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/20743503

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
MD 12C NT +EK	100-120 V | 50-60 Hz	US	20743503

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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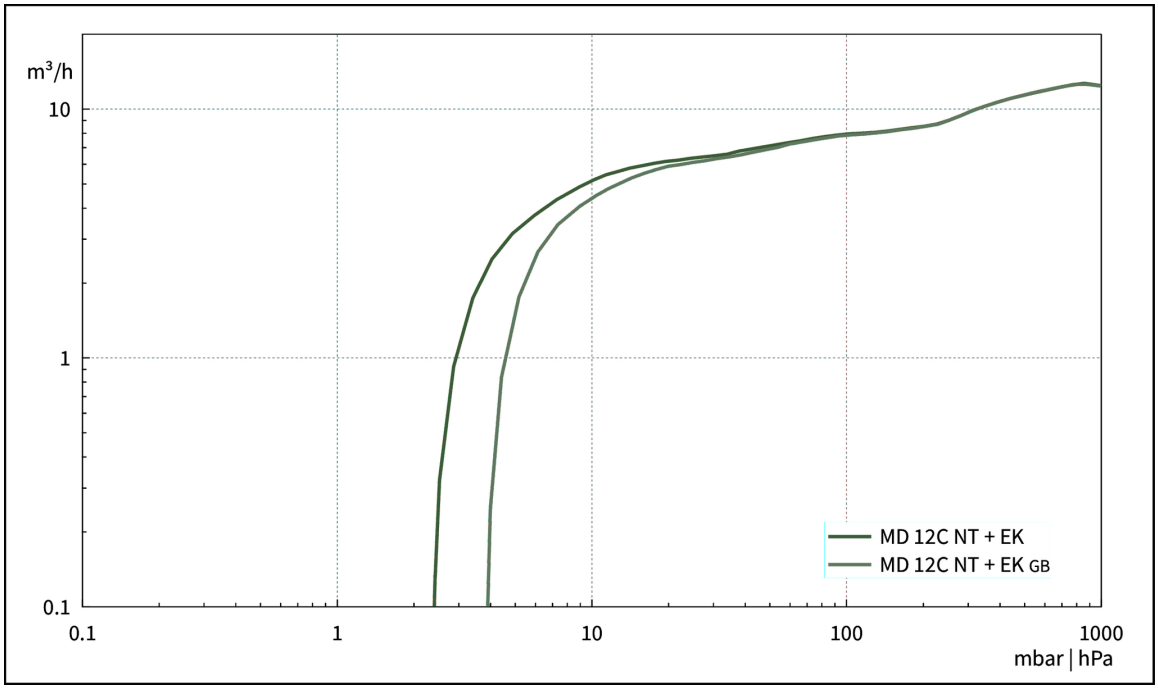
Technical data

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	28.5 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
NRTL certification	No

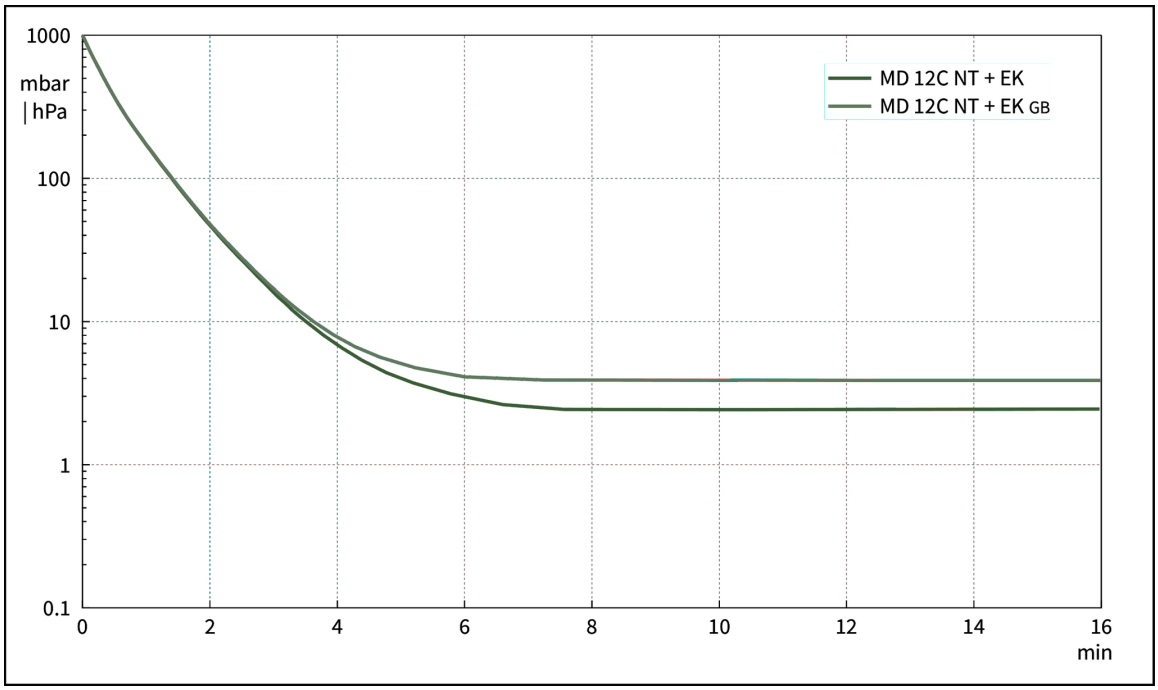
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Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (100 l volume)



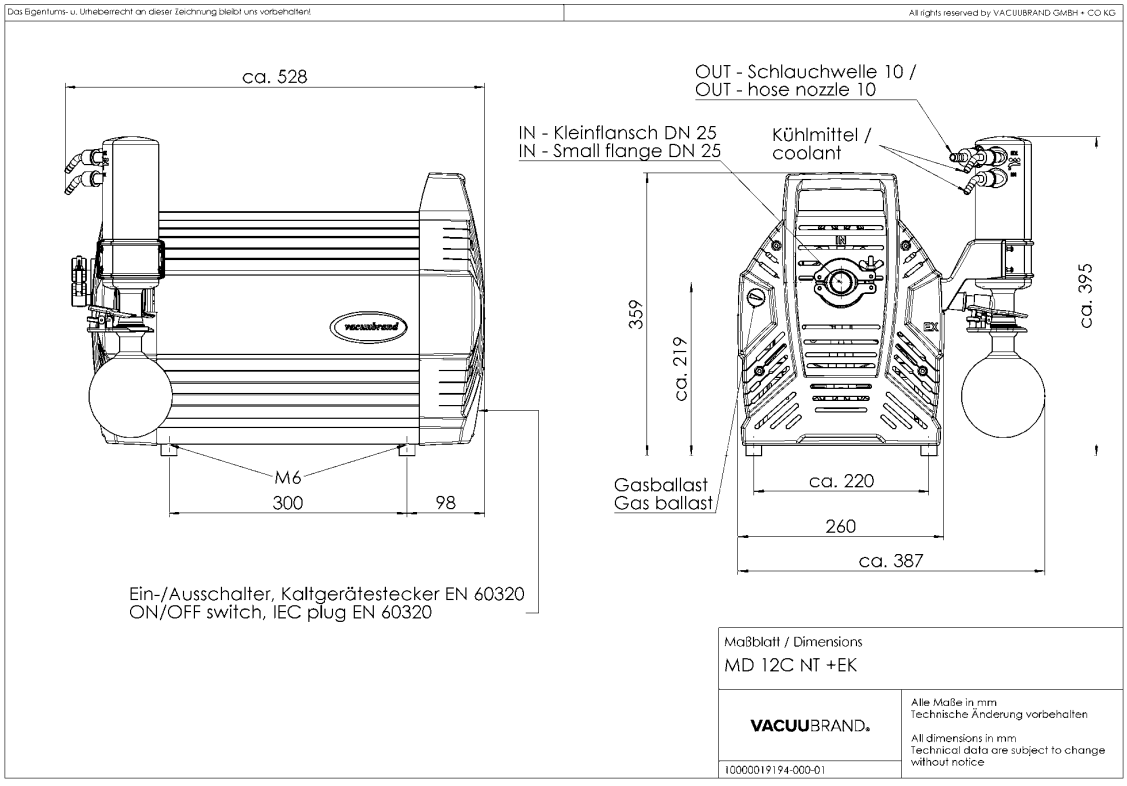
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Dimension sheet



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VACUUBRAND

VACUUBRAND is part of the Brand group, a manufacturer of high-quality and innovative laboratory equipment and vacuum technology with a global team of approx. 1,000 employees.

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:
Enabling our customers to run reliable, safe and efficient processes. This is why we commit ourselves to continuous innovation, first-class performance, and outstanding quality.

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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