be delivered to another vessel or exhausted directly into the atmosphere.



**VN-C1**

Rated Voltage	24V	Product Flow Rate	15L/min
Power	10W	Negative pressure	-80Kpa
Weight	300g	Noise	≤65Db
Installation Dimensions	49*28mm	Overall dimensions	93*71*40mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

VN-C1 Brushless

Rated Voltage	12/24V	Product Flow Rate	15L/min
Power	10W	Negative pressure	-80Kpa
Weight	300g	Noise	≤65Db
Installation Dimensions	49*28mm	Overall dimensions	90*71*40mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**VN-C2**

Rated Voltage	12/24V	Product Flow Rate	12L/min
Power	8W	Negative pressure	-72Kpa
Weight	300g	Noise	≤65Db
Installation Dimensions	49*28mm	Overall dimensions	93*71*40mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**VN-C3 with mounting plate**

Rated Voltage	12/24V	Product Flow Rate	12L/min
Power	12W	Negative pressure	-80Kpa
Weight	300g	Noise	≤65Db
Installation Dimensions	43*52mm	Overall dimensions	103*72*40mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**VN-C4**

Rated Voltage	12/24V	Product Flow Rate	40L/min
Power	42W	Negative pressure	-85Kpa
Weight	450g	Noise	≤75Db
Installation Dimensions	20mm	Overall dimensions	110*89*44mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**UV-U2 Single Head**

Rated Voltage	12V/24V/220V	Product Flow Rate	10L/min
Power	13W	Negative Pressure / Positive Pressure	-65Kpa/150Kpa
Weight	550g	Noise	≤65Db
Installation Dimensions	/	Overall dimensions	99*85*58mm
Outer Diameter of Port	/	Air pipe for port	Equipped with 8mm air tube required

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**UV-U2**

Rated Voltage	12V	Product Flow Rate	10-15L/min
Power	24W	Negative Pressure / Positive Pressure	-85Kpa/350Kpa
Weight	900g	Noise	≤55Db
Installation Dimensions	112*34mm	Overall dimensions	138*86*58mm

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc. (Requires 8mm outer diameter air tube)

**UV-U2-220V**

Rated Voltage	220V	Product Flow Rate	10-15L/min
Power	24W	Negative Pressure / Positive Pressure	-85Kpa/350Kpa
Weight	900g	Noise	≤55Db
Installation Dimensions	112*34mm	Overall dimensions	138*86*58mm

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc. (Requires 8mm outer diameter air tube)

**UV-U3**

Rated Voltage	12V/24V	Product Flow Rate	10-20L/min
Power	24W	Negative Pressure / Positive Pressure	-90Kpa/350Kpa
Weight	850g	Noise	≤55Db
Installation Dimensions	138*34mm	Overall dimensions	151*84*51mm

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc. (Requires 10mm outer diameter air tube)

**UV-U3-220V**

Rated Voltage	220V	Product Flow Rate	10-20L/min
Power	24W	Negative Pressure / Positive Pressure	-90Kpa/350Kpa
Weight	900g	Noise	≤55Db
Installation Dimensions	138*34mm	Overall dimensions	151*84*51mm

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc. (Requires 10mm outer diameter air tube)



**VN-C4 Brushless**

Rated Voltage	12V/24V	Product Flow Rate	40L/min
Power	42W	Negative pressure	-85Kpa
Weight	650g	Noise	≤75Db
Installation Dimensions	22mm	Overall dimensions	110*89*44mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 10mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**VN-C6**

Rated Voltage	12V/24V	Product Flow Rate	7L/min
Power	5W	Negative pressure	-70Kpa
Weight	300g	Noise	≤65Db
Installation Dimensions	47*28mm	Overall dimensions	93*71*40mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**VN-T1 White Version**

Rated Voltage	12V	Product Flow Rate	12L/min
Power	10W	Negative pressure	-83Kpa
Weight	500g	Noise	≤65Db
Installation Dimensions	43*52mm	Overall dimensions	103*66*40mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**VN-T1**

Rated Voltage	12V/24V	Product Flow Rate	10L/min
Power	10W	Negative pressure	-81Kpa
Weight	500g	Noise	≤65Db
Installation Dimensions	43*52mm	Overall dimensions	103*66*40mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 8mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**UV-U1 (Black)**

Rated Voltage	220V	Product Flow Rate	10L/min
Power	12W	Negative Pressure / Positive Pressure	-65Kpa/150Kpa
Weight	550g	Noise	≤55Db
Installation Dimensions	34*24mm	Overall dimensions	114*84*51mm
Outer Diameter of Port	/	Air pipe for port	Requires 10mm air tube

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

UV-U1

Rated Voltage	12V/24V	Product Flow Rate	10L/min
Power	12W	Negative Pressure / Positive Pressure	-65Kpa/150Kpa
Weight	550g	Noise	≤55Db
Installation Dimensions	34*24mm	Overall dimensions	106*84*51mm
Outer Diameter of Port	/	Air pipe for port	Requires 10mm air tube

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.

**VN-C4 Upgraded**

Rated Voltage	24V	Product Flow Rate	45L/min
Power	42W	Negative pressure	-90Kpa
Weight	457g	Noise	≤70Db
Installation Dimensions	22mm	Overall dimensions	112*90*43mm

Product Features: Eco-friendly oil-free design, fast pumping speed, high-temperature shaping, zero oil leakage; oil injection version (requires air tube with 10mm outer diameter)

Recommended Applications: Food vacuum equipment, packaging machinery, printing presses, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (water and vapor removal), etc.



Operating Instructions for Single Head Pump:

1. The red dot marks the positive pole, and the opposite terminal is the negative pole.
2. Select the voltage matching your purchased model and equip a corresponding switching power supply.
3. Connect the air inlet and outlet ports with the matching air tube.
4. Ensure constant voltage and constant current input power during operation.
5. This micro vacuum pump is only for gas medium; solids and liquids must not enter the pump chamber.



DUAL-HEAD PUMP (THREE INSTALLATION METHODS)



① Parallel installation, high flow rate



② Series installation, high vacuum (negative pressure)



③ Single-head installation (two pump heads used separately)



Red wire: Positive pole

Black wire: Negative pole

SINGLE-STAGE ROTARY VANE PUMP

The VN series rotary vane vacuum pump adopts a single-stage rotary vane coupling structure. It features high rotating speed, low noise, fast pumping speed and high efficiency. This pump only requires air cooling and is equipped with an anti-oil backflow structure to prevent pump oil from flowing back into the evacuated system. An exhaust filter is installed inside the pump to effectively eliminate oil mist. It runs smoothly with low vibration and can operate under any pressure condition. It can reach a vacuum degree of -100kPa , and is widely applied in food vacuum packaging, pharmaceutical industry, paper conveying for printing machinery, glass industry transportation, vacuum jigs, drying and other fields.



Note: Pictures are for reference only; actual product shall prevail!

**VN-0020**

Rotational Speed	2800Rpm	Pumping Speed	20m ³ /h
Voltage	220V/380V	Oil Filling Volume	0.5L
Ultimate Pressure	-100Kpa	Power	900W/750W
Pipe Connection Port	G1/2	Overall dimensions	45*25*29mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0025**

Rotational Speed	2800Rpm	Pumping Speed	25m ³ /h
Voltage	220V/380V	Oil Filling Volume	0.5L
Ultimate Pressure	-100Kpa	Power	750W
Pipe Connection Port	G3/4	Overall dimensions	31*25*22mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0040**

Rotational Speed	1400Rpm	Pumping Speed	40m ³ /h
Voltage	380V	Oil Filling Volume	1.5L
Ultimate Pressure	-100Kpa	Power	1500W
Pipe Connection Port	G1-1/4	Overall dimensions	64*28*26.5mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0063 Small**

Rotational Speed	1400Rpm	Pumping Speed	63m ³ /h
Voltage	380V	Oil Filling Volume	1.5L
Ultimate Pressure	-100Kpa	Power	1500W
Pipe Connection Port	G1-1/4	Overall dimensions	64*27*40mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0063 Large**

Rotational Speed	1400Rpm	Pumping Speed	70m ³ /h
Voltage	380V	Oil Filling Volume	2.5L
Ultimate Pressure	-100Kpa	Power	2200W
Pipe Connection Port	G1-1/4	Overall dimensions	64*27*40mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0010**

Rotational Speed	1400Rpm	Pumping Speed	100m ³ /h
Voltage	380V	Oil Filling Volume	2.5L
Ultimate Pressure	-100Kpa	Power	3000W
Pipe Connection Port	G1-1/4	Overall dimensions	71*41*40mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0140**

Rotational Speed	1400Rpm	Pumping Speed	140m ³ /h
Voltage	380V	Oil Filling Volume	5L
Ultimate Pressure	-100Kpa	Power	3500W
Pipe Connection Port	G1-1/2	Overall dimensions	75*45*30mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0202**

Rotational Speed	1400Rpm	Pumping Speed	202m ³ /h
Voltage	380V	Oil Filling Volume	6L
Ultimate Pressure	-100Kpa	Power	4500W
Pipe Connection Port	G2	Overall dimensions	88*50*48.5mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

**VN-0302**

Rotational Speed	1440Rpm	Pumping Speed	302m ³ /h
Voltage	380V	Oil Filling Volume	8L
Ultimate Pressure	-100Kpa	Power	7500W
Pipe Connection Port	G2	Overall dimensions	101*56*48.5mm

Product Features: Eco-friendly smokeless, high pumping speed, high-temperature shaping, no oil leakage & no oil spattering

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, paper industry (water vapor removal), etc.

VSV SINGLE-STAGE ROTARY VANE PUMP

Vacuum technology plays a vital role in the industrial sector. We have long been dedicated to exploring product applications across various industries and identifying customers' primary concerns. We have developed pumps capable of evacuating a certain volume of condensable gas, eliminating oil spattering and leakage, and preventing vacuum pump oil emulsification, so as to guarantee stable and reliable production processes.



Note: Pictures are for reference only; actual product shall prevail!

Product Features

Multi-stage gas ballast design

Multi-stage gas ballast settings to easily meet the steam exhaust requirements of different processes

Anti-oil backflow structure

It can reliably protect your vacuum system from oil contamination after shutdown.

Forced lubrication

Built-in gear pump and constant-pressure oil supply mechanism realize forced oil feeding for stable and reliable operation.

Integrated pump body

Fewer components with good interchangeability, easy for maintenance and servicing.

APPLICATION RANGE

Refrigeration industry

Automatic evacuation lines for air conditioners, refrigerators, water dispensers and compressors (complete accessories available for optional purchase); refrigerant filling machines; helium leak detection systems, helium recovery systems, etc.



Medical industry

Plasma sterilizers, vacuum freeze drying, vacuum mixing, etc. Considering that exhaust gas from plasma sterilizers contains a large amount of hydrogen peroxide vapor and water vapor, we have specially developed vacuum pumps resistant to weakly corrosive gases.



Various analytical instruments

Spectrometers, chromatographs, physical and chemical analytical instruments, electron microscopes, leak detectors, etc. (An oil mist filter is recommended if low noise and clean working environment are required.)



Electric power industry

SF6 recovery devices, SF6 testing instruments, transformer oil purifiers. Oil purifiers maintain the health of oil-immersed equipment and extend service life.



Electronics & Semiconductor Industry

Vacuum ovens, glove boxes, crystal furnaces, heat treatment equipment, ion plating; backing pumps for Roots, diffusion, molecular and cryopumps.





TECHNICAL PARAMETERS

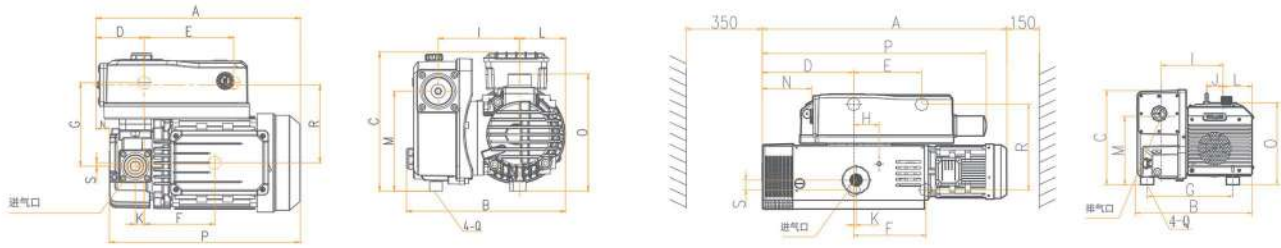
Item		Model					
			VSV-20	VSV-22	VSV-28	VSV-40	VSV-65
Pumping Speed	50Hz	m³/h	20	22	28	40	65
	60Hz		24	26	33	48	78
Ult. Total Pressure	Gas Ballast Off	mbar	/	≤0.3	≤0.3	≤0.3	≤0.3
Ult. Total Pressure	Gas Ballast I	mbar	≤1	≤0.8	≤0.8	≤0.8	≤0.5
	Gas Ballast II	mbar	/	≤2.5	≤2.5	≤2	≤2
Allowable Water Vapor Pressure	Gas Ballast I	mbar	15	15	15	15	15
	Gas BallastII	mbar	/	30	30	30	30
Power Supply			Single / Three Phase	Single / Three Phase	Single / Three Phase	Three Phase	Three Phase
Power		Kw	0.75	1.1	1.1	1.3	1.5
Protection Class			IP54	IP54	IP54	IP54	IP54
Inlet & Outlet Ports			G1/2"G3/4"/-	G3/4"	G3/4"	G1 G1/4"	G1 G1/4"
Oil Capacity		L	0.45	1.2	1.2	2.5	2.5
Motor Speed (50/60Hz)		rpm	2880/3440	1440/1720	1440/1720	1440/1720	1440/1720
Operating Ambient Temperature		°C	10-40	10-40	10-40	10-40	10-40
Noise Level (50Hz)		dB	≤65	≤61	≤61	≤63	≤65
Weight		Kg	19.5	30	30	39.2	42.5
Dimensions (L*W*H)		mm	317x249x219	496x268x248	496x268x248	555x304x268	555x311x268

Item		Model					
			VSV-100	VSV-160	VSV-200	VSV-300	
Pumping Speed	50Hz	m³/h	100	160	200	300	
	60Hz		120	190	240	360	
Ult. Total Pressure	Gas Ballast Off	mbar	≤0.3	≤8x10 ⁻²	≤8x10 ⁻²	≤8x10 ⁻²	
Ult. Total Pressure	Gas Ballast I	mbar	≤0.8	≤0.5	≤0.5	≤0.5	
	Gas Ballast II	mbar	≤3	≤1.5	≤1.5	≤1.5	
Allowable Water Vapor Pressure	Gas Ballast I	mbar	15	30	30	30	
	Gas BallastII	mbar	30	50	50	50	
Power Supply			Three Phase	Three Phase	Three Phase	Three Phase	
Power		Kw	2.2/3.0	4.0/5.5	5.5	7.5	
Protection Class			IP54	IP54	IP54	IP54	
Inlet & Outlet Ports			G1 G1/4"	G2"	G2"	G2"	
Oil Capacity		L	2.5	5-7	5-7	7-9	
Motor Speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720	
Operating Ambient Temperature		°C	10-40	10-40	10-40	10-40	
Noise Level (50Hz)		dB	≤65	≤74	≤74	≤77	
Weight		Kg	72	132	164	215	
Dimensions (L*W*H)		mm	703x406x286	915x533x412	932x533x412	1035x540x434	

★Note: Technical specifications are subject to change without prior notice.



MOUNTING DIMENSIONS



(VSV-20 Mounting Dimensions)

(VSV-22/28/40/65/100/160 /200/300 Mounting Dimensions)

VSV Vacuum Pump Dimensions(Unit: mm)																			
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
VSV-20	318	249	219	75.5	140	110.5	131	/	127.5	/	14	72	157	21	184	299	M8	122.3	5.3
VSV-22/28	496	268	248	112	220	300	190	108	146	25	20	80	182	27	204	392	M6	194	35
VSV-40	555	304	268	149	215	200	235	58	179	51	5	72	203	33	252	464	M8	235	33
VSV-65	555	311	268	149	215	200	254	58	189	51	5	72	203	33	252	464	M8	242	33
VSV-100	703	406	286	165	225	225	320	131	226	42	27	91	220	61	280	578	M10	258	41
VSV-160/200	915	533	412	263	252	305	394	113	298	66	32	135	305	134	382	918	M10	394	45
VSV-160/200	932	533	412	263	252	305	394	113	298	66	32	135	305	134	382	918	M10	394	45
VSV-300	1035	540	434	326	313	332	394	159	284	75	11	135	314	132	377	966	M10	394	45

VRD TWO-STAGE ROTARY VANE VACUUM PUMP

Continuous pursuit of technical standards elevates VRD vacuum pumps to premium quality. Integrated cylinder and innovative circulating oil supply deliver outstanding stability. Equipped with automatic anti-oil return valve and two-speed adjustable gas ballast for high reliability. Combining technology and aesthetic design, VRD series stands as a classic product with consistent excellence.



PRODUCT FEATURES

Multi-stage gas ballast design

Meet steam exhaust requirements of various processes.



Anti-oil backflow structure

Automatic anti-oil return valve reliably protects your vacuum system.



Equipment plug

Three-pin plug for stable voltage

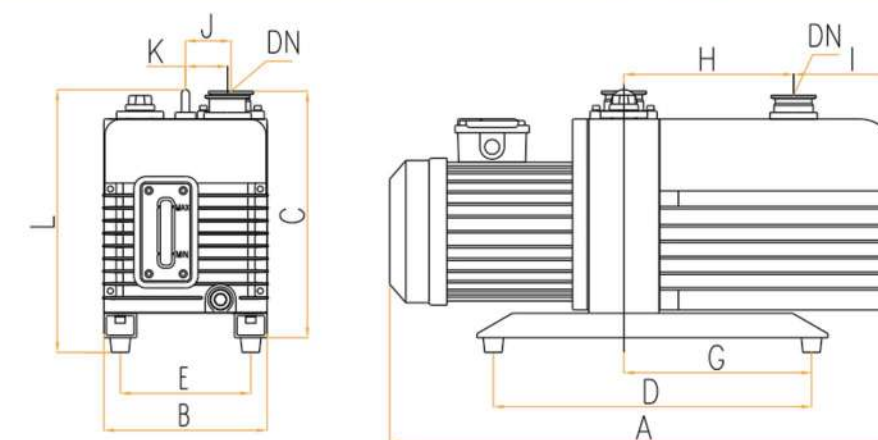


Rubber base

Rubber material prevents damage to laboratory floors.



INSTALLATION DIMENSIONS



VRD Vacuum Pump Dimensions (Unit: mm)

Model	A	B	C	D	E	G	H	I	J	K	L	DN
VRD-4	440	144	217	210	110	95	143.5	45	45	34	/	KF16/25
VRD-8	440	144	217	210	110	95	143.5	45	45	34	/	KF16/25
VRD-16	530	188	272	320	148	160	165	69	59	38	295	KF25
VRD-24	567	188	272	320	148	160	185	82	59	47	295	KF25/40
VRD-30	567	188	272	320	148	160	185	82	59	47	295	KF25/40
VRD-48	730	234	358	396	190	220	223	157	69	55	390	KF40
VRD-65	730	234	358	396	190	220	223	157	69	55	390	KF25
VRD-90	730	234	358	396	190	220	223	157	69	55	390	KF25

TECHNICAL PARAMETERS



Item			Model				
			VRD-4	VRD-8	VRD-16	VRD-24	VRD-30
Pumping Speed	50Hz	m³/h	4(1.1)	8(2.2)	16(4.4)	24(6.6)	30(8.3)
	60Hz		4.8(1.3)	9.6(2.6)	19.2(5.2)	28.8(7.9)	36(9.9)
Ult. Total Pressure (Gas Ballast Closed)		Pa	5x10 ⁻²	5x10 ⁻²	4x10 ⁻²	4x10 ⁻²	4x10 ⁻²
Ultimate Total Pressure (Gas Ballast Off)		Pa	5x10 ⁻¹	5x10 ⁻¹	4x10 ⁻¹	4x10 ⁻¹	4x10 ⁻¹
Ultimate Total Pressure (Gas Ballast On)		Pa	10	10	8x10 ⁻¹	8x10 ⁻¹	8x10 ⁻¹
Power Supply			Single / Three Phase	Single / Three Phase	Single / Three Phase	Single / Three Phase	Single / Three Phase
Power		Kw	0.4/0.37	0.4/0.37	0.55	0.75	1.1
Protection Class			IP44	IP44	IP44	IP44	IP44
Inlet & Outlet Ports			KF16/25	KF16/25	KF25	KF25/40	KF25/40
Oil Capacity		L	0.6~1.0	0.6~1.0	0.9~1.5	1.3~2.0	1.3~2.0
Motor Speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720	1440/1720
Operating Ambient Temperature		°C	10~40	10~40	10~40	10~40	10~40
Noise Level (50Hz)		dB	≤52	≤52	≤58	≤58	≤58
Weight		Kg	19	21	30	35	43
Dimensions (L*W*H)		mm	440x144x217	440x144x217	530x188x272	567x188x272	567x188x272

Item			Model		
			VRD-48	VRD-65	VRD-90
Pumping Speed	50Hz	m³/h	48(13.3)	65(18)	85(23.6)
	60Hz		57.6(16)	78(21.6)	102(28.3)
Ult. Total Pressure (Gas Ballast Closed)		Pa	4x10 ⁻²	4x10 ⁻²	4x10 ⁻²
Ultimate Total Pressure (Gas Ballast Off)		Pa	4x10 ⁻¹	4x10 ⁻¹	4x10 ⁻¹
Ultimate Total Pressure (Gas Ballast On)		Pa	1.5	1.5	1.5
Power Supply			Three-phase	Three-phase	Three-phase
Power		Kw	1.5	2.2	3
Protection Class			IP44	IP44	IP44
Inlet & Outlet Ports			KF40	KF40	KF40
Oil Capacity		L	3.3~4.5	3.3~4.5	3.3~4.5
Motor Speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720
Operating Ambient Temperature		°C	10~40	10~40	10~40
Noise Level (50Hz)		dB	≤62	≤62	≤65
Weight		Kg	62	65	65
Dimensions (L*W*H)		mm	730x234x272	730x234x358	730x234x358

★ Note: Technical specifications are subject to change without prior notice under normal circumstances.

TECHNICAL PARAMETERS 【Corrosion Resistant Series】



Item		Unit	Model				
			VRD-8C	VRD-16C	VRD-30C	VRD-48C	VRD-65C
Pumping Speed	50HZ	m³/h (L/S)	8(2.2)	16(4.4)	30(8.3)	48(13.3)	65(18)
	60HZ		9.6(2.6)	19.2(5.2)	36(9.9)	57.6(16)	78(21.6)
Ult. Partial Pressure (Gas Ballast Off)		Pa	5x10 ⁻²	4x10 ⁻²	4x10 ⁻²	4x10 ⁻²	4x10 ⁻²
Ult. Total Pressure (Gas Ballast Off)		Pa	5x10 ⁻¹	4x10 ⁻¹	4x10 ⁻¹	4x10 ⁻¹	4x10 ⁻¹
Ult. Total Pressure (Gas Ballast On)		Pa	10	8x10 ⁻¹	8x10 ⁻¹	1.5	1.5
Power Supply			Single / Three Phase	Three-phase	Three-phase	Three-phase	Three-phase
Power		Kw	0.4/0.37	0.75/0.55	1.1	1.5	2.2
Protection Class			IP44	IP44	IP44	IP44	IP44
Inlet & Outlet Ports			KF16/25	KF25	KF25/40	KF40	KF40
Oil Capacity		L	0.6~1.0	0.9~1.5	1.3~2.0	3.3~4.5	3.3~4.5
Motor Speed (50/60Hz)		rpm	1440/1720	1440/1720	1440/1720	1440/1720	1440/1720
Operating Ambient Temp		°C	10~40	10~40	10~40	10~40	10~40
Noise Level (50Hz)		dB	≤52	<58	<58	<62	≤62
Weight		kg	21	30	43	62	65
Dimensions (L×W×H)		mm	440x144x217	530x188x272	567x188x272	730x234x358	730x234x358

★ Note: Technical specifications are subject to change without prior notice under normal circumstances.

YRP ROOTS VACUUM PUMP

Roots pump is a vacuum pump without internal compression, featuring a generally low compression ratio. For this reason, high and medium vacuum pumps require a fore pump. Its structural characteristics deliver a high pumping speed across a wide pressure range. No oil sealing or lubrication is needed inside the pump chamber, which minimizes contamination of the vacuum system by oil vapor. There is no internal compression or exhaust valve within the chamber. Boasting a simple and compact structure, the pump is insensitive to dust and water vapor in the pumped gas. Its rotors feature excellent geometric symmetry, resulting in low vibration and stable operation. Roots vacuum pumps have undergone long-term operational verification in equipment across petroleum, chemical, plastic, pesticide, metallurgy, textile industries, as well as steam turbine rotor dynamic balancing, aerospace space simulation and other applications.

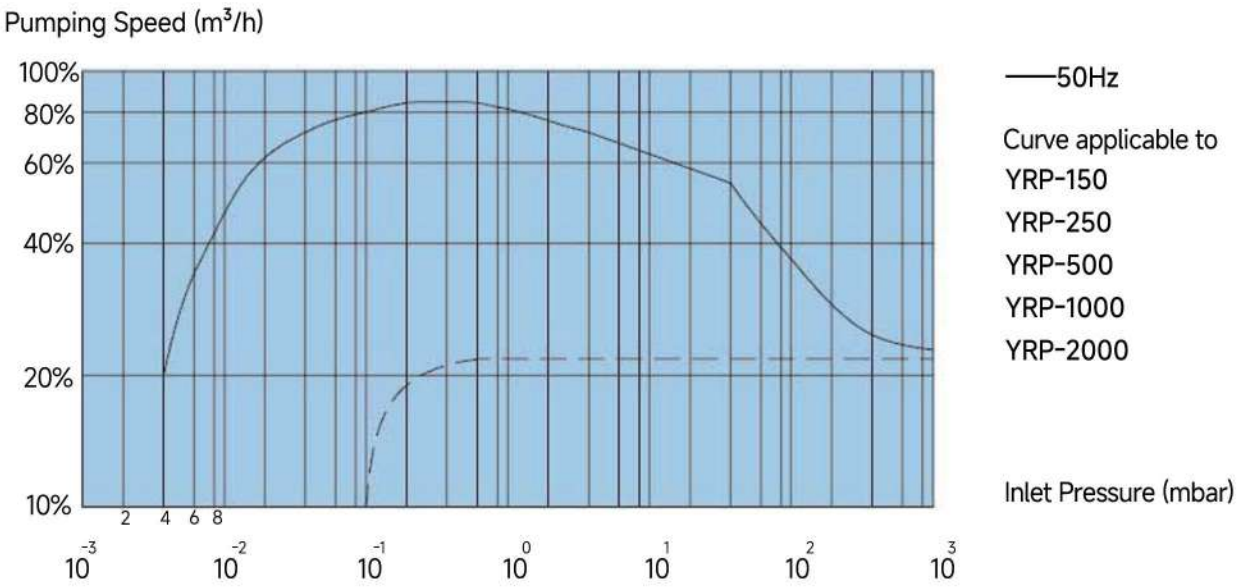


TECHNICAL PARAMETERS

Item	Unit	Model			
		YRP-250	YRP-500	YRP-1000	YRP-2000
Pumping Speed	m ³ /h	253	505	1000	2050
Ultimate Total Pressure	pa	0.5			
Max. Allowable Pressure Difference	pa	8000			5000
Inlet & Outlet Diameter	mm	70	70	100	150
Max. Compression Ratio at Zero Flow	max	≥35	≥40	≥40	≥50
Noise Level	Db(A)	63	63	68	75
Oil Capacity	L	1.5	3	5	7
Motor Power	Kw	1.1	2.2	4	7.5
Motor Synchronous Speed	r/min	3000			
Cooling Method		Natural Air Cooling			
Weight	kg	100	155	233	465
Overall Dimensions	cm	74x32.5x28.5	84.5x39.5x35	108x48.5x42	128x64.2x53
Recommended Forepump Models	Single-stage Pump	YX-100	YX-160	YX-302	YX-630
	Two-stage Pump	2X-15	2X-30	2X-70	Two units 2X-70

★Note: The ultimate pressure and pumping speed shown in the table are measured under factory test conditions; these parameters will vary when different fore vacuum pumps are adopted.

PERFORMANCE CURVE



The dashed line represents the pumping speed of the fore vacuum pump.

2BV WATER RING VACUUM PUMP

Intelligent Start-Stop Smooth Operation

The 2BV water ring vacuum pump consists of components including pump cover, pump body, disc, impeller, mechanical seal and motor. The suction and exhaust pipes connect to the pump chamber via suction and exhaust ports arranged on the disc mounted on the pump cover. The shaft is eccentrically installed inside the pump body, and the impeller is fixed onto the shaft by flat keys. The clearances on both end faces are adjusted through gaskets between the pump body and the disc, while the clearance between the impeller and the disc on the pump cover is also regulated by the gaskets between the disc and pump body. The clearances between both end faces of the impeller and the disc on the pump cover determine the gas flow loss from the inlet to the outlet inside the pump chamber as well as the ultimate pressure of the pump.



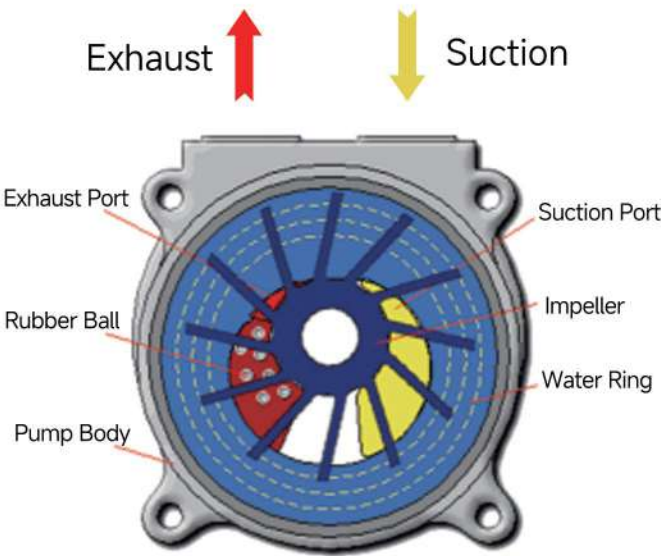
TECHNICAL PARAMETERS

Product Model	Max Air Pressure M³/h	Power Kw	W.F. Flow M³/h	Noise dB(A)	Weight Kg	Dimensions mm	Nozzle Size
2BV-2060	27	0.81	0.12	62	32	455*186*250	1-inch female thread inlet and outlet
2BV-2061	52	1.45	0.12	65	33	475*186*250	Inlet & Outlet: 1" Female Thread
2BV-2070	80	2.35	0.15	66	50	565*223*270	Inlet & Outlet: 1.5" Female Thread
2BV-2071	110	3.85	0.25	72	62	590*223*300	Inlet and outlet: 1-1/2" female thread
2BV-5110	165	4	0.4	63	94	637*325*358	Inlet & Outlet: DN50 Flange
2BV-5111	230	5.5	0.5	68	110	672*325*371	Inlet and Outlet: DN50 Flange Connection
2BV-5121	280	7.5	0.6	69	136	771*347*385	Inlet & Outlet: DN65 Flange
2BV-5131	400	11	0.9	73	184	852*377*420	Inlet & Outlet: DN65 Flange Connection
2BV-5161	500	15	1.2	74	296	1044*479*521	Inlet & Outlet: DN80 Flange Connection

★ Note: Technical specifications are subject to change without prior notice.

Working Principle

As shown in the figure, the impeller is installed eccentrically inside the pump body. A certain level of water is injected into the pump before startup. When the impeller rotates, the water is subjected to centrifugal force and forms a rotating water ring against the inner wall of the pump body. The inner surface at the bottom of the water ring is tangent to the wheel hub and rotates in the direction of the arrow. During the first half rotation, the inner surface of the water ring gradually separates from the wheel hub, creating enclosed spaces between the impeller blades and the water ring.



(Working Principle Diagram)

ROTARY VANE VACUUM PUMP UNIT

- Real-time Monitoring
- Automatic Pressure Maintenance
- Intelligent Start-Stop
- Vacuum Liquid Drainage

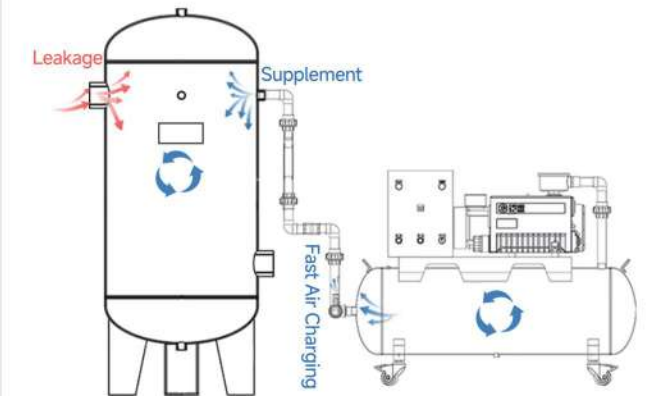


Single-stage rotary vane oil-sealed vacuum pump is one of the core equipment for low and medium vacuum applications. It can be used independently, or serve as a backing pump for vacuum pumps, mechanical booster vacuum pumps and turbo-molecular vacuum pumps. Adopting advanced imported technology, its wearing parts are made of imported components or raw materials. The single-stage rotary vane vacuum pump is applicable to low and medium vacuum scenarios, mainly for evacuating air and other dry gases. It cannot pump corrosive, toxic, flammable or explosive gases, nor gases containing fine particles or dust, and shall not convey any solid debris. This pump can operate continuously indoors under well-ventilated conditions with ambient temperature ranging from 5°C to 30°C and relative humidity below 80%.

ENERGY-SAVING & LOW CONSUMPTION, ONE-STOP PERFECT SOLUTION

Automatic Pressure Holding

When there is no air leakage in the pipeline, the vacuum degree can be stably maintained at the set upper vacuum limit. In case of leakage, the system can rapidly compensate for air loss to sustain the vacuum level required by equipment, greatly improving system stability.



Automatic Start and Stop

The system automatically controls the operation of the vacuum pump according to the set upper and lower limit values. It reduces labor demand and pump operating hours, effectively extending the service life of the vacuum pump while realizing energy consumption reduction and cutting factory operating costs.




FVN-0020

Rotational Speed	2800Rpm	Pumping Speed	20m ³ /h
Voltage	220V	Oil Filling Volume	0.5L
Ultimate Pressure	-100Kpa	Power	900W
Pipe Connection Port	G1/2	Overall dimensions	87*73*35mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 60L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0025

Rotational Speed	2800Rpm	Pumping Speed	25m ³ /h
Voltage	220V	Oil Filling Volume	0.5L
Ultimate Pressure	-100Kpa	Power	750W
Pipe Connection Port	G3/4	Overall dimensions	69*35*71mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 40L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0025

Rotational Speed	2800Rpm	Pumping Speed	25m ³ /h
Voltage	380V	Oil Filling Volume	0.5L
Ultimate Pressure	-100Kpa	Power	750W
Pipe Connection Port	G1/2	Overall dimensions	87*80*35mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 60L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0040

Rotational Speed	1400Rpm	Pumping Speed	40m ³ /h
Voltage	380V	Oil Filling Volume	1.5L
Ultimate Pressure	-100Kpa	Power	1500W
Pipe Connection Port	G1-1/4	Overall dimensions	133*34*85mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 100L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0063 Small

Rotational Speed	1400Rpm	Pumping Speed	60m ³ /h
Voltage	380V	Oil Filling Volume	1.5L
Ultimate Pressure	-100Kpa	Power	1500W
Pipe Connection Port	G1-1/4	Overall dimensions	133*34*89mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 100L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0063 Large

Rotational Speed	1400Rpm	Pumping Speed	70m ³ /h
Voltage	380V	Oil Filling Volume	2.5L
Ultimate Pressure	-100Kpa	Power	2200W
Pipe Connection Port	G1-1/4	Overall dimensions	152*40*100mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 180L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0100

Rotational Speed	1400Rpm	Pumping Speed	100m ³ /h
Voltage	380V	Oil Filling Volume	2.5L
Ultimate Pressure	-100Kpa	Power	3000W
Pipe Connection Port	G1-1/4	Overall dimensions	152*40*100mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 180L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0140

Rotational Speed	1400Rpm	Pumping Speed	140m ³ /h
Voltage	380V	Oil Filling Volume	5L
Ultimate Pressure	-100Kpa	Power	3500W
Pipe Connection Port	G1-1/2	Overall dimensions	170*53*121mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 300L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0202

Rotational Speed	1400Rpm	Pumping Speed	202m ³ /h
Voltage	380V	Oil Filling Volume	6L
Ultimate Pressure	-100Kpa	Power	4500W
Pipe Connection Port	G2	Overall dimensions	170*53*143mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 300L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.


FVN-0302

Rotational Speed	1400Rpm	Pumping Speed	302m ³ /h
Voltage	380V	Oil Filling Volume	8L
Ultimate Pressure	-100Kpa	Power	7500W
Pipe Connection Port	G2	Overall dimensions	170*53*143mm

Product Features: Eco-friendly & smokeless, low noise, fast evacuation speed, equipped with 300L air storage tank

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing, papermaking industry (moisture and gas removal), etc.

OIL-FREE VACUUM PUMP UNIT

Youcheng Oil-free Vacuum Pump Unit Series adopts the latest international technology introduced by our company and is elaborately designed by professional engineers. Compared with similar competing products, it features high vacuum degree, low failure rate, low noise and slight vibration. The piston rings (leather cups) of oil-free vacuum pumps are made of new eco-friendly materials. Their self-lubricating property eliminates the trouble of oil lubrication required by traditional vacuum pumps, enabling the pump to truly operate oil-free. The cylinder undergoes surface hardening treatment to greatly boost surface wear resistance and lower friction coefficient, thus extending service life. Equipped with microcomputer intelligent control, the unit requires no preheating and is ready for immediate use upon startup.



OIL-FREE VACUUM PUMP UNIT

FVN-120V

Tank Capacity	20L	Pumping Speed	100L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	370W
Overall Weight	≤21Kg	Overall dimensions	55*31*60cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.



FVN-180V

Tank Capacity	20L	Pumping Speed	160L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	600W
Overall Weight	≤26Kg	Overall dimensions	55*31.2*68cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.



FVN-180V-2

Tank Capacity	65L	Pumping Speed	320L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	1200W
Overall Weight	≤49Kg	Overall dimensions	69*34*63cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.



FVN-200V

Tank Capacity	40L	Pumping Speed	200L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	1000W
Overall Weight	≤40Kg	Overall dimensions	73*32*69cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.



FVN-300V

Tank Capacity	40L	Pumping Speed	300L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	1500W
Overall Weight	≤40Kg	Overall dimensions	73*32*69cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.



**FVN-300V gray**

Tank Capacity	40L	Pumping Speed	300L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-90Kpa	Power	1500W
Oil Capacity	Oil-free	Overall dimensions	73*32*69cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

**FVN-400V**

Tank Capacity	65L	Pumping Speed	400L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	2000W
Overall Weight	≤80Kg	Overall dimensions	100*38*76cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

**FVN-500-1**

Tank Capacity	40L	Pumping Speed	480L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	8.3*10 ³ Pa	Power	800W
Ambient Temperature	-5~40°C	Overall dimensions	65*36*71cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

**FVN-500-2**

Tank Capacity	65L	Pumping Speed	960L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	8.3*10 ³ Pa	Power	1600W
Ambient Temperature	-5~40°C	Overall dimensions	98*43*80cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

**FVN-600V**

Tank Capacity	65L	Pumping Speed	600L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	3000W
Overall Weight	≤80Kg	Overall dimensions	100*38*76cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

**FVN-300V-20**

Tank Capacity	40L	Pumping Speed	300L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-90Kpa	Power	1500W
Overall Weight	≤40Kg	Overall dimensions	73*46*73cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

**FVN-300V-30**

Tank Capacity	40L	Pumping Speed	300L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-90Kpa	Power	1500W
Overall Weight	≤40Kg	Overall dimensions	73*32*69cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

**FVN-600V-50**

Tank Capacity	65L	Pumping Speed	600L/min
Voltage	220V	Suction Port Diameter	G1/2
Ultimate Pressure	-91Kpa	Power	3000W
Overall Weight	≤80Kg	Overall dimensions	100*38*76cm

Product Features: Oil-free, eco-friendly, low noise, fast pumping speed
 Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture & gas removal), etc.

AUTOMATIC DRAINAGE SYSTEM

Vacuum Automatic Drainage Negative Pressure Station equipped with rotary vane vacuum pump is a fully automatic integrated vacuum control system. It is specially matched with vacuum suction cups of CNC machining centers, built with an automatic liquid draining structure to discharge cutting fluid automatically without manual cleaning. It prevents cutting fluid from infiltrating the pump head and causing oil-water mixing and equipment damage, effectively extending the service life of vacuum pumps. It is the ideal supporting vacuum equipment for CNC machining.



FVN-0025-ZD

Voltage	220V/380V	Pumping Speed	25m³/h
Vacuum Degree	100Kpa	Power	750W
Oil Capacity	0.5L	Suction Port	G1
Tank Capacity: Vacuum Tank 50L, Drainage Tank 5L			
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture and gas removal), etc.			



FVN-0040-ZD

Voltage	380V	Pumping Speed	40m³/h
Vacuum Degree	100Kpa	Power	1500W
Oil Capacity	1.5L	Suction Port	G1
Tank Capacity: Vacuum Tank 100L, Drainage Tank 10L			
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture and gas removal), etc.			



FVN-0063-ZD Small

Voltage	380V	Pumping Speed	63m³/h
Vacuum Degree	100Kpa	Power	1500W
Oil Capacity	2L	Suction Port	G1
Tank Capacity: Vacuum Tank 100L, Drainage Tank 10L			
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture and gas removal), etc.			



FVN-0063-ZD Large

Voltage	380V	Pumping Speed	70m³/h
Vacuum Degree	100Kpa	Power	2200W
Oil Capacity	4L	Suction Port	G1
Tank Capacity: Vacuum Tank 100L, Drainage Tank 10L			
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture and gas removal), etc.			



FVN-0100-ZD

Voltage	380V	Pumping Speed	100m³/h
Vacuum Degree	-100Kpa	Power	3000W
Oil Capacity	4L	Suction Port	G1.5 thread
Tank Capacity: Vacuum Tank 100L, Drainage Tank 10L			
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture and gas removal), etc.			



FVN-300V-ZD

Voltage	220V	Pumping Speed	300m³/h
Vacuum Degree	-91Kpa	Power	1500W
Oil Capacity	Oil-free	Suction Port	G1/2
Tank Capacity: Vacuum Tank 50L, Drainage Tank 5L Overall Dimensions: 105*40*113cm			
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machines, printing presses, hospital central vacuum systems, rubber & plastic molding machines, wood processing, papermaking (moisture and gas removal), etc.			



SUPPORT NON-STANDARD CUSTOMIZATION



FPS-300 Vertical Type

Tank Capacity	300L	Material	Q235B
Drain Port Connector	G1	Port Size	G2 (2 pcs), G3/4 (1 pc)
Foot Dimensions	370*385mm	Mount Hole Dia. of Foot	22mm slotted hole
Overall Dimensions	1560*560*1300mm		
Product Characteristics: Automatic drain function, vertical structure saves floor space, simple to install Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing industry, paper manufacturing industry (for dewatering and moisture separation), and other relevant equipment.			



FPS-1000 Vertical Type

Tank Capacity	1m ³	Material	Q235B
Drain Port Connector	G1	Port Size	G3/4 (1 pcs), DN100 (2 pc)
Foot Dimensions	540*550mm	Mount Hole Dia. of Foot	22mm slotted hole
Overall Dimensions	2160*800*1950mm		
Product Characteristics: Automatic drain function, vertical structure saves floor space, simple to install			
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing industry, paper manufacturing industry (for dewatering and moisture separation), and other relevant equipment.			



FPS-30

Tank Capacity	30L	Material	Q235B
Check Valve Port	G1/2	Port Size	G3 (1 pcs), G1-1/2 (2 pc)
Air Pipe OD	8mm	Overall Size	300*500*650mm

Product Characteristics: Automatic drain function, vertical structure saves floor space, simple to install
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing industry, paper manufacturing industry (for dewatering and moisture separation), and other relevant equipment.



FPS-80

Tank Capacity	80L	Material	Q235B
Check Valve Port	G1/2	Port Size	G3 (3 pcs)
Air Pipe OD	8mm	Overall Size	400*650*800mm

Product Characteristics: Automatic drain function, vertical structure saves floor space, simple to install
Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing industry, paper manufacturing industry (for dewatering and moisture separation), and other relevant equipment.



FPS-300 Horizontal Type

Tank Material	Q235B	Overall Dimensions	1460*560*1430mm
Port Size	G3/4(1 pcs), DN100(2 pc)	Foot Size	750*565mm
Drain Port	G1	Manufacturing Process	Electrostatic Powder Coating

Recommended Applications: Welding machines, facial mask machines, arc welders, vacuum pump central stations



FVN-0020-ZD

Voltage	80L	Pumping Speed	Q235B
Vacuum Degree	G1/2	Power	G3 (3 pcs)
Oil Filling Volume	8mm	Suction Port Size	400*650*800mm

Tank Capacity: Vacuum tank 50L, Drain tank 5L Overall Dimensions: 108*40*105cm

Recommended Applications: CNC machining centers, food vacuum equipment, packaging machinery, printing machines, hospital central vacuum systems, rubber and plastic molding machines, wood processing industry, paper manufacturing industry (for dewatering and moisture separation), and other relevant equipment.

WATER RING VACUUM PUMP STATION

The water ring vacuum pump station is suitable for pumping out gas and water vapor. Its suction pressure can reach 33 mbar (97% vacuum, 97 kPa), with a variety of power options available. The integrated water ring vacuum pump station adopts circulating water supply, which greatly reduces water consumption. The built-in check valve can prevent water backflow and maintain the vacuum degree of connected vessels when the vacuum pump shuts down. If the vacuum pump station operates for a long time under a suction pressure below 80 mbar, an air bleed protection pipe shall be connected to protect the pump.



Model	Ultimate Pressure (pa)	Maximum Pumping Speed (M³/h)	Power (Kw)	Voltage (V)	Max Rotational Speed (R/min)	Supporting Tank (L)
FSH-4.0	3300	165	4	380	1450	300
FSH-5.5	3300	230	5.5	380	1450	600
FSH-7.5	3300	280	7.5	380	1450	1000
FSH-11	3300	400	11	380	1450	1000
FSH-15	3300	500	15	380	970	2000

WATER RING VACUUM PUMP STATION

Automatic Drain Model

Upgraded from standard water ring pump systems with auto drain for vacuum tanks to cut manual draining work and boost efficiency. Designed for gas & water vapor extraction, suction pressure down to 33 mbar (97% vacuum, 97 kPa), multiple power options available. Integrated circulating water design slashes water consumption. Built-in check valve prevents backflow and retains vessel vacuum during shutdown. For long-run operation below 80 mbar suction pressure, fit a cavitation protection pipe to safeguard the pump.



Model	Ultimate Pressure (pa)	Maximum Pumping Speed (M³/h)	Power (Kw)	Voltage (V)	Max Rotational Speed (R/min)	Supporting Tank (L)
FSH-2.35	3300	80	2.35	380	2850	100
FSH-3.85	3300	110	3.85	380	2860	100