

Technical data:

Delivery rate:	5.5 m³/h
Maximum negative pressure:	0,5 Pa
Lowest working temperature:	10°C
Oil quantity:	approx. 450 ml
Noise level:	approx. 63 dB (A)
Motor power:	190 W
Supply voltage:	230 V / 50 ... 60 Hz
dimensions:	310 x 130 x 250 mm
Weight:	10 kg

Attention:

- The device is to be operated exclusively by qualified persons or by persons who have been instructed in the use of the device. Duty of supervision!
- Make sure that the unit does not fall down when being moved, packed or unpacked. If this should happen, have the unit repaired immediately by authorized specialists.
- If unexpected problems occur during installation or operation of the unit, immediately unplug the power cord and contact your dealer.
- If the device does not work properly, there is an increased risk of danger. Therefore, always make sure that the device is standing stably on a solid surface.
- Make sure that no objects are placed on the power cord. A damaged cable can cause a fire or electric shock.
- There are no user-serviceable components inside the instrument.
- The repair of this device may only be carried out by an authorized specialist.
- Never push objects of any kind through the ventilation slots or other openings in the housing and never attempt to touch any components inside the device for repair, maintenance or other reasons.
- Never place any containers with liquids on the housing of the device.
- Do not use connecting cables > 3 m
- Errors and omissions excepted



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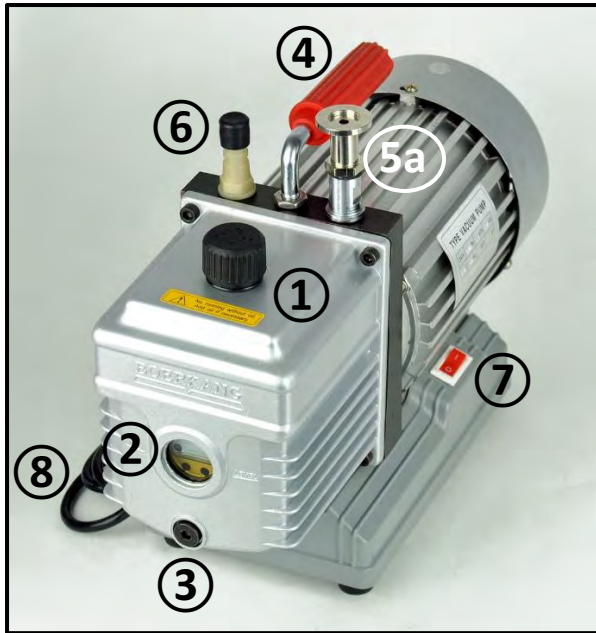
DM503-2A Vacuum pump, electric 12, two stages



This electric, two-stage rotary vane vacuum pump is designed for the experiments in the rough and fine vacuum range in the natural sciences.

Attention!

All pumps are delivered without oil filling.
For filling, the vacuum pump oil supplied in the box must be used for filling.



Initial start-up:

Filling is carried out with the motor switched off through the opening provided for this purpose on the top of the pump (1). Please fill the pump until the oil level has reached the red mark in the center of the sight glass (2). Then close the filling opening (1) and operate the pump for approx. 2 minutes, then check the oil level again and top up with oil if necessary. The optimum filling level is in the middle of the sight glass (2). However, the pump will not be affected if a little too much oil is accidentally filled in.

Description:

The rotary vane vacuum pump consists of the drive unit and the electric motor. Both are directly coupled to each other, mounted on the base frame and are air-cooled. The motor carries the mains connection line (8), the mains switch (7) and the carrying handle (4). The housing of the rotary vane pump has all the mechanical elements required for operation. The housing of the rotary vane pump has all the mechanical elements necessary for operation. On the upper side there are the oil filler opening (1) and the suction port with bottle (5a). On the front side the sight glass of the oil level control (2) and the oil drain plug (3).

Depending on the requirements and the accessories available, a different suction port can be mounted. To do this, simply unscrew 5a and screw on 5b or 5c.

Commissioning:

1. Check whether the mains switch (7) is switched off.
2. The power cable (8), which is permanently connected to the pump, is plugged into the power outlet to the AC mains.
3. Before starting up the pump, the oil level (2) must be checked or topped up.
4. Remove the cap of the outlet connection (6).
5. During pump operation, make sure that no water and no above-average amount of water vapor does not get into the suction line of the pump.
6. Care must also be taken that the oil level during operation remains within the visible range of the sight glass.
7. The rotary vane vacuum pump is very sensitive to mechanical contamination. If this should be the case, damage will occur and a general repair will be necessary. If "wrong" air is sucked in, the seal must be tightened or replaced.
8. During prolonged operation, a permissible temperature rise of the pump must be expected. If necessary, wait for the pump to cool down after it has been switched off before tampering with it.

Operating conditions:

Operating position: horizontal, upright

Operating temperature in the room: + 15 °C ... 35 °C

Start-up of the pump at approx. 15 °C should be without load.

Humidity: max. 80% rel.

Maintenance:

The rotary vane vacuum pump is almost maintenance-free. It is sufficient to regularly oil level and oil quality. When the pump is at a standstill, the oil limit is in the middle; when the pump is in operation, the oil limit drops significantly. A deficiency (shortage or clouding due to moisture and impurities or slide valve wear) leads to performance losses loss of performance, in the worst case to seizure of the rotary vane. Therefore, it is recommended to use only original vacuum pump oil, which has viscosity and lubricating properties, and which guarantees trouble-free function guaranteed in the long term.

Warranty:

The warranty is 2 years from the date of delivery. The invoice is valid as warranty certificate.

The warranty does not apply to the cleaning of the device and malfunctions caused by improper use. The warranty also expires in the event of operating errors.