

User Manual

COOLINK

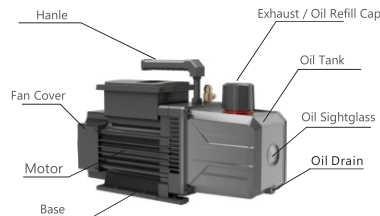
VB SERIES
EXPLOSION-PROOF Vacuum Pump



01

A Structure and technical parameters

Structure



Technical parameters

Model	Double Stage Rotary Vane Vacuum Pump	
Item	VB260E	VB280E
Rated power supply	220V/ 50Hz/110V/60Hz	
Flow Rate(CFM)	6CFM	8CFM
Ultimate Vacuum(Pa)	2×10^{-1} Pa	2×10^{-1} Pa
Motor Power(Hp)	3/4	3/4
Intake Fittings	1/4"8/3/8" Flare	
Dimensions(mm)	421×138×282	
Oil Capacity(ml)	660	660
N.W.(kg)	18.5	19

02

B Scope of use and Features

Scope of use

VB Serie Single Stage/Double Stage is the equipment use for obtaining a vacuum by evacuating gas from a sealer. Suitable for refrigeration maintenance (the refrigerants include A3 and A2 such as R290/R32/R1234yf etc.) , Air extraction in printing machinery, vacuum packaging, gas analysis, thermoplastic molding and other industries, it can also be used as the fore pump of various high vacuum equipment.

Features

1. Dual Safety Protection Explosion-Proof Safety:

Certified to Ex d IIB T4 Gb (e.g., ATEX/IECEx standards), suitable for explosive environments with hydrogen, oil vapor, and other hazardous gases.

Fully enclosed flameproof motor design eliminates spark risks, ensuring safety in high-risk scenarios like chemical plants and mining operations.

Environmental Protection: IP55 Rating:

Dustproof (prevents ingress of harmful dust particles).

Water-resistant (withstands low-pressure water jets, including rainwater and cleaning sprays).

Ideal for humid, dusty workshops or outdoor environments, ensuring reliable operation in harsh conditions.

2.High efficiency filtration

Filter cotton is used to filter oil and gas, which effectively reduces oil mist and is convenient for maintenance and replacement.

03

C Pump operation guide, safety warning

Preparation before using the pump

1. Check whether the power supply used is consistent with the power supply voltage and frequency marked on the product nameplate;
2. Please make sure that the switch is off before the pump is switched on;
3. The oil filling should be kept in the middle of the oil glass window. Too low oil level will reduce the performance of the pump, and too high oil level will cause oil mist to spray out.

Pump operation guide

1. When using a vacuum pump, first remove the air inlet cap and connect the container to be pumped (pay attention to check whether the thread at the pipe port is consistent with the air inlet thread), and the pipe used should be short;
2. Then check whether the air inlet is sealed and reliable, and there must be no leakage
3. Turn on the power switch, the pump starts to work;
4. After the pump is used, close the valve between the pump and the pumped container;
5. Turn off the power switch on the pump and unplug the power plug;
6. Remove the connecting pipe;
7. Finally, close the intake cap tightly to prevent dirt or floating particles from entering the pump cavity.

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Safety warning

Warning! To avoid personal injury, please read and follow the instruction manual carefully

- ▲ Wear goggles when working with refrigerant;
- ▲ Do not directly contact the refrigerant to prevent personal injury caused by the refrigerant;
- ▲ Because the surface of the pump will become hot when it is working, please do not touch the oil tank rest casing during operation;
- ▲ When connecting the power supply, all related equipment is required to be properly grounded to prevent the risk of electric shock;

1/2 ▲ The air inlet and the atmosphere are not allowed to operate for more than 5 minutes;

▲ The ambient temperature of this product is 5°~40°C

▲ The voltage of this product is 220V±10%/50Hz, and the power socket must be grounded;

▲ Taking out the refrigerant under the high pressure of the vacuum pump will damage the pump body. It is recommended to use special equipment.

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D Care and maintenance, common troubleshooting

Care and maintenance

1. Selection of pump oil

The type and state of the pump oil is an important factor in determining whether the pump can reach the ultimate vacuum. In order to maintain the best performance of the pump, we recommend that you use a lower viscosity vacuum pump oil, which is conducive to the cold start of the pump.

Tip: When the pump oil is emulsified and contaminated, please replace the vacuum pump oil in time.

2.Oil change procedure

- 1.To ensure that the pump is in a hot state, the pump needs to run for about 1 minute when changing the oil
- 2.When the pump is running, open the air inlet at the same time, so that the oil in the pump cavity is forced to flow out, turn off the switch and stop the pump, then open the drain plug, discharge the waste oil into a suitable container, and dispose of it reasonably;
- 3.When the oil stops flowing, tilt the pump body to completely drain the remaining waste oil;
- 4.Tighten the drain plug;
- 5.Open the fuel plug and add new pump oil;
- 6.Cover the air intake cap, start the pump and check the oil level after running for one minute. If the oil level is below the lower limit of the oil level, slowly add oil to the normal oil level, and finally screw on the Exhaust / Oil Refill Cap.

Warranty

Due to the quality of the product itself, the warranty is within 1 year from the date of delivery. The warranty scope is as follows:

1. Products with manufacturing defects confirmed by a qualified inspection agency;
2. Products that have not been repaired or disassembled privately;
3. Use the product in the correct way-follow the "Instruction for Use". Therefore, the warranty service should be carried out during the warranty period.

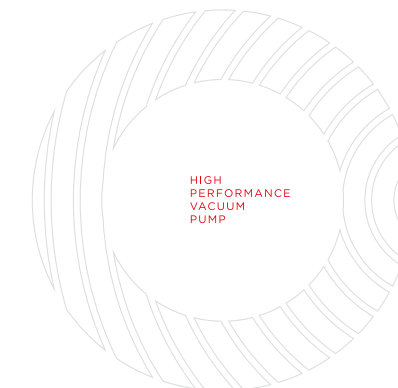
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Common troubleshooting

Failure phenomenon	Cause of issue	Method of exclusion
Low vacuum	1. The air inlet cap on the side of the air inlet spare interface is loose	Tighten the air intake cap
	2. The rubber ring in the air inlet cap on the side of the air inlet spare interface is damaged	Replace rubber ring
	3. Insufficient oil	Fill to the centerline of the oil mark
	4. Pump oil is emulsified, oil not clean	Replace the oil
	5. The oil inlet of the pump is blocked or the oil supply is insufficient	Clean the oil inlet and clean the filter
	6. Leakage of pumped pipeline container	Inspection of connected pipeline containers to prevent leakage
Oil Leak	7. Improper selection of pump	Check the size of the container being pumped, recalculate and select the appropriate model
	8. The pump is used for too long, and the clearance is increased due to worn parts	Check and repair, or replacement of new pump
Fuel injection	1. Damaged oil seal	Replace the oil seal
	2. Loose or damaged fuel tank connections	Check and repair, or replacement of new pump
Difficult to start	1. Too much oil	Drain to the oil level
	2. Import pressure is too high for a long time	Choose the right pump to increase pumping speed
	1. Oil temperature is too low	The air inlet is open to the atmosphere, repeatedly start the motor or heat the pump oil
	2. Defective motor or power supply	Check and repair
	3. Foreign objects fall into the pump	Check and repair
	4. Voltage of the power supply is too slow	Check the voltage of supply

Note: If the above methods do not solve your problem, please contact your nearest dealer or send your pump to a professional repair center, and we will do our best to serve you.



HIGH
PERFORMANCE
VACUUM
PUMP



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