

DIAPHRAGM PUMPS

MV 10 AND MV 10C

vacuubrand

MV 10 four-stage

..... **8.1** m³/h

..... **5.2** cfm

..... **147** l/min

..... **0.6** mbar

..... **0.45** Torr

MV 10C four-stage

..... **7.0** m³/h

..... **4.4** cfm

..... **125** l/min

..... **0.9** mbar

..... **0.68** Torr

The four-stage diaphragm pumps MV 10 and MV 10C provide an unrivaled combination of high pumping speed and low ultimate vacuum. The pump design and configuration provide smooth and low-noise operation. They can be used in a wide range of applications, such as in chemistry and physics laboratories, up to pilot and small production plants.



MV 10C

SPECIAL ADVANTAGES

- Outstanding pumping speed even at low pressures due to precisely guided planar diaphragm
- Four-stage configuration for very low ultimate vacuum
- Selected chemically resistant materials (MV 10C)
- Continuous, oil-free pumping of gases and vapours
- Gas ballast valve for working with condensates as standard (MV 10C)
- Optimised lifetime of diaphragms and valves of approx. 10,000 h
- No water consumption, no waste water
- Easy-to-change diaphragms and valves
- Low noise level and vibration
- Compact design

The choice between the two basic designs depends on the application:

MV 10 "Aluminium"

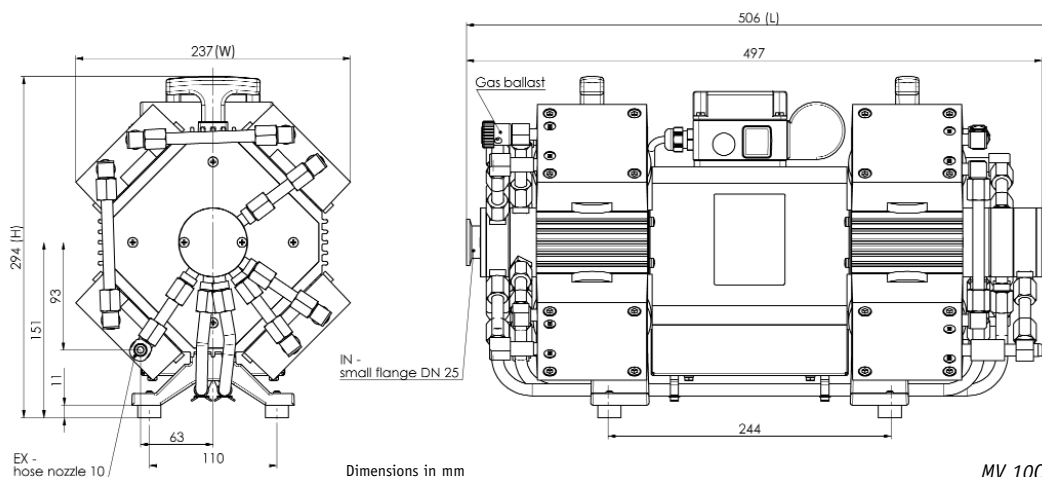
Gas-contacting parts made of e.g. aluminium, FPM and PE. Designed for a multitude of applications involving non-aggressive gases in laboratories and process plants, e.g. vacuum drying, vacuum impregnation, backing of cryo and large wide-range turbo pumps.

MV 10C "Chemistry"

All parts coming into contact with gases and vapours are made of chemically resistant fluoroplastics, e.g. PTFE and ETFE. Typical applications are the transfer of aggressive gases and vapours, large rotary evaporation, drying chambers, etc.



MV 10

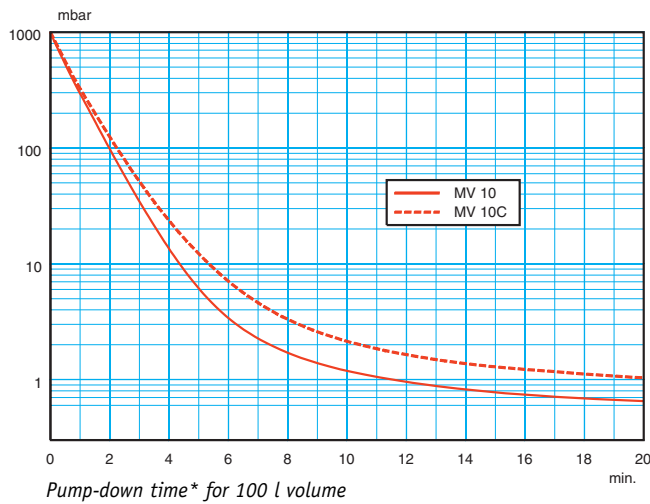
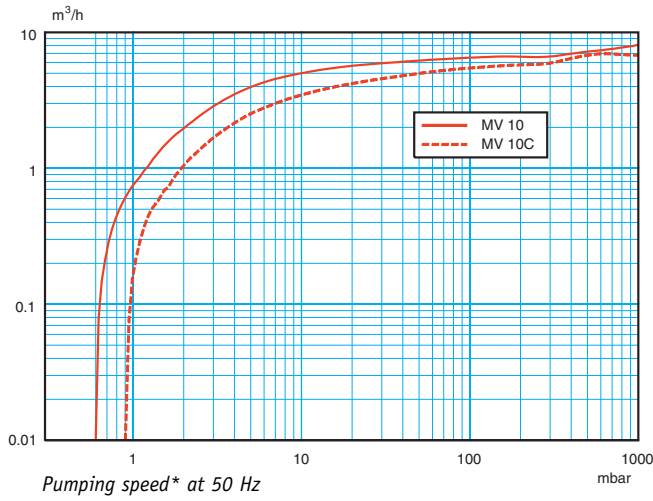


MV 10C



VARIO Chemistry Pumping Unit PC 2010 VARIO: see page 100

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TECHNICAL DATA

		MV 10	MV 10C
Number of stages		4	4
Max. pumping speed (DIN 28432) 50/60 Hz	m ³ /h//cfm	8.1/8.8//5.2	7.0/7.5//4.4
No. of cylinders		8	8
Ultimate vacuum (total)	mbar//Torr	0.6//0.45	0.9//0.68
Ultimate vacuum with gas ballast	mbar//Torr	-	9//6.8
Max. outlet pressure (total)	bar	1.1	1.1
Inlet connection (IN)		small flange NW 25	small flange NW 25
Outlet connection (EX)		hose nozzle NW 10/silencer	hose nozzle NW 10
Motor power	kW	0.39	0.39
Motor rpm (nominal) 50/60 Hz	min ⁻¹	1500/1800	1500/1800
Protection class		IP 20	IP 20
Dimensions (L x W x H)	mm	486 x 227 x 294	505 x 237 x 294
Mass	kg	24	25

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

ORDERING INFORMATION

		MV 10	MV 10C
230 V ~ 50-60 Hz	plug CEE	71 00 50	71 02 00
230 V ~ 50-60 Hz	plug CH	71 00 51	71 02 01
230 V ~ 50-60 Hz	plug UK	71 00 52	71 02 02
120 V ~ 60 Hz	plug US	71 00 53	71 02 03
100 V ~ 50-60 Hz	plug US	71 00 55	-

ACCESSORIES

Base module for chemistry pumping unit PC 8 (without pump) for MV 10 (C)	69 99 49
Separator inlet side AK PC 8, NW 25 for MV 10 (C)	69 99 80
PTFE vacuum tubing with small flange NW 25	see page 117



PTFE Vacuum Tubing

* Pumping speeds and pump-down times are only for information. Ultimate vacuum specification: see Technical Data.