

CHEMISTRY DIAPHRAGM PUMP

MD 1C

■ Three-stage chemistry-design diaphragm pumps are an excellent solution for continuous, oil-free pumping of corrosive gases and vapors and meet high requirements regarding ultimate vacuum. The three-stage construction provides the advantageous combination of high pumping speed and deep ultimate vacuum in a pump with a very small footprint. All parts in contact with pumped media are made of chemically resistant fluoroplastics. Well-proven PTFE sandwich diaphragms increase reliability and extend operating life. The MD 1C with gas ballast valve is optimally prepared for pumping easily condensable vapors (high boiling solvents).

PERFORMANCE FEATURES

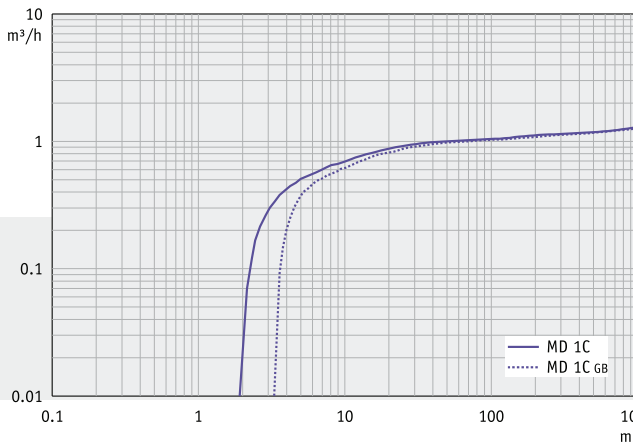
- outstanding chemical resistance and superior vapor tolerance
- exceptionally high performance even at low vacuum
- excellent ultimate vacuum even with gas ballast
- whisper quiet and ultra low vibration
- proven long diaphragm life, maintenance-free drive system



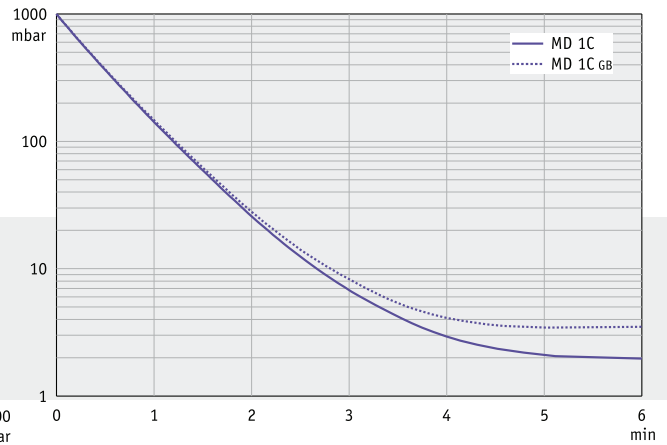
MD 1C
1.3 m³/h
2 mbar

APPLICATIONS

Three-stage chemistry diaphragm pumps are an excellent solution for applications involving corrosive gases and vapors at high vacuum requirements. Typical applications are vacuum generation at rotary evaporators, vacuum concentrators and many other laboratory applications. Due to their excellent ultimate vacuum they are the ideal solution for evaporation of high boiling solvents even with gas ballast. The MD 1C pump is the heart of a whole line of reliable chemistry pumping units.



Pumping speed graph at 50 Hz with/without gas ballast



Pump down graph at 50 Hz with/without gas ballast (10 l volume)

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

TECHNICAL DATA

		MD 1C
Number of heads / stages		4 / 3
Max. pumping speed 50/60 Hz	m ³ /h	1.3 / 1.5
Ultimate vacuum (abs.)	mbar	2
Ultim. vac. (abs.) with gas ballast	mbar	4
Max. back pressure (abs.)	bar	1.1
Inlet connection		Hose nozzle DN 8-10 mm
Outlet connection		Hose nozzle DN 8 mm
Rated motor power	kW	0.08
Degree of protection		IP 42
Dimensions (L x W x H), approx.	mm	316 x 143 x 175
Weight, approx.	kg	6.9

ORDERING INFORMATION

200-230 V ~ 50-60 Hz	CEE	Ex*	696600
200-230 V ~ 50-60 Hz	CH, CN	Ex*	696601
200-230 V ~ 50-60 Hz	UK	Ex*	696602
100-120 V ~ 50-60 Hz	US		696603
120 V ~ 60 Hz*	US		696613

*With NRTL certification for Canada and the USA

Ex*: ATEX: II 3G IIC T3 X, Internal Atm. only

ACCESSORIES

Rubber vacuum tubing DN 8 mm (686001)

ITEMS SUPPLIED

Pump completely mounted, ready for use, with manual.