

## DIAPHRAGM PUMPS

### MZ 2 AND MZ 2C

#### MZ 2 two stage

..... 1.9 m<sup>3</sup>/h

..... 1.3 cfm

..... 37 l/min

..... 9 mbar

..... 6.8 Torr

#### MZ 2C two stage

..... 1.7 m<sup>3</sup>/h

..... 1.2 cfm

..... 33 l/min

..... 9 mbar

..... 6.8 Torr

The two stage diaphragm pumps MZ 2 and MZ 2C are well proven diaphragm pumps. The two stage configuration provides a favourable combination of high pumping speed and low ultimate vacuum down to 9 mbar. The well-proven design of motor, drive system and pump cylinders provides reliable performance and longevity. The MZ 2C is utilized in many chemistry pumping units (see pages 68-72) and can be customised step-by-step for different applications by supplementary modules (see page 89) .



MZ 2C

#### SPECIAL ADVANTAGES

- continuous oil free pumping of gases and vapours
- selected chemically resistant materials (MZ 2C)
- gas ballast valve for working with condensates (MZ 2C) as standard
- high pumping speed
- no water consumption, no waste water
- long lifetime, easy to change diaphragms and valves
- low noise level
- compact design

The choice between the two versions depends on the application:

#### Aluminium Version MZ 2:

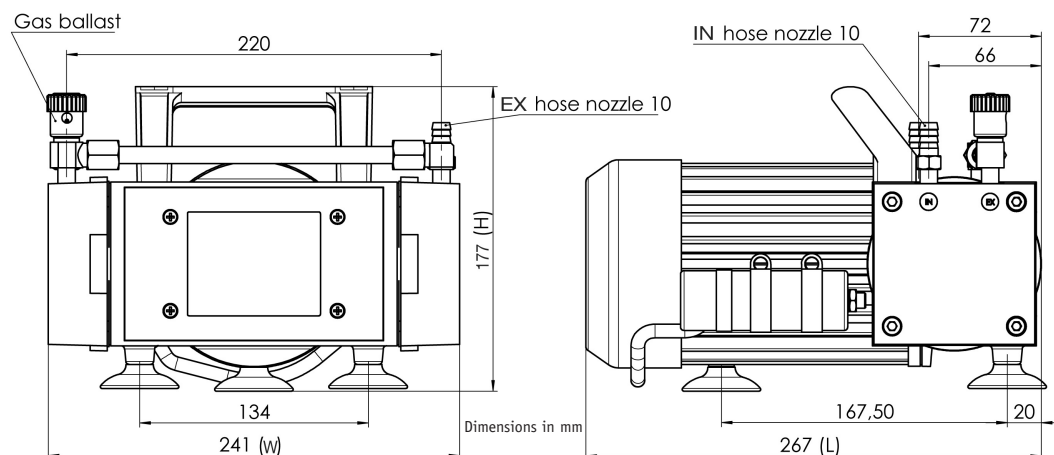
Gas contacting parts in aluminium, FPM (e. g. Viton®) and PE are designed for a multitude of applications of vacuum generation in laboratories and process plants for non-aggressive gases like vacuum filtration, vacuum degassing and vacuum impregnation.

#### Chemistry Version MZ 2C:

All parts of the chemistry version coming into contact with gases and vapours are made of chemically resistant fluorinated plastic materials. Typical applications are transfer of aggressive gases and vapours, rotary evaporation, gel drying, etc.



MZ 2

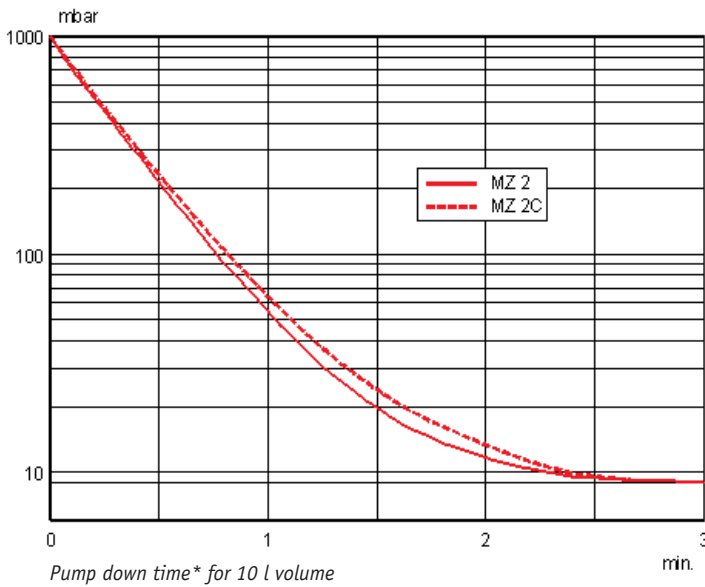
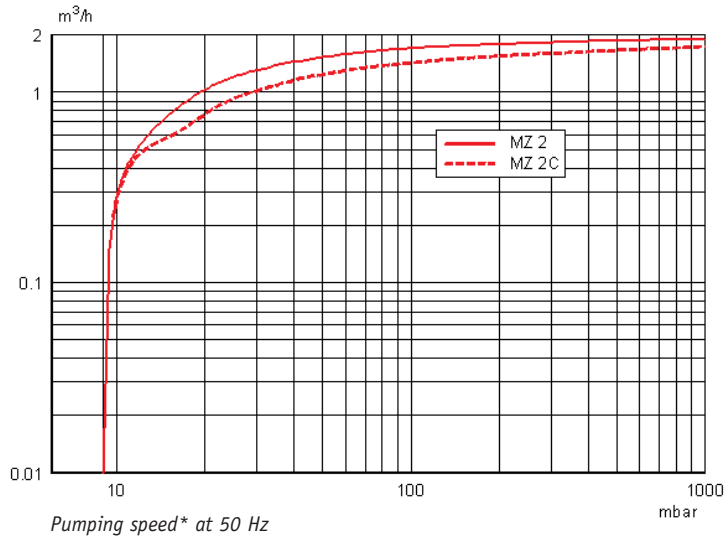


MZ 2C

- ! Chemistry diaphragm pump MZ 2C VARIO as well as chemistry pumping unit PC 2002 VARIO with vacuum control by rpm variation and higher pumping speed see pages 58-59 and page 93.

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 ..... **1.2** cfm  
 ..... **33** l/min  
 ..... **9** mbar  
 ..... **6.8** Torr

#### TECHNICAL DATA

		MZ 2	MZ 2C
Number of stages		2	2
Pumping speed (DIN 28432) 50/60 Hz	m <sup>3</sup> /h//cfm	1.9/2.2//1.3	1.7/2.0//1.2
No. of cylinders		2	2
Ultimate vacuum (total)	mbar//Torr	9//6.8	9//6.8
Ultimate vacuum with gas ballast	mbar//Torr	-	15//11
Max. pressure outlet (total)	bar	2	2
Inlet connection (IN)		hose nozzle NW 10	hose nozzle NW 10
Outlet connection (EX)		silencer	hose nozzle NW 10
Motor power	kW	0.18	0.18
Motor rpm. (nominal) 50/60 Hz	min <sup>-1</sup>	1500/1800	1500/1800
Degree of protection		IP 54	IP 54
Dimensions (L x W x H)	mm	264 x 235 x 177	267 x 241 x 177
Mass	kg	10.4	10.6

**Items supplied:** Diaphragm pump with on/off switch, cable, plug and instructions for use.

#### ORDERING INFORMATION

		MZ 2	MZ 2C
230 V ~ 50-60 Hz	plug CEE	69 62 40	69 62 41
230 V ~ 50-60 Hz	plug UK	69 62 47	69 62 65
120 V ~ 60 Hz	plug US	69 62 43	69 62 44
100 V ~ 50-60 Hz	plug US	-	69 62 54

\*Pumping speed and pump down time only for information. Ultimate pressure specification: see "Technical Data"