VACUUBRAND®

VARIO® chemistry pumping unit PC 3004 VARIO select EKP



Link to the website

Product description

The PC 3004 VARIO select EKP 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.The PC 3004 VARIO select EKP with Peltronic emissions condenser achieves high solvent recovery without the need for a coolant line or dry ice supply.

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

Technical data are subject to change without notice
© VACUUBRAND GMBH + CO KG | 2026

Link to the website:
https://shop.vacuubrand.com/20737574

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
PC 3004 VARIO select EKP	200-230 V | 50-60 Hz	IEC plug EN 60320	20737574

Items supplied

Pumping unit with included Peltronic emission condenser, with operating manual, without power cable.

Accessories

- Function extension for VACUU·SELECT controller VACUU·SELECT User Management (20700900)
- Cooling water valve VKW-B (20674220)
- Air admittance valve VB M-B (20674217)
- Fluid level sensor for round bottom flask 500 ml 500 ml (20699908)
- Vacuum tubing transparent DN 8 mm (20686061)
- Adjustable elbow DN 10/8 mm (20637873)
- Set of diaphragms and valves MD 4C NT/VARIO / PC 3003 / PC 3004 (20696870)
- 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)
- Set of diaphragms and valves MD 4C NT/VARIO / PC 3003 / PC 3004 (20696870)

Technical data are subject to change without notice
© VACUUBRAND GMBH + CO KG | 2026

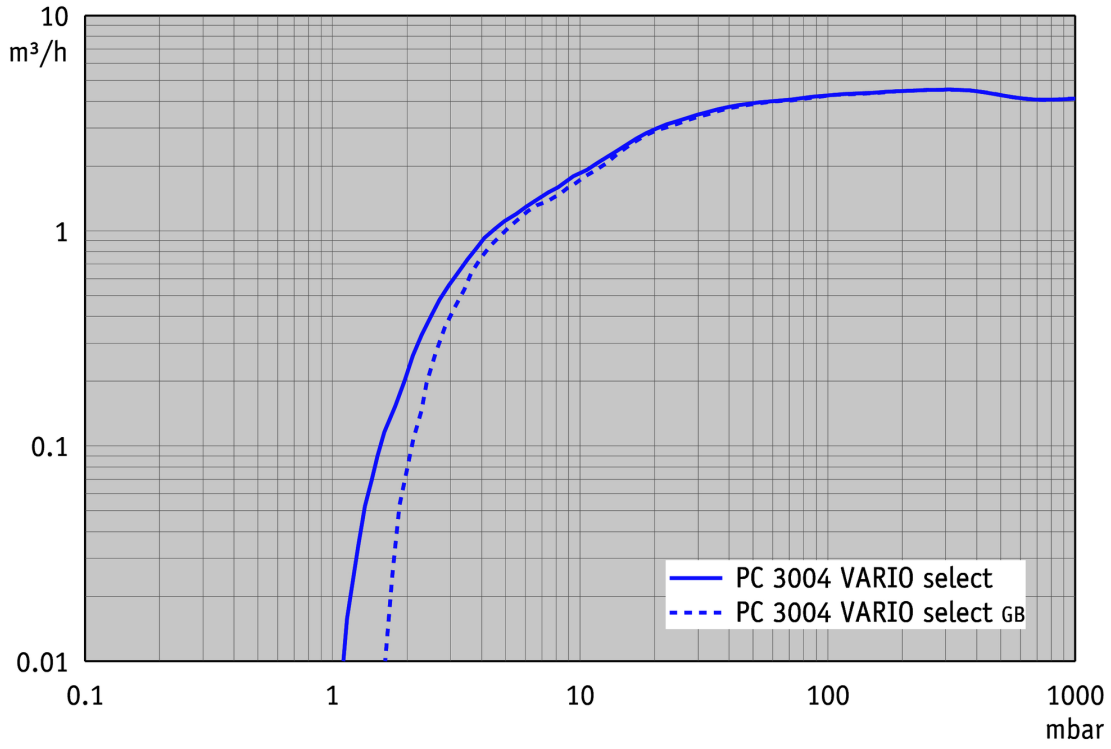
Technical data

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
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)	405 mm x 361 mm x 457 mm
Weight	25.2 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)

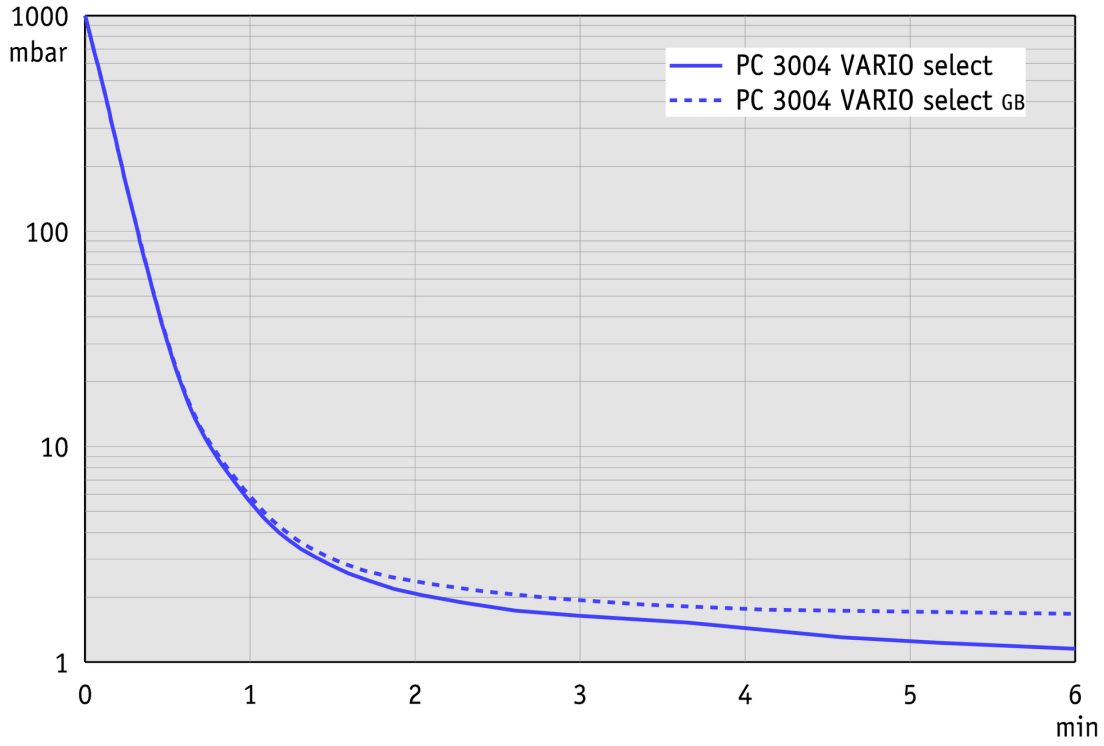
Technical data are subject to change without notice
© VACUUBRAND GMBH + CO KG | 2026

Link to the website:
https://shop.vacuubrand.com/20737574

Pumping speed graph at 50 Hz



Pump down graph at 50 Hz (10 l volume)



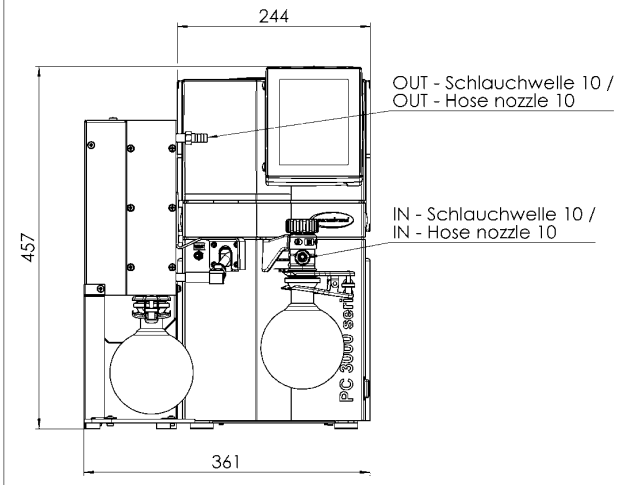
Technical data are subject to change without notice
© VACUUBRAND GMBH + CO KG | 2026

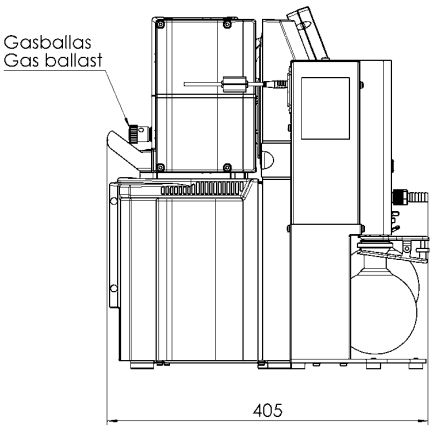
Link to the website:
https://shop.vacuubrand.com/20737574

Dimension sheet



Das Eigentums- u. Urheberrecht an dieser Zeichnung bleibt uns vorbehalten!
All rights reserved by VACUUBRAND GMBH + CO KG





Maßblatt / Dimensions
PC 3004 VARIO select EKP

VACUUBRAND®

Alle Maße in mm
Technische Änderung vorbehalten

All dimensions in mm
Technical data are subject to change without notice

10000019084-000-01

© VACUUBRAND GMBH + CO KG | 2026

Link to the website:
https://shop.vacuubrand.com/20737574

VACUUBRAND GMBH + CO KG
P.O. Box 1664
97877 Wertheim
T +49 9342 808 5550
F +49 9342 808 5555

info@vacuubrand.com
www.vacuubrand.com

VACUUBRAND

VACUUBRAND is part of the Brand group, a manufacturer of high-quality and innovative laboratory equipment and vacuum technology with a global team of approx. 1,000 employees.

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.

Together with you, our experts will find the best solution for your application and provide you with first-class service along the way.

© VACUUBRAND GMBH + CO KG

BRAND (Shanghai) Trading Co., Ltd.
Shanghai, China

T +86 21 6422 2318
info@brand.com.cn
china.brand.com.cn

BRAND Scientific Equipment Pvt. Ltd.
Mumbai, India

T +91 22 42957790
customersupport@brand.co.in
www.brand.co.in

BRANDTECH® Scientific, Inc.
Essex, CT. United States of America

T +1 860 767 2562
info@brandtech.com
www.brandtech.com

BRANDGROUP®