

VARIO® diaphragm pump MD 4 VARIO select

[Link to the website](#)

Product description

This three-stage diaphragm pump is an excellent solution for continuous, oil-free pumping of non-corrosive gases to a vacuum level as deep as 1 mbar. 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 MD 4 VARIO select continuously adapts its motor speed to hold the desired vacuum level. That 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 external gauge head. The demand-responsive motor speed control on VARIO models further extends the already long lifetimes of diaphragms and valves.

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
- excellent ultimate vacuum and TURBO-MODE for use as backing pump for turbo pumps

Ordering data

Product name	Nominal mains voltage mains frequency	Plug type	Articleno.
MD 4 VARIO select	200-230 V 50-60 Hz	CH	20736351

Items supplied

Pump completely mounted, ready for use, with manual.

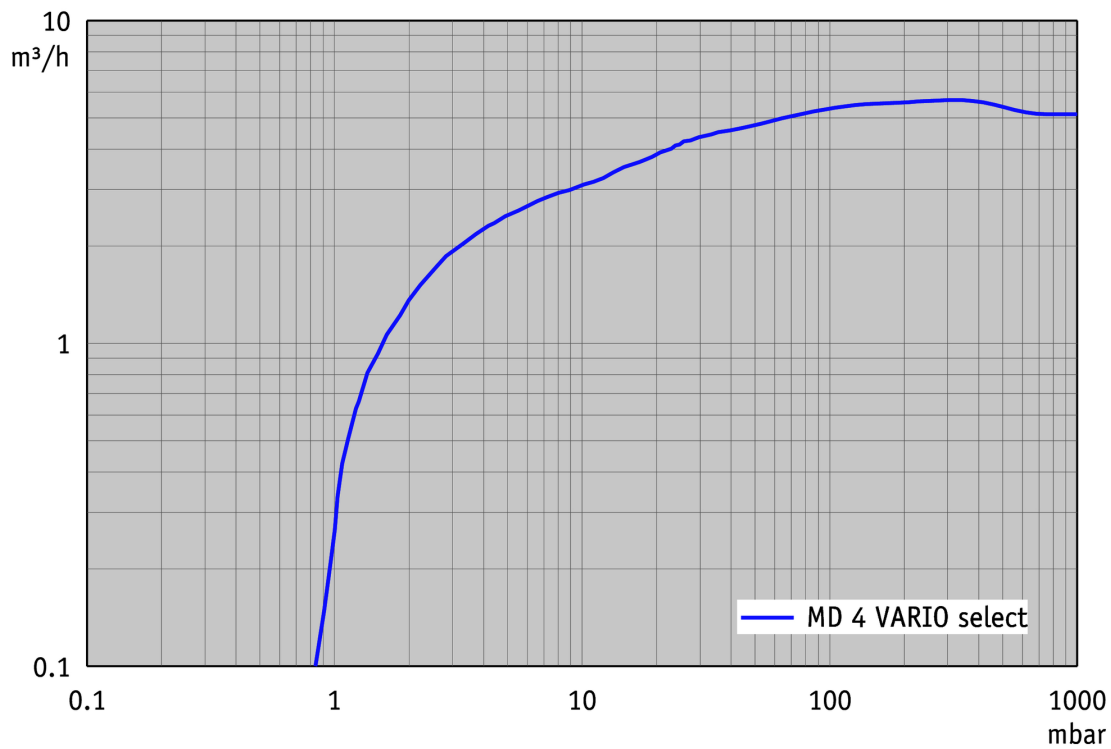
Accessories

- Function extension for VACUU-SELECT controller VACUU-SELECT User Management (20700900)
- Vacuum tubing transparent DN 8 mm (20686061)
- Clamping ring for small flange KF DN 10/16 (20660000)
- External centring ring for small flange KF DN 10/16 (20660190)
- Small flange with hose nozzle KF DN 16 / DN 10 mm (20662806)
- Air admittance valve VB M-B (20674217)
- Set of diaphragms and valves MD 4 NT / MV 2 NT / MD 4 NT VARIO / MV 2 NT VARIO (20696861)

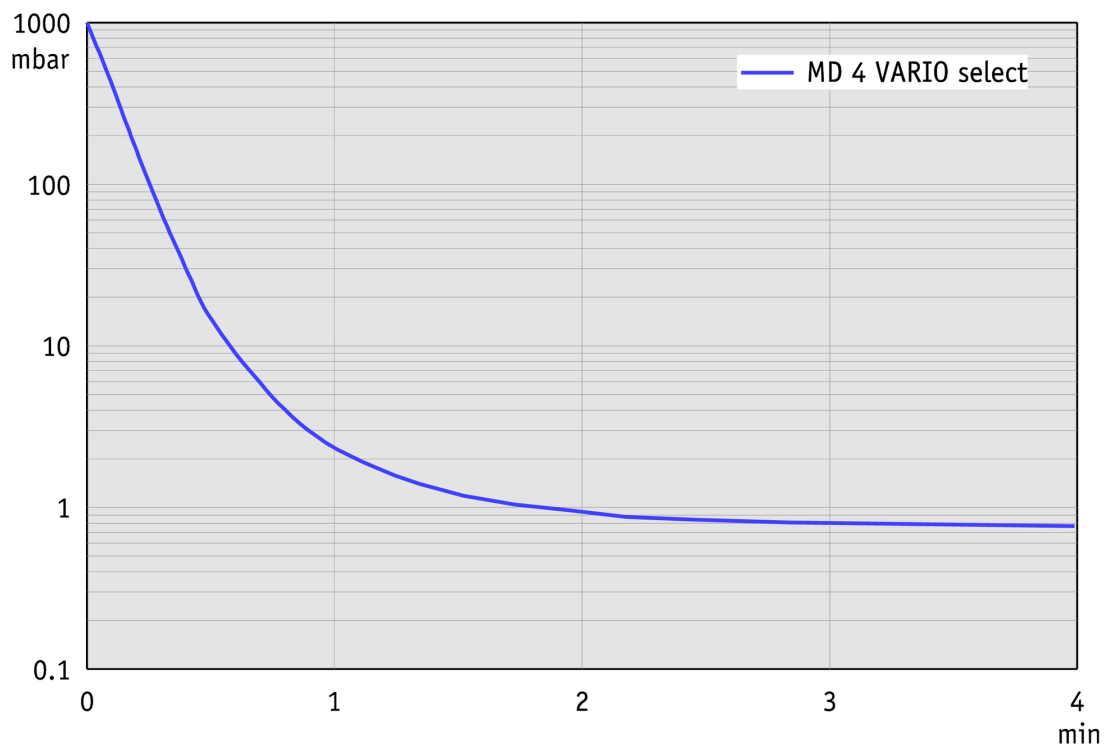
Technical data

Max. pumping speed 50 Hz (m³/h)	5.7 m³/h
Max. pumping speed 60 Hz (cfm)	3.4 cfm
Ultimate vacuum	1 mbar / 0.75 torr
Number of heads	4
Number of stages	3
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 16
Outlet connection	Silencer / G1/4"
Rated motor power	0.53 kW
Motor speed range	30 - 2400 min ⁻¹
Protection class IEC 60529	IP 20
Dimensions (L x W x H)	325 mm x 235 mm x 245 mm
Weight	19.1 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU-PURE®)	45 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)

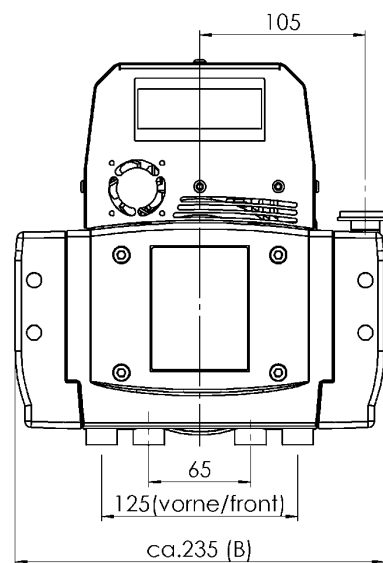
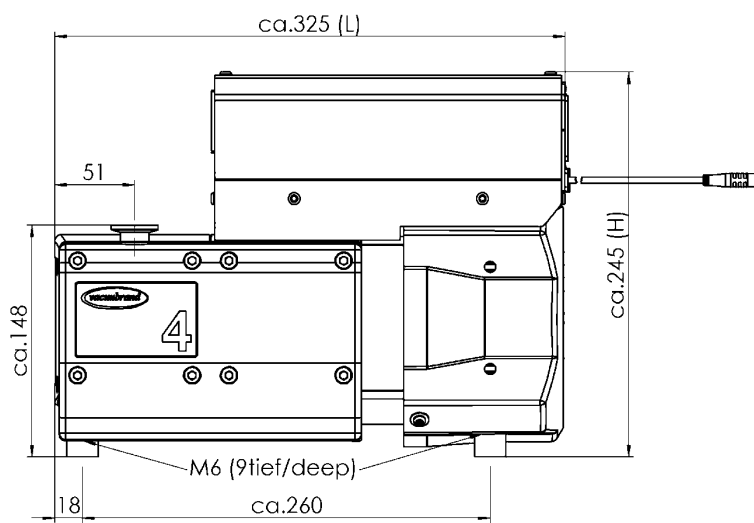
Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (10 l volume)

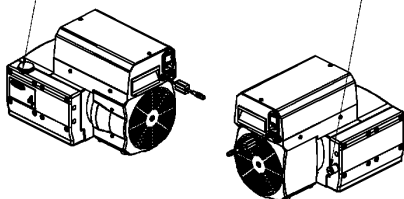


Dimension sheet



IN - Kleinflansch DN16
small flange 1/6

EX - Schalldämpfer
silencer



VACUUBRAND MD 4 NT VARIO
Version 2013/07/29

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