VACUUBRAND®

Chemistry diaphragm pump MD 4CRL NT



Link to the website

Product description

For applications requiring an especially high leak tightness of the pump, we recommend the MD 4CRL NT. The three-stage construction provides the advantageous combination of high pumping speed and very low ultimate vacuum. All major parts of the MD 4CRL NT in contact with pumped media are made of chemically resistant fluoroplastics or a special, highly corrosion-resistant stainless steel. Well-proven PTFE sandwich diaphragms provide increased reliability and extended operating life. Every single pump is tested for an integral leakage rate of 0.001 mbar l/s.

Performance features

- outstanding chemical resistance
- exceptionally high performance even close to the very low ultimate vacuum
- integral leakage rate 0.001 mbar l/s verified at every single pump
- whisper quiet and very low vibration
- long diaphragm life, maintenance-free drive system

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Link to the website:
https://shop.vacuubrand.com/20736445

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
MD 4CRL NT	200-230 V | 50-60 Hz 100-115 V | 50-60 Hz 120 V | 60 Hz	IEC plug EN 60320	20736445

Items supplied

Pump completely mounted, ready for use, with manual.

Accessories

- Silencer with hose 5cm DN 8-10mm (20636588)
- Vacuum tubing transparent DN 8 mm (20686061)
- Set of diaphragms and valves MD 4C NT/VARIO / PC 3003 / PC 3004 (20696870)
- Silencer with hose 5cm DN 8-10mm (20636588)
- Vacuum tubing transparent DN 8 mm (20686061)
- Set of diaphragms and valves MD 4C NT/VARIO / PC 3003 / PC 3004 (20696870)

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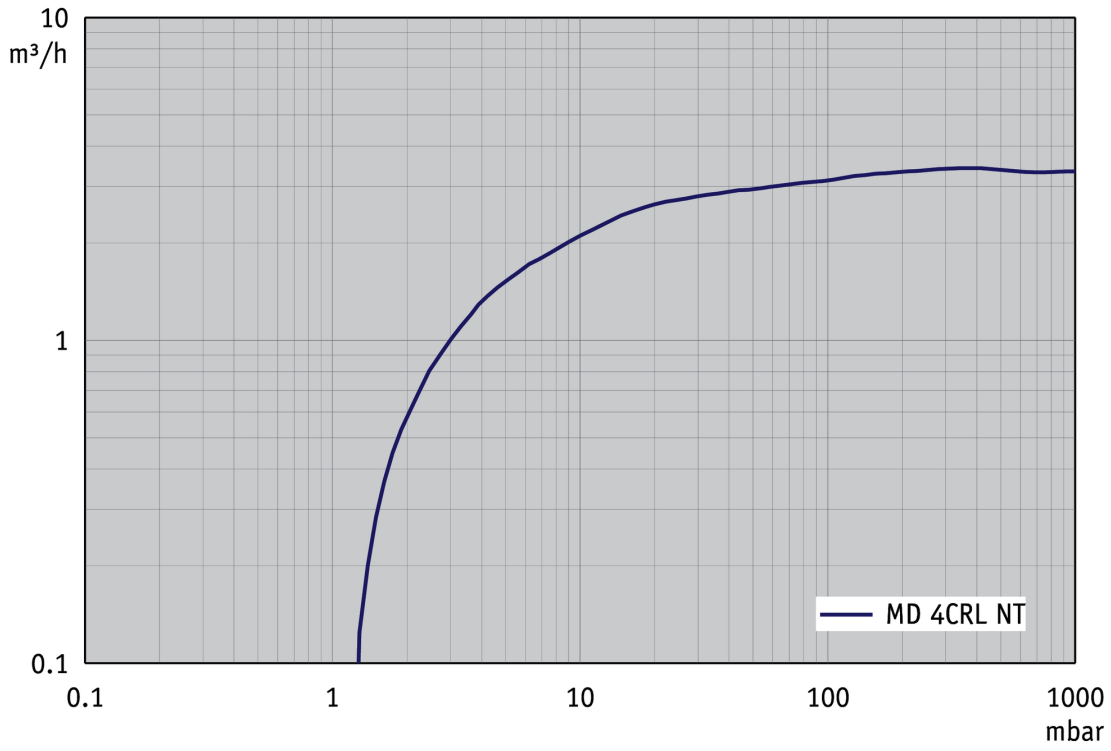
Technical data

Max. pumping speed 50 Hz (m^3/h)	3.4 m^3/h
Max. pumping speed 60 Hz (cfm)	2.2 cfm
Ultimate vacuum	1.5 mbar / 1.1 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	small flange KF DN 16
Outlet connection	small flange KF DN 16
Rated motor power	0.25 kW
Rated speed 50/60 Hz	1500/1800 min^{-1}
Protection class IEC 60529	IP 40
Dimensions (L x W x H)	325 mm x 243 mm x 198 mm
Weight	19.8 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
ATEX conformity	II 3/- G Ex h IIC T3 Gc X Internal Atm. only
NRTL certification	Yes

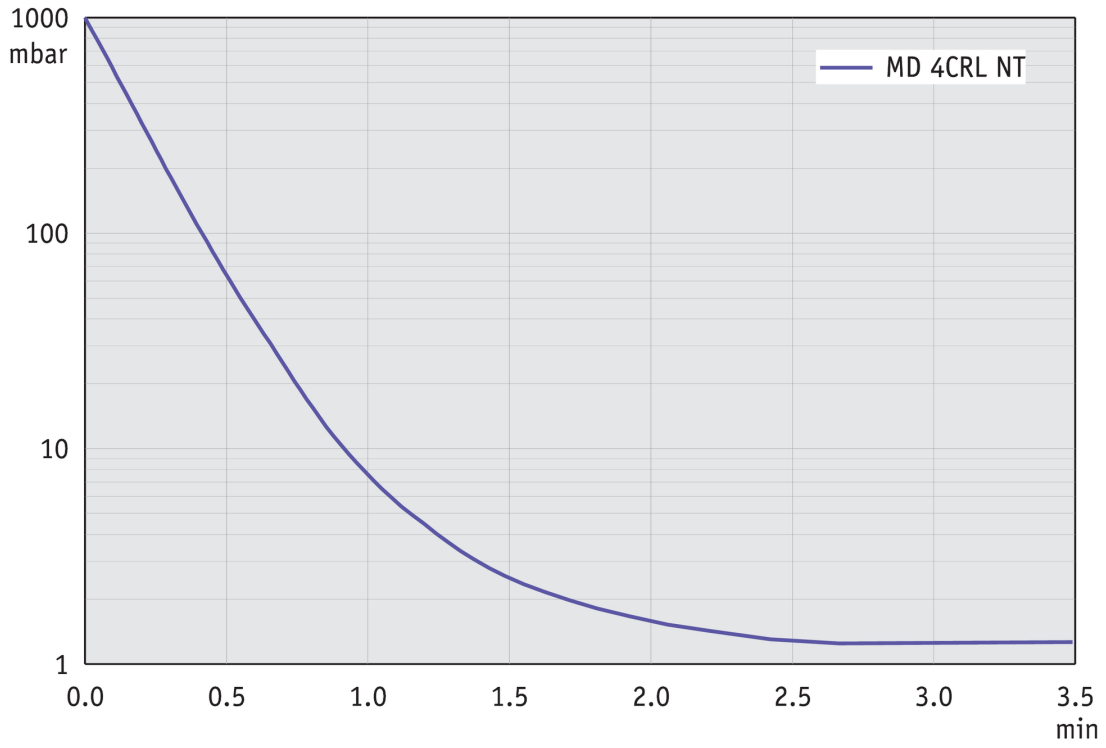
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Pumping speed graph at 50 Hz



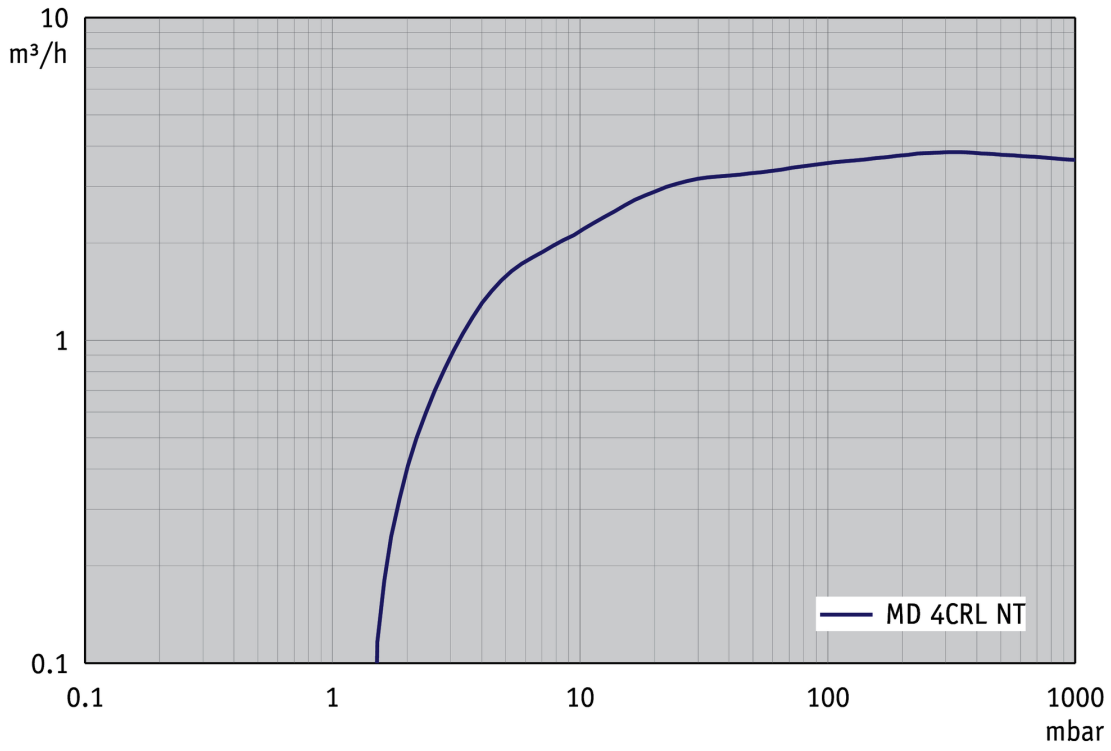
Pump down graph at 50 Hz (10 l volume)



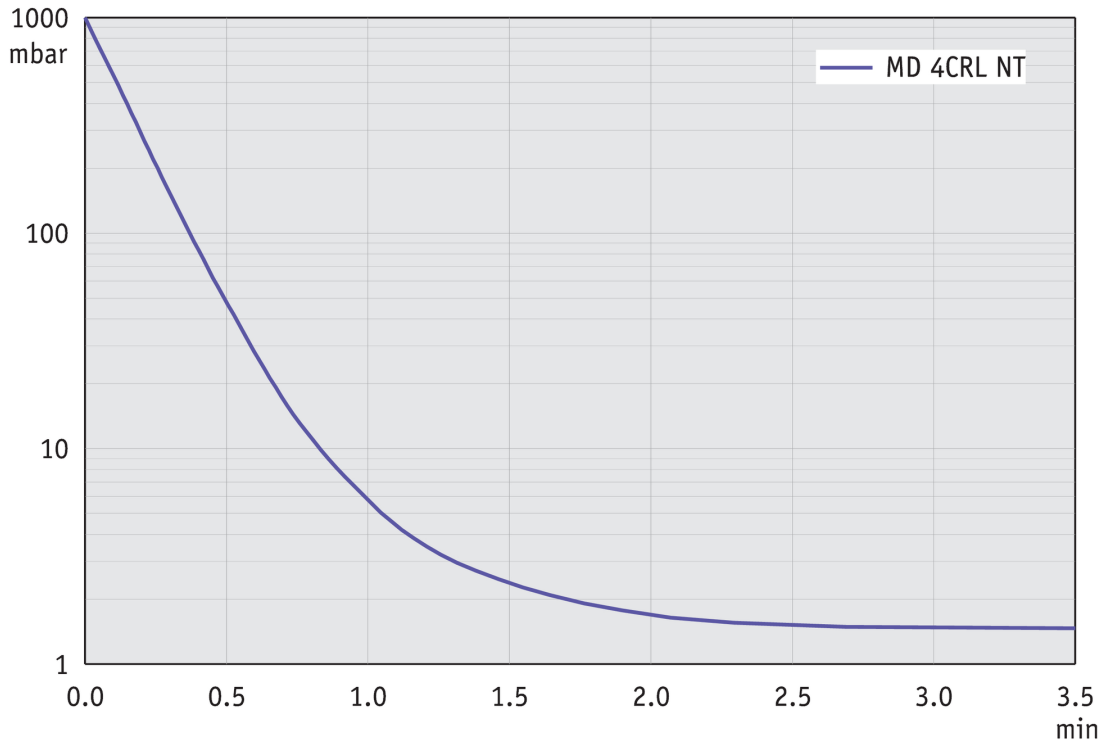
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Pumping speed graph at 60 Hz



Pump down graph at 60 Hz (10 l volume)

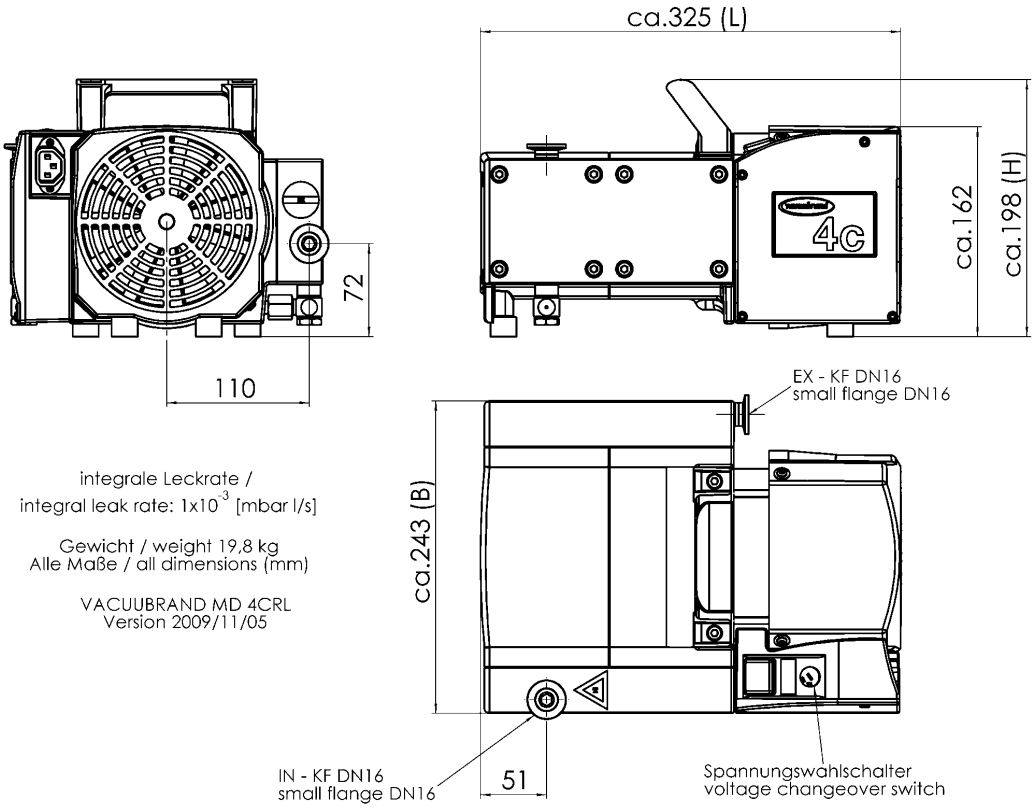


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Dimension sheet





integrale Leckrate /
integral leak rate: $1x10^{-3}$ [mbar l/s]

Gewicht / weight 19,8 kg
Alle Maße / all dimensions (mm)

VACUUBRAND MD 4CRL
Version 2009/11/05

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VACUUBRAND

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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.

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