

# Chemistry vacuum system MD 4C NT +2AK

[Link to the website](#)

## Product description

This chemistry vacuum system has a wide range of applications like evacuation, evaporation and pumping of gases and vapors in chemical, biological and pharmaceutical laboratories that do not require condensation of solvent vapors at the outlet. This system is well proven for high vacuum requirements with high boiling solvents. Typical applications are vacuum concentrators, rotary evaporators and drying ovens. The separator at the inlet (AK), made of glass with a protective coating, retains particles and liquid droplets. The catchpot at the outlet collects condensate, avoids condensate backflow towards the pump and reinforces the whisper-quiet operation of the pump.

## Performance features

- outstanding chemical resistance and superior vapor tolerance
- exceptionally high performance even at low vacuum
- excellent ultimate vacuum even with gas ballast
- whisper quiet and very low vibration
- separators at inlet and outlet to collect condensates

## Ordering data

Product name	Nominal mains voltage   mains frequency	Plug type	Articleno.
MD 4C NT +2AK	230 V   50-60 Hz	CEE	20736600
MD 4C NT +2AK	100-115 V   50-60 Hz 120 V   60 Hz	US	20736603

## Items supplied

Pumping unit completely mounted, ready for use, with manual.

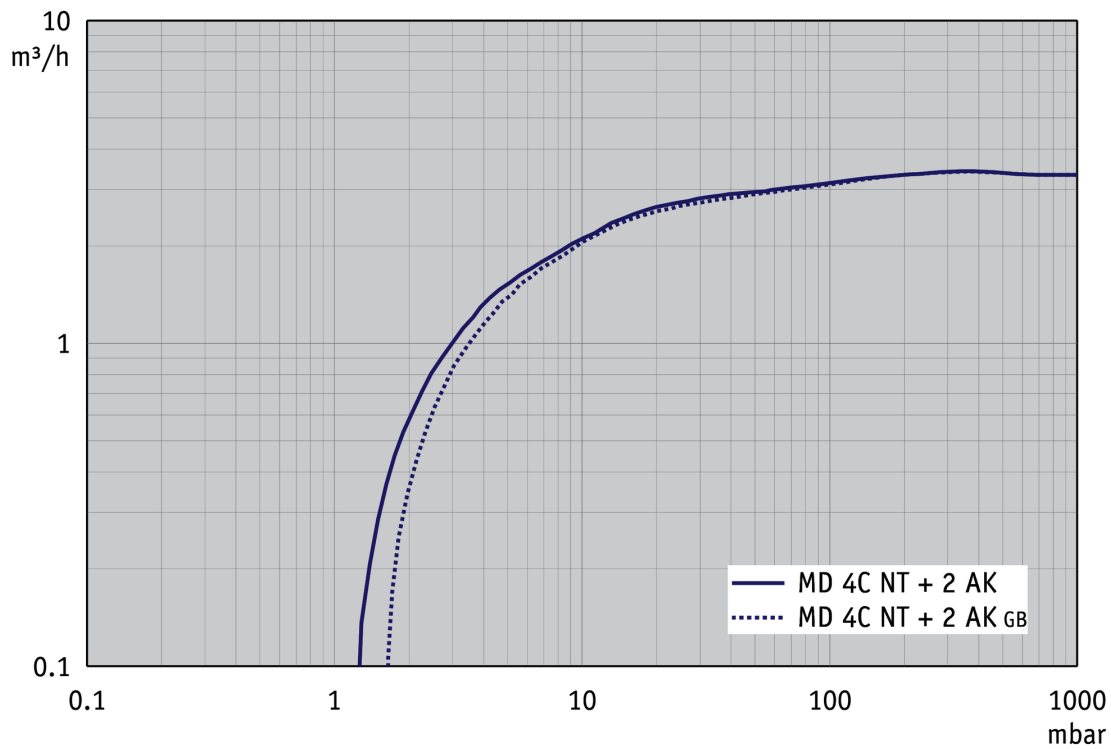
## Accessories

- Silencer with hose 5cm DN 8-10mm (20636588)
- Adjustable elbow DN 10/8 mm (20637873)
- Rubber vacuum tubing DN 8 mm (20686001)
- Silencer with hose 5cm DN 8-10mm (20636588)
- Rubber vacuum tubing DN 8 mm (20686001)
- Set of diaphragms and valves MD 4C NT/VARIO / PC 3003 / PC 3004 (20696870)

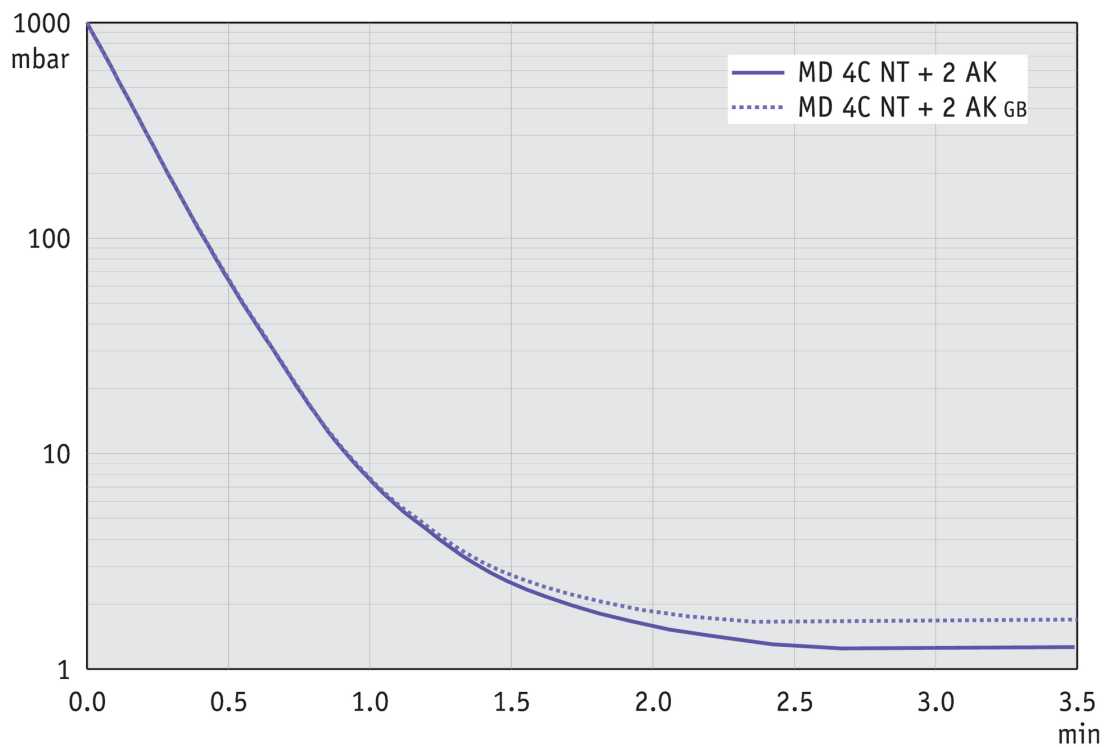
## Technical data

Max. pumping speed 50 Hz (mbar)	3.4 m <sup>3</sup> /h
Max. pumping speed 60 Hz (cfm)	2.2 cfm
Ultimate vacuum	1.5 mbar / 1.1 torr
Ultimate vacuum with gas ballast	3 mbar / 2.2 torr
Number of heads	4
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	Hose nozzle DN 8-10 mm
Outlet connection	Hose nozzle DN 8-10 mm
Rated motor power	0.25 kW
Rated speed 50/60 Hz	1500/1800 min <sup>-1</sup>
Protection class IEC 60529	IP 40
Dimensions (L x W x H)	319 mm x 243 mm x 374 mm
Weight	16.7 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	45 dBA
NRTL certification	Yes

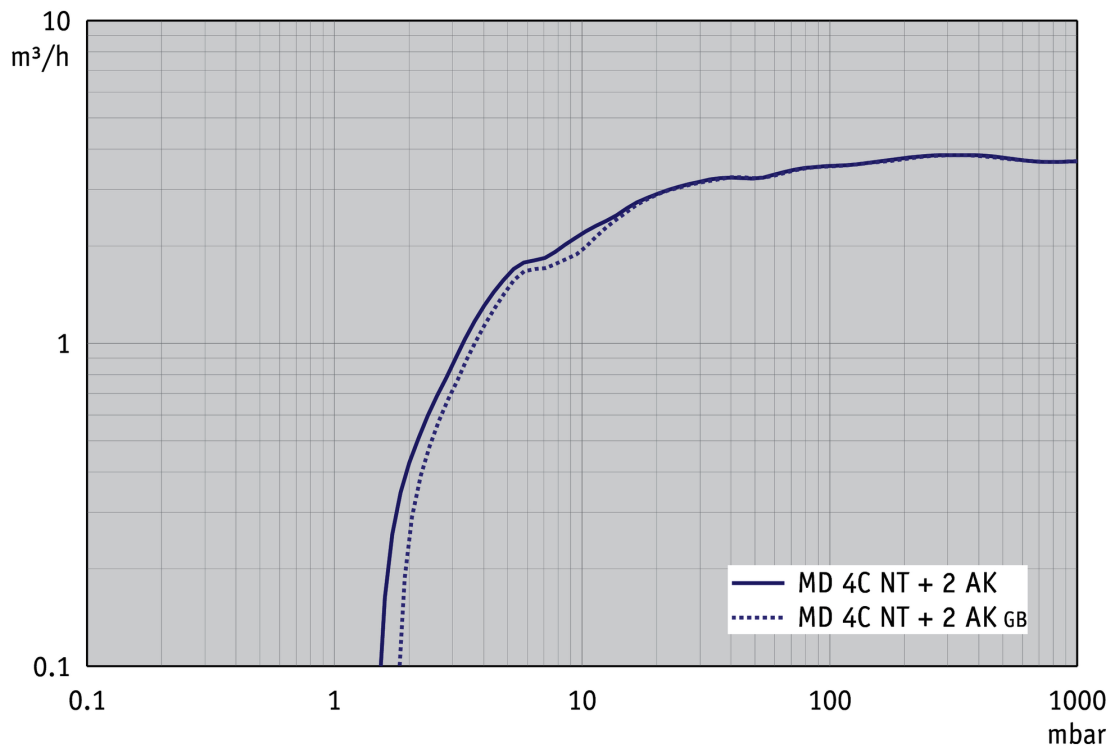
## Pumping speed graph at 50 Hz



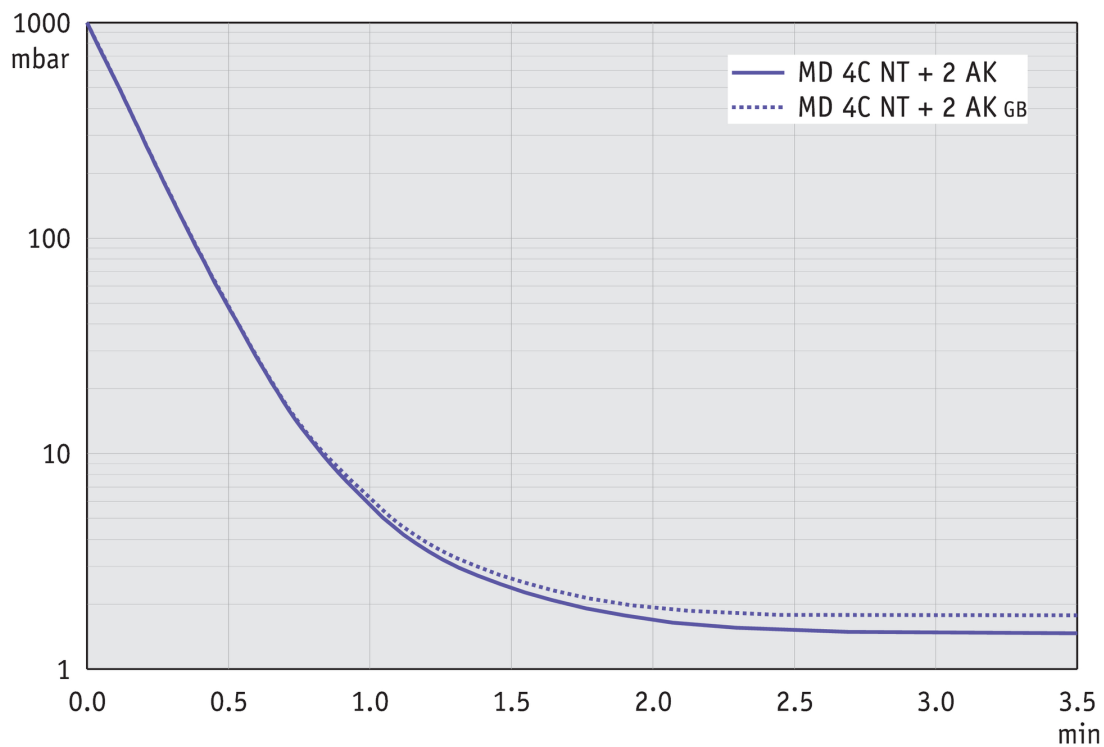
## Pump down graph at 50 Hz (10 l volume)



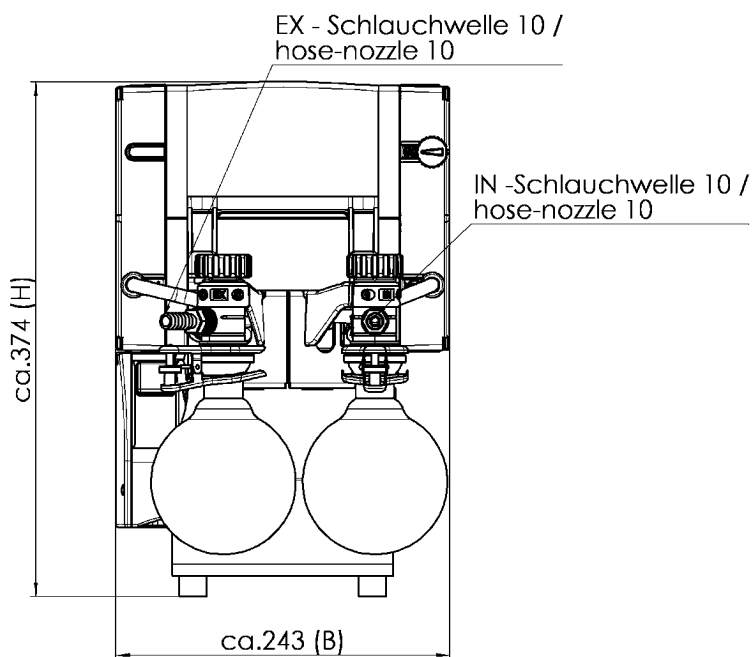
## Pumping speed graph at 60 Hz



## Pump down graph at 60 Hz (10 l volume)

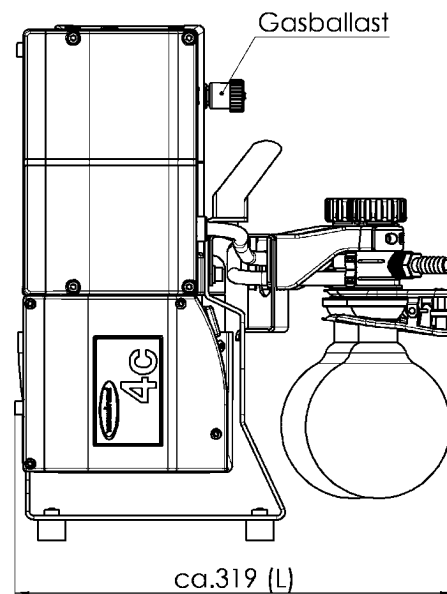


## Dimension sheet



Alle Maße / all dimensions (mm)

Gewicht / weight: 16,7 kg



VACUUBRAND MD 4C NT 2AK  
Version 2009/03/16

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