VACUUBRAND®

# Chemistry pumping unit PC 610 select




Link to the website

## Product description

Our PC 600-series chemistry pumping units of this series are an excellent choice for supporting electronically controlled evaporation or drying processes with even many high boiling point solvents. Our popular MD 4C NT three-stage chemistry diaphragm pump, with its 2 mbar ultimate vacuum rating, is the heart of these pumping units. Typical applications include lab applications such as rotary evaporation, vacuum drying ovens, and vacuum distillation. The integrated VACUU·SELECT controller provides an easy-to-use, application based interface that covers all common lab applications. The VACUU·SELECT controller has you covered. Use manual set-point-control for simple processes, run distillations, or create your own application with simple drag-and-drop editing. For solvent evaporation, it constantly monitors the pressure and switches to 2 point control mode to hold the pressure stable when a boiling point is detected. The controller also allows for easy manual vacuum control for simple processes. The inlet separator, made of glass with protective coating, prevents particles and liquid droplets from entering the pump. The exhaust vapor condenser provides nearly 100% recovery of solvents for economical recycling and environmental protection.

## Performance features

- VACUU·SELECT vacuum controller with graphical user interface simplifies work in the laboratory
- predefined applications save time and give reproducible results
- easy-to-use application editor allows own process sequences
- meets high vacuum requirements for most high boiling solvents
- excellent environmental friendliness due to efficient solvent recovery

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https://shop.vacuubrand.com/20737150

## Ordering data

| Product name | Nominal mains voltage \| mains frequency | Plug type | Articleno. |
|---|---|---|---|
| PC 610 select | 230 V \| 50-60 Hz | CEE | 20737150 |

## Items supplied

Pumping unit completely mounted, ready for use, with manual.

## Accessories

- Function extension for VACUU·SELECT controller VACUU·SELECT User Management (20700900)
- Silencer with hose 5cm DN 8-10mm (20636588)
- Adjustable elbow DN 10/8 mm (20637873)
- Vacuum tubing transparent DN 8 mm (20686061)
- Fluid level sensor for round bottom flask 500 ml 500 ml (20699908)
- Cooling water valve VKW-B (20674220)
- Set of diaphragms and valves MD 4C NT/VARIO / PC 3003 / PC 3004 (20696870)
- Silencer with hose 5cm DN 8-10mm (20636588)
- Vacuum tubing transparent DN 8 mm (20686061)
- Set of diaphragms and valves MD 4C NT/VARIO / PC 3003 / PC 3004 (20696870)

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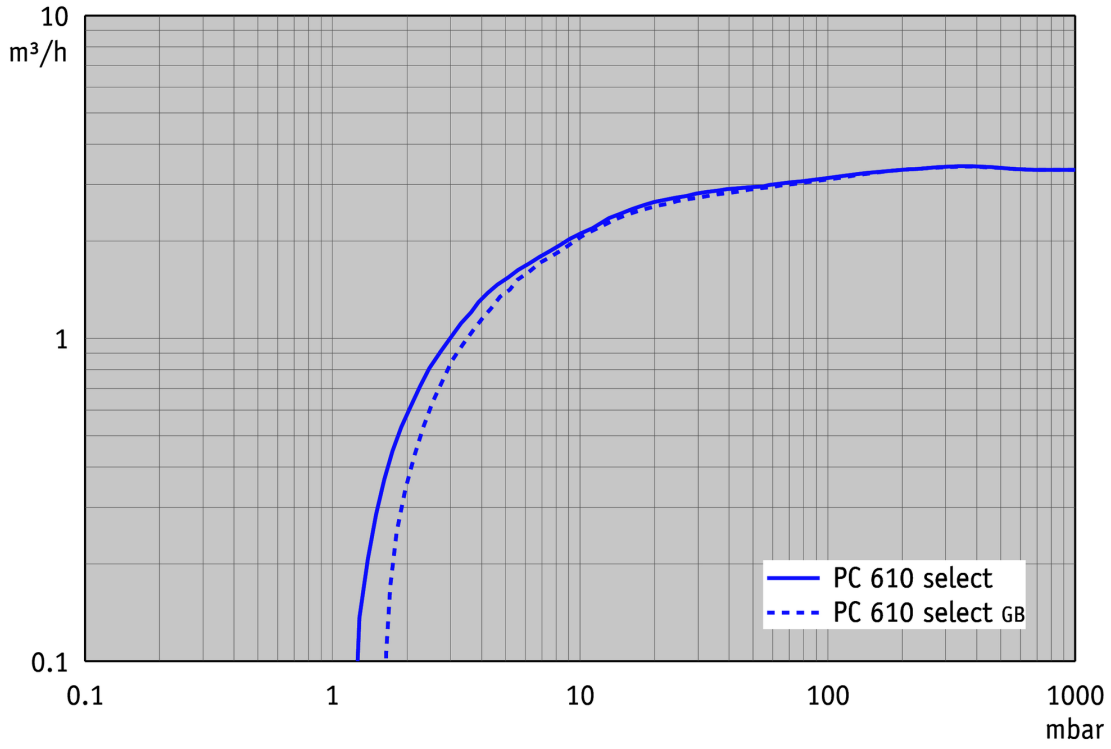
## Technical data

| | |
|---|---|
| Max. pumping speed 50 Hz ($m^3/h$) | 3.4 $m^3/h$ |
| Max. pumping speed 60 Hz (cfm) | 2.2 cfm |
| Ultimate vacuum | 1.5 mbar / 1.1 torr |
| Ultimate vacumm with gas ballast | 3 mbar / 2.2 torr |
| Number of heads | 4 |
| Number of stages | 3 |
| Vacuum controller | VACUU·SELECT |
| 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 |
| Coolant connection | 2 x hose nozzle DN 6-8 mm |
| Rated motor power | 0.25 kW |
| Rated speed 50/60 Hz | 1500/1800 $min^{-1}$ |
| Protection class IEC 60529 | IP 20 |
| Dimensions (L x W x H) | 419 mm x 243 mm x 457 mm |
| Weight | 20.9 kg |
| Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®) | 45 dBA |
| ATEX conformity | II 3/- G Ex h IIC T3 Gc X Internal Atm. only |
| NRTL certification | No |
| Interface | Ethernet (RJ45): Modbus TCP / USB (Type A): Data transfer, software update, RS-232 (additional adapter required) |

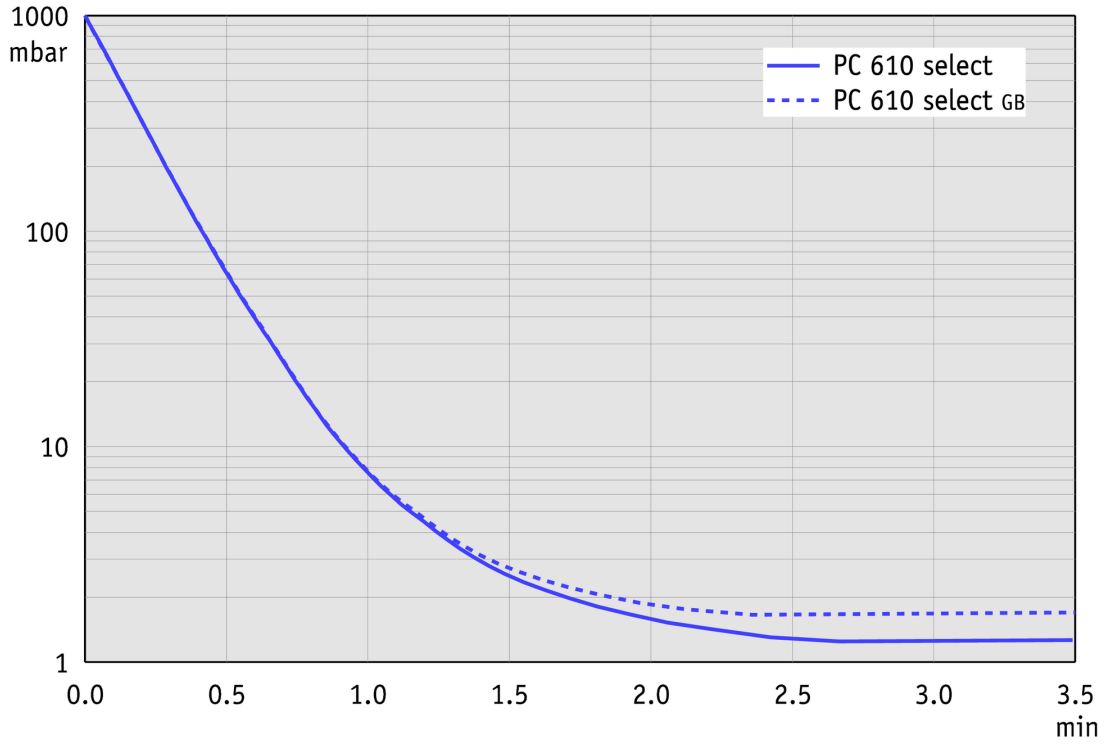
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## Pumping speed graph at 50 Hz



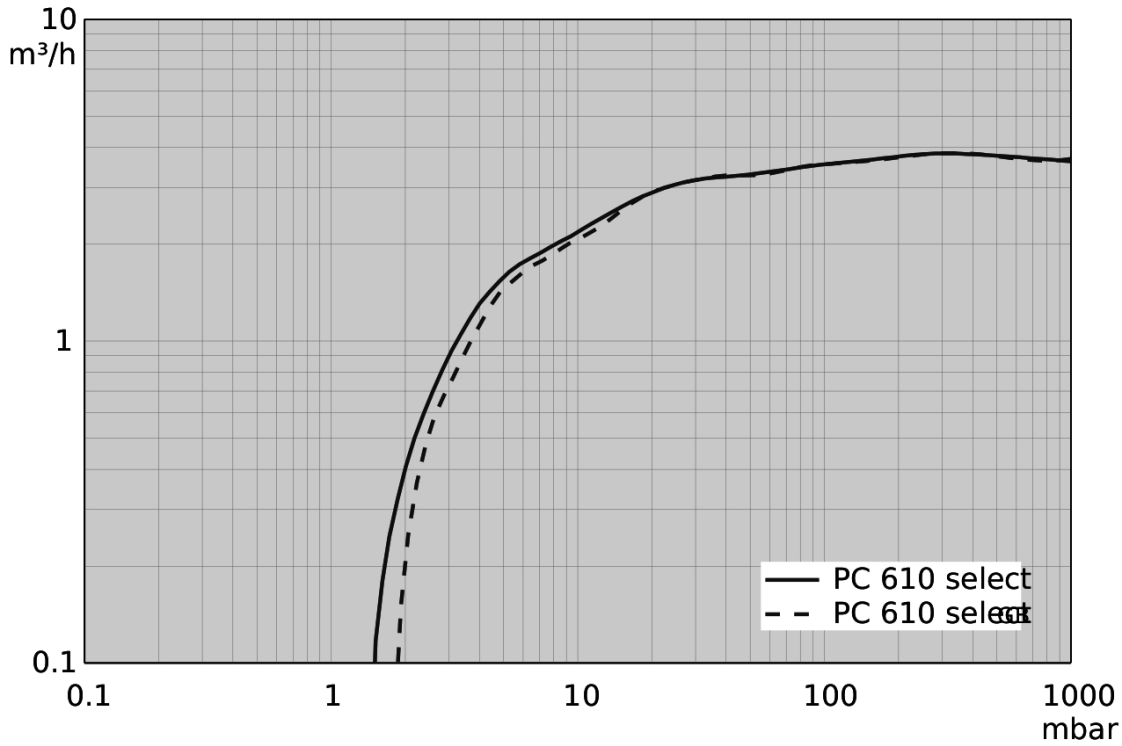

## Pump down graph at 50 Hz (10 l volume)



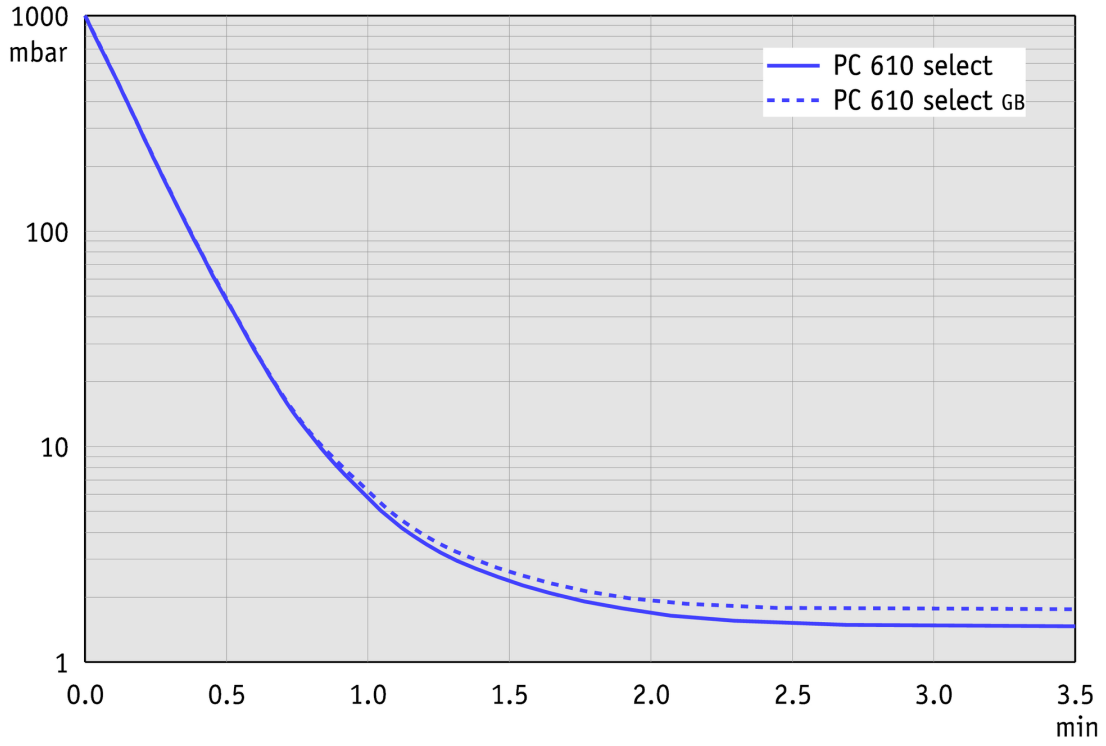

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## Pumping speed graph at 60 Hz




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



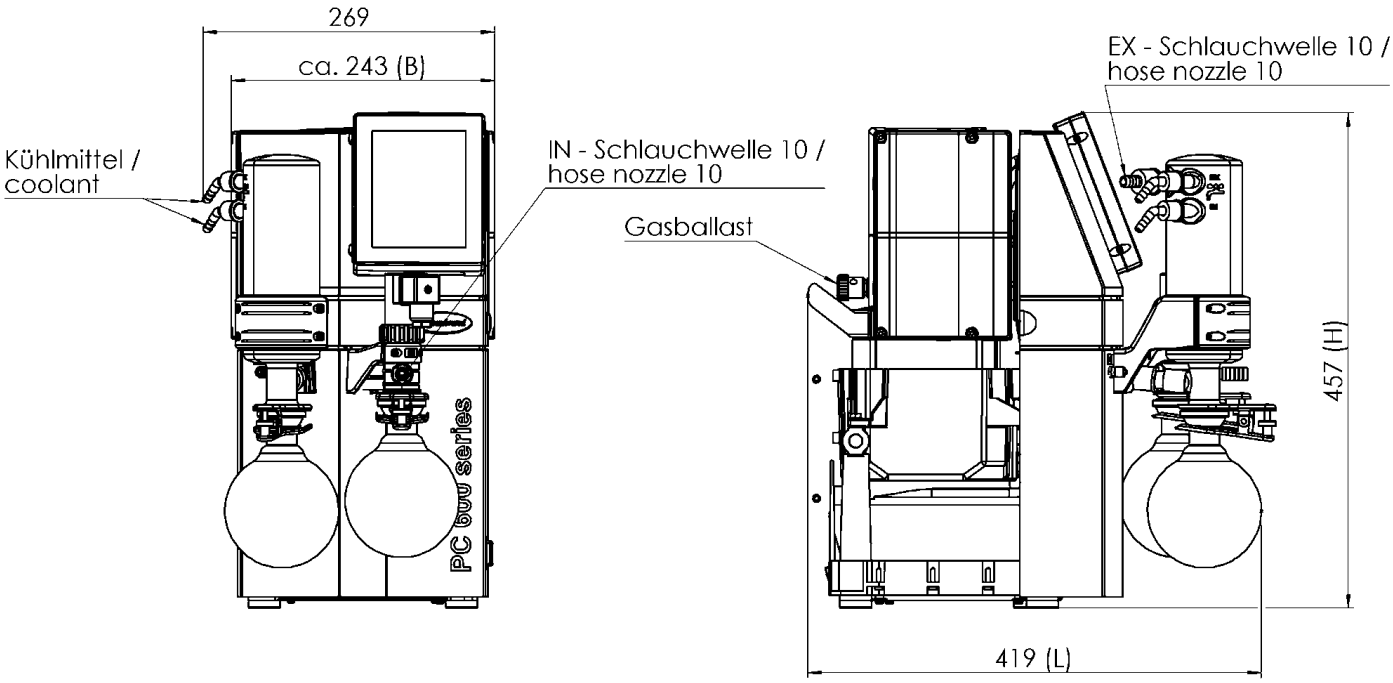


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## Dimension sheet




Alle Maße / all dimensions (mm)
Gewicht / weight: ca.20,4 kg

VACUUBRAND PC 610 select
Version 2017/08/24

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VACUUBRAND

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With highly motivated and qualified employees, we manufacture the world's most comprehensive product family for vacuum generation, measurement and control for the rough and fine vacuum range in the laboratory.

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