

Technical data:

Delivery capacity:	4,6 m ³ /h
Max. negative pressure:	10 Pa
Lowest working temperature:	10°C
Oil level:	approx. 200 ml
Sound level:	approx. 46 - 50 dB (A)
Motor performance:	120 W
Supply voltage:	220 ... 240 V / 50 ... 60 Hz
Dimensions:	280 x 120 x 210 mm
Weight:	7 kg

Attention:

- This device may only be operated by qualified personnel or by persons who have been instructed in its use.
- Pay attention to not drop the device when packing or moving. If it happens, it should be repaired by an authorized person or company.
- If unexpected problems occur when working with the pump, immediately turn it off and remove the mains cable. If the pump is not working properly there is an increased safety risk.
- Do not put any devices on the mains cable. A defective cable kann result in fire or in an electric shock.
- There are no components inside the housing which need to be maintained by the user.
- The device should only be repaired by an authorized person or company.
- Do not put any objects into the ventilation slots of the device or into any other openings of the pump. Never try to access any components inside the housing for any reason!
- Do not put any containers with liquids on the housing.
- Do not use any connection cables which are longer than 3 metres
- We reserve the right for errors and alterations

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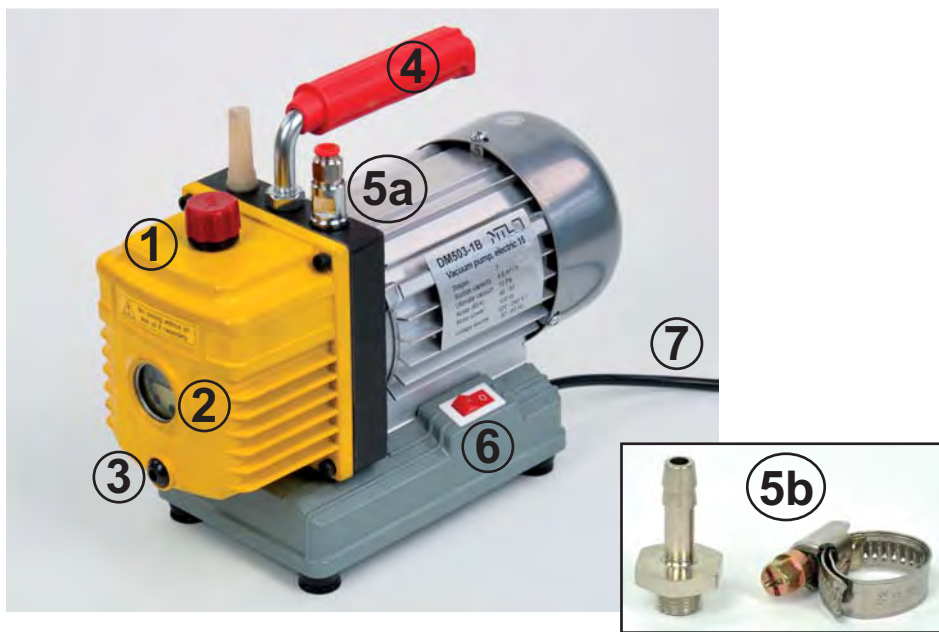
DM503-1B Vacuum pump, electric 15, one stage



This electric rotary vane vacuum pump with one stage is designed to perform experiments in the field of nature science, suitable for coarse and fine ranges.

Attention!

All pumps are delivered without oil filling. Please use the oil that is delivered alongside the vacuum pump, it can be found inside the package.



Using the vacuum pump for the first time:

Make sure that the vacuum pump is turned off, the opening on top of the pump (1) is designated for filling in the oil. Please fill in as much oil until the oil level has reached the red marker in the middle of the sight glass (2). Close the opening for the oil (1) and turn on the pump for approximately two minutes, afterwards check the oil level again and fill in some more if required.

The ideal level is at the red marker in the mid of the sight glass; however there is no impairment if too much oil was filled in.

Description:

The rotary vane vacuum pump consists of the drive unit and the electric motor. Both of them are directly coupled to each other, mounted on a pedestal base and air cooled.

On the motor you can find the mains connection (7), the power switch (6) and the carrying handle (4). The housing of the rotary vane vacuum pump has all required mechanical components which are necessary for operating. On the top you can find the opening for filling in the oil (1) and the intake socket including the quick release connection (5a). In the front is the sight glass to control the oil level (2), on the bottom you will find the drain plug to release the oil (3).

If you wish to mount a rubber hose, a different intake socket can be used - simply remove 5a and use 5b instead.

Working with the vacuum pump:

1. Make sure that the power switch (6) is turned off.
2. The mains connection (7) is connected to a AC mains power supply socket.
3. Before turning on the pump, check the oil level and refill some if required.
4. While working with the pump, make sure that no water or no large amount of vapor goes into the suction line.
5. Make sure that the oil level stays in the visible area of the sight glass when working.
6. The rotary vane vacuum pump reacts very sensitive to mechanical debris or dust. If this happens, the pump will get defect and a general reparation will be necessary. In case that "wrong" air is sucked in, the seal needs to be readjusted or replaced.
7. If the pump is used for a longer time, please expect an increase in the temperature. Make sure to wait long enough until it has cooled down again if you wish to manipulate something on the components of the pump or the pump itself.

Conditions when working with the vacuum pump:

Position when using: horizontally, standing

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

When starting the pump (at approximately 15 °C), no load should be used.

Humidity: max. 80% rel.

Maintenance:

The rotary vane vacuum pump is nearly free from maintenance. It is sufficient to check the quality and amount of oil regularly. When not operating the pump, the oil level should be in the mid of the sight glass, during operating the pump the oil level will decrease clearly. Using impure or the wrong amount of oil will result in loss of power. In the worst case the rotary vanes may get stuck.

We strongly recommend to use only the original vacuum pump oil, it has the optimal viscosity and lubricating properties and ensures a failure-free functionality of the pump.

Warranty:

The warranty of this product is two years, the invoice serves as a certificate of guarantee.

The warranty is not applicable on errors which are caused due to inappropriate handling and expires at maloperation.