VACUUBRAND®

# Chemistry vacuum system MD 12C NT +EK



Link to the website

## Product description

These chemistry vacuum systems have a wide range of applications like evacuation, evaporation and pumping of gases and vapors. They provide a particularly high pumping speed and are ideal for higher vacuum requirements, e.g., with high boiling solvents. The base pump MD 12C NT obtains a very good ultimate vacuum even with gas ballast and features high performance in a compact design. The consistent design for highest chemical resistance enables almost universal usage in chemistry and pharmaceutics. The waste vapor condenser at the outlet (EK) is highly efficient and compact. The condenser enables near-100-percent solvent recovery, efficient recycling and active protection of the environment. An optional separator at the inlet (AK) made of glass with protective coating retains particles and liquid droplets and can be mounted later to this system.

## Performance features

- outstanding chemical resistance and superior vapor tolerance
- reduced process time due to particularly high pumping speed even near ultimate vacuum
- whisper quiet and very low vibration
- very good ultimate vacuum even with open gas ballast valve for condensate purge
- excellent environmental friendliness due to efficient solvent recovery

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Link to the website:
https://shop.vacuubrand.com/20743501

## Ordering data

| Product name | Nominal mains voltage \| mains frequency | Plug type | Articleno. |
|---|---|---|---|
| MD 12C NT +EK | 200-230 V \| 50-60 Hz | CH, CN | 20743501 |

## 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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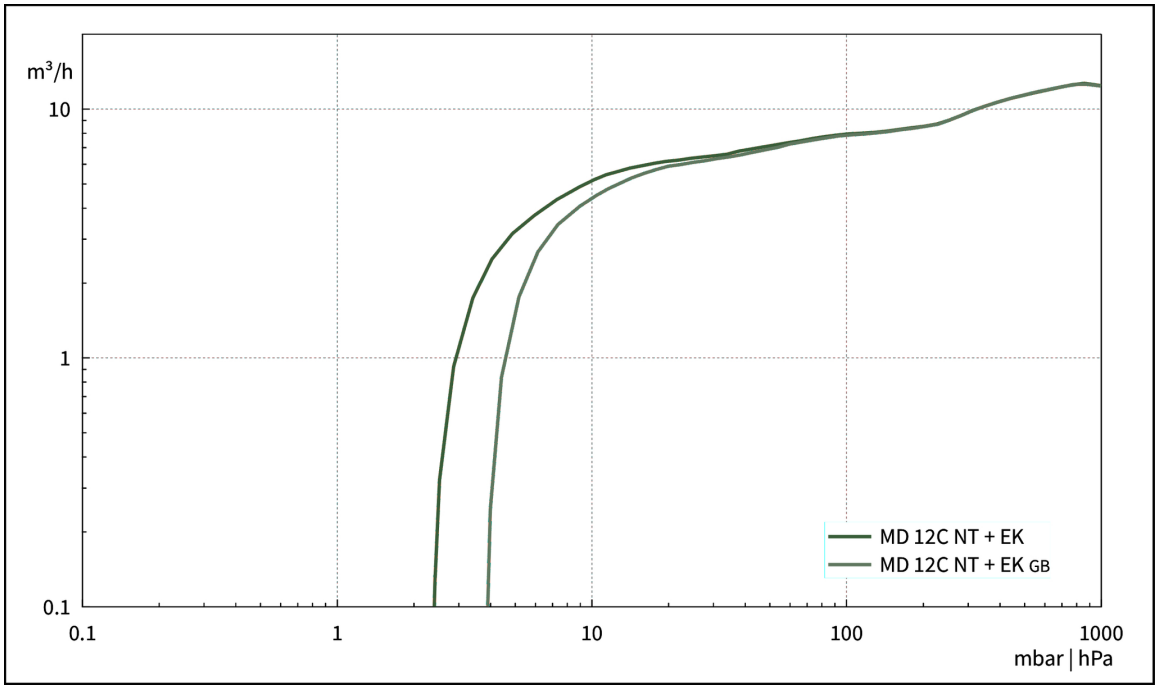
## Technical data

| | |
|---|---|
| Max. pumping speed 50 Hz ($m^3/h$) | 12 $m^3/h$ |
| Max. pumping speed 60 Hz (cfm) | 7.0 cfm |
| Ultimate vacuum | 2 mbar / 1.5 torr |
| Ultimate vacumm with gas ballast | 4 mbar / 3 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 | 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 | 28.4 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 |

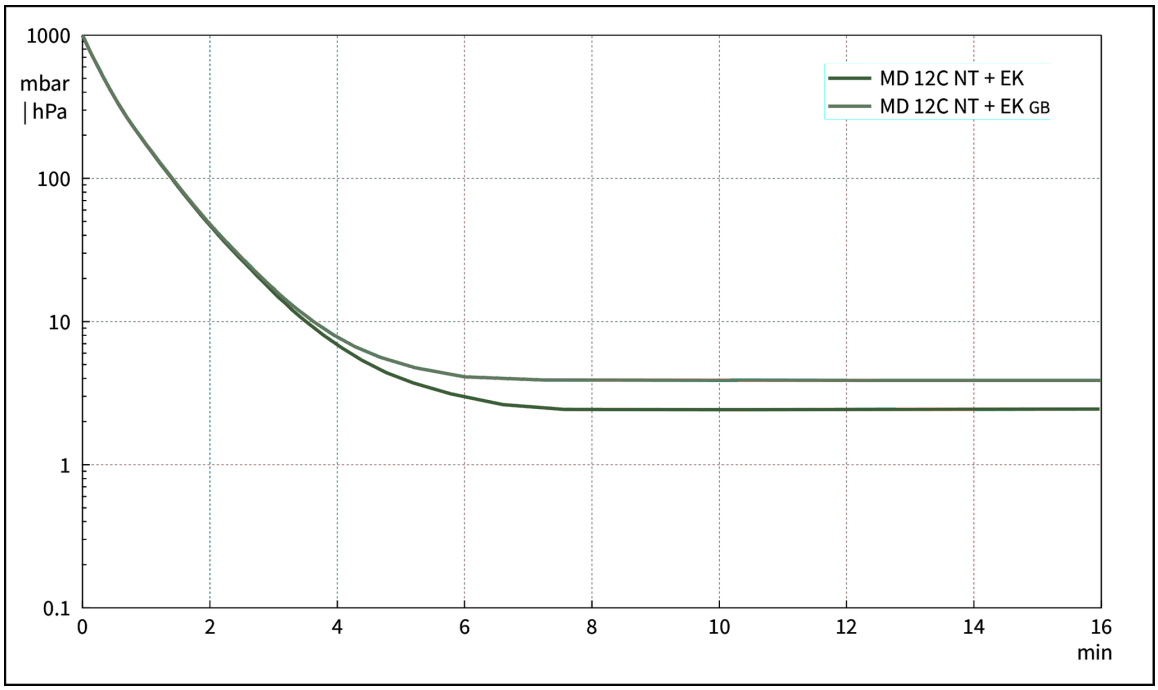
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## Pumping speed graph at 50 Hz




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

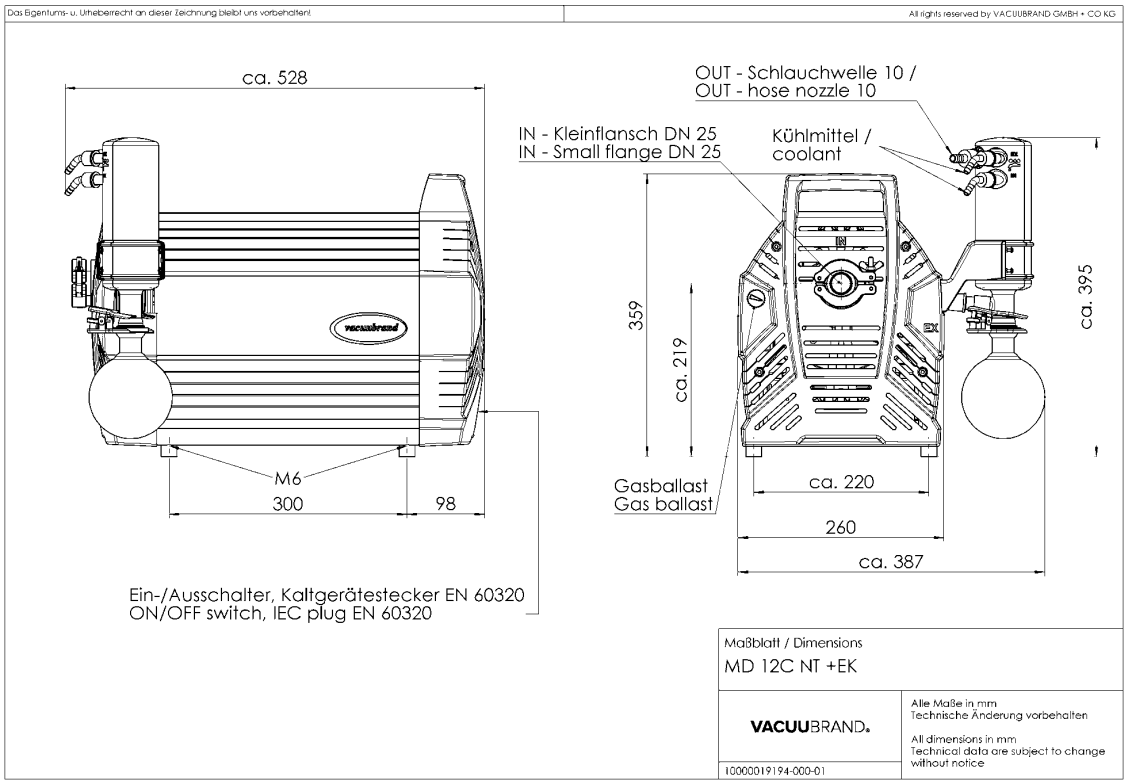



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## Dimension sheet







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VACUUBRAND

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