Diaphragm pump MD 1



Link to the website

Product description

The MD 1 diaphragm pump is an excellent choice for oil-free evacuation and pumping of non-corrosive gases down to 1.5 mbar ultimate vacuum. The three-stage design with precisely guided flat diaphragms provides outstanding pumping speed even close to the ultimate vacuum, especially when compared with similarly rated two-stage diaphragm pumps. The MD 1 is an ultra-low vibration pump with very long diaphragm lifetime and stable ultimate vacuum documented with years of testing. With a flow path consisting of aluminum and selected plastics (diaphragms and valves made of PTFE/FKM and FKM, respectively) the pumps are suitable for a wide range of applications with non-corrosive gases.

Performance features

- contamination-free pumping and evacuation
- high flow rate even near ultimate vacuum
- excellent ultimate vacuum
- whisper quiet and ultra-low vibration
- proven long diaphragm life, maintenance-free drive system

Ordering data

Product name	Nominal mains voltage mains frequency	Plug type	Articleno.
MD 1	220-230 V 50-60 Hz 100-115 V 50-60 Hz	CH, CN	20696081

Items supplied

Pump completely mounted, ready for use, with manual.

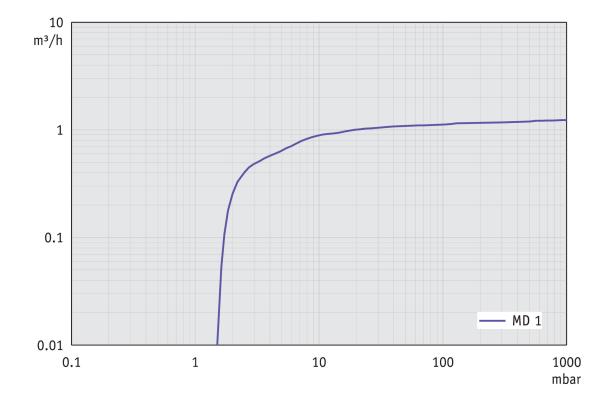
Accessories

• Rubber vacuum tubing DN 8 mm (20686001)

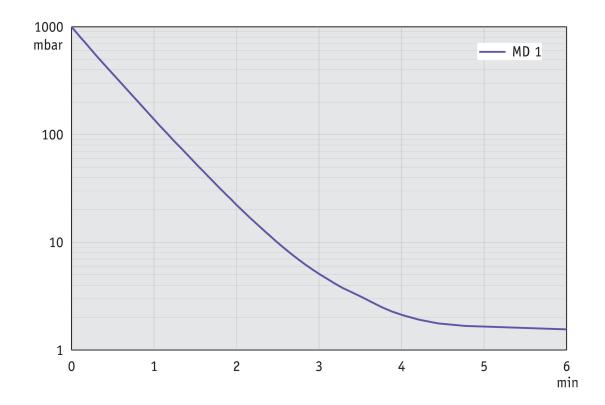
Technical data

Max. pumping speed 50 Hz (mbar)	1.2 m ³ /h	
Max. pumping speed 60 Hz (cfm)	0.82 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	Hose nozzle DN 6 mm	
Outlet connection	Silencer / G1/8"	
Rated motor power	0.08 kW	
Rated speed 50/60 Hz	1500/1800 min ⁻¹	
Protection class IEC 60529	IP 40	
Dimensions (L x W x H)	326 mm x 143 mm x 215 mm	
Weight	7.3 kg	
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	40 dBA	
ATEX conformity	II 3/- G Ex h IIC T3 Gc X Internal Atm. only	
NRTL certification	Yes	

Pumping speed graph at 50 Hz

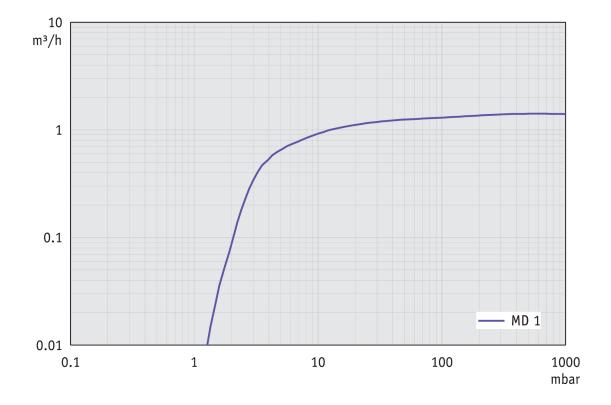


Pump down graph at 50 Hz (10 l volume)

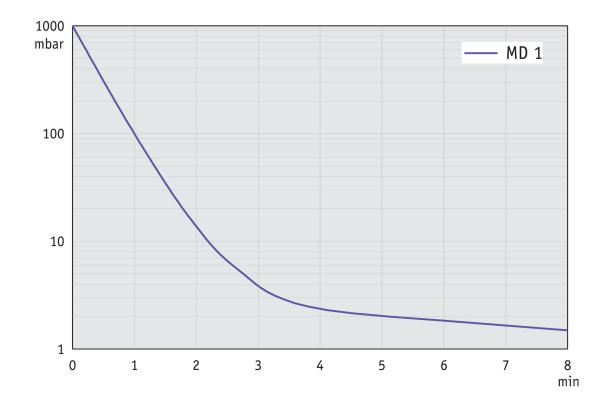


Technical data are subject to change without notice © VACUUBRAND GMBH + CO KG \mid 2024

Pumping speed graph at 60 Hz



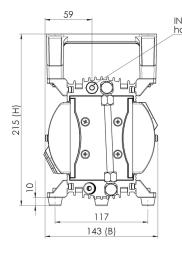
Pump down graph at 60 Hz (10 l volume)



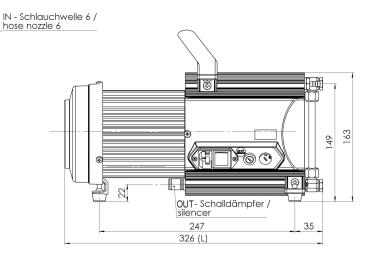
Technical data are subject to change without notice © VACUUBRAND GMBH + CO KG \mid 2024

Dimension sheet





Gewicht / weight ca. 7,3 kg Alle Maße / all dimensions [mm]



VACUUBRAND MD 1 Version 01 VACUUBRAND GMBH + CO KG P.O. Box 1664 97877 Wertheim T +49 9342 808 5550 F +49 9342 808 5555

info@vacuubrand.com www.vacuubrand.com

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.

VACUUBRAND®

BRAND (Shanghai) Trading Co., Ltd. Shanghai, China

T +86 21 6422 2318 info@brand.com.cn china.brand.com.cn BRAND Scientific Equipment Pvt. Ltd. Mumbai, India

T +91 22 42957790 customersupport@brand.co.in www.brand.co.in BRANDTECH[®] Scientific, Inc. Essex, CT. United States of America

T +1 860 767 2562 info@brandtech.com www.brandtech.com

