VACUUBRAND®

Chemistry vacuum system MV 10C NT +EK



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
- on models with EK: excellent environmental friendliness due to efficient solvent recovery

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Link to the website:
https://shop.vacuubrand.com/20744500

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
MV 10C NT +EK	200-230 V | 50-60 Hz	CEE	20744500

Items supplied

Pumping unit completely mounted, ready for use, with manual.

Accessories

- 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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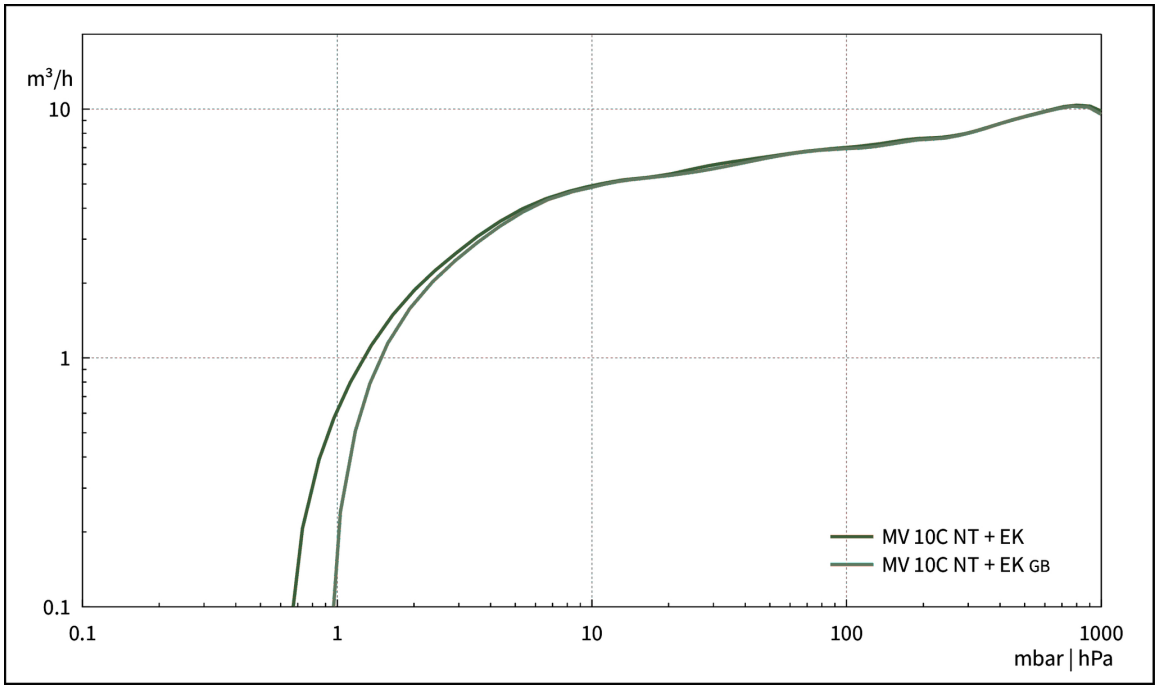
Technical data

Max. pumping speed 50 Hz (m^3/h)	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 8-10 mm
Coolant connection	2 x hose nozzle DN 6-8 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)	528 mm x 387 mm x 395 mm
Weight	28.3 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

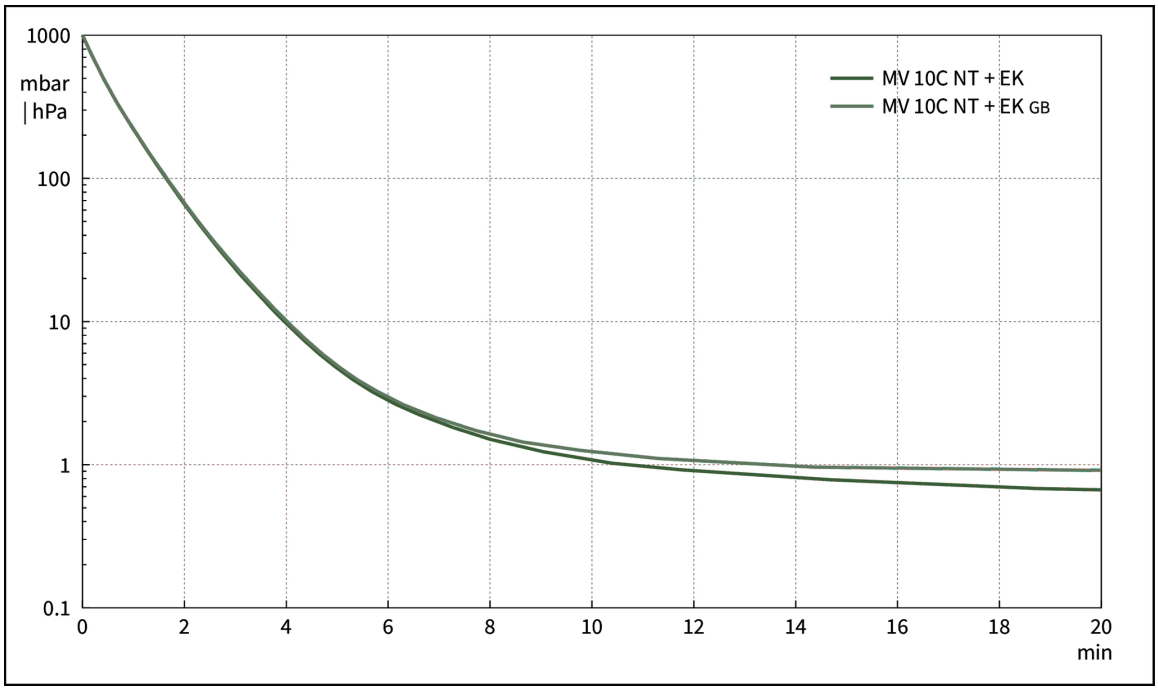
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Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (100 l volume)

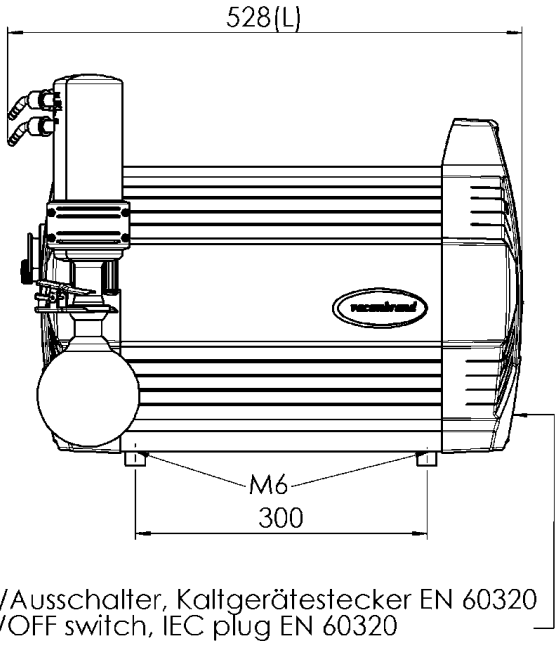


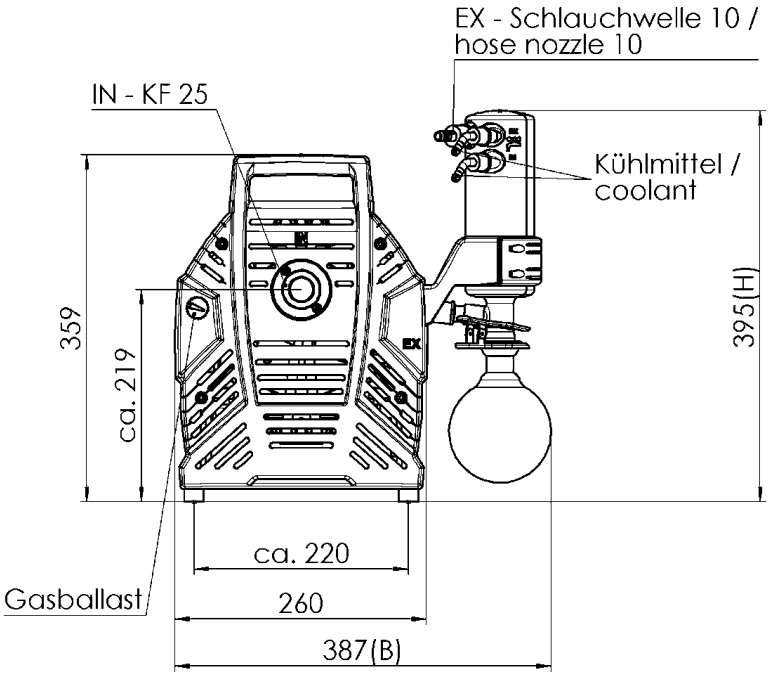
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Dimension sheet







Alle Maße / all dimensions (mm)

VACUUBRAND ME 16C NT EK, MD 12C NT EK, MV 10C NT EK
Version 2013/07/29

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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.

All with one goal:
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Engineering excellence is central to our ability to deliver products and solutions renowned for their quality, durability, and reliability. Innovative technology, high quality materials and extensive testing deliver unmatched performance - engineered and manufactured in Germany.

Together with you, our experts will find the best solution for your application and provide you with first-class service along the way.

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