

# VARIO® chemistry diaphragm pump MD 4C VARIO select

[Link to the website](#)



## Product description

The MD 4C VARIO select pump is an excellent solution for labs working with most high boiling point solvents. The pump's three stage configuration gives it an ultimate vacuum rating of 1.5 mbar. The integrated VACUU-SELECT controller provides an easy-to-use, application based interface that covers all common lab applications. The VACUU-SELECT controller has you covered. Use manual set-point-control for simple processes, run fully automated distillations, or create your own application with simple drag-and-drop editing. For solvent evaporation, the VACUU-SELECT controller continuously detects the boiling point and automatically adjusts the vacuum process as necessary. VARIO's on-demand motor speed control results in whisper-quiet operation and unparalleled length of service intervals for wear parts.

## Performance features

- VACUU-SELECT vacuum controller with graphical user interface and predefined applications simplifies work in the laboratory
- automatic boiling point detection and adjustment of the vacuum for short process times
- extraordinary diaphragm life for minimum operational and servicing costs
- meets high vacuum requirements for most high boiling solvents

## Ordering data

Product name	Nominal mains voltage   mains frequency	Plug type	Articleno.
MD 4C VARIO select	200-230 V   50-60 Hz	IN	20736557

## Items supplied

Pump completely mounted, ready for use, with manual.

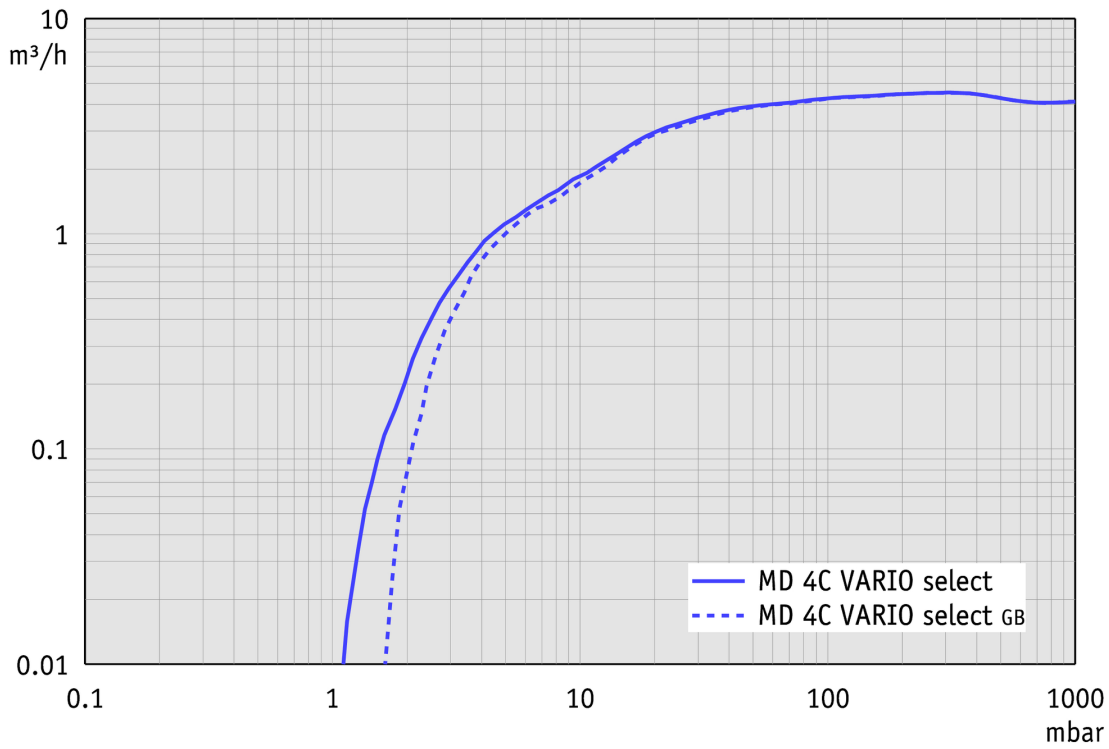
## Accessories

- Function extension for VACUU-SELECT controller VACUU-SELECT User Management (20700900)
- Silencer with hose 5cm DN 8-10mm (20636588)
- Rubber vacuum tubing DN 8 mm (20686001)

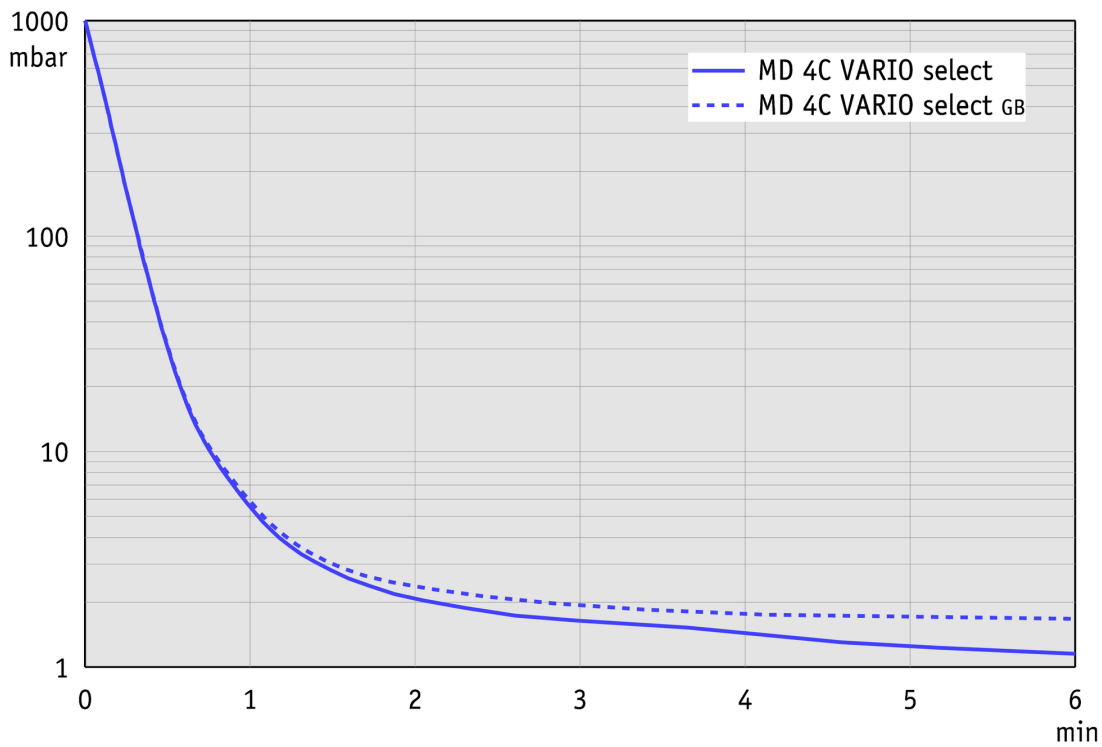
## Technical data

Max. pumping speed 50 Hz (mbar)	4.6 m <sup>3</sup> /h
Max. pumping speed 60 Hz (cfm)	2.7 cfm
Ultimate vacuum	1.5 mbar / 1.1 torr
Ultimate vacuum with gas ballast	3 mbar / 2.2 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	Hose nozzle DN 8-10 mm
Outlet connection	Hose nozzle DN 8-10 mm
Rated motor power	0.53 kW
Motor speed range	30 - 2400 min <sup>-1</sup>
Protection class IEC 60529	IP 20
Dimensions (L x W x H)	325 mm x 243 mm x 245 mm
Weight	16.8 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	43 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)

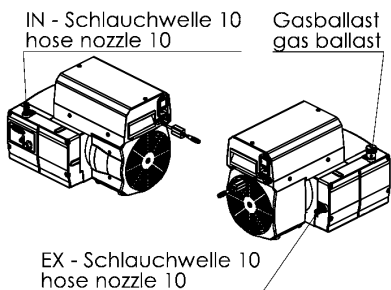
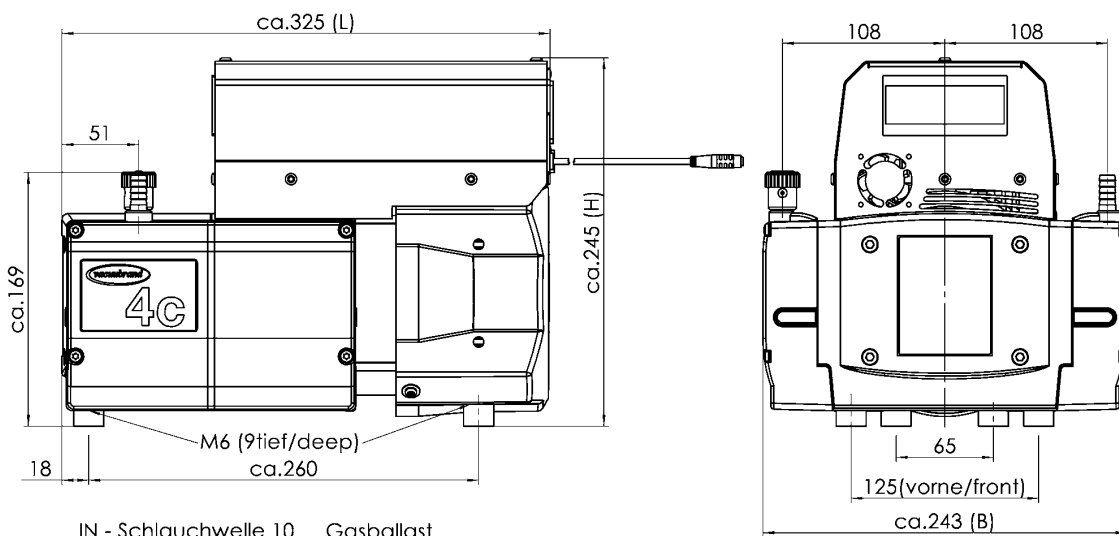
Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (10 l volume)



## Dimension sheet



Alle Maße / all dimensions (mm)

VACUUBRAND MD 4C NT VARIO  
Version 2009/05/05

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With highly motivated and qualified employees, we manufacture the world's most comprehensive product family for vacuum generation, measurement and control for the rough and fine vacuum range in the laboratory.

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