VACUUBRAND®

# Screw pump VACUU·PURE 10C




Link to the website

## Product description

The dry screw pump VACUU·PURE® 10C reliably delivers the benefits of oil-free vacuum technology in the pressure range of $10^{-3}$ mbar. The new vacuum pump combines three important benefits for the user: 100% oil-free, chemically resistant, and no wear parts. VACUU·PURE 10C is ideally suited for clean processes and the production of pure products. The screw pump is especially designed for processes in the vacuum range down to $10^{-3}$ mbar, however unlike other fine vacuum technologies it can be used across the entire pressure range from atmospheric pressure to its ultimate vacuum. At the same time, aggressive gases and vapors can be pumped without any worries because of the high chemical resistance. The use of a cold trap is no longer necessary in the majority of applications. VACUU·PURE easily handles high vapor loads through its extraordinary condensate compatibility. Thanks to this capability, a gas ballast is unnecessary, avoiding associated disadvantages like the reduction in pumping speed and an increase in noise levels. The integrated regeneration mode enables rapid drying of the pump at the end of the process. This allows sample throughput to be increased significantly as compared to other pump technologies.

## Performance features

- $10^{-3}$ mbar vacuum range
- 100% oil-free
- Chemically resistant
- No wear parts

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https://shop.vacuubrand.com/20751002

## Ordering data

| Product name | Nominal mains voltage \| mains frequency | Plug type | Articleno. |
|---|---|---|---|
| VACUU·PURE 10C | 100-230 V \| 50-60 Hz | UK | 20751002 |

## Items supplied

Pump completely mounted, ready for use, connection with small flange KF DN 25 (2x centering and clamping rings included), with manual. To establish a hose nozzle connection, suitable KF flanges with hose nozzle are available for order.

## Accessories

- Set AK + elbow for VACUU · PURE 10C VACUU·PURE AK + Winkel (20751804)
- Inlet separator AK with round bottom flask 500 ml, with connections KF DN 25 and hose nozzle DN 15 mm, Leakage rate 5 x 10^-4 mbar l/s AK 500 / KF DN 25 VACUU·PURE (20751802)
- Base module for chemistry pumping unit (without pump) EK 600 (20751801)
- Mobile underframe VACUU·PURE shuttle (20751800)
- Vacuum tubing PVC with internal stainless steel spiral, with small flanges KF DN 25 (20686021)
- Small flange with hose nozzle KF DN 25 / DN 10 mm (20662807)
- Small flange with hose nozzle KF DN 25 / DN 15 mm (20662808)
- Elbow DN25/SLW19 for VACUU-PURE KF DN 25 / SLW 19 (20751803)
- Digital-I/O-Module VACUU·BUS® VACUU·BUS® (20636228)
- Exhaust hose PVC, 26/19 mm (20686056)
- Communication Kit, USB to VACUU·BUS converter VACUU·BUS® (20683230)

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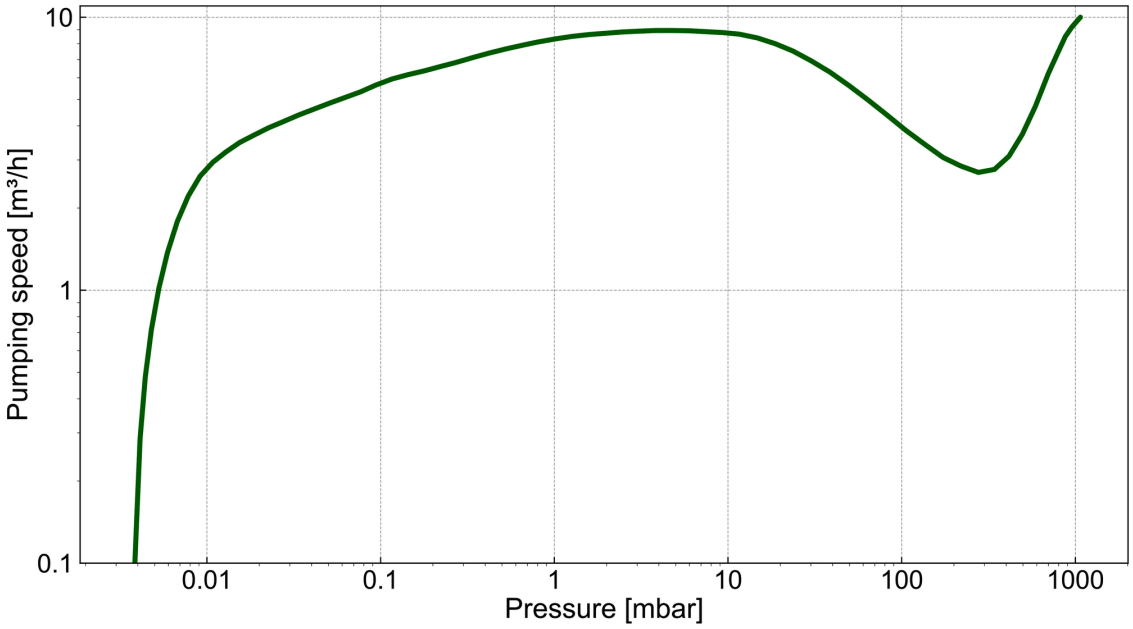
## Technical data

| | |
|---|---|
| Max. pumping speed 50 Hz ($m^3/h$) | 9 $m^3/h$ |
| Ultimate vacuum | 5 x $10^{-3}$ mbar / 3.8 x $10^{-3}$ torr |
| Vacuum controller | without controller |
| Permissible ambient temperature range (operation) | 10 - 40 °C |
| Permissible ambient temperature range (storage) | -10 - 60 °C |
| Max. outlet pressure (abs.) | 15 mbar above atmospheric pressure bar |
| Inlet connection | small flange KF DN 25 |
| Outlet connection | small flange KF DN 25 |
| Rated motor power | 0.7 kW |
| Rated speed 50/60 Hz | 12500 $min^{-1}$ |
| Protection class IEC 60529 | IP 20 |
| Dimensions (L x W x H) | 507 mm x 269 mm x 413 mm |
| Weight | 21.5 kg |
| Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®) | 52 dBA |
| NRTL certification | Yes |
| Interface | VACUU·BUS: Modbus RTU |

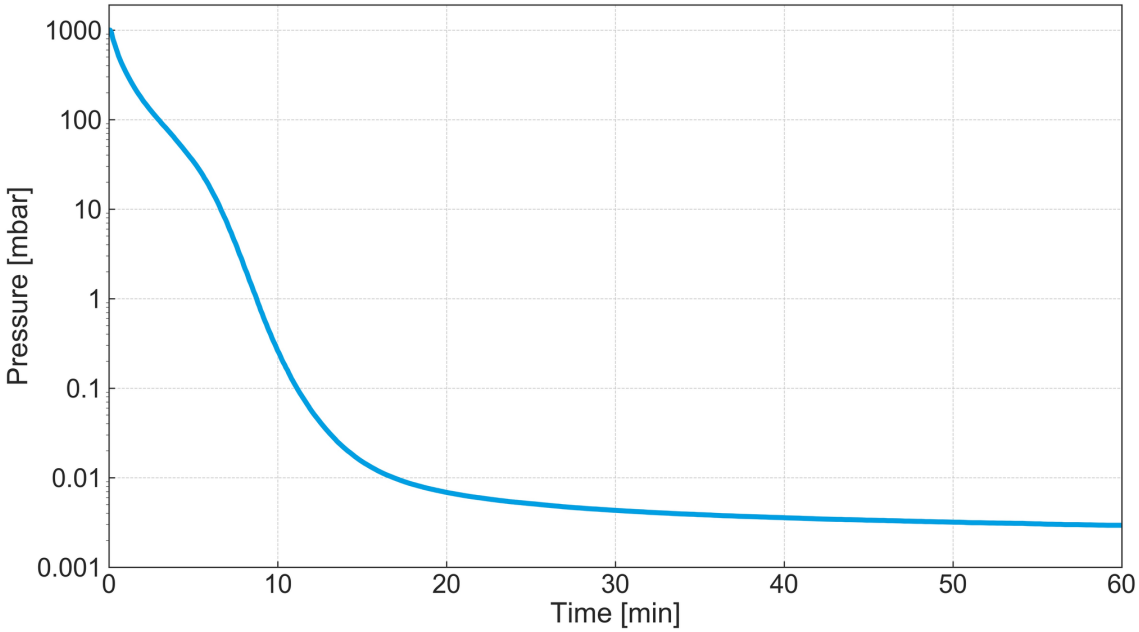
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## Pumping speed graph at 50 Hz




## Pump down graph at 50 Hz (100 l volume)



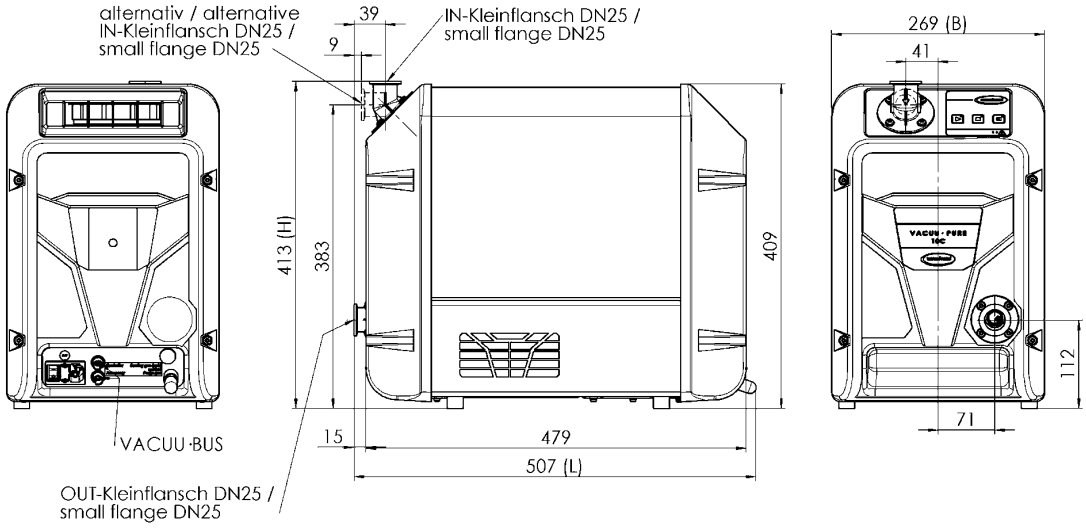


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## Dimension sheet




Alle Maße / all dimensions (mm)

Gewicht / weight: 21,5 kg

VACUUBRAND Pumpe VACUU-PURE 10C
Version 01

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VACUUBRAND

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