VACUUBRAND®

VARIO® chemistry pumping unit PC 3001 VARIO select TE



Link to the website

Product description

The PC 3001 VARIO select pumping unit precisely controls the vacuum level in order to achieve unparalleled process control. This pump is suitable for 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 detects solvent boiling and automatically adjusts the pump's motor speed to maintain process control. The VARIO motor speed control also makes the pump whisper quiet and provides for exceptionally long 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. The PC 3001 VARIO select TE is equiped with a dry ice condenser at the pump exhaust, so that no cooling water connection is required.

Performance features

- dry ice condenser at the pump exhaus, no cooling water connection required
- simplify lab work with the VACUU·SELECT vacuum controller with graphic user interface and predefined applications
- automatic boiling point detection and continuous optimization of vacuum levels for quick process times, whisper quiet and ultra low vibration
- compact and powerful; superior performance even with continuous condensate purge
- eco-friendly: extremely low power consumption and efficient solvent recovery. Oil-free!

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Link to the website:
https://shop.vacuubrand.com/20700223

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
PC 3001 VARIO select TE	200-230 V | 50-60 Hz 100-120 V | 50-60 Hz	US	20700223

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)
- Air admittance valve VB M-B (20674217)
- Cooling water valve VKW-B (20674220)
- Set of diaphragms and valves for MD 1C, MD 1C VARIO-SP, PC 2001/ 3001 VARIO, MV 0.5C MD 1C, MD 1C +AK+EK, MD 1C VARIO-SP, PC 2001 VARIO, PC 3001 VARIO, MV 0.5C (20696828)
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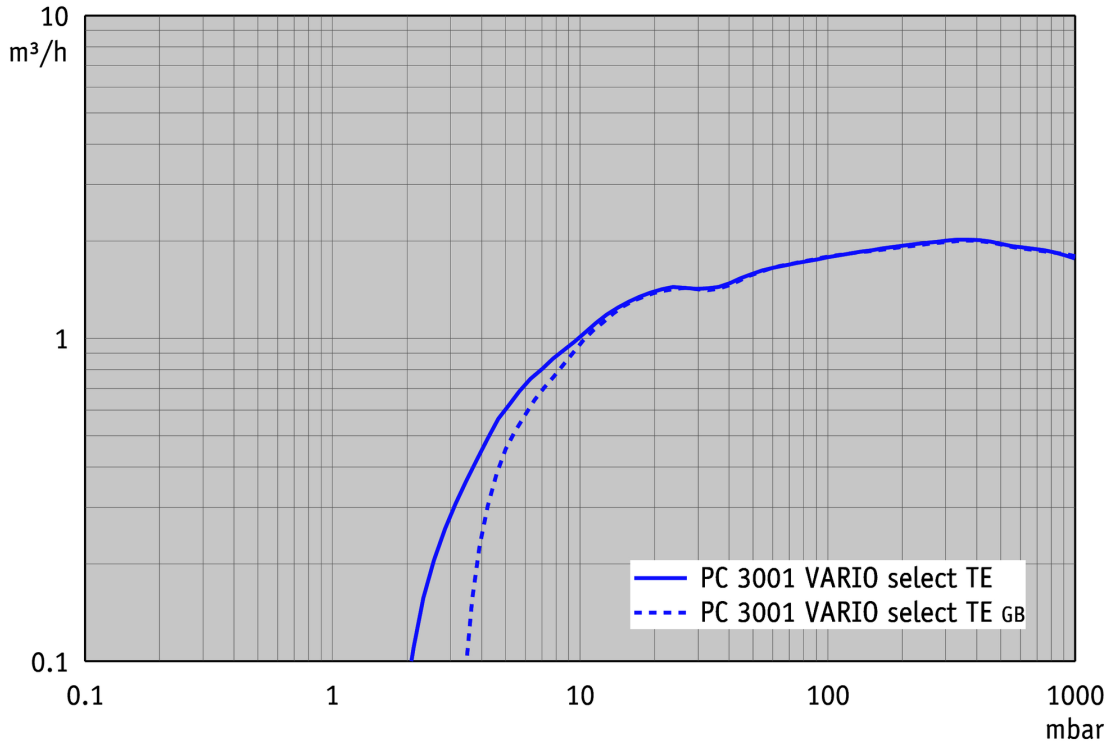
Technical data

Max. pumping speed 50 Hz (m^3/h)	2 m^3/h
Max. pumping speed 60 Hz (cfm)	1.18 cfm
Ultimate vacuum	2.0 mbar / 1.5 torr
Ultimate vacumm with gas ballast	4 mbar / 3 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 6-10 mm
Outlet connection	Hose nozzle DN 8-10 mm
Rated motor power	0.16 kW
Motor speed range	200 - 3000 min^{-1}
Protection class IEC 60529	IP 20
Dimensions (L x W x H)	301 mm x 341 mm x 493 mm
Weight	8.7 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	42 dBA
ATEX conformity	II 3/- G Ex h IIC T3 Gc X Internal Atm. only
NRTL certification	Yes
Interface	Ethernet (RJ45): Modbus TCP / USB (Type A): Data transfer, software update, RS-232 (additional adapter required)

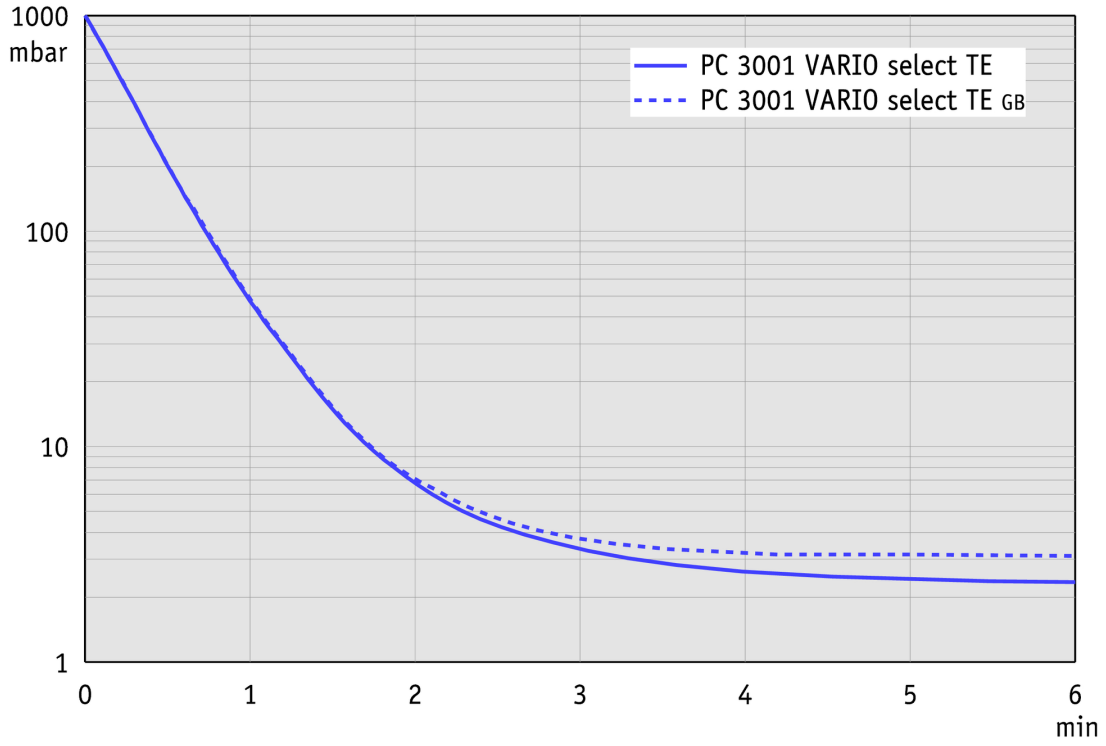
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Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (10 l volume)

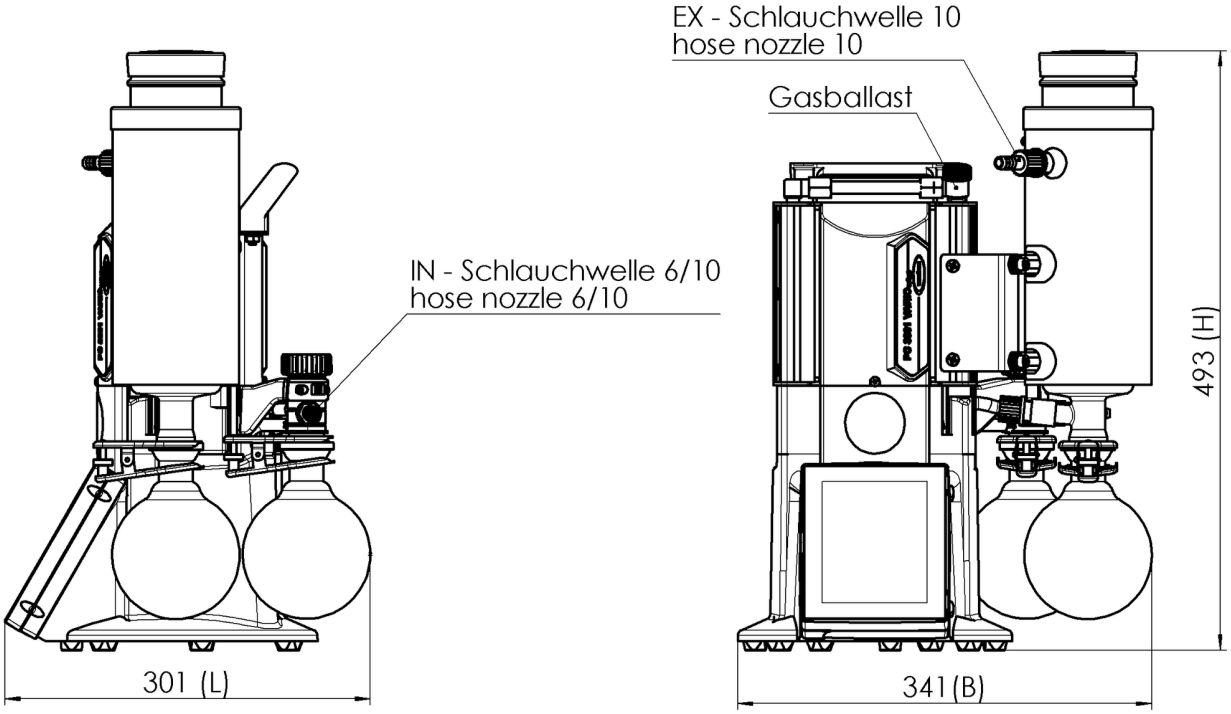


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Dimension sheet





Alle Maße / all dimensions (mm)
Gewicht / weight 8,7 kg

VACUUBRAND PC 3001 VARIO select TE
Version 2017/06/29

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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:
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