

# Chemistry pumping unit PC 520 select

[Link to the website](#)

## Product description

This chemistry vacuum pumping unit is an economical, compact solution for simultaneous operation of two electronically controlled vacuum applications with one single pump. Based on our popular MZ 2C NT two-stage chemistry diaphragm pump, the PC 520 select is frequently used for medium-sized vacuum applications involving common solvents. Both vacuum ports have independent solenoid valves for electronic vacuum control, and check valves to protect against cross contamination and interference. With an intuitive, application-based interface, the VACUU-SELECT controller offers predefined vacuum processes for all common laboratory 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 detects the boiling pressure and switches to two point control to hold the pressure stable when a boiling point is detected. The inlet separator, made of glass with a robust protective coating, prevents particles and liquid droplets from entering the pump, preventing damage and extending pump life. And the exhaust vapor condenser allows for nearly complete recovery of solvents when used with a chilled water line or recirculating chiller 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
- powerful vacuum pump with excellent chemical and condensate compatibility
- PC 520 select allow simultaneous operation of two independent applications with electronic vacuum control

## Ordering data

| Product name  | Nominal mains voltage   mains frequency | Plug type | Articleno. |
|---------------|-----------------------------------------|-----------|------------|
| PC 520 select | 230 V   50-60 Hz                        | UK        | 20733352   |

## Items supplied

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

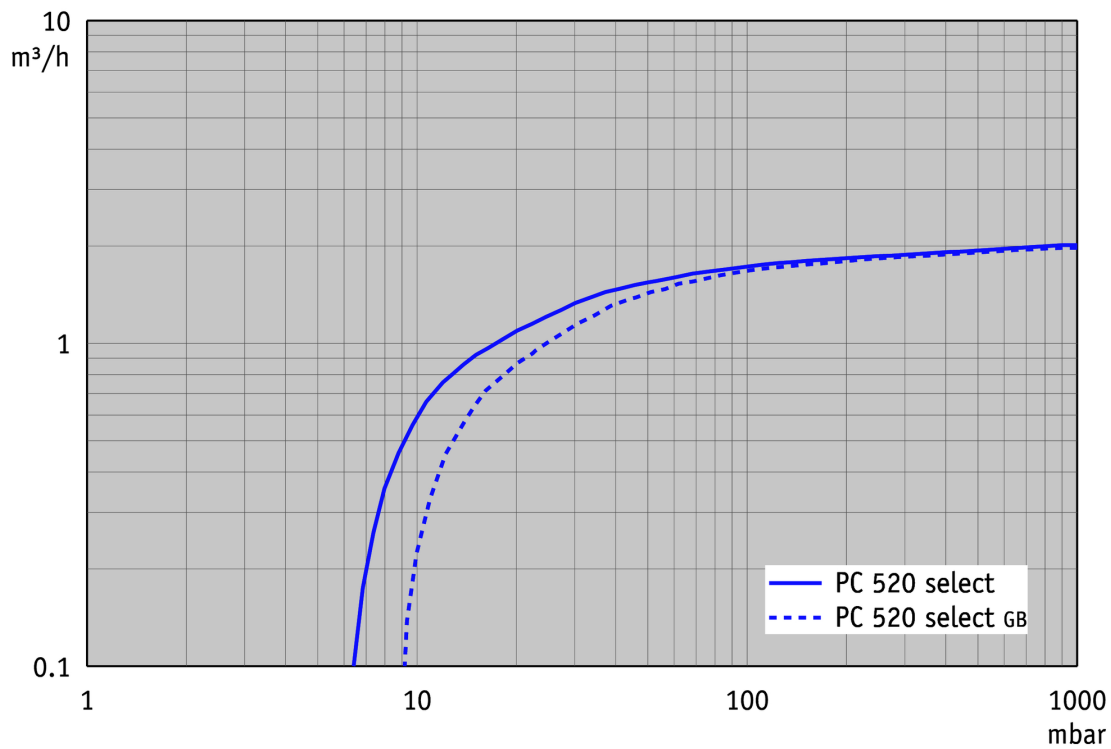
## Accessories

- Function extension for VACUU-SELECT controller VACUU-SELECT User Management (20700900)
- Silencer with hose 5cm DN 8-10mm (20636588)
- 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 MZ 2C NT / MZ 2C NT VARIO / PC 3002 (20696869)
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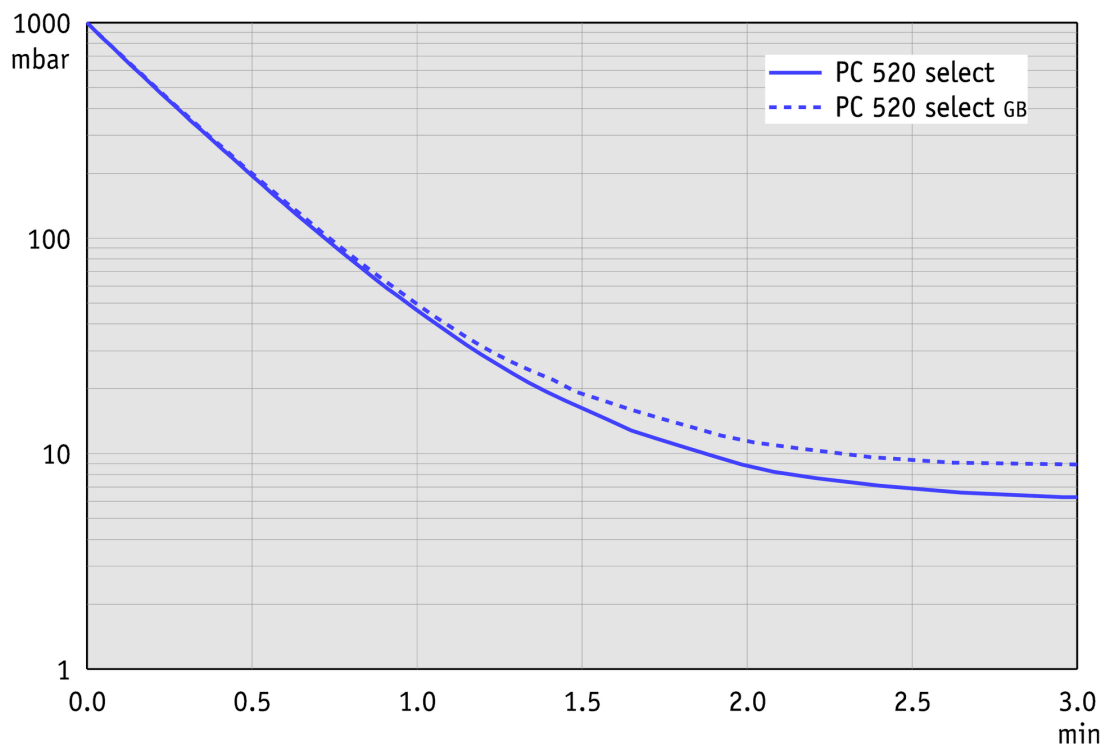
## Technical data

| Label for External Key "Max. Saugvermögen 50Hz" not found.                                                       | 2 m³/h                                                                                                           |
|------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| Max. pumping speed 60 Hz (cfm)                                                                                   | 1.4 cfm                                                                                                          |
| Ultimate vacuum                                                                                                  | 7 mbar / 5 torr                                                                                                  |
| Ultimate vacuum with gas ballast                                                                                 | 12 mbar / 9 torr                                                                                                 |
| Number of heads                                                                                                  | 2                                                                                                                |
| Number of stages                                                                                                 | 2                                                                                                                |
| 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                                                                                                 | 2 x 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                                                                                                | 0.18 kW                                                                                                          |
| Rated speed 50/60 Hz                                                                                             | 1500/1800 min <sup>-1</sup>                                                                                      |
| Protection class IEC 60529                                                                                       | IP 20                                                                                                            |
| Dimensions (L x W x H)                                                                                           | 435 mm x 272 mm x 457 mm                                                                                         |
| Weight                                                                                                           | 19.6 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) |

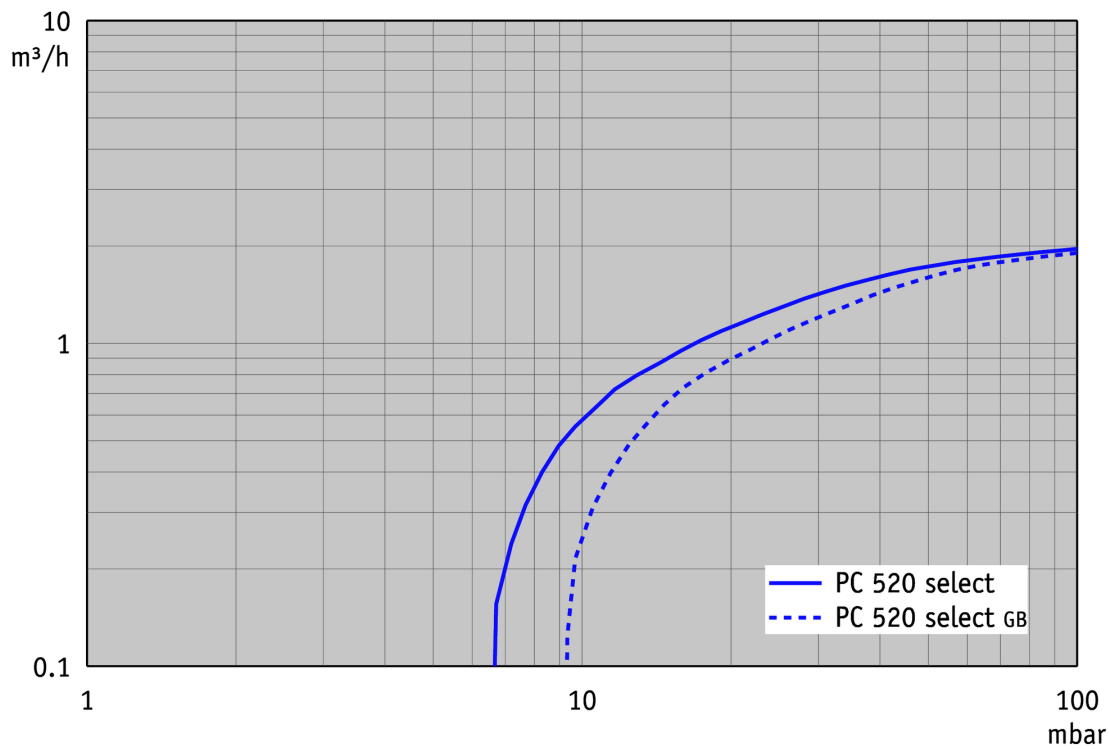
## Pumping speed graph at 50 Hz



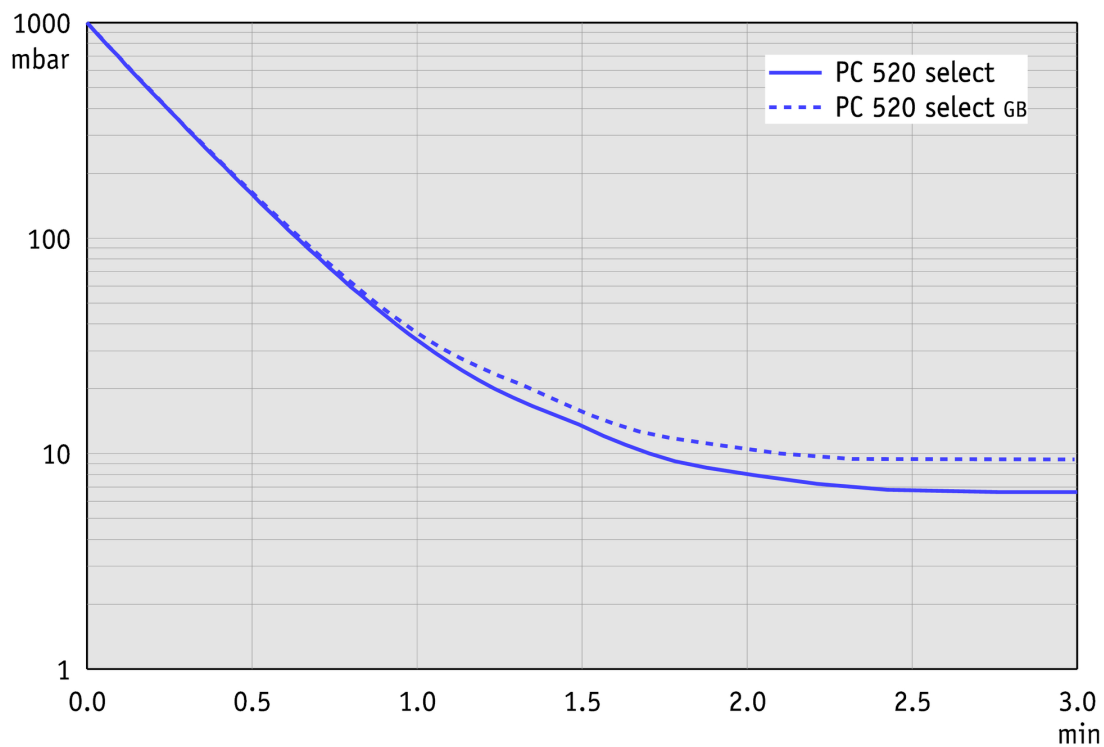
## Pump down graph at 50 Hz (10 l volume)



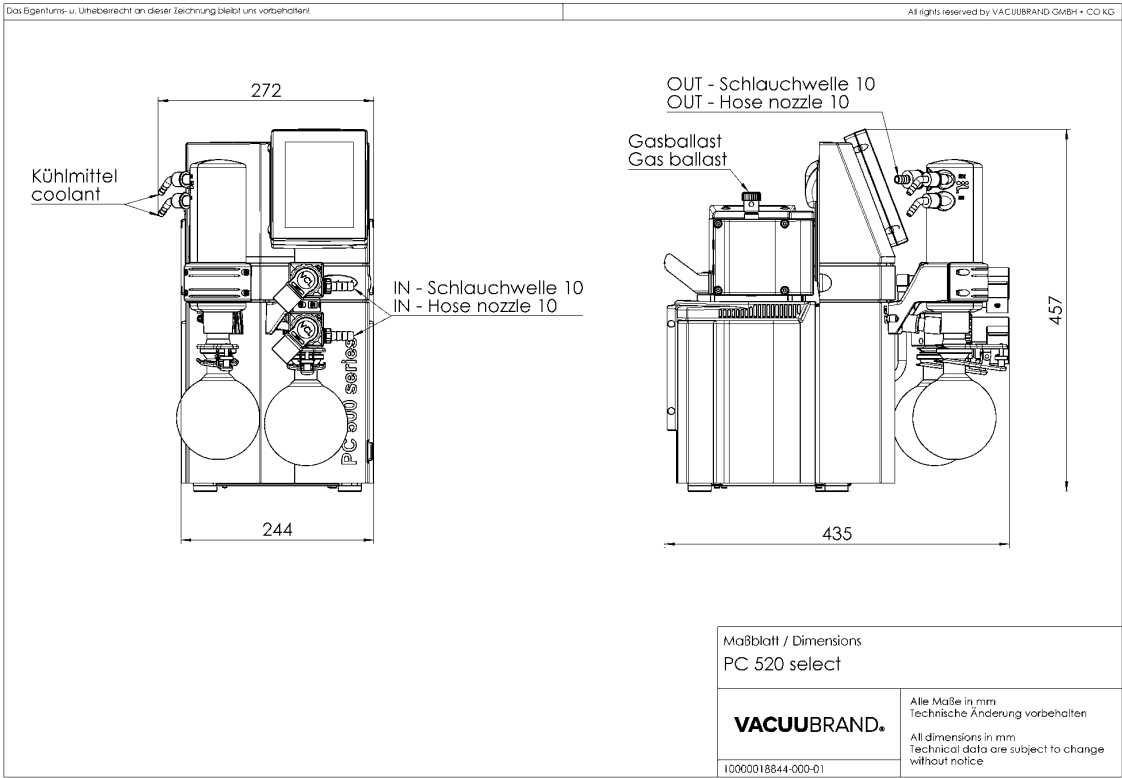
## Pumping speed graph at 60 Hz



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



Dimension sheet



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