



Eurovacuum
Installations and
Operating manual
EVPP Series
Vacuum pumps

Dry piston vacuum pumps



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Eurovacuum EVPP Series

Dry piston vacuum pumps

Eurovacuum Company is offering its various products to meet industrial vacuum needs.

Eurovacuum Company is founded in 2006, with over 30 year experiences in the vacuum & compressor Industry its founders have been putting there best efforts continuously to produce high quality Dry piston vacuum pumps and compressors, with diverse range of capacity for use in composite industry, packaging, plastic moulding, vacuum lifting, wood industry or other industrial application.

Advantages to the User

- Oil-less, non-lube piston and cylinder
- Low noise level
- Permanently lubricated bearings
- Stainless steel valves
- Air-cooling, no water required
- Low space requirement, easy to install
- Long-life, high performance piston seal
- Maintenance-friendly
- All wetted aluminium treated for corrosion protection caused by moisture
- Patent valve plate construction, low noise valves
- CE and Rohs approved

Application Examples

- Vacuum lifting
- Composite industry
- Medicinal technology
- Plastic production
- Wood industry
- Paint spray
- Basting
- Dust removal

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It is mandatory that these operating instructions be read and understood prior to the installation and start-up.

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INSTALLATION AND OPERATING MANUAL

This manual is written to cover EVPP-Series Model vacuum pumps and compressors. The model number is stamped into the nameplate. The number will appear as follows :
EVPP-Sxx (for Single stage) , EVPP-Dxx (for Double stage) or EVPP-xxx-Txxx (for systems).

Please identify the model number and serial number when ordering parts.

1.0 INSTALLATION

1.1 Unpacking

Inspect the box and contents carefully for any signs of damage incurred in transit. Since all of our products are ordinarily shipped from our regional warehouse, such damage is the normal responsibility of the carrier and should be reported to them.

The inlet and exhaust of the pump/compressor are plugged with plastic caps to prevent dirt and other foreign substances from entering the pump/compressor. Remove these plugs when installing the pump/compressor and before starting it.

There is a silencer/filter supplied with the pump/compressor, please mount this on the exhaust of the vacuum pump or on the inlet in case of the compressor version.

1.2 Location

To reduce vibrations you should screw the four rubber feet inside the nuts located on the bottom of the pump/compressor. Install the pump in a horizontal position on a level surface so that the pump can be evenly supported on its rubber feet. Leave 10 ~ 15 cm of access around the pump to allow proper cooling. Also adequate ventilation must be provided for the fans, radiator and motor.

1.3 Electrical connection

A schematic diagram for the electrical motor terminal connections is located on the housing of the pump/compressor.

Check the voltage and frequency on the identification plate before starting the electrical supply to the pump/compressor.

In the case of one of our DC-power versions there will be a control unit supplied with the pump. Connect the 3 numbered wires of the control unit to the corresponding numbers on the pump/compressor wires.

The 2 remaining wires, colour Red and Black will need to be connected to the supply voltage in the following order: Red is connected to the Positive pole and Black is connected to the Negative pole or common point in case of a vehicle.

2.0 SAFETY

Only normal air is permitted as working media. Do not evacuate corrosive liquid or vapour with the pump.

Dirt will damage the pump so always use a suitable inlet filter. After the pump has been stopped, air will gradually flow back into the evacuated spaces in the vacuum version or will escape from the compressor version. If this is undesirable, it will be necessary to fit a check valve in front of the inlet port on the vacuum pump or on the exhaust of the compressor, look on the Eurovacuum catalog for the details of these check valves.



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The standard pump/compressor cannot start against vacuum/pressure. Contact Eurovacuum for an alternate vacuum pump/compressor designed to meet your demand.

Improper disassembly or repair will damage the pump/compressor. Only qualified personnel should make repairs.

The pump/compressor is maintenance-free. Do not lubricate any of the parts with oil, grease, or petroleum products nor clean with acids, caustics, or chlorinated solvents at any time as this will affect the lifetime of the unit.

2.1 General Notices

- Understand fully this installation and operating manual before operation.
- The other person except authorized operator should not operate the pump/compressor.
- When the pump/compressor is not properly working, it should be stopped immediately.
- Eurovacuum shall have no liability for any accident and failure arising from no compliance with instructions in this manual.

3.0 Warranty

EVPP-Series vacuum pumps/compressors have a warranty of 12 months from the moment of the date of shipment. They are only valet when the pump/compressor has been properly installed and operated under normal conditions of use like mentioned inside this manual.

4.0 PROBLEM SOLVING

4.1 Problem

Pump/compressor does not start.

4.1.1 Possible Cause

No main power supply.

Remedy : check the main power supply and cables.

4.1.2 Possible Cause

Wrong voltage or frequency.

Remedy : check the required voltage and frequency on the pump/compressor and order the correct pump/compressor for your supply power.

4.1.3 Possible Cause

Capacitor defective.

Remedy : Check capacitor and replace if necessary.

4.1.4 Possible Cause

There is full vacuum (vacuum version) or full pressure (compressor version) in the pipe system or tank.

Remedy : vent the system to atmospheric pressure and the pump/compressor will start again, if this happens more often than fit an check valve before the pump/compressor and the pipe system and/or tank.



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4.1.5 Possible Cause

Motor defective.

Remedy : return to the factory for repair.

4.2 Problem

Pump/compressor does not reach the ultimate vacuum/pressure.

4.2.1 Possible cause

The system is leaking.

Remedy : repair the leaking parts on the system.

4.2.2 Possible Cause

Inlet filter or exhaust filter is dirty

Remedy : replace filter cartridges.

4.2.3 Possible Cause

Cylinder or cup seal defective

Remedy : replace cylinder or cup seal.

4.2.4 Possible Cause

Plate valve defective

Remedy : replace the plate valve.

4.2.5 Possible Cause

Vacuum/pressure gauge defective or inaccurate.

Remedy : use another gauge to measure the vacuum/pressure.

4.2.6 Possible Cause

Pump/Compressor is too small for the system.

Remedy : ask Eurovacuum to supply you a bigger pump/compressor suitable for your system.

4.3 Problem

Pump is very noisy.

4.3.1 Possible Cause

Vibrations being transferred to the base and/or enclosure.

Remedy : use a suitable anti-vibration protection.

4.3.2 Possible Cause

Defective bearing(s)

Remedy : return the pump/compressor to Eurovacuum or a by Eurovacuum certified local service centre for repair.



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4.3.3 Possible Cause

Cylinder or cup seal defective
Remedy : replace cylinder or cup seal.

4.3.4 Possible Cause

Plate valve defective
Remedy : replace the plate valve.

4.4 Problem

Pump becomes too hot.

4.4.1 Possible Cause

Cooling air supply is insufficient.
Remedy : provide for adequate ventilation with cool air.

4.4.2 Possible Cause

Ambient temperature is too high.
Remedy : relocate the pump/compressor to area where the ambient temperature is below 40°C.

4.4.3 Possible Cause

Process air is too hot (only on vacuum version).
Remedy : add an cooling system to cool down the process gas below 30°C before entering the vacuum pump, this cooling can also be achieved by using a longer inlet piping.

