

# 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)

## 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.

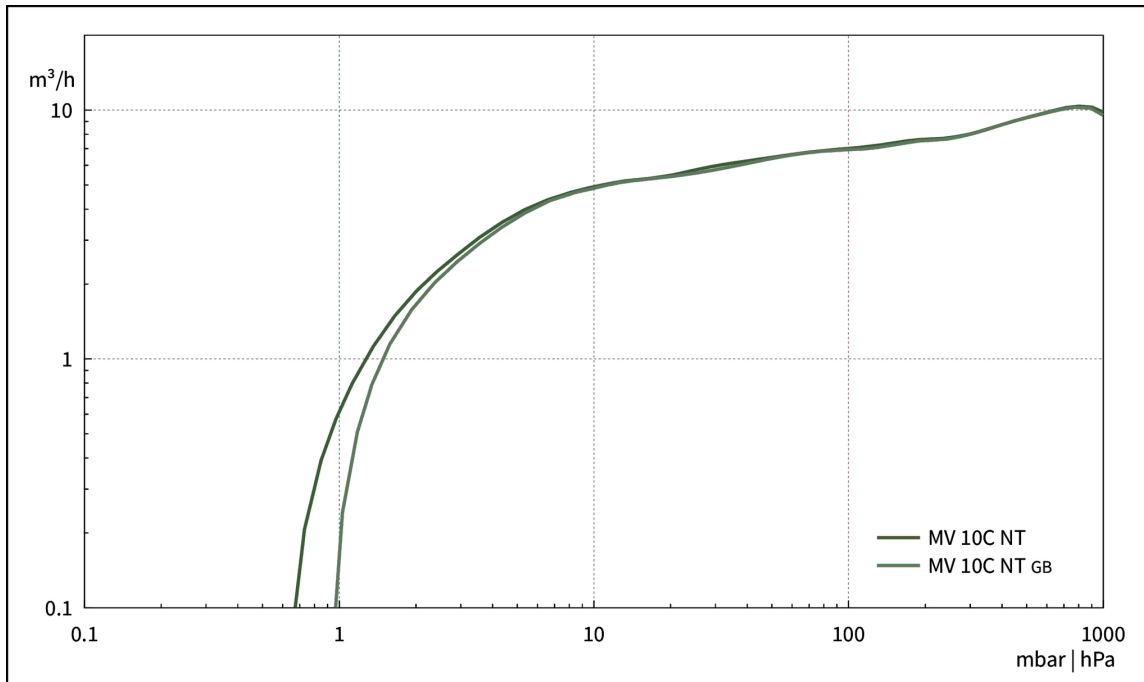
## Accessories

- 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)

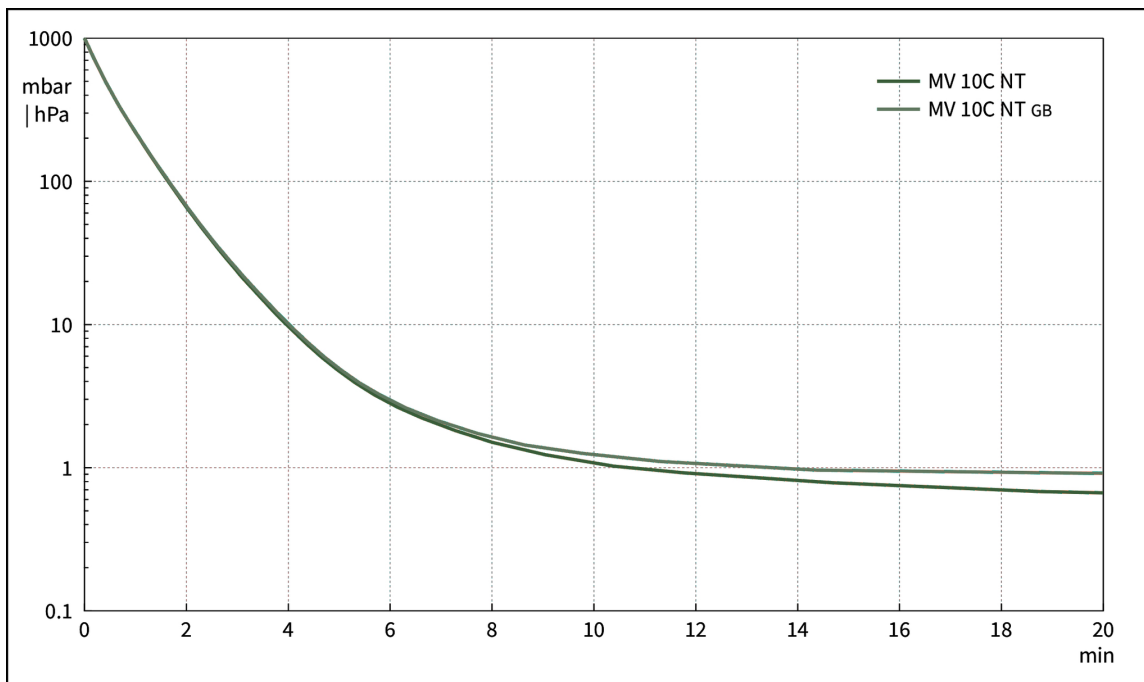
## Technical data

| Max. pumping speed 50 Hz (m³/h)                                                                                  | 9.5 m³/h                                     |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Max. pumping speed 60 Hz (cfm)                                                                                   | 5.6 cfm                                      |
| Ultimate vacuum                                                                                                  | 0.9 mbar / 0.68 torr                         |
| Ultimate vacuum 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 <sup>-1</sup>                       |
| 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                                           |

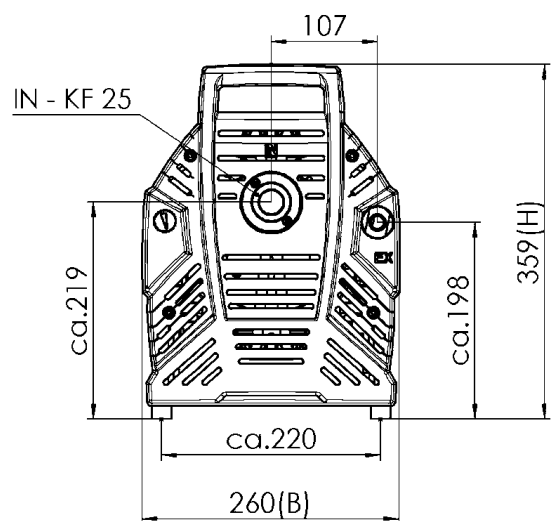
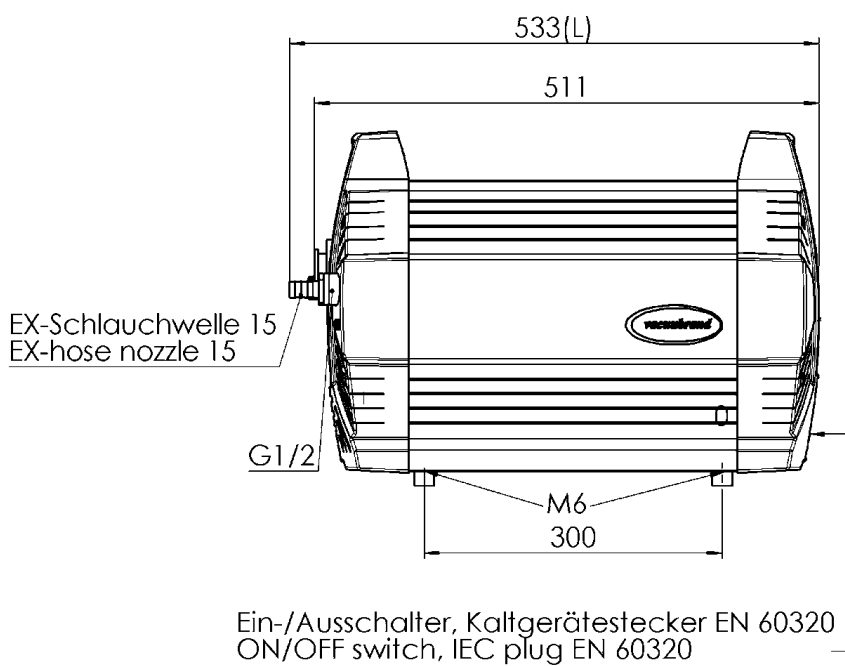
## Pumping speed graph at 50 Hz



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



## Dimension sheet



Alle Maße / all dimensions (mm)

VACUUBRAND ME 16C NT, MD 12C NT, MV 10C NT  
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VACUUBRAND GMBH + CO KG  
P.O. Box 1664  
97877 Wertheim  
T +49 9342 808 5550  
F +49 9342 808 5555

info@vacuubrand.com  
www.vacuubrand.com

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BRAND (Shanghai) Trading Co., Ltd.  
Shanghai, China

T +86 21 6422 2318  
info@brand.com.cn  
china.brand.com.cn

BRAND Scientific Equipment Pvt. Ltd.  
Mumbai, India

T +91 22 42957790  
customersupport@brand.co.in  
www.brand.co.in

BRANDTECH® Scientific, Inc.  
Essex, CT. United States of America

T +1 860 767 2562  
info@brandtech.com  
www.brandtech.com