VACUUBRAND®

# VARIO® diaphragm pump MV 10 NT VARIO select




Link to the website

## Product description

Four-stage diaphragm pumps like the MV 10 NT VARIO select are excellent solutions for continuous, oil-free pumping of non-corrosive gases to vacuum levels that are only a fraction of a millibar. With its high pumping speed, this pump is an excellent option for higher gas load applications or rapid pump down of vacuum chambers. All wetted parts are made of aluminum, stainless steel and carefully selected plastics suitable for a wide range of applications with non-corrosive gases. The MV 10 NT VARIO select automatically adapts its motor speed to hold the desired vacuum level. That also means the pump is whisper-quiet and generates ultra-low vibrations, and has high leak tightness. The highly flexible fabric-reinforced double FKM diaphragm is ideal for extended operating life. The VARIO® design includes the variable speed pump and the VACUU·SELECT® vacuum controller with an external gauge head. The demand-responsive motor speed control on VARIO® models further extends the already long lifetimes of diaphragms and valves. And oil-free operation means that there is no risk of contamination from backstreaming.

## Performance features

- VACUU·SELECT vacuum controller with graphical user interface and predefined applications simplifies work in the laboratory
- extraordinary diaphragm life for minimum operational and servicing costs
- contamination-free pumping and evacuation
- high pumping speed, extraordinary ultimate vacuum and TURBO·MODE for use as backing pump for turbo pumps

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Link to the website:
https://shop.vacuubrand.com/25744151

## Ordering data

| Product name | Nominal mains voltage \| mains frequency | Plug type | Articleno. |
|---|---|---|---|
| MV 10 NT VARIO select | 200-230 V \| 50-60 Hz | CH | 25744151 |

## Items supplied

Pump completely mounted, ready for use, silencer, with manual.

## Accessories

- Function extension for VACUU·SELECT controller VACUU·SELECT User Management (20700900)
- Clamping ring for small flange KF DN 20/25 (20660001)
- External centring ring for small flange KF DN 20/25 (20660196)
- Vacuum tubing PVC with internal stainless steel spiral, with small flanges KF DN 25 (20686021)
- Small flange with hose nozzle KF DN 25 / DN 10 mm (20662807)
- Rubber vacuum tubing DN 10 mm (20686002)
- Air admittance valve VB M-B (20674217)
- Set of diaphragms and valves MV 10 / MD 12 (20696827)

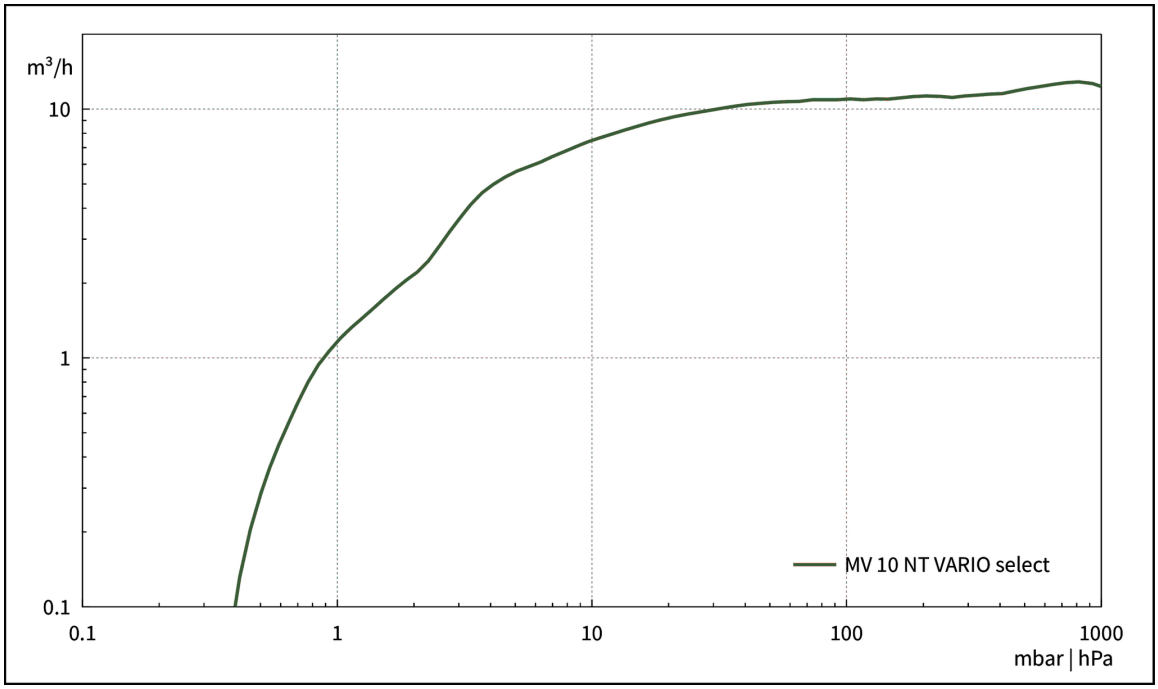

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## Technical data

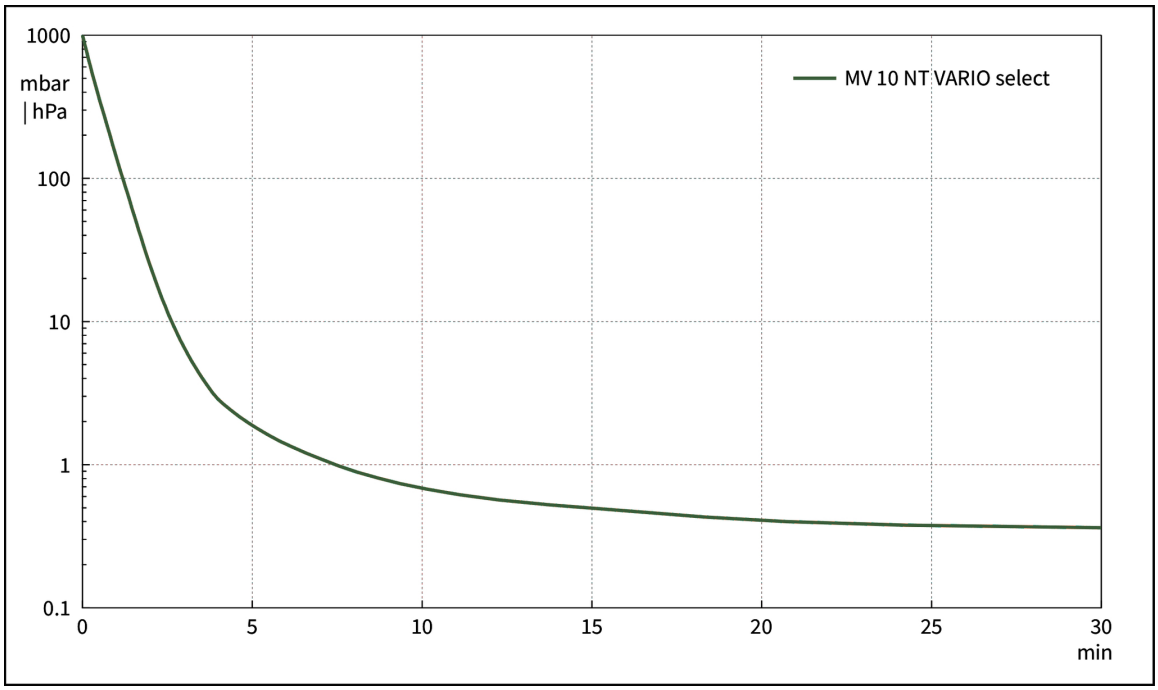
| | |
|---|---|
| Max. pumping speed 50 Hz ($m^3/h$) | 12.1 $m^3/h$ |
| Max. pumping speed 60 Hz (cfm) | 7.1 cfm |
| Ultimate vacuum | 0.3 mbar / 0.2 torr |
| Number of heads | 8 |
| Number of stages | 4 |
| Vacuum controller | VACUU·SELECT |
| Permissible ambient temperature range (operation) | 10 - 40 °C |
| Permissible ambient temperature range (storage) | -10 - 60 °C |
| Max. outlet pressure (abs.) | 1.1 bar |
| Inlet connection | small flange KF DN 25 |
| Outlet connection | G1/2" |
| Rated motor power | 0.53 kW |
| Motor speed range | 30 - 2400 $min^{-1}$ |
| Protection class IEC 60529 | IP 40 |
| Dimensions (L x W x H) | 552 mm x 260 mm x 450 mm |
| Weight | 31.6 kg |
| Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®) | 50 dBA |
| ATEX conformity | II 3/- G Ex h IIC T3 Gc X Internal Atm. only |
| NRTL certification | No |
| Interface | Ethernet (RJ45): Modbus TCP / USB (Type A): Data transfer, software update, RS-232 (additional adapter required) |


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## Pumping speed graph at 50 Hz




## Pump down graph at 50 Hz (100 l volume)

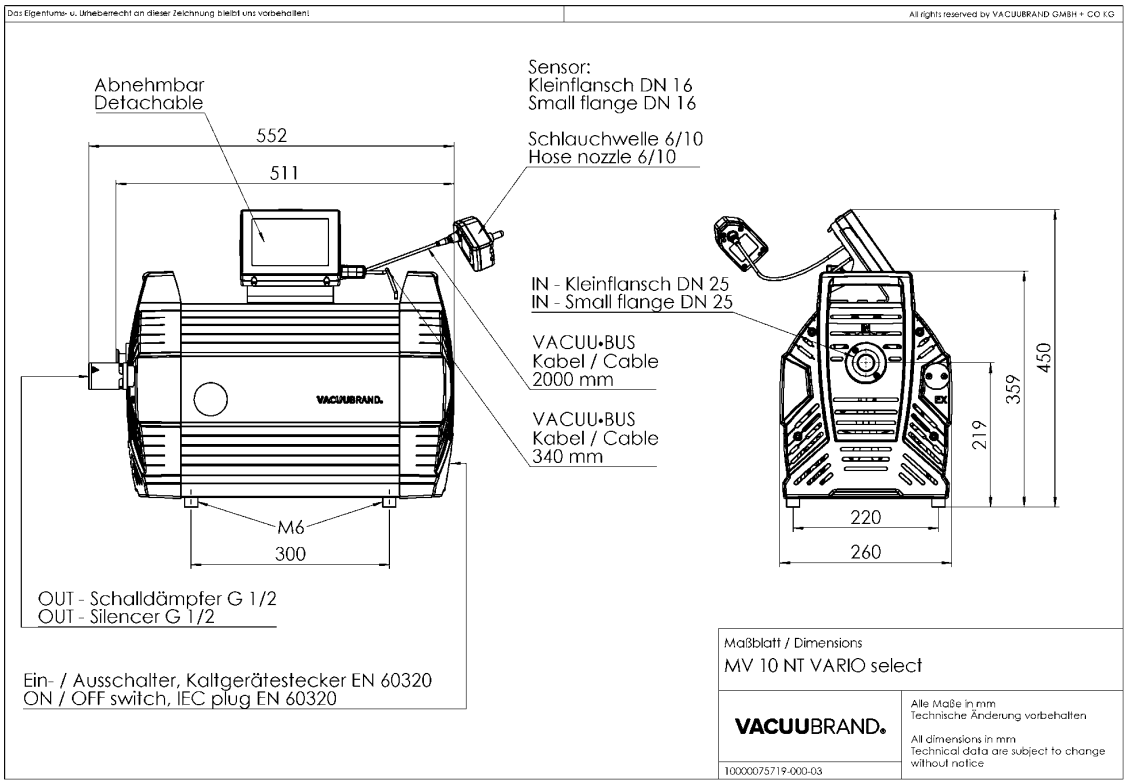



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## Dimension sheet







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VACUUBRAND

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