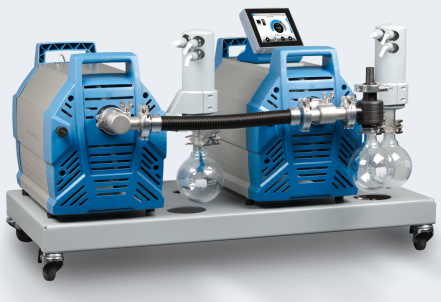
VACUUBRAND®

VARIO® chemistry pumping unit PC 3012 NT VARIO select DUO



Link to the website

Product description

The VARIO® DUO pumping units are consisting of a combination of two individual VARIO® pumping units, connected in parallel on the suction side and driven synchronously by one vacuum controller VACUU·SELECT. The vacuum is controlled accurately. The speed of the two individual pumps is exactly adjusted to the vacuum needs. The controller allows both fully automatic distillations without any user pre-settings as well as specific and reproducible program sequences. The integration into existing control systems via digital and analog interfaces is also possible. The consequent design to highest chemical resistance provides the ideal prerequisite for universal use in chemistry and pharmacy - without any operating fluid such as water or oil.

Performance features

- VACUU·SELECT vacuum controller with graphical user interface and predefined applications easy to integrate via digital or analogue interfaces
- automatic boiling point detection and adjustment of the vacuum for short process times
- meets high vacuum requirements for very large quantities of most high boiling solvents
- extraordinary diaphragm life for minimum operational and servicing costs
- excellent environmental compatibility through low energy consumption, no operating fluid needs (oil, water) and efficient solvent recovery

Technical data are subject to change without notice
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https://shop.vacuubrand.com/22615741

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
PC 3012 NT VARIO select DUO	200-230 V | 50-60 Hz	IEC plug EN 60320	22615741

Items supplied

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

Accessories

- Function extension for VACUU·SELECT controller VACUU·SELECT User Management (20700900)
- Clamping ring for small flange KF DN 20/25 (20660001)
- External centring ring for small flange KF DN 20/25 (20660196)
- Vacuum tubing PVC with internal stainless steel spiral, with small flanges KF DN 25 (20686021)
- Fluid level sensor for round bottom flask 500 ml 500 ml (20699908)
- Cooling water valve VKW-B (20674220)
- Air admittance valve VB M-B (20674217)
- Set of diaphragms and valves MD 12C NT / MV 10C NT (20696839)
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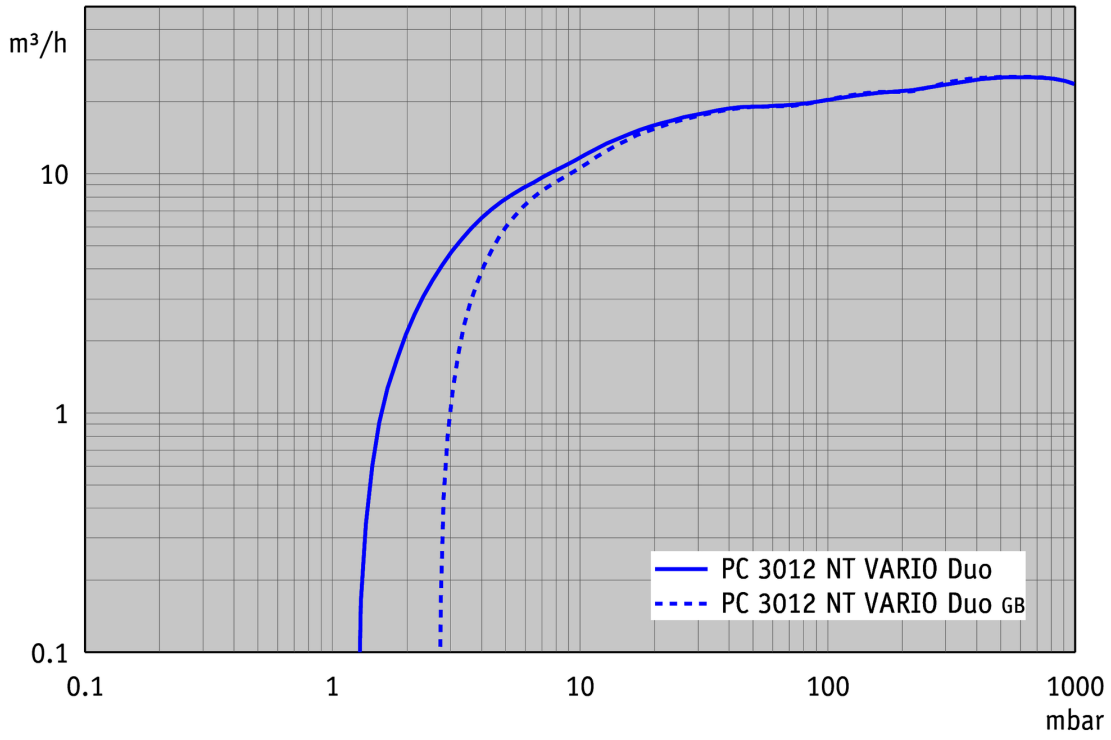
Technical data

Max. pumping speed 50 Hz (m^3/h)	28 m^3/h
Max. pumping speed 60 Hz (cfm)	16.5 cfm
Ultimate vacuum	1.5 mbar / 1.1 torr
Ultimate vacumm with gas ballast	3 mbar / 2.2 torr
Number of heads	16
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	Small flange KF DN 25 / hose nozzle DN 15 mm
Outlet connection	2 x hose nozzle DN 10 mm
Coolant connection	4 x hose nozzle DN 6-8 mm
Rated motor power	1.06 kW
Motor speed range	30 - 2400 min^{-1}
Protection class IEC 60529	IP 40
Dimensions (L x W x H)	612 mm x 925 mm x 585 mm
Weight	65 kg
Noise (sound pressure level) in dBA at 50 Hz or 1500 rpm/62% (VARIO)/1500 rpm (VARIO-SP)/12500 Upm (VACUU·PURE®)	53 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)

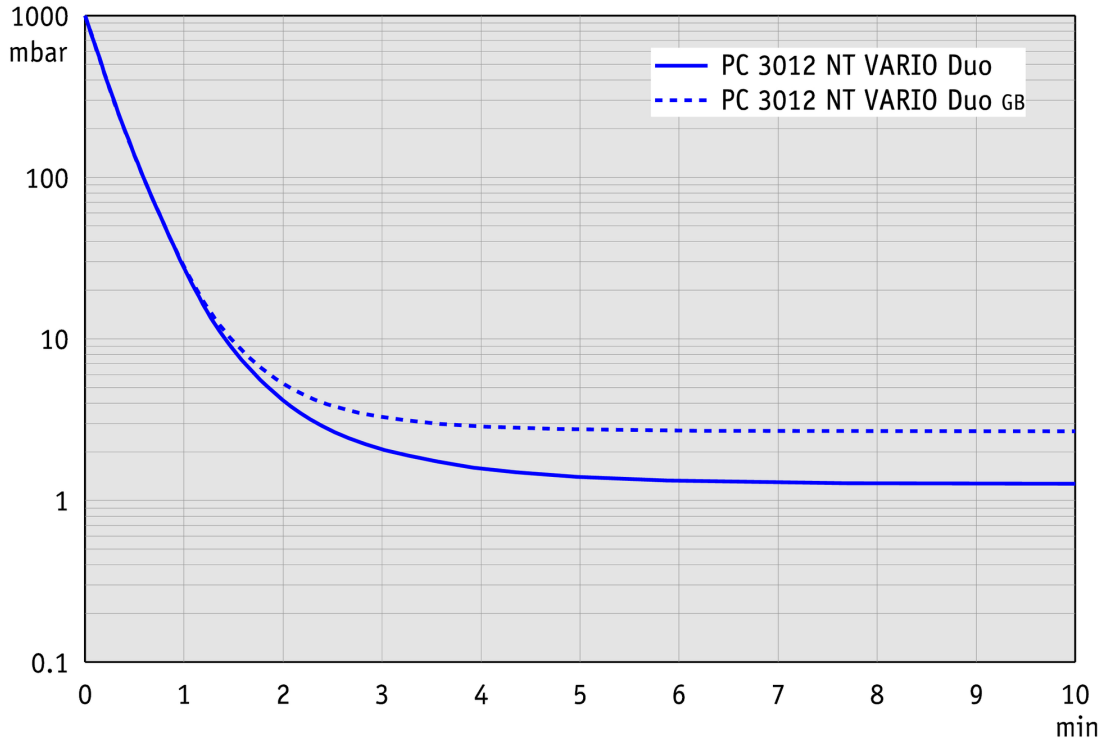
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Pumping speed graph at 50 Hz



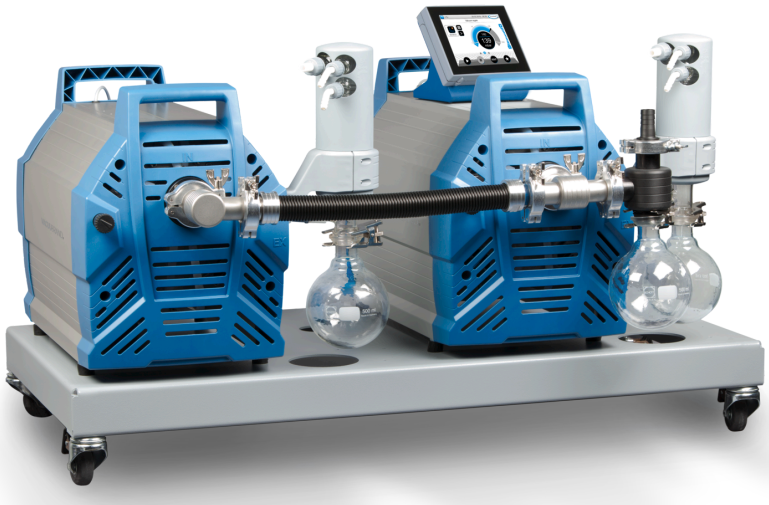
Pump down graph at 50 Hz (100 l volume)

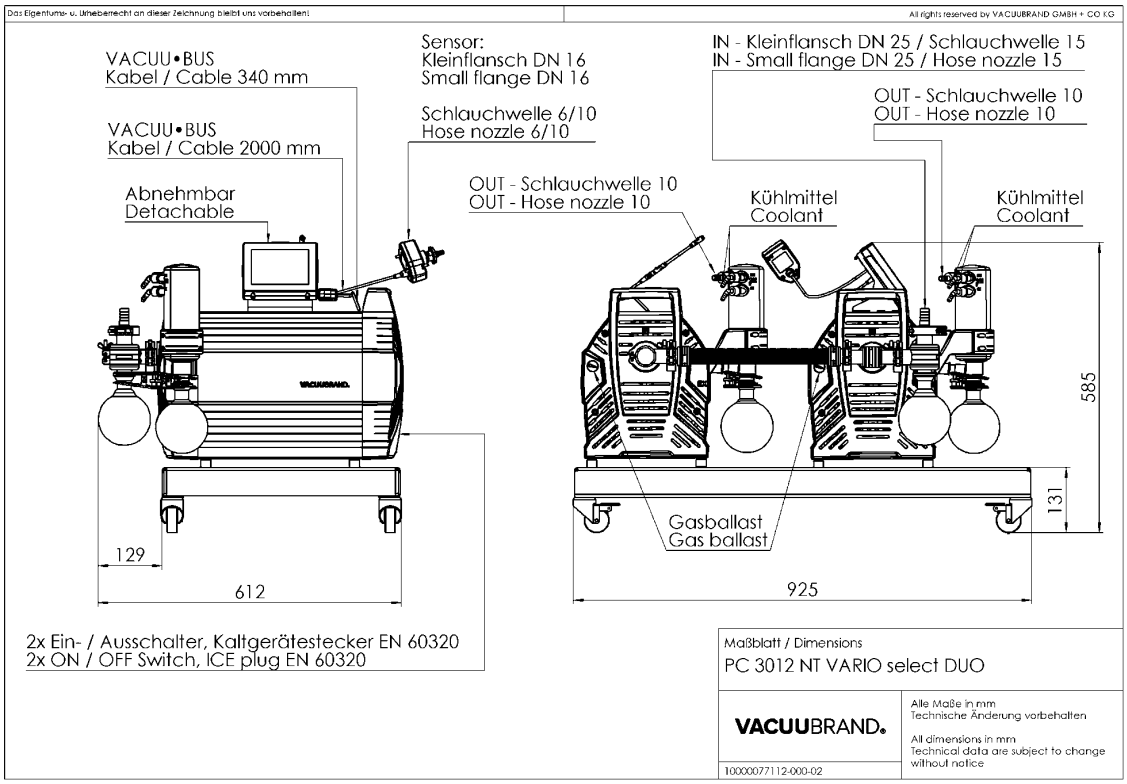


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Dimension sheet





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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.

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