VACUUBRAND®

Chemistry diaphragm pump MV 10C NT

Link to the website

Product description

Four-stage chemistry-design diaphragm pumps are an excellent solution for continuous, oil-free pumping of corrosive gases and vapors and meet highest requirements. The four-stage design of the eight-cylinder pump MV 10C NT provides the advantageous combination of high pumping speed and very low ultimate vacuum of 0.9 mbar in a very compact design. All internal parts in contact with pumped media are made of chemically resistant fluoroplastics. Well-proven PTFE sandwich diaphragms increase reliability and extend operating life. Upgraded with an exhaust waste vapor condenser (EK) the MV 10C NT +EK provides an excellent, environmentally friendly system with efficient solvent recovery. A separator for the inlet (AK) made of glass (with protective coating) against particles and liquid droplets is available as an optional accessory.

Performance features

- outstanding chemical resistance and superior vapor tolerance
- reduced process time due to very high flow rates even close to ultimate vacuum
- very low vibration and quiet
- excellent ultimate vacuum even with gas ballast
- excellent environmental friendliness due to efficient solvent recovery (on models with EK accessory)

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Link to the website:
https://shop.vacuubrand.com/20744300

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
MV 10C NT	200-230 V | 50-60 Hz	CEE	20744300

Items supplied

Pump completely mounted, ready for use, with manual.

Accessories

- Inlet separator AK with round bottom flask 500 ml, with connections KF DN 25 and hose nozzle DN 15 mm AK 500 / KF DN 25 (20699979)
- Silencer with hose 5cm DN 8-10mm (20636588)
- 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)
- Set of diaphragms and valves MD 12C NT / MV 10C NT (20696839)

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Technical data

Max. pumping speed 50 Hz (mbar)	9.5 m^3/h
Max. pumping speed 60 Hz (cfm)	5.6 cfm
Ultimate vacuum	0.9 mbar / 0.68 torr
Ultimate vacumm with gas ballast	1.5 mbar / 1.1 torr
Number of heads	8
Number of stages	4
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	Hose nozzle DN 15 mm
Rated motor power	0.53 kW
Rated speed 50/60 Hz	1650 min^{-1}
Protection class IEC 60529	IP 40
Dimensions (L x W x H)	533 mm x 260 mm x 359 mm
Weight	28.1 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

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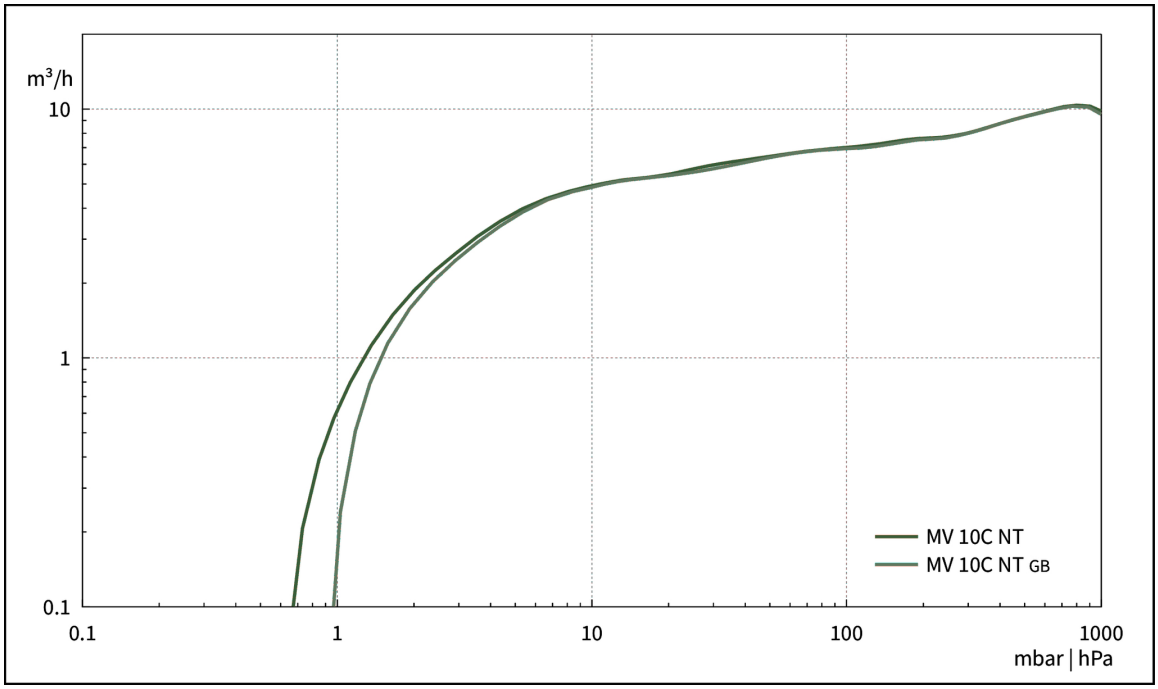
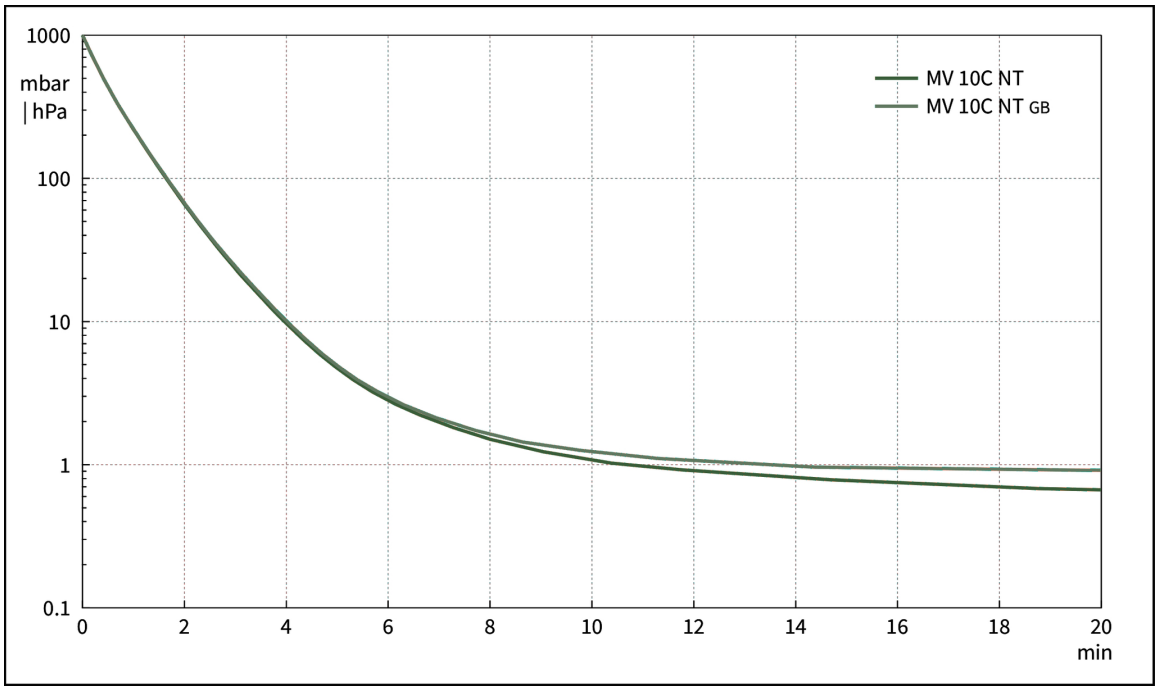
Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (100 l volume)



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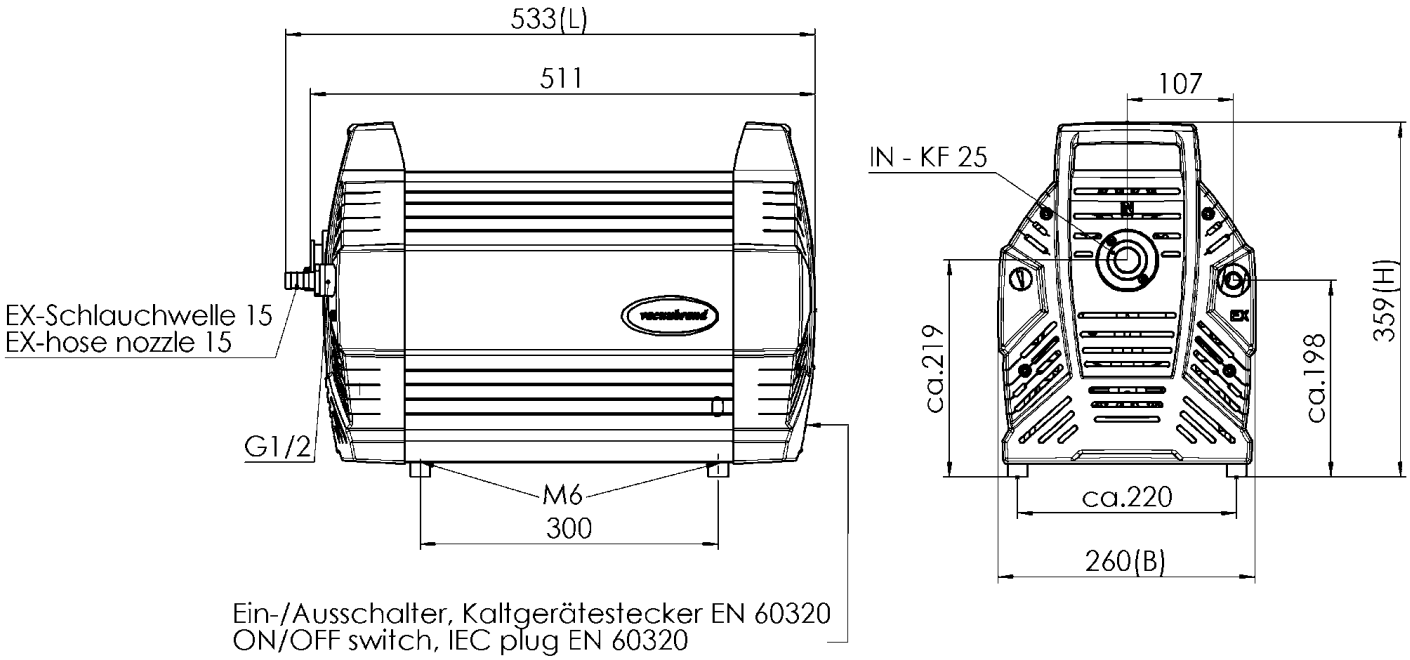
Dimension sheet



Alle Maße / all dimensions (mm)

VACUUBRAND ME 16C NT, MD 12C NT, MV 10C NT
Version 2012/04/20

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VACUUBRAND

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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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