VACUUBRAND®

# Chemistry diaphragm pump ME 1C




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 1C diaphragm pump offers a compact, high performance and easy-to-use solution which is perfect for single filtrations. This development, based on the highly successful technology of the oil-free diaphragm pump MD 1C, provides a well-proven and extraordinarily long diaphragm life time. The functional, space saving and innovative design with easily accessible, top-mounted power switch ensures convenient and quick operation for day-to-day lab work. Robust PTFE diaphragms and valves provide optimal chemical resistance. A manual vacuum regulator valve with dial gauge for adjustment of pumping speed and ultimate vacuum is available as accessory.

## 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
- high chemical resistance

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Link to the website:
https://shop.vacuubrand.com/20721101

## Ordering data

| Product name | Nominal mains voltage \| mains frequency | Plug type | Articleno. |
|---|---|---|---|
| ME 1C | 220-230 V \| 50-60 Hz | CH, CN | 20721101 |

## Items supplied

Pump completely mounted, ready for use, with manual.

## Accessories

- Set of diaphragm and valves ME 1, ME 1C, VP 100, VP 100C (20696874)
- Silencer with hose 5cm DN 8-10mm (20636588)
- Vacuum tubing transparent DN 8 mm (20686061)
- Chemistry vacuum regulator valve unit ME 1C (20696843)


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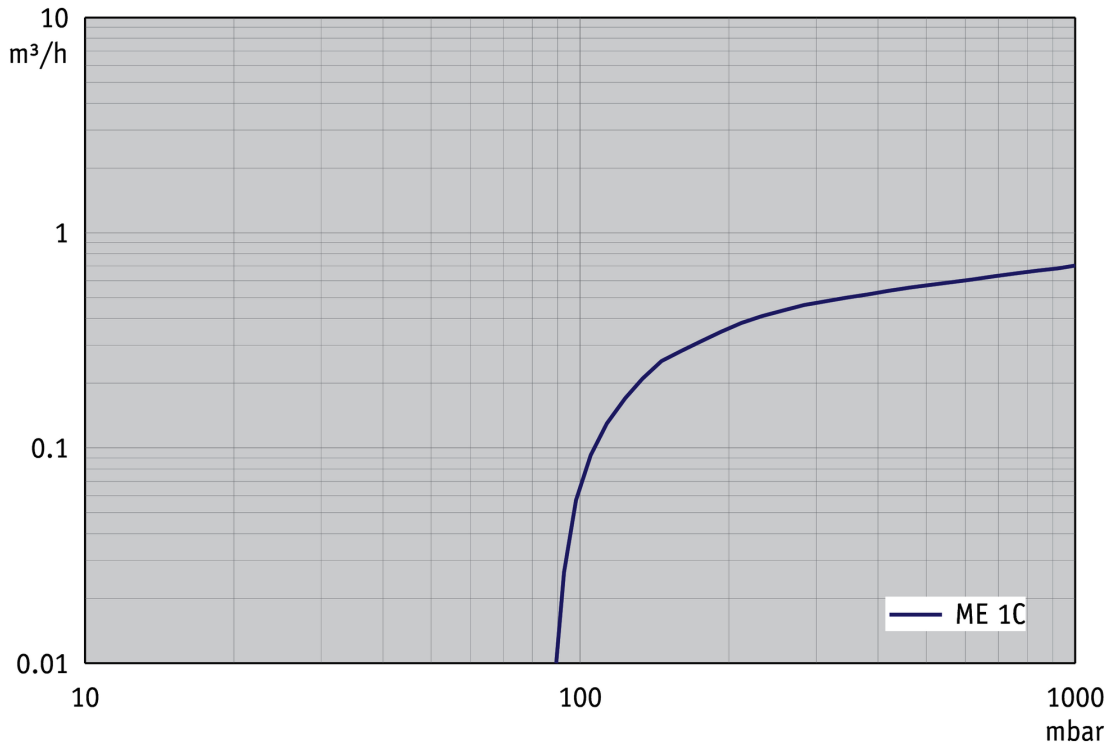
## Technical data

| | |
|---|---|
| Max. pumping speed 50 Hz ($m^3/h$) | 0.7 $m^3/h$ |
| 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 8-10 mm |
| Outlet connection | Hose nozzle DN 8-10 mm |
| Rated motor power | 0.04 kW |
| Rated speed 50/60 Hz | 1500/1800 $min^{-1}$ |
| Protection class IEC 60529 | IP 40 |
| Dimensions (L x W x H) | 270 mm x 121 mm x 154 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 |

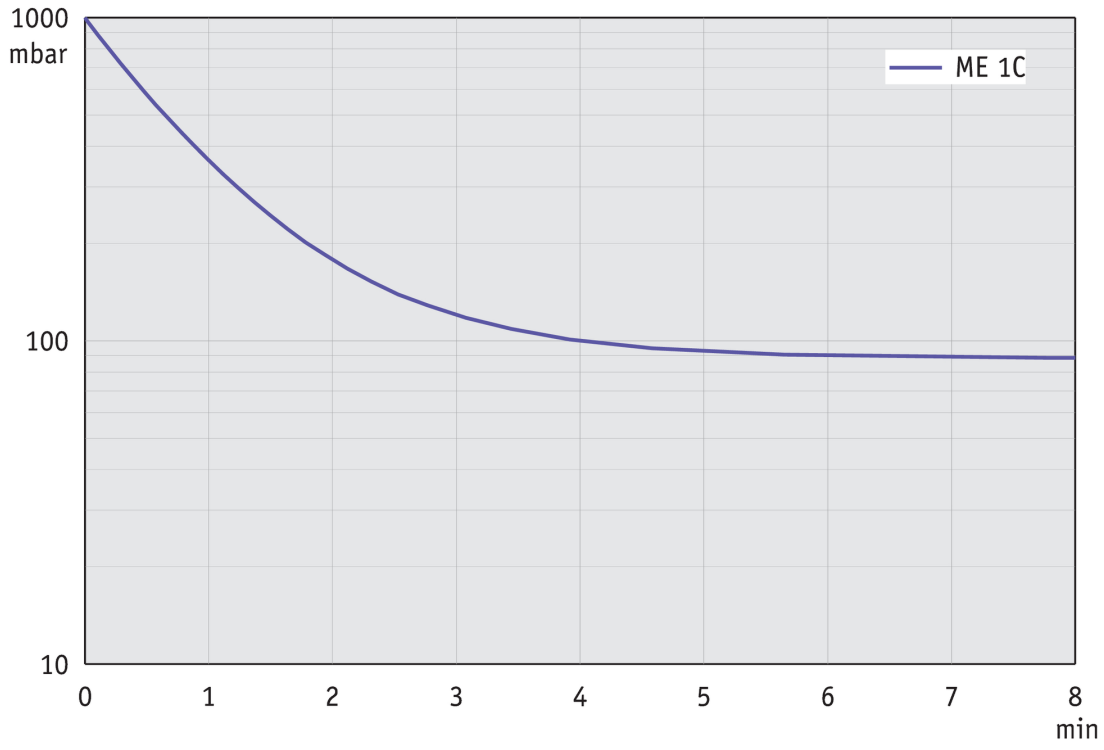
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## Pumping speed graph at 50 Hz



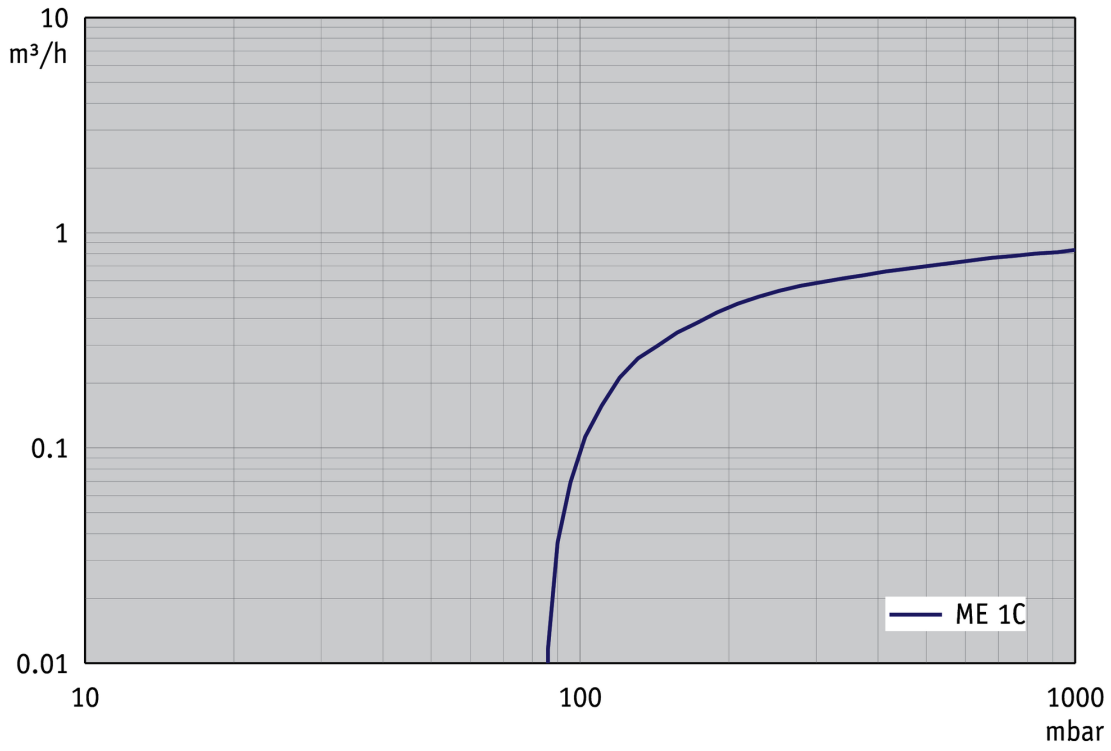

## Pump down graph at 50 Hz (10 l volume)



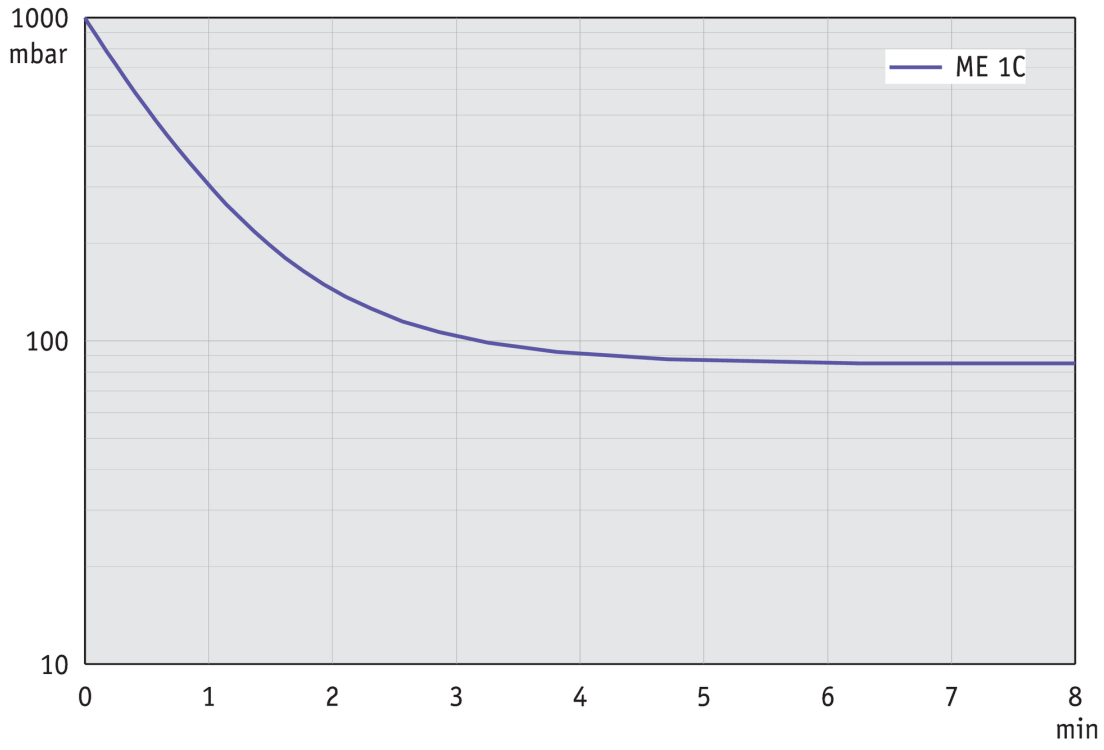

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## Pumping speed graph at 60 Hz




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

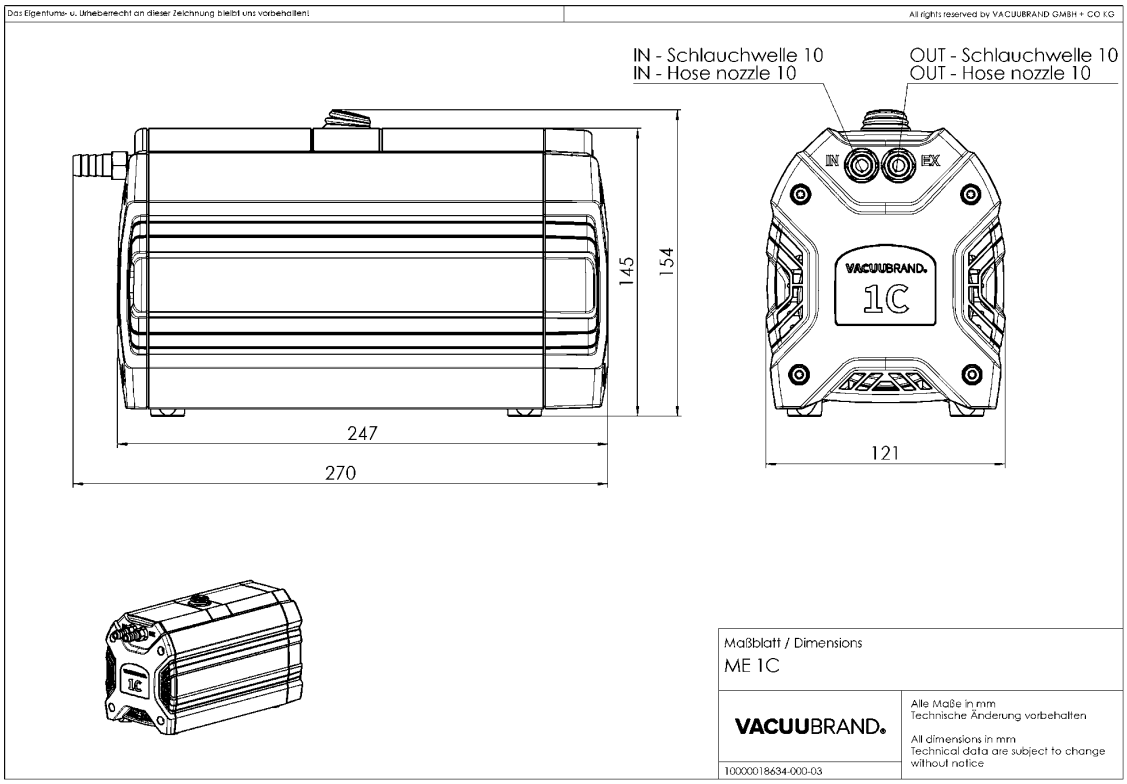



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## Dimension sheet





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VACUUBRAND GMBH + CO KG
P.O. Box 1664
97877 Wertheim
T +49 9342 808 5550
F +49 9342 808 5555

info@vacuubrand.com
www.vacuubrand.com

VACUUBRAND

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BRAND (Shanghai) Trading Co., Ltd.
Shanghai, China

T +86 21 6422 2318
info@brand.com.cn
china.brand.com.cn

BRAND Scientific Equipment Pvt. Ltd.
Mumbai, India

T +91 22 42957790
customersupport@brand.co.in
www.brand.co.in

BRANDTECH® Scientific, Inc.
Essex, CT. United States of America

T +1 860 767 2562
info@brandtech.com
www.brandtech.com

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