VACUUBRAND®

# Diaphragm pump MD 12 NT



Link to the website

## Product description

The MD 12 NT diaphragm pump is an especially powerful pump for oil-free evacuation and pumping of non aggressive gases. The three-stage design of this eight-cylinder pump provides the advantageous combination of very high pumping speed and excellent ultimate vacuum. The flow path consists of aluminium, stainless steel and carefully selected plastics to permit a wide range of applications. The fabric-reinforced double diaphragms are made of highly flexible FKM for extended operating life and high vacuum performance. Eight-cylinder NT pumps feature quiet operation, with smooth and easy-to-clean surfaces. Like all VACUUBRAND diaphragm pumps they operate absolutely oil-free and do not have any sliding components in the gas path. In normal operation they are completely free of abrasion. This eliminates most of the particulate impurities frequently generated inside of scroll or piston pumps.

## Performance features

- contamination-free pumping and evacuation
- high flow rate even near ultimate vacuum
- whisper quiet
- reduced process times
- exceptionally long diaphragm life and maintenance-free drive system for low lifetime costs

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Link to the website:
https://shop.vacuubrand.com/20743000

## Ordering data

| Product name | Nominal mains voltage \| mains frequency | Plug type | Articleno. |
|---|---|---|---|
| MD 12 NT | 200-230 V \| 50-60 Hz | CEE | 20743000 |

## Items supplied

Pump completely mounted, ready for use, silencer, with manual.

## Accessories

- 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 MV 10 / MD 12 (20696827)

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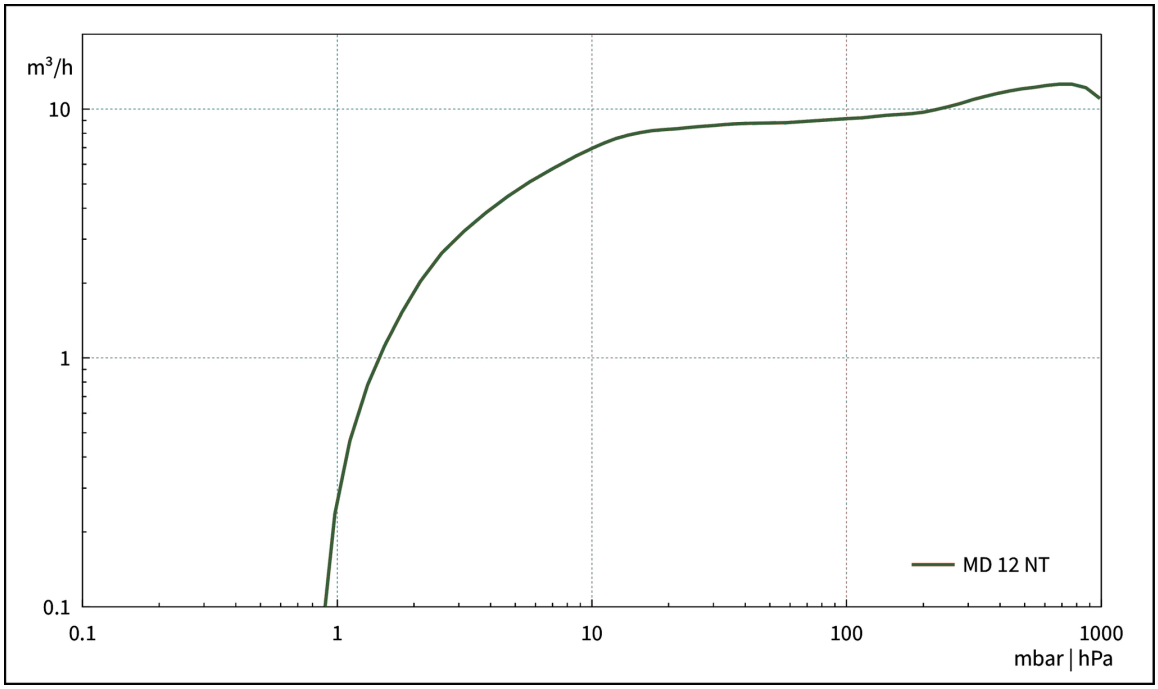
## Technical data

| | |
|---|---|
| Max. pumping speed 50 Hz ($m^3/h$) | 12.1 $m^3/h$ |
| Max. pumping speed 60 Hz (cfm) | 7.1 cfm |
| Ultimate vacuum | 2 mbar / 1.5 torr |
| Number of heads | 8 |
| Number of stages | 3 |
| 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 | G1/2" |
| 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) | 554 mm x 260 mm x 359 mm |
| Weight | 30.2 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 |

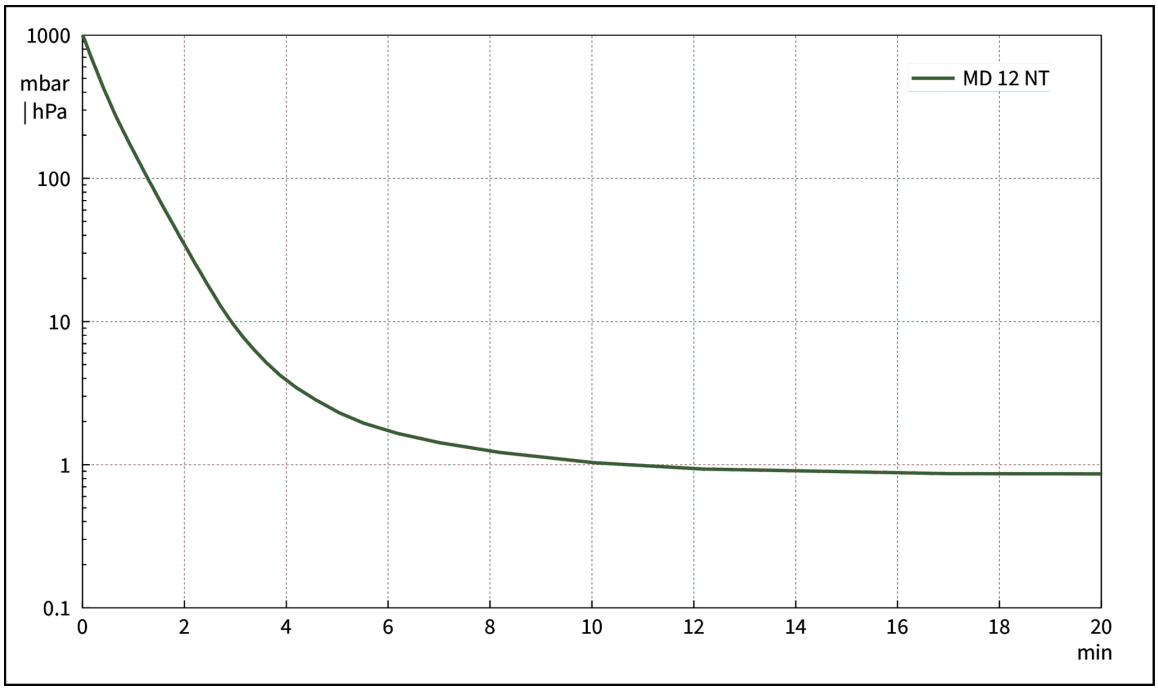
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## Pumping speed graph at 50 Hz




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

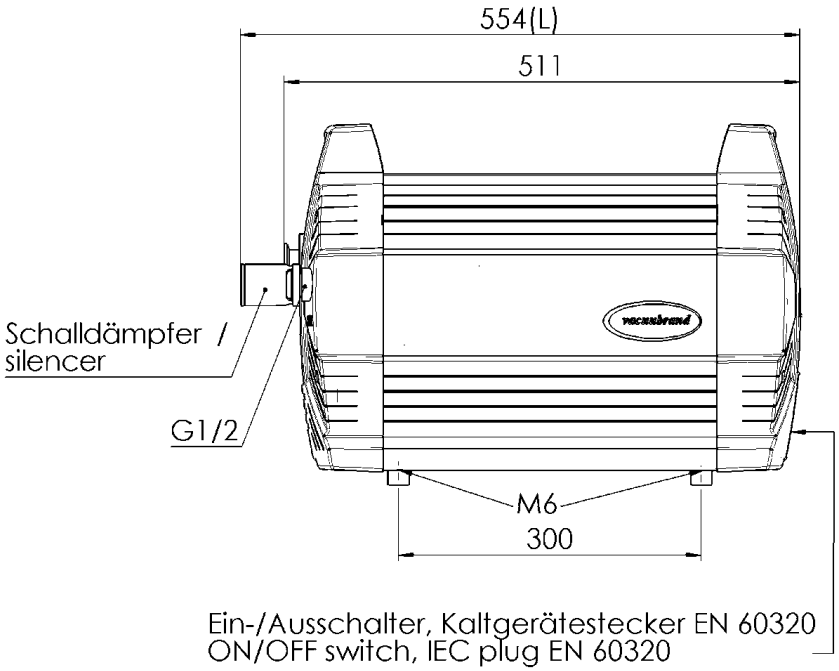


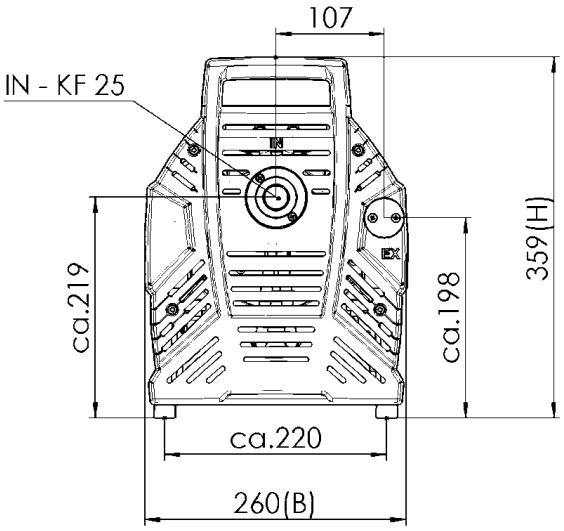

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## Dimension sheet






Alle Maße / all dimensions (mm)

VACUUBRAND ME16 MD12 MV10 NT
Version 2014/06/18

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