

Vacuum pump 0.05 mBar



I. Description

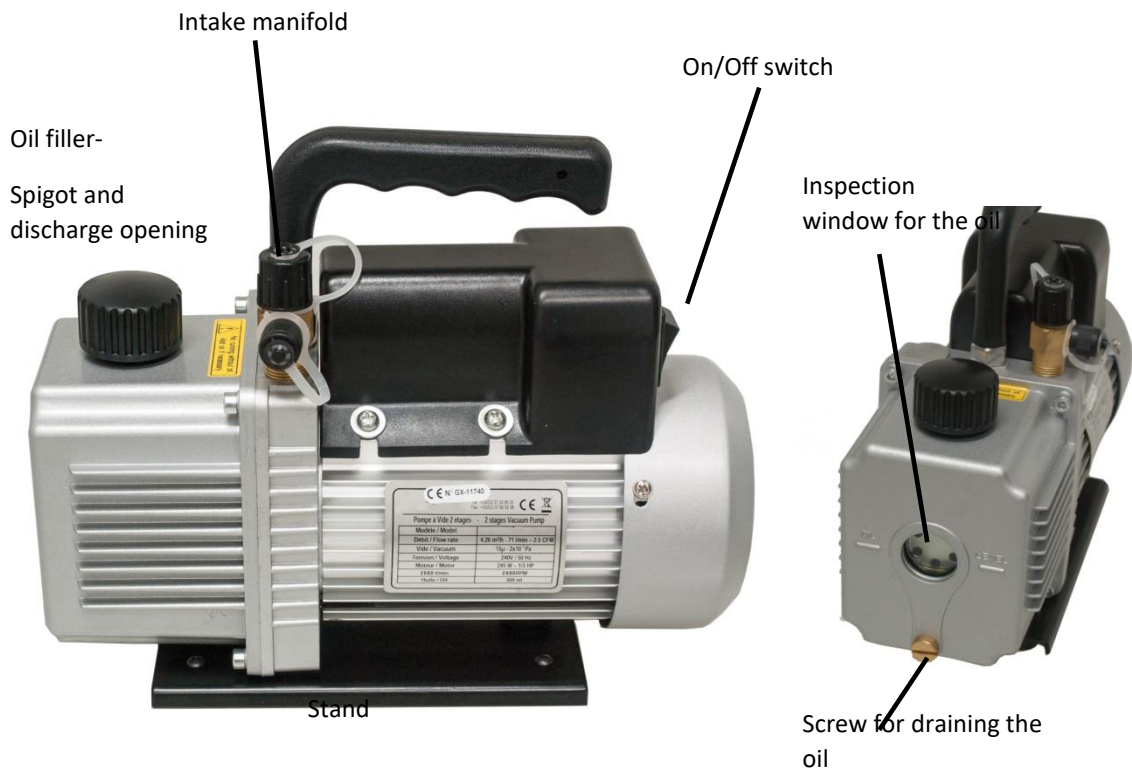
1. Introduction

Features of this two-stage rotary vane vacuum pump are its quiet operation, small footprint and high performance. This pump is suitable for school applications.

2. Scope of delivery

- The pump
- one vacuum line (1 m)
- one pipe end
- one bottle of vacuum oil (250 ml)

3. Detailed description



Thanks to the latest technology, the size of the pump has been kept small.

The robust compact design, its weight and its bearing surface give the pump maximum stability. The handle allows you to easily transport the pump. The points for filling with oil and draining are easily accessible. There are three types of connection from which you can choose freely according to your needs.

The pump is characterized by the following features:

- Inspection window for checking the oil level
- Easy draining of the oil pan during an oil change.
- Very robust and stable base with vibration dampers
- Handle

II. Technical data

- Mains voltage 230 / 50 Hz
- 245 W - 1440 / min.
- Volume flow 85 l/min
- Ultimate vacuum $3.75 \cdot 10^{-3}$ mm Hg or 0.005 mbar or 0.5 Pa
- Oil content: 220 ml
- Connections: 1/4" and 3/8" with screw thread as well as a tapered extension with flute for the rubber hose
- Weight: 10 kg

1. Installation and commissioning

1.1 Unpacking and assembly

The pump is delivered packed with an oil container, a connector and a vacuum hose. The pump must be used horizontally on a clean and dry surface. It must be sufficiently ventilated.

The pump must not be operated without oil.

1.2 Commissioning: Filling up with oil

1- Loosen the black cover of the discharge opening. Then take a funnel to pour the oil into the opening. At the same time, pay attention to the filling level. The correct filling quantity is reached **when the oil level is between the two lines**. Then close the opening again.



Oil level (1/2 up) must be observed

2- Also open one of the suction ports.

3- Run the pump for a few moments with a free air supply to allow the oil to distribute throughout the pump. Stop the pump and check the oil level again and adjust it if necessary.

1.3. Installation of the hose connection piece

1- Take the brass-colored connector (see below) and the supplied vacuum hose.

2- Screw this fitting onto the spigot of the pump with the same diameter, the other remains closed.



3- Insert the corrugated fitting into the line and slip the line completely over it to ensure tightness.

2. **consumables:** vacuum oil (order no. 105.1702)

3. **accessories**

Vacuum plate:

Vacuum bell jar:

Optional accessories:

Pressure gauge:

Oil mist filter:

III. Maintenance, warranty and troubleshooting

1. maintenance

Check the oil level before each use and top up with oil if necessary, as indicated in the Installation chapter. The oil should always be clear and clean. Do not overfill the pump.

In general, the pump oil should be changed every 150 operating hours or once a year. Before draining, let the pump run for 30 min. to warm up the oil and make it thin so that it can drain off more easily. Then fill the pump with fresh vacuum oil.

All maintenance or repair work that goes beyond an oil change must be carried out by an authorized company. In case of problems, please contact CONATEX customer service.

In case of shipment, the vacuum pump may only be shipped completely empty!

Defects caused by oil leaking during transport and the associated cleaning work are not covered by warranty.

Additional expenses and costs for necessary repairs resulting from this are not covered by the warranty.

Important Notice:

When the pump is operating, a slight oil mist escapes from the discharge opening. This is normal and does not indicate a malfunction of the pump. If this is found to be disturbing, an oil mist filter can be retrofitted. The filter can be ordered from CONATEX under order no. 114.2051.

2. Troubleshooting

Problem	Cause	Remedy
Oil quantity too low during oil change	<ul style="list-style-type: none"> - Oil level too low - Oil emulsion or contaminated Oil - Intake blocked - Piping porous - Pump volume flow not adapted - Leakage in the tested system 	<ul style="list-style-type: none"> - Fill oil level - Replace oil - Check hoses - Replace hoses - Recalculate volume flow - Check system (disk, Bell etc.)
Oil leakage	<ul style="list-style-type: none"> - Drain connection damaged - Plug for draining not properly closed 	<ul style="list-style-type: none"> - exchange - reseal
Oil leaks	<ul style="list-style-type: none"> - Too much oil in the device 	<ul style="list-style-type: none"> - Calibrate oil level again
Start-up difficulties	<ul style="list-style-type: none"> - Temperature too low - Power failure - Foreign body in the pump 	<ul style="list-style-type: none"> - Heat oil - Check circuit - take apart and clean

3. Use not in accordance with the intended purpose

Do not pump flammable, explosive or corrosive gases, saturated steam, dusts or harmful substances. Operating temperature: -5 to +60°C - Maximum temperature of sucked gases +80°C.

Avoid foreign bodies getting into the pump.

Do not use as a compressor or feed pump - **never operate without oil.**

4. Warranty

The equipment supplied by CONATEX is warranted from the date of delivery against all defects or hidden defects in the particular equipment sold. This warranty covers a period of 5 years after delivery and is limited to the repair or replacement of the defective device. The warranty cannot be claimed in case of damage caused by improper use of the device.

Before returning the device, a return number must be obtained from CONATEX service.