

# Diaphragm pump ME 1

[Link to the website](#)

## Product description

Vacuum filtration is one of the most common applications used for sample preparation in chemistry, microbiology, waste water control and other analytical processes. The ME 1 diaphragm pump offers a compact, high performance and easy-to-use solution which is perfect for single port filtrations. These oil-free diaphragm pumps provide a well-proven and extraordinarily long diaphragm life time with typically 15,000 operating hours. The functional, space saving and innovative design with visible top mounted power switch ensures convenient and quick operation for day to day lab work. The PTFE diaphragm and valves are rugged and provide high chemical resistance. An optional manual regulator valve with dial gauge enables variable fine adjustment of the pumping speed and ultimate vacuum.

## Performance features

- convenient, quick and simple to use due to the new top mounted power switch
- whisper quiet and very low vibration
- requires minimal benchtop space
- maintenance-free drive system and proven long diaphragm life
- wetted materials: PTFE, aluminum

Ordering data

| Product name | Nominal mains voltage   mains frequency | Plug type | Articleno. |
|--------------|-----------------------------------------|-----------|------------|
| ME 1         | 220-230 V   50-60 Hz                    | CEE       | 20721000   |
| ME 1         | 220-230 V   50-60 Hz                    | CH, CN    | 20721001   |
| ME 1         | 220-230 V   50-60 Hz                    | UK, IN    | 20721002   |
| ME 1         | 100-115 V   50-60 Hz<br>120 V   60 Hz   | US        | 20721003   |

Items supplied

Pump completely mounted, ready for use, with manual.

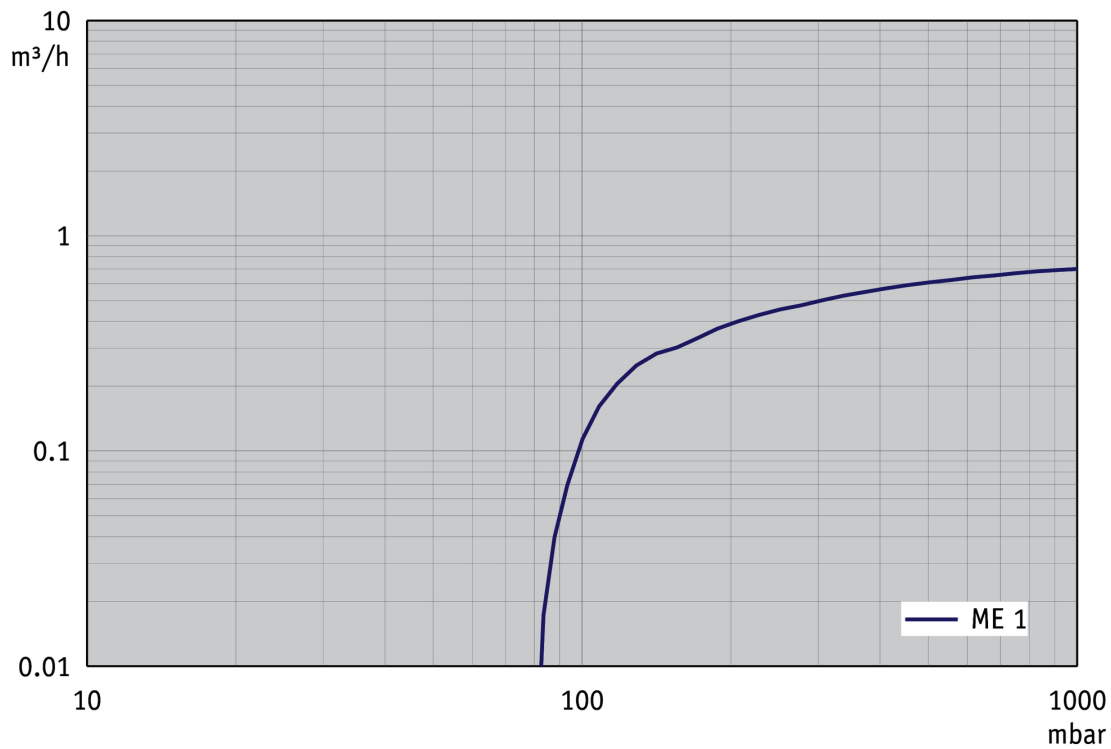
Accessories

- Vacuum tubing transparent DN 8 mm (20686061)
- Vacuum regulator valve unit ME 1 (20696842)
- Set of diaphragm and valves ME 1, ME 1C, VP 100, VP 100C (20696874)

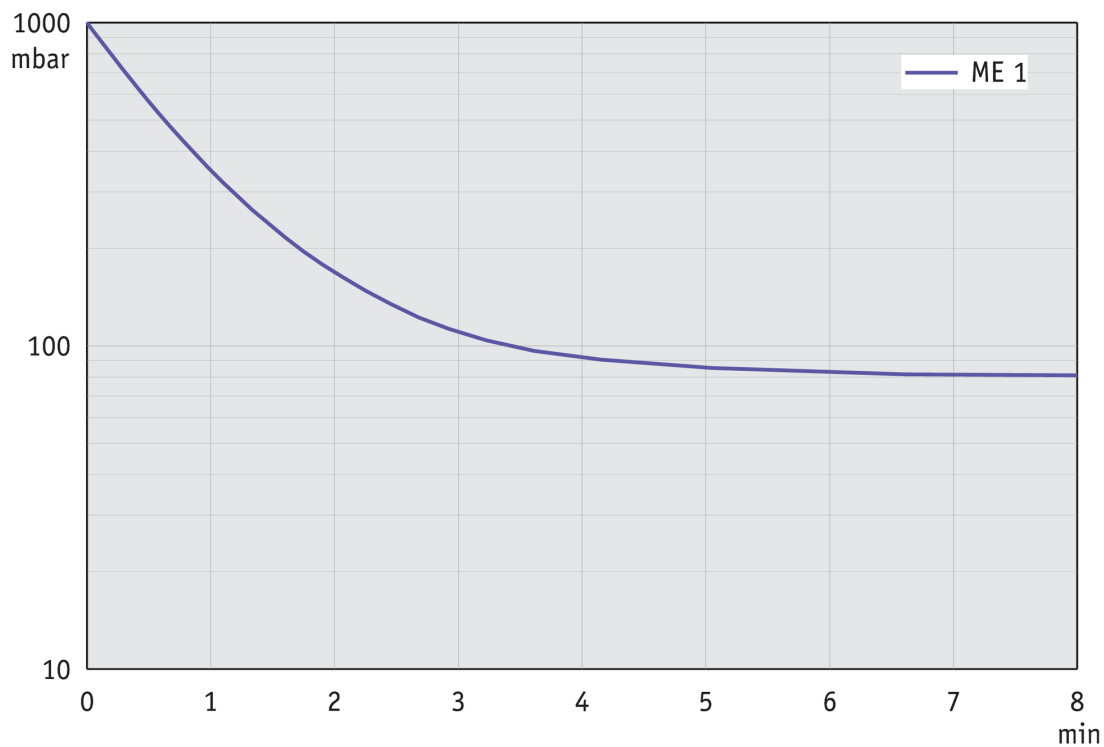
## Technical data

| Max. pumping speed 50 Hz (m <sup>3</sup> /h)                                                                     | 0.7 m <sup>3</sup> /h                        |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Max. pumping speed 60 Hz (cfm)                                                                                   | 0.5 cfm                                      |
| Ultimate vacuum                                                                                                  | 100 mbar / 75 torr                           |
| Number of heads                                                                                                  | 1                                            |
| Number of stages                                                                                                 | 1                                            |
| Permissible ambient temperature range (operation)                                                                | 10 - 40 °C                                   |
| Permissible ambient temperature range (storage)                                                                  | -10 - 60 °C                                  |
| Max. outlet pressure (abs.)                                                                                      | 1.1 bar                                      |
| Inlet connection                                                                                                 | Hose nozzle DN 6-10 mm                       |
| Outlet connection                                                                                                | Silencer / G1/8"                             |
| Rated motor power                                                                                                | 0.04 kW                                      |
| Rated speed 50/60 Hz                                                                                             | 1500/1800 min <sup>-1</sup>                  |
| Protection class IEC 60529                                                                                       | IP 40                                        |
| Dimensions (L x W x H)                                                                                           | 270 mm x 121 mm x 155 mm                     |
| Weight                                                                                                           | 5.4 kg                                       |
| Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®) | 49 dBA                                       |
| ATEX conformity                                                                                                  | II 3/- G Ex h IIC T3 Gc X Internal Atm. only |
| NRTL certification                                                                                               | Yes                                          |

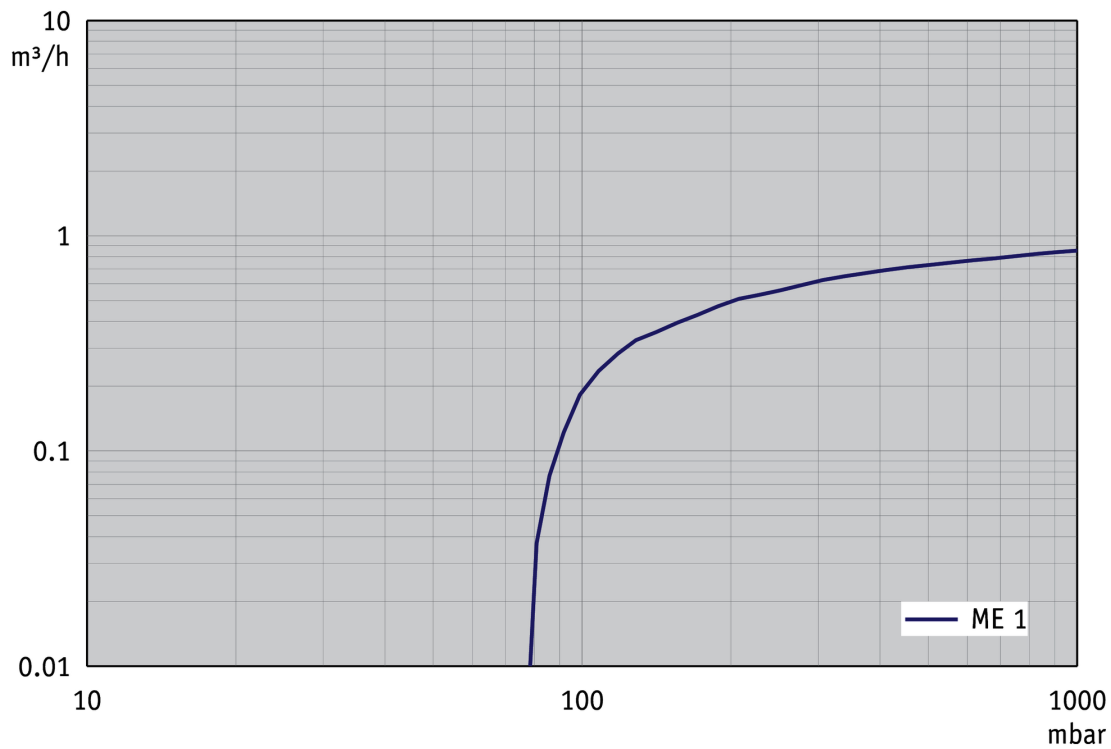
## Pumping speed graph at 50 Hz



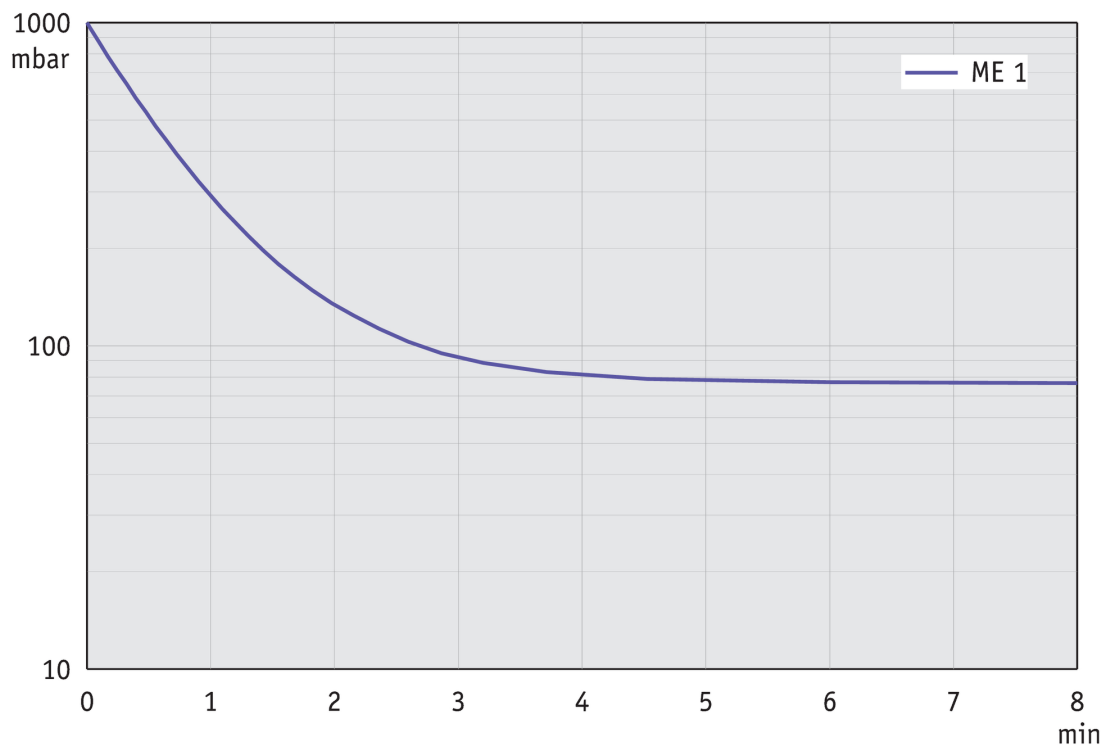
## Pump down graph at 50 Hz (10 l volume)



## Pumping speed graph at 60 Hz



## Pump down graph at 60 Hz (10 l volume)

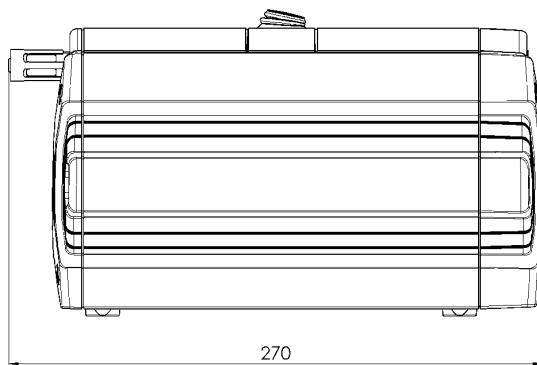


## Dimension sheet



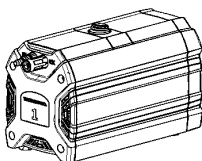
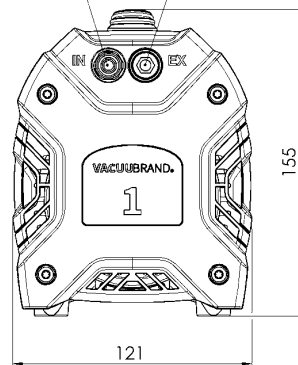
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IN - Schlauchwelle 6/10  
IN - Hose nozzle 6/10

OUT - Schalldämpfer  
OUT - Silencer



Maßblatt / Dimensions  
ME 1

**VACUUBRAND.**

Alle Maße in mm  
Technische Änderung vorbehalten

All dimensions in mm  
Technical data are subject to change  
without notice

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