VACUUBRAND®

VARIO® chemistry pumping unit PC 3004 VARIO select



Link to the website

Product description

The PC 3004 VARIO select pumping unit precisely controls the vacuum level in order to achieve unparalleled process control. With its high pumping speed and deep ultimate vacuum, this pump is suitable for demanding applications with even high boiling point solvents. 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 fully automated distillations, or create your own application with simple drag-and-drop editing. For solvent evaporation, the VACUU·SELECT controller continuously detects the boiling point and automatically adjusts the vacuum process as necessary. And the VARIO control algorithm maintains the desired vacuum level without running the motor faster than necessary. This prevents bumping and foaming, makes the pump whisper quiet, and extends maintenance intervals. 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 and predefined applications simplifies work in the laboratory
- automatic boiling point detection and adjustment of the vacuum for short process times
- powerful vacuum pump meets high vacuum requirements for most high boiling solvents
- extraordinary diaphragm life, therefore minimum operational and servicing costs
- excellent environmental compatibility through low energy consumption and efficient solvent recovery

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Link to the website:
https://shop.vacuubrand.com/20737551

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
PC 3004 VARIO select	200-230 V | 50-60 Hz	CH	20737551

Items supplied

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

Accessories

- Function extension for VACUU·SELECT controller VACUU·SELECT User Management (20700900)
- Vacuum tubing transparent DN 8 mm (20686061)
- Adjustable elbow DN 10/8 mm (20637873)
- 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)
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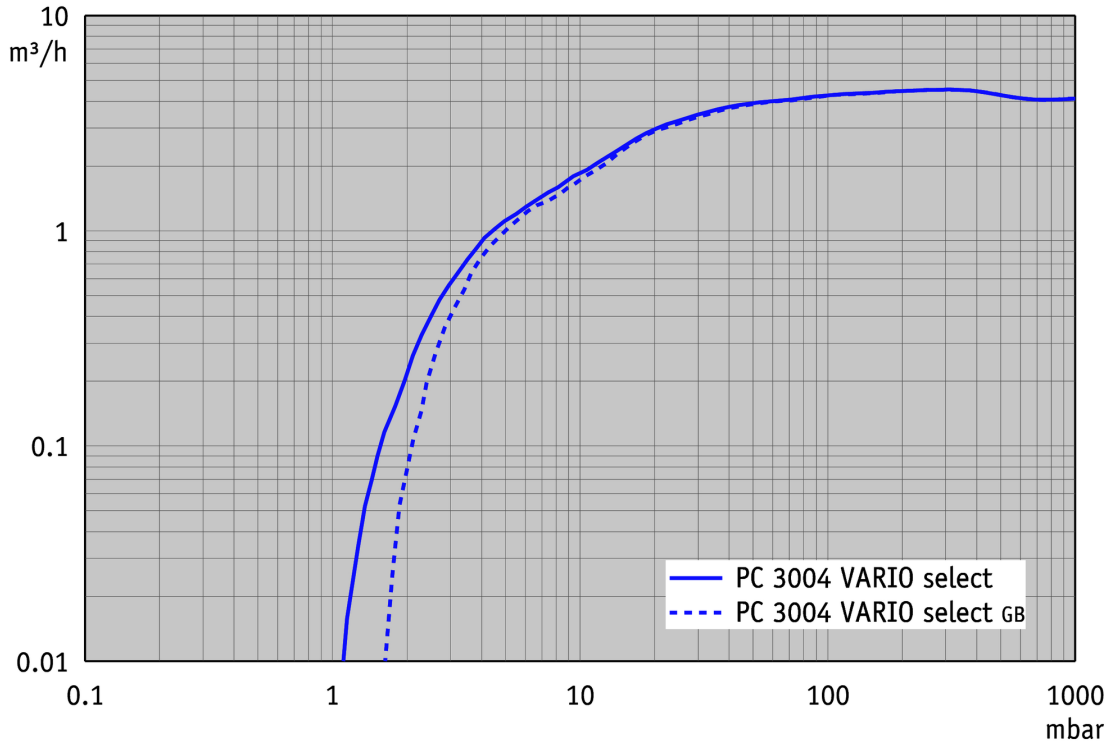
Technical data

Max. pumping speed 50 Hz (m^3/h)	4.6 m^3/h
Max. pumping speed 60 Hz (cfm)	2.7 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	0.53 kW
Motor speed range	30 - 2400 min^{-1}
Protection class IEC 60529	IP 20
Dimensions (L x W x H)	419 mm x 243 mm x 457 mm
Weight	21.1 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	43 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)

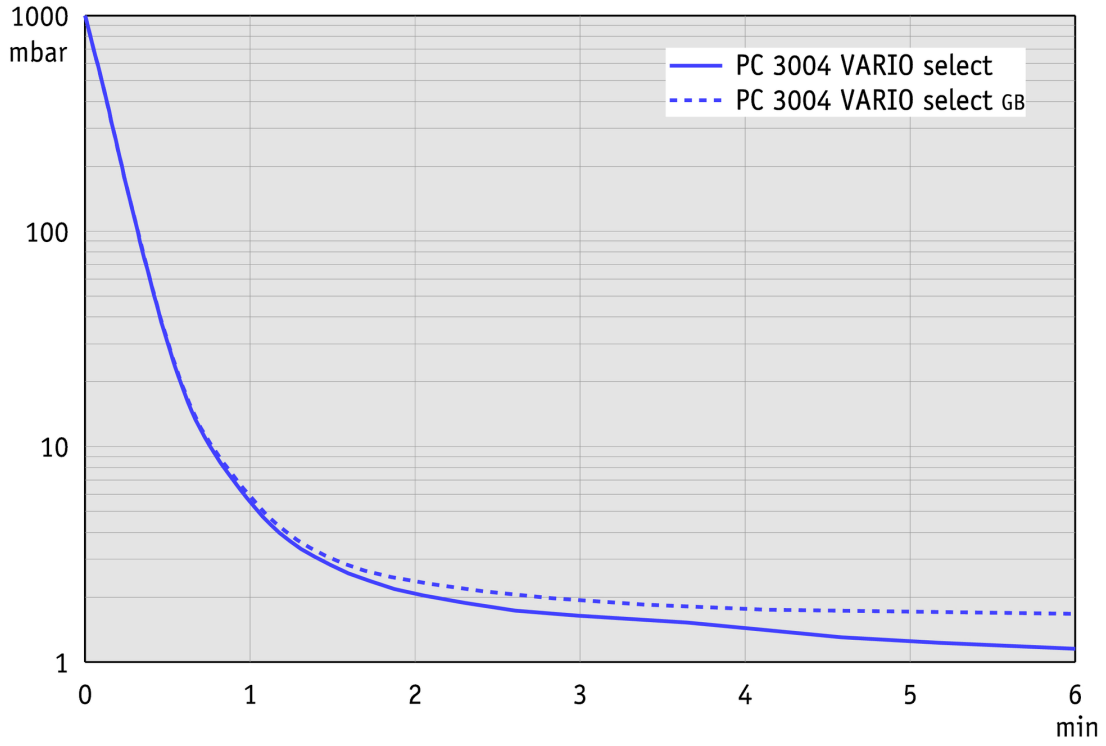
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Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (10 l volume)

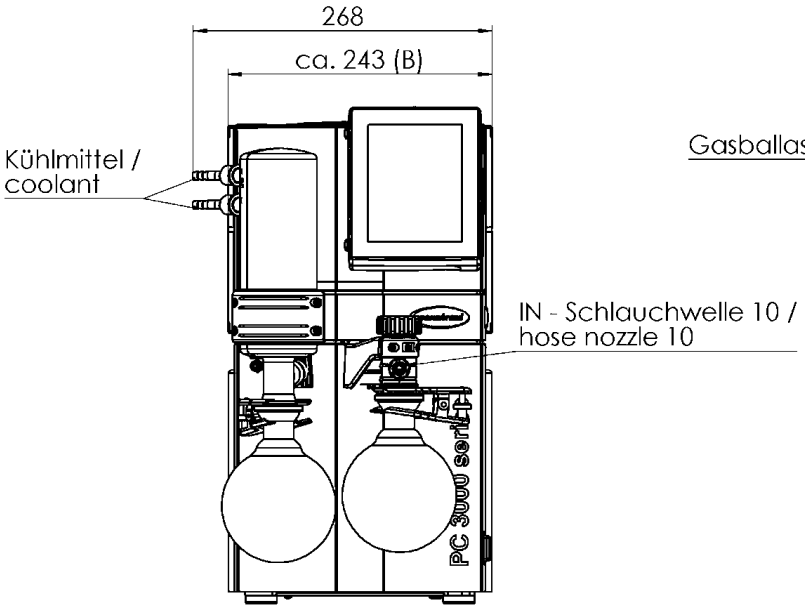


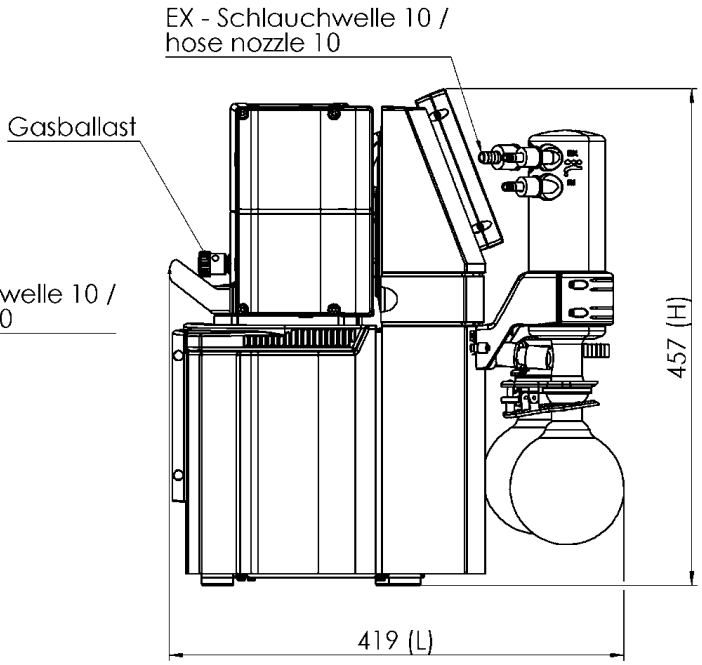
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Dimension sheet







Alle Maße / all dimensions (mm)
Gewicht / weight: ca.21,1 kg

VACUUBRAND PC 3004 select
Version 2017/08/23

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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.

All with one goal:
Enabling our customers to run reliable, safe and efficient processes. This is why we commit ourselves to continuous innovation, first-class performance, and outstanding quality.

Engineering excellence is central to our ability to deliver products and solutions renowned for their quality, durability, and reliability. Innovative technology, high quality materials and extensive testing deliver unmatched performance - engineered and manufactured in Germany.

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