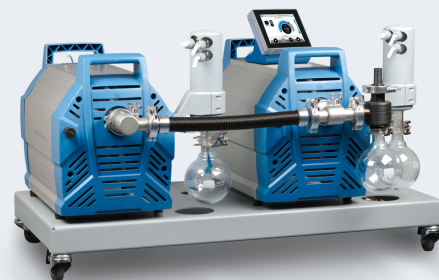


# VARIO® chemistry pumping unit PC 3012 NT VARIO select DUO

[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

## 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.

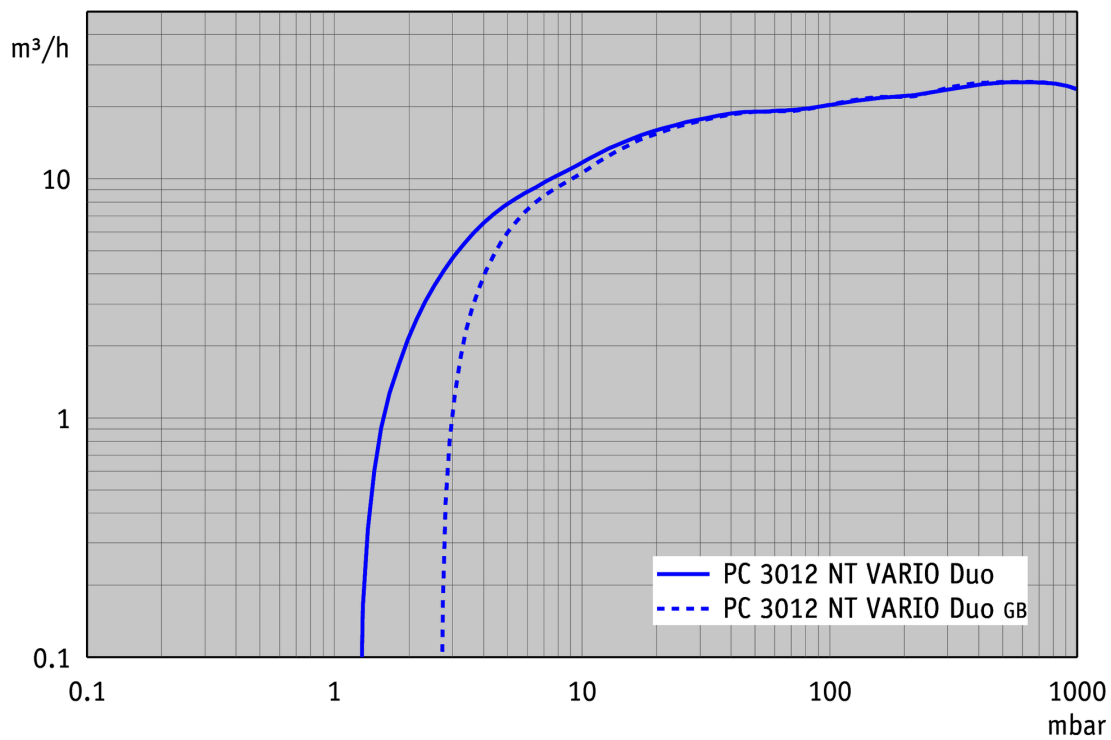
## Accessories

- 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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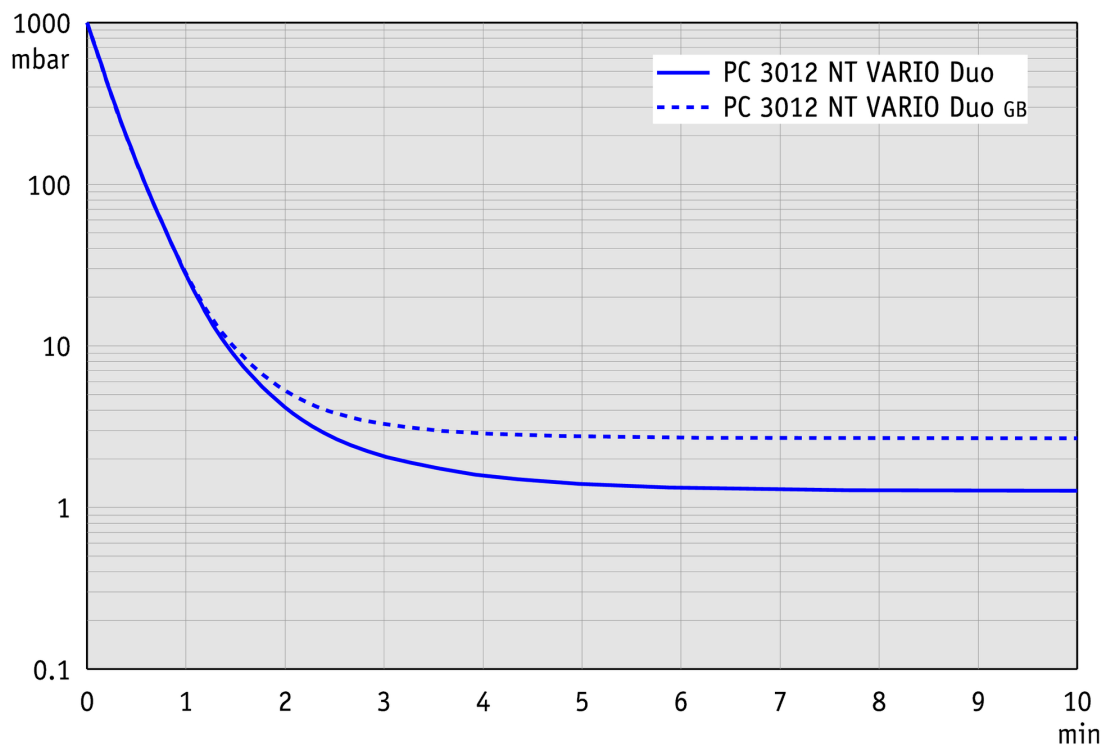
## Technical data

| Max. pumping speed 50 Hz (mbar)  | 28 m <sup>3</sup> /h   |
|--|--|
| Max. pumping speed 60 Hz (cfm)   | 16.5 cfm   |
| Ultimate vacuum  | 1.5 mbar / 1.1 torr  |
| Ultimate vacuum 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 <sup>-1</sup>  |
| 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) |

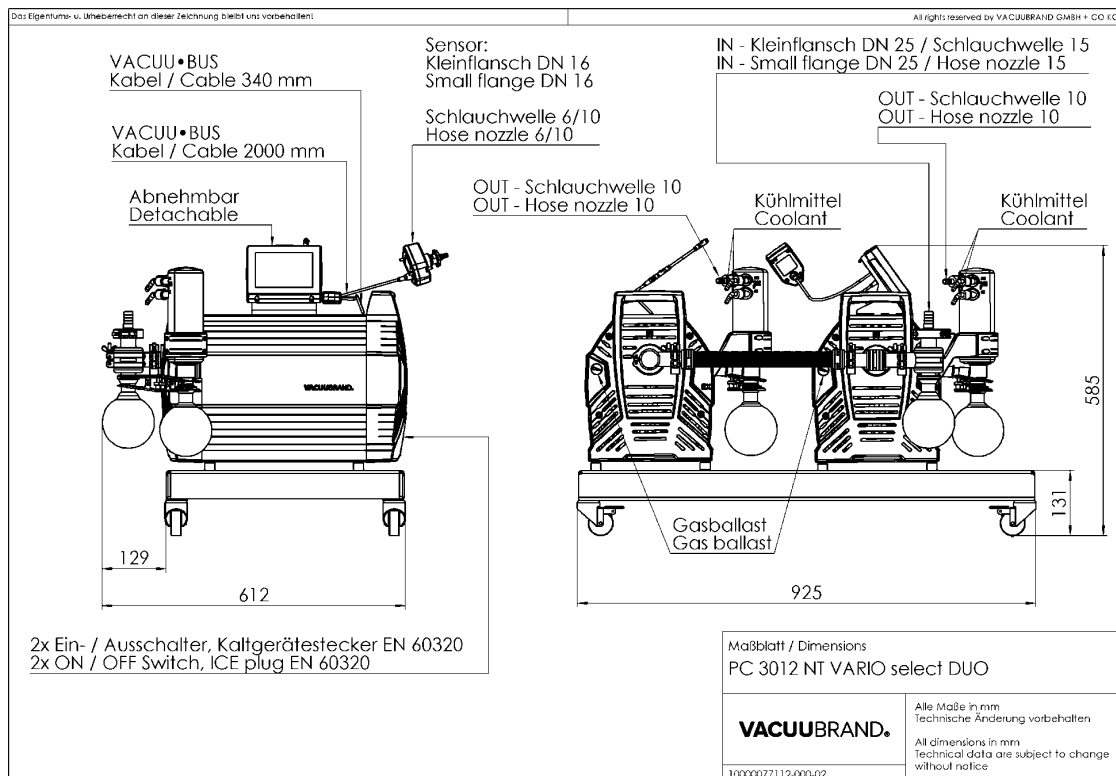
## Pumping speed graph at 50 Hz



## Pump down graph at 50 Hz (100 l volume)



## Dimension sheet



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