

DIAPHRAGM PUMP

MD 1

- 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 lifetimes documented with years of testing. With a flow path consisting of aluminum and selected plastics (diaphragms and valves made of PTFE/FPM and FPM respectively), the pumps are suitable for a wide range of applications with non-corrosive gases.

MD 1
1.2 m³/h
1.5 mbar

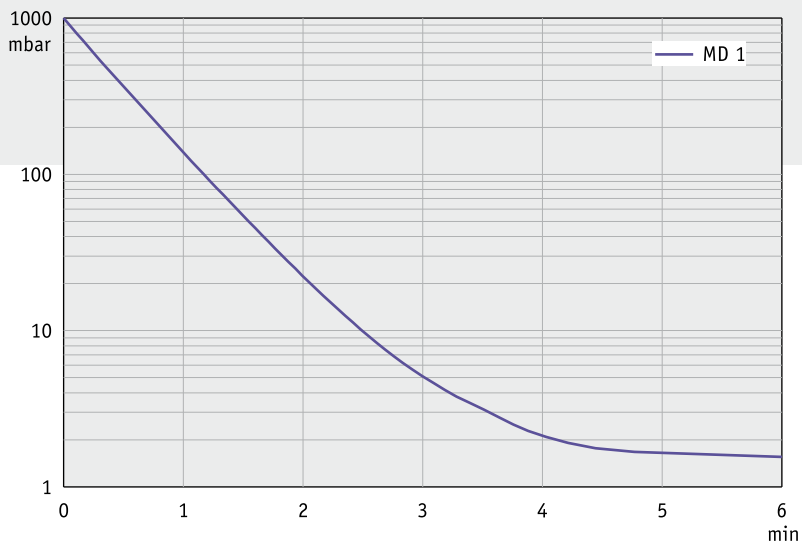
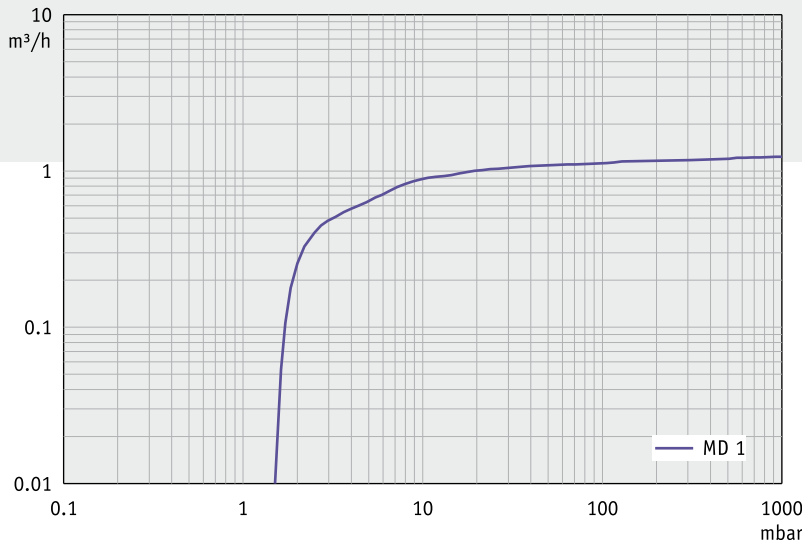


PERFORMANCE FEATURES

- 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

APPLICATIONS

The MD 1 is an excellent choice for continuous, oil-free evacuation and pumping of non-aggressive gases. With its low ultimate vacuum, the MD 1 is well-suited to applications in physics and analytics. The compact design and vacuum capacity make it an alternative to small rotary vane pumps for degassing of small amounts of viscous media, and as backing pump for compact turbomolecular drag pumps.



Pumping speeds and pump down times are only for information. Ultimate vacuum specification: See "Technical Data"

TECHNICAL DATA		MD 1
Number of heads / stages		4 / 3
Max. pumping speed at 50/60 Hz	m ³ /h	1.2/1.4
Ultimate vacuum (abs.)	mbar	1.5
Max. back pressure at outlet (abs.)	bar	1.1
Inlet connection (IN)		Hose nozzle DN 6 mm
Outlet connection (EX)		Silencer / G1/8"
Rated motor power	kW	0.08
Degree of protection		IP 44
Dimensions (L x W x H)	mm	303 x 143 x 163
Weight	kg	6.5

ORDERING INFORMATION		MD 1
200-230 V ~ 50-60 Hz	CEE	696080
200-230 V ~ 50-60 Hz	CH	696081
200-230 V ~ 50-60 Hz	UK	696082
100-120 V ~ 50-60 Hz	US	696083
120 V ~ 60 Hz*	US	696073
100-120 V ~ 50-60 Hz		
200-230 V ~ 50-60 Hz		
IEC plug EN 60320		696087
* With NRTL certification for Canada and the USA		

ACCESSORIES

Rubber vacuum tubing DN 6 mm (686000)

ITEMS SUPPLIED

Pump completely mounted, ready for use, with manual