

DIAPHRAGM PUMP

MZ 2 NT AND MZ 2D NT

■ Diaphragm pumps are an excellent solution for continuous, oil-free evacuation and pumping of gases. All parts in these MZ 2 series pumps that are in contact with pumped media are made of aluminum, stainless steel and selected plastics, allowing a wide range of applications for non-corrosive gases. The two-stage construction provides the advantageous combination of high pumping speed and an ultimate vacuum down to 4 mbar. The highly flexible fabric-reinforced double diaphragms made of FKM provide high reliability and extended operating life. The new NT-series features further improved performance data and compact design.

PERFORMANCE FEATURES

- contamination-free pumping and evacuation
- high flow rate even near ultimate vacuum
- good ultimate vacuum
- whisper quiet and very low vibration
- exceptionally long diaphragm life and maintenance-free drive system for low lifetime costs



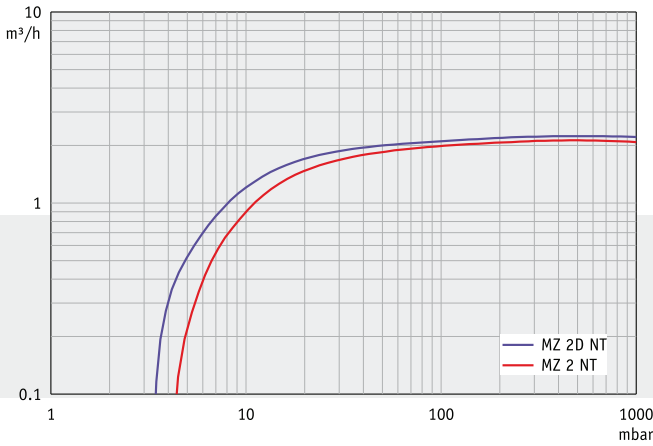
MZ 2D NT
2.3 m³/h
4 mbar



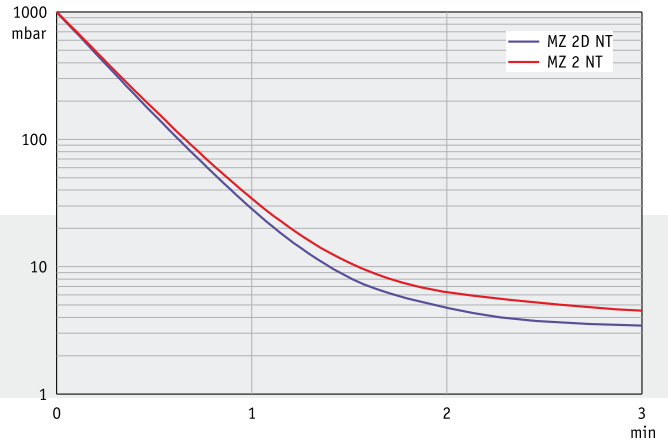
MZ 2 NT
2.2 m³/h
7 mbar

APPLICATIONS

Two-stage diaphragm pumps are an excellent choice for continuous, oil-free pumping at medium vacuum requirements. In contrast to water jet pumps, they do not consume water and therefore do not produce any contaminated waste water. Typical applications are vacuum ovens and aqueous filtrations. The MZ 2D NT is ideal as backing pump for turbomolecular drag pumps and for pumping down in helium cryostats due to its better ultimate vacuum.



Pumping speed graph at 50 Hz


 Pump down graph at 50 Hz
(10 l volume)

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

TECHNICAL DATA

		MZ 2 NT	MZ 2D NT
Number of heads / stages		2 / 2	2 / 2
Max. pumping speed at 50/60 Hz	m ³ /h	2.2 / 2.4	2.3 / 2.5
Ultimate vacuum (abs.)	mbar	7	4
Max. back pressure (abs.)	bar	2	1.1
Inlet connection		Hose nozzle DN 8-10 mm	Small flange KF DN 16
Outlet connection		Silencer / G1/4"	Silencer / G1/4"
Rated motor power	kW	0.18	0.18
Degree of protection		IP 40	IP 40
Dimensions (L x W x H), approx.	mm	243 x 239 x 198	243 x 242 x 198
Weight, approx.	kg	11.0	11.4

ORDERING INFORMATION MZ 2 NT

230 V ~ 50-60 Hz	CEE	Ex*	732000
230 V ~ 50-60 Hz	CH, CN	Ex*	732001
230 V ~ 50-60 Hz	UK	Ex*	732002
100-115 V ~ 50-60 Hz /			
120 V ~ 60 Hz	US		732003
100-115 V ~ 50-60 Hz / 120 V ~ 60 Hz		Ex*	
200-230 V ~ 50-60 Hz	IEC plug EN 60320		732005**

With NRTL certification for Canada and the USA

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

**Please order power cable separately

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ORDERING INFORMATION MZ 2D NT

230 V ~ 50-60 Hz	CEE	Ex*	732200
230 V ~ 50-60 Hz	UK	Ex*	732202
100-115 V ~ 50-60 Hz /			
120 V ~ 60 Hz	US		732203
100-115 V ~ 50-60 Hz / 120 V ~ 60 Hz		Ex*	
200-230 V ~ 50-60 Hz	IEC plug EN 60320		732205**

With NRTL certification for Canada and the USA

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ACCESSORIES MZ 2 NT

Small flange KF DN 16 / G1/4" (662590)

Rubber vacuum tubing DN 8 mm (686001)

ACCESSORIES MZ 2D NT

Stainless steel tubing KF DN 16 (1000 mm: 673336)

ITEMS SUPPLIED

Pump completely mounted, ready for use, with manual.