Chemistry diaphragm pump ME 1C

Order no.: 20721100



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

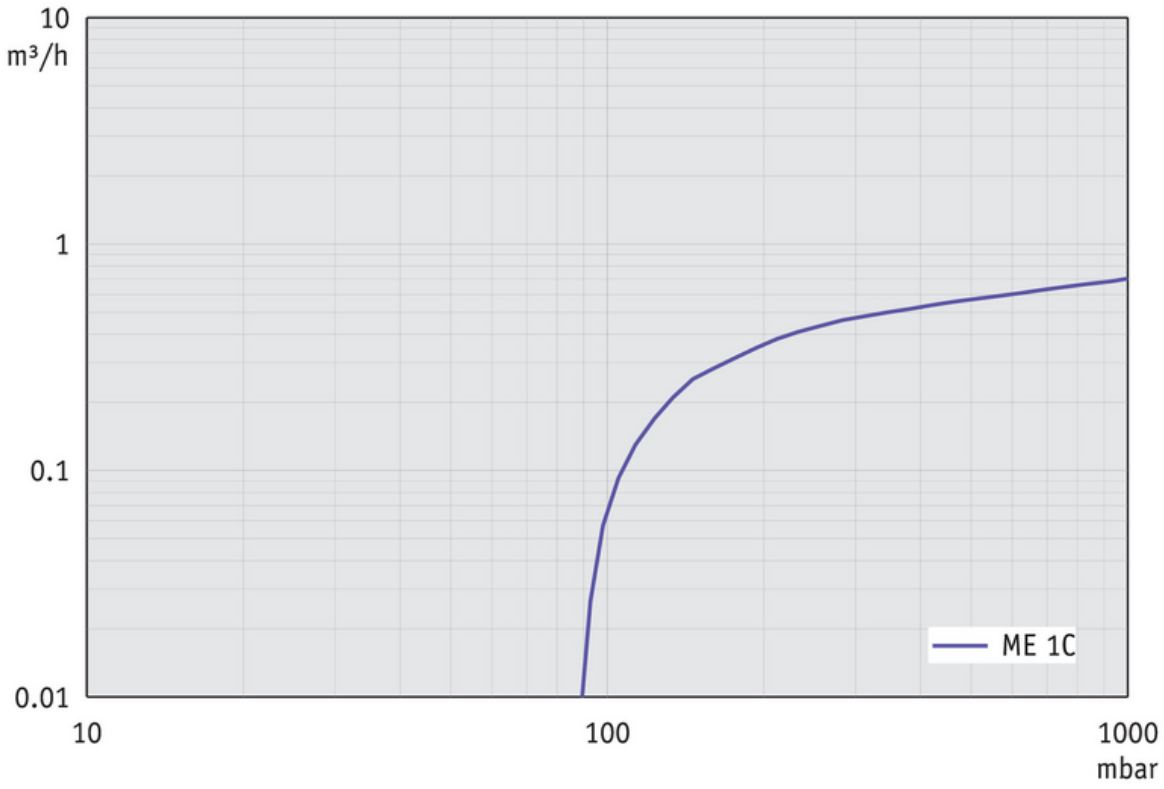
- convenient, quick and simple to use due to the new top-mounted power switch
- whisper quiet and very low vibration
- requires minimal benchtop space
- maintenance-free drive system and proven long diaphragm life
- high chemical resistance

Technical data

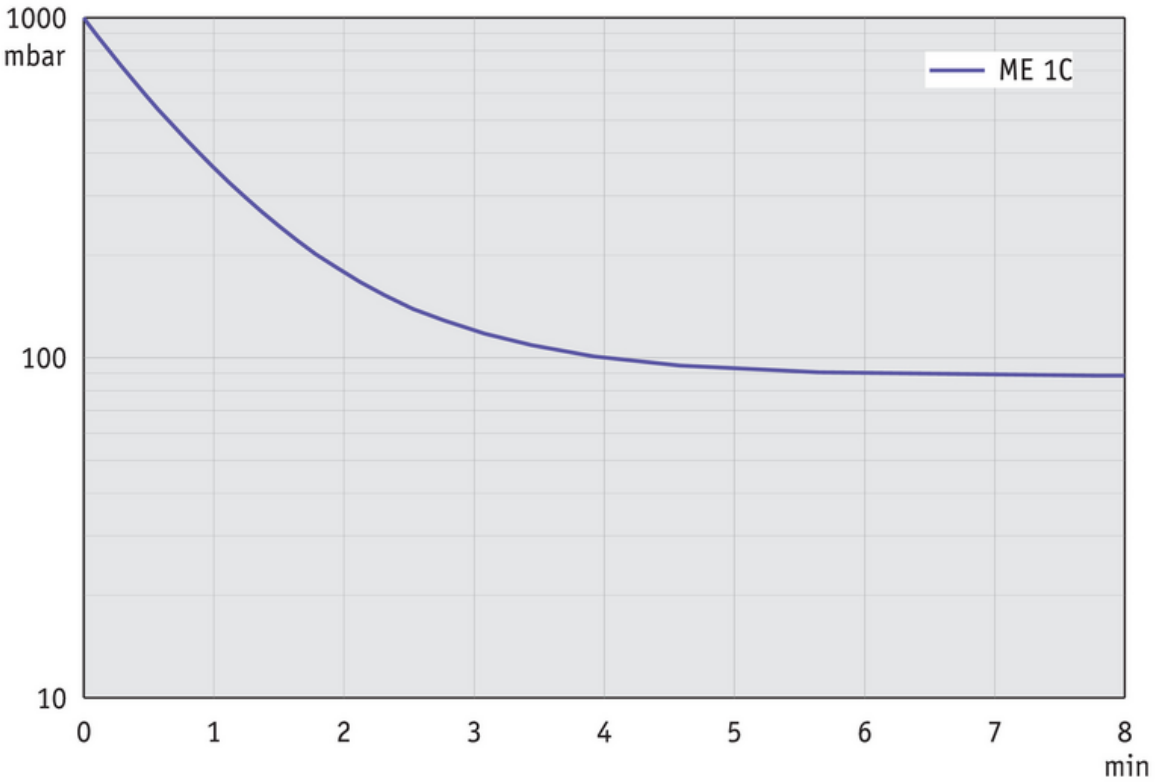
Number of heads / stages		1 / 1
Max. pumping speed at 50/60 Hz	m^3/h	0.7 / 0.8
Max. pumping speed at 50/60 Hz	cfm	0.4 / 0.5
Ultimate vacuum (abs.)	mbar/torr	100 / 75
Ambient temperature range (operation)	°C	10 - 40
Ambient temperature range (storage)	°C	-10 - 60
Max. back pressure (abs.)	bar	1.1
Inlet connection		Hose nozzle DN 8-10 mm
Outlet connection		Hose nozzle DN 8-10 mm
Rated motor power	kW	0.04
Rated motor speed at 50/60 Hz	min^{-1}	1500/1800
Protection class		IP 40
Dimensions (L x W x H), approx.	mm	247 x 121 x 145
Weight, approx.	kg	5.4

Noise level at 50 Hz, typ.	dBA	49
CE mark		Yes
NRTL certification		Canada and the USA
ATEX conformity		II 3/- G Ex h IIC T3 Gc X Internal Atm. only
Items supplied		Pump completely mounted, ready for use, with manual.
Accessories		Rubber vacuum tubing DN 8 mm (20686001) Chemistry vacuum regulator valve unit for ME/MZ 1C (20696843) Silencer DN 8 - 10 mm (20636588)

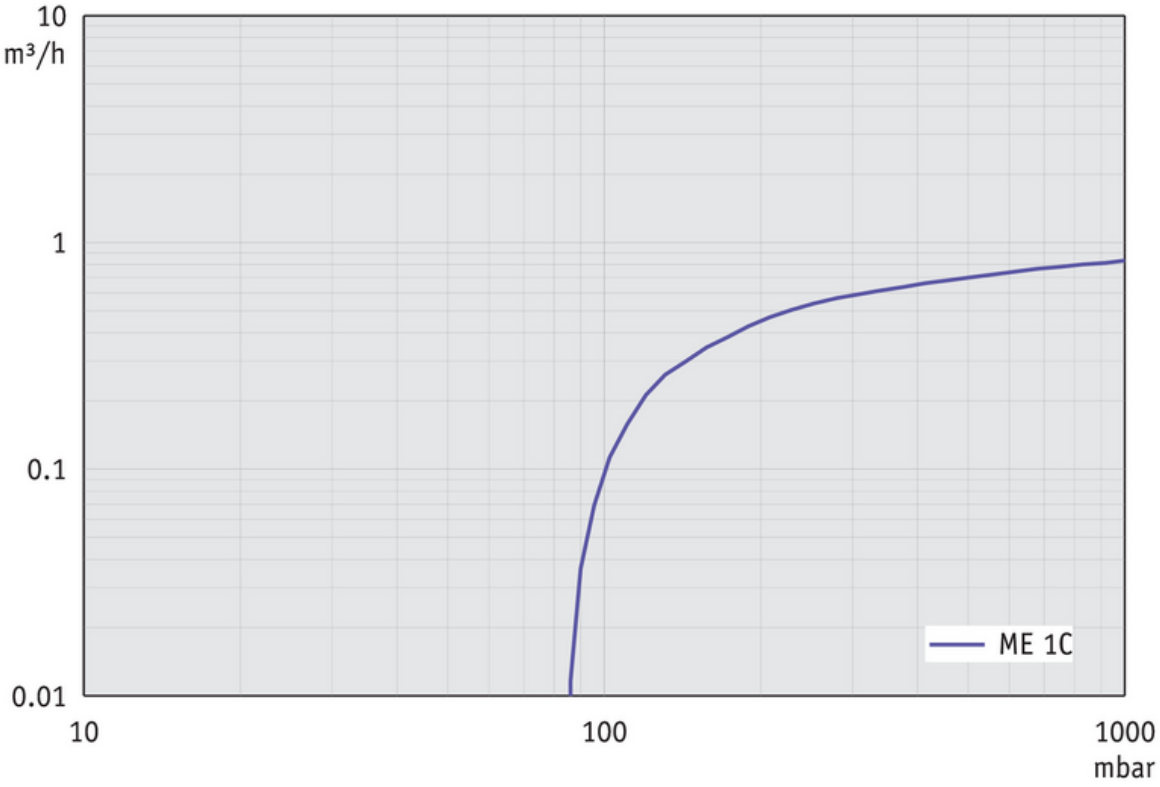
Pumping speed graph at 50 Hz



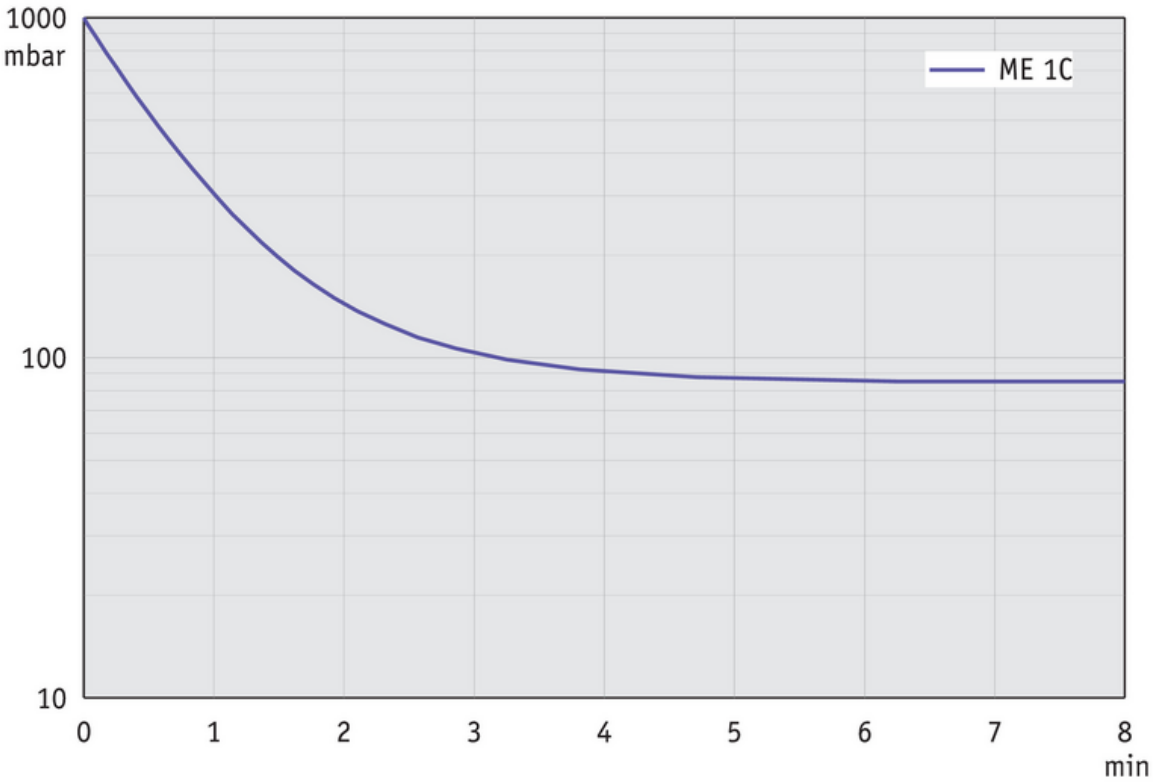
Pump down graph at 50 Hz
(10 l volume)



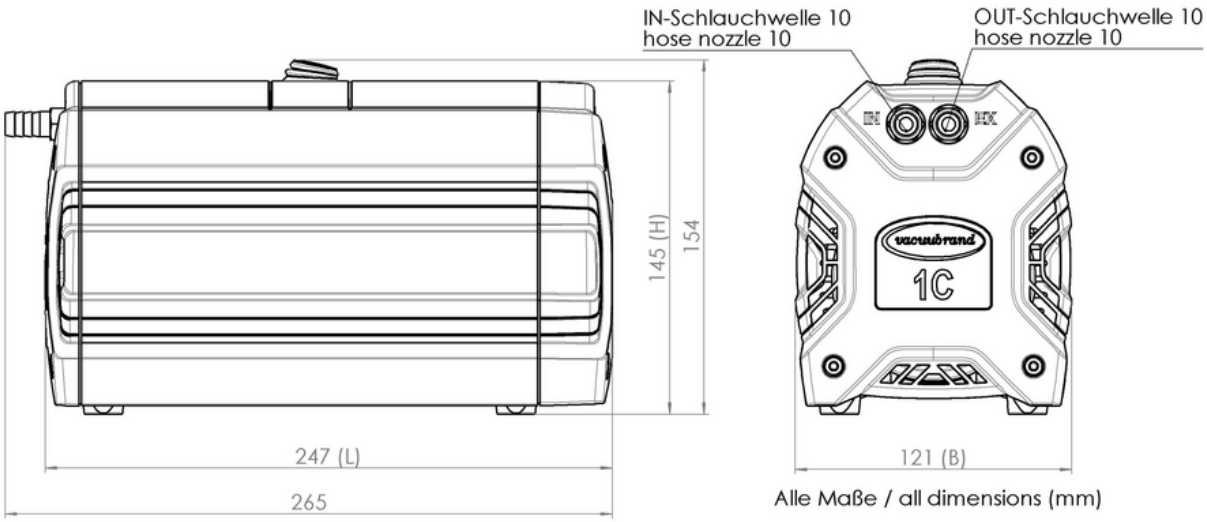
Pumping speed graph at 60 Hz

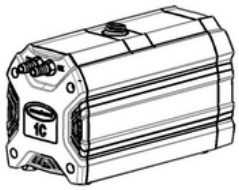


Pump down graph at 60 Hz
(10 l volume)



Dimension sheet





VACUUBRAND Pumpe ME 1C
Version 02

Ordering data

Product name	Mains voltage and frequency	Plug	Order no.
ME 1C	220-230 V~ 50-60 Hz	CEE	20721100