

## Chemistry diaphragm pump MD 12C NT

Order no.: 20743300

Three-stage chemistry diaphragm pumps are an excellent solution for continuous, oil-free pumping of corrosive gases and vapors and meet the highest requirements. The three-stage design of the eight-cylinder MD 12C NT pump provides the advantageous combination of high pumping speed and very low ultimate vacuum. All internal parts in contact with pumped media are made of chemically resistant fluoroplastics. Well-proven PTFE sandwich diaphragms provide increased reliability and extended operating life. With its gas ballast valve the MD 12C NT is optimally prepared for pumping easily condensable vapors, thanks to the very good ultimate vacuum even with open gas ballast valve also for high boiling solvents. Upgrade kits such as inlet separator (AK) and exhaust vapor condenser (EK) enable a later adaptation to changed process requirements. Eight-cylinder NT pumps features quiet operation with smooth, easy-to-clean surfaces.



### Performance features

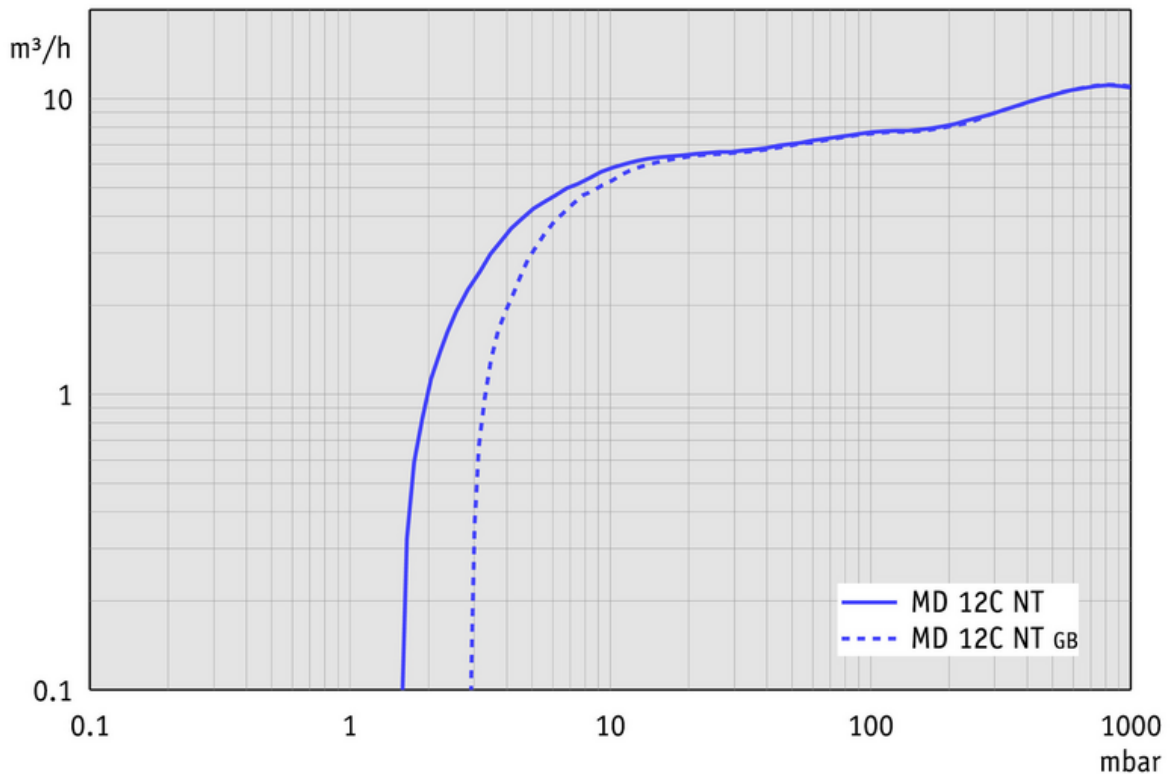
- outstanding chemical resistance and superior vapor tolerance
- reduced process time due to particularly high pumping speed even near ultimate vacuum
- whisper quiet and very low vibration
- very good ultimate vacuum even with open gas ballast valve for condensate purge
- long diaphragm lifetime, maintenance-free drive system

### Technical data

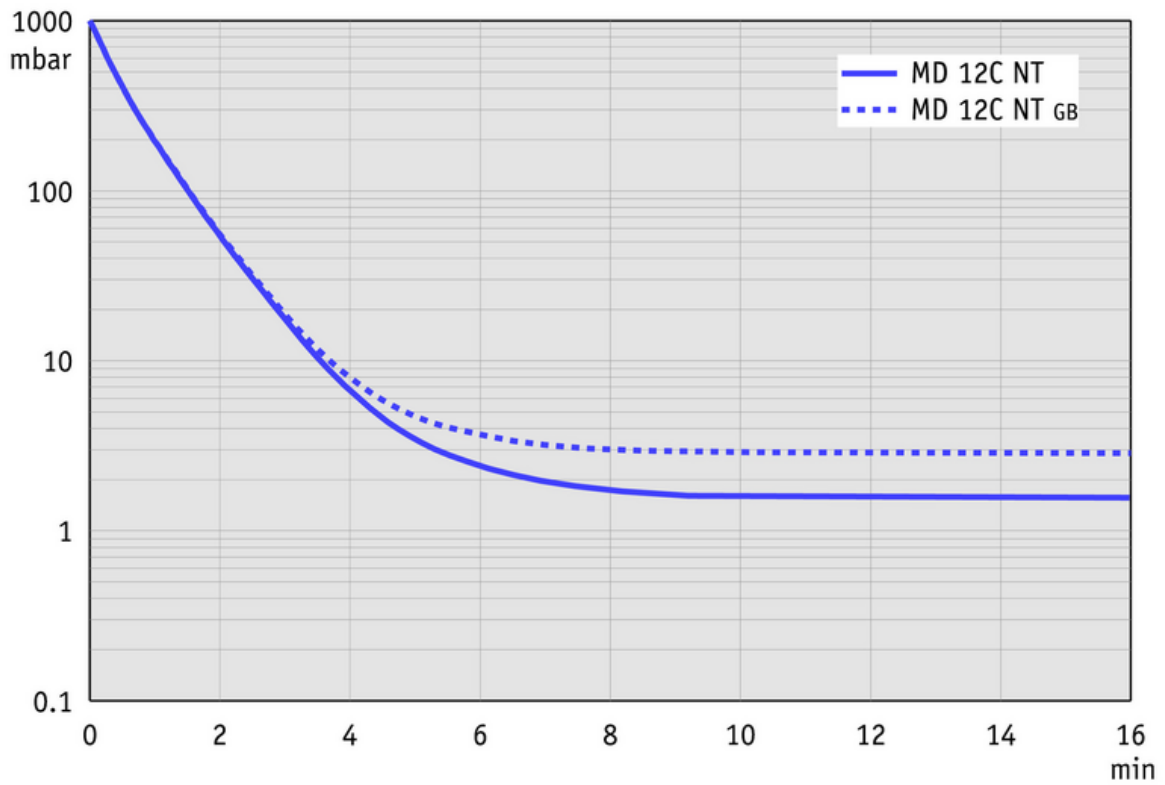
Number of heads / stages		8 / 3
Max. pumping speed at 50/60 Hz	m <sup>3</sup> /h	12.0 / 13.3
Max. pumping speed at 50/60 Hz	cfm	7.1 / 7.8
Ultimate vacuum (abs.)	mbar/torr	2 / 1.5
Ultim. vac. (abs.) with gas ballast	mbar/torr	4 / 3
Ambient temperature range (operation)	°C	10 - 40
Ambient temperature range (storage)	°C	-10 - 60
Max. back pressure (abs.)	bar	1.1
Inlet connection		small flange KF DN 25
Outlet connection		Hose nozzle DN 15 mm
Rated motor power	kW	0.44
Max. starting current	A	6.1A / 4s

Rated motor speed at 50/60 Hz	min <sup>-1</sup>	1500/1800
Protection class		IP 40
Dimensions (L x W x H), approx.	mm	533 x 260 x 359
Weight, approx.	kg	28.1
Noise level at 50 Hz, typ.	dBA	52
CE mark		Yes
ATEX conformity		II 3/- G IIC T3 X Internal Atm. only
Items supplied		Pump completely mounted, ready for use, with manual.
Accessories		PTFE tubing KF DN 25 (1000 mm: 20686033) Inlet separator KF DN 25 (20699979) Centering and sealing ring KF DN 25 C Al/FEP (20635722) Emission condenser kit for NT pump models (20699948)

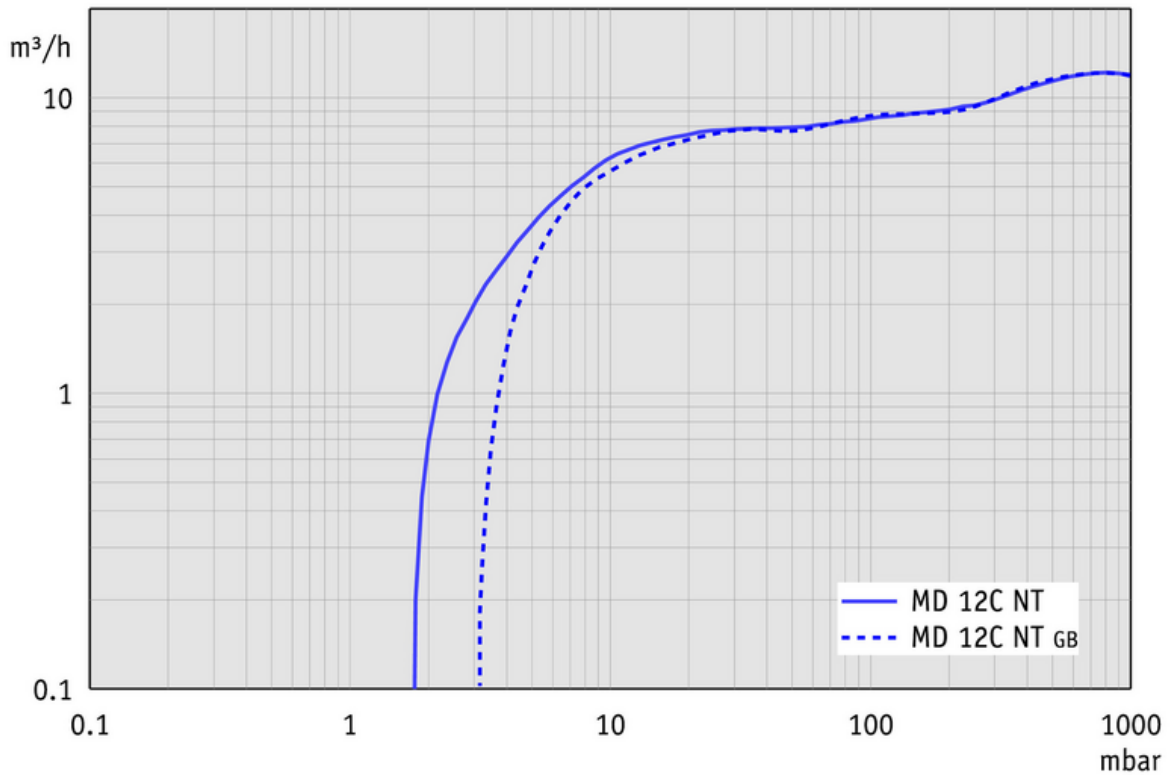
Pumping speed graph at 50 Hz



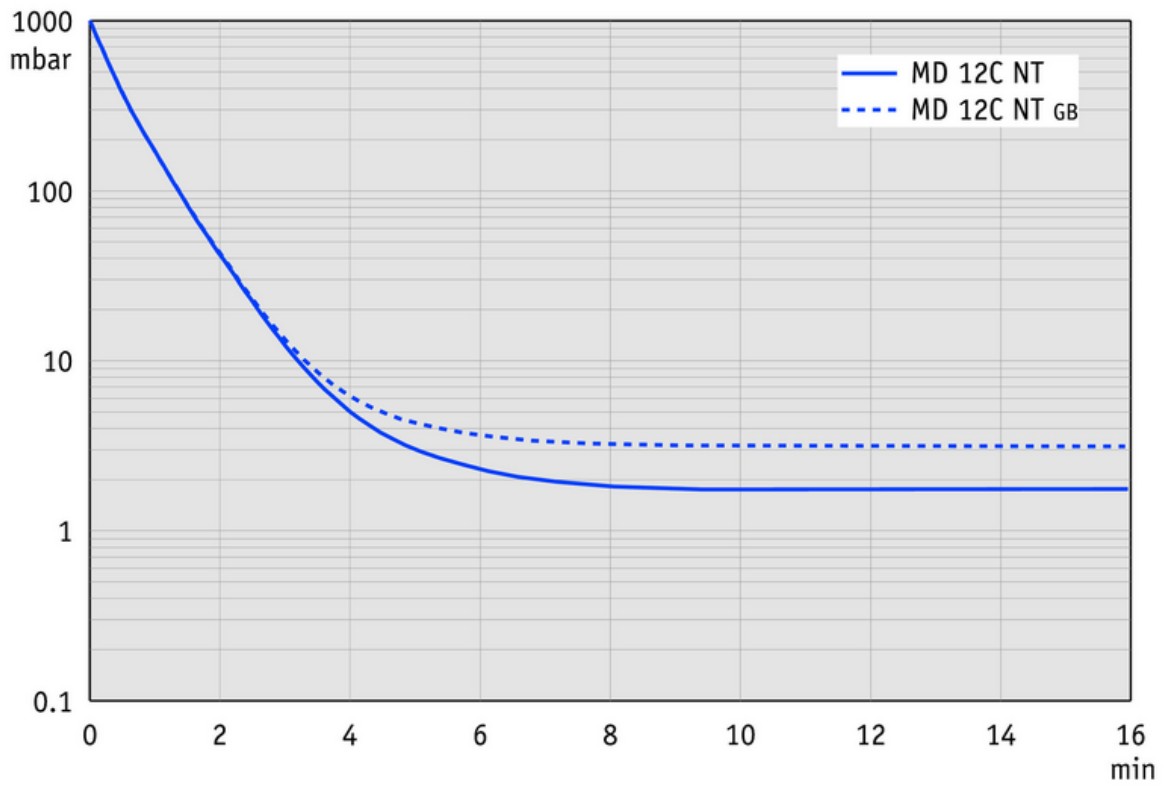
Pump down graph at 50 Hz  
(100 l volume)



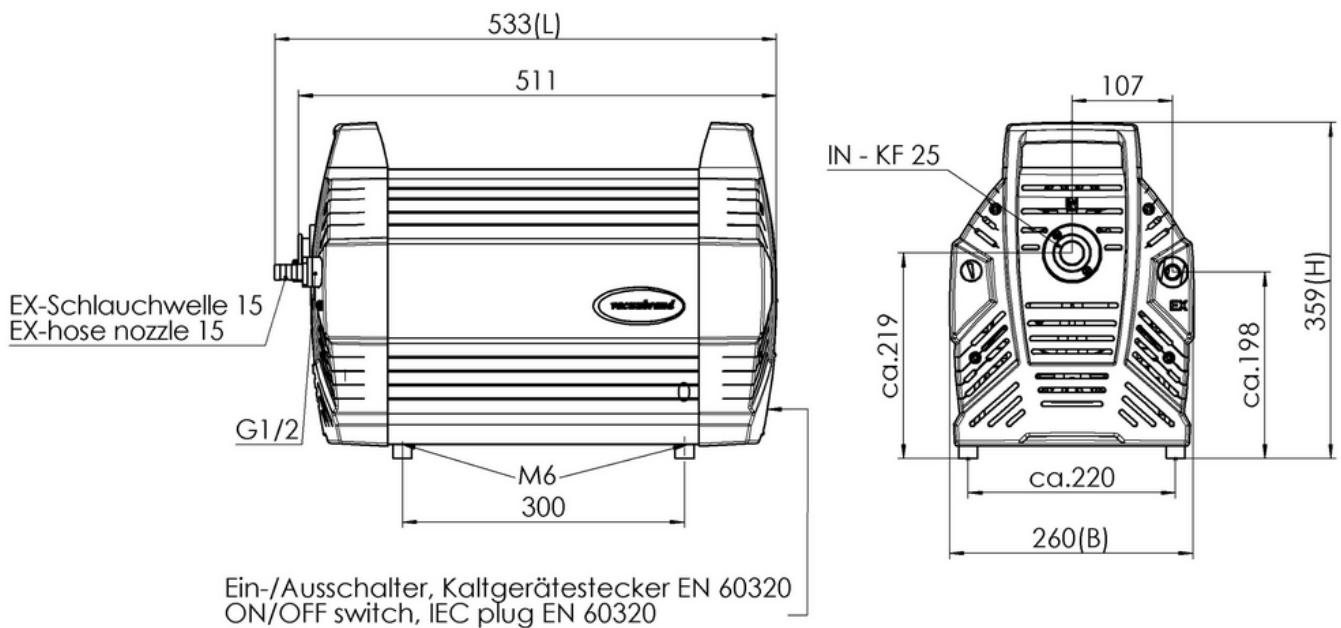
Pumping speed graph at 60 Hz



Pump down graph at 60 Hz  
(100 l volume)



### Dimension sheet



Gewicht / weight 28,1 kg  
Alle Maße / all dimensions (mm)

VACUUBRAND ME 16C NT, MD 12C NT, MV 10C NT  
Version 2012/04/20

## Ordering data

<b>Product name</b>	<b>Mains voltage and frequency</b>	<b>Plug</b>	<b>Order no.</b>
MD 12C NT	230 V~ 50-60 Hz	CEE	20743300