VARIO® chemistry pumping unit PC 3012 NT VARIO select EKP

Order no.: 25743874

The PC 3012 NT VARIO select pumping unit precisely controls the vacuum level in order to achieve unparalleled process control. With its combination of high pumping speed and deep ultimate vacuum, this pump is suitable for demanding applications with even high boiling point solvents. This pump is regularly used to support floor-standing rotary evaporators, vacuum drying ovens, distillation columns, and other similar work in miniplants, kilo labs, and scale-up facilities. 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.
In addition, the VARIO control maintains the desired vacuum level by running the motor only as fast as 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
- meets high vacuum requirements for large quantities of most high boiling solvents
- extraordinary diaphragm life for minimum operational and servicing costs
- excellent environmental compatibility through low energy consumption and efficient solvent recovery

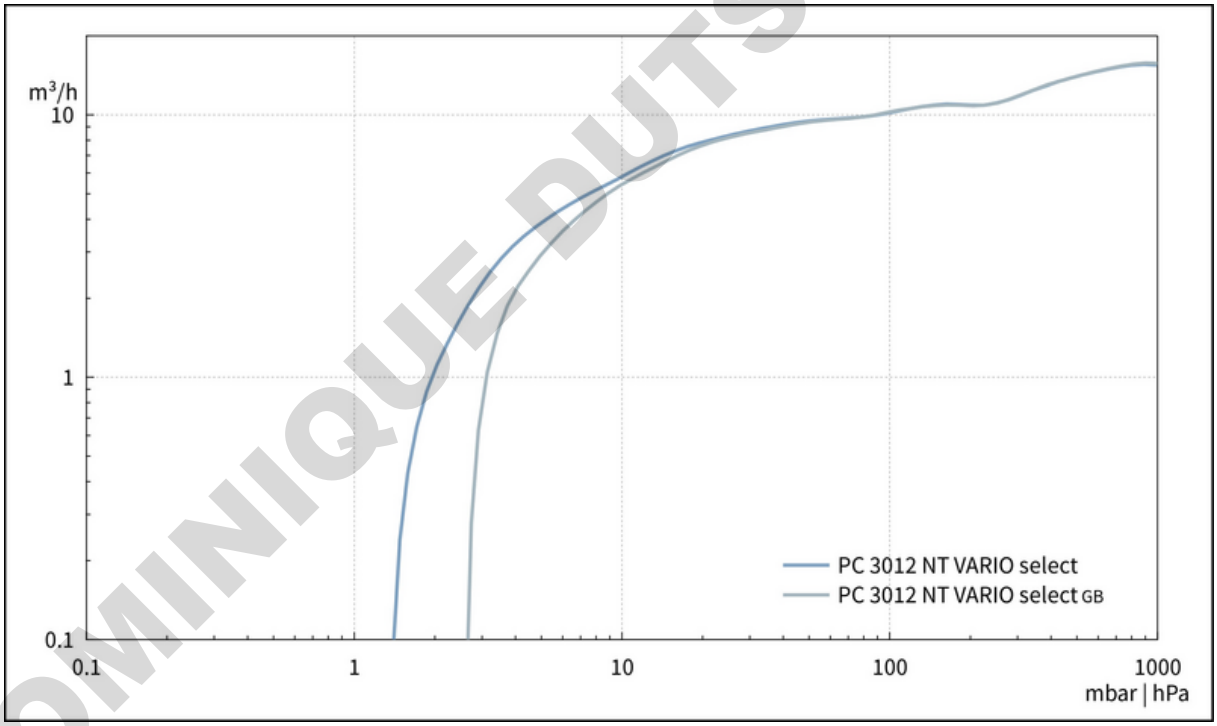
Technical data

Vacuum controller		VACUU·SELECT
Number of heads / stages		8 / 3
Max. pumping speed at 50/60 Hz	m³/h	14.3 / 14.3
Max. pumping speed at 50/60 Hz	cfm	8.4 / 8.4
Ultimate vacuum (abs.)	mbar/torr	1.5 / 1.1
Ultim. vac. (abs.) with gas ballast	mbar/torr	3 / 2.2
Ambient temperature range (operation)	°C	10 - 40
Ambient temperature range (storage)	°C	-10 - 60
Max. back pressure (abs.)	bar	1.1
Inlet connection		Small flange KF DN 25 / hose nozzle DN 15 mm
Outlet connection		Hose nozzle DN 15 mm

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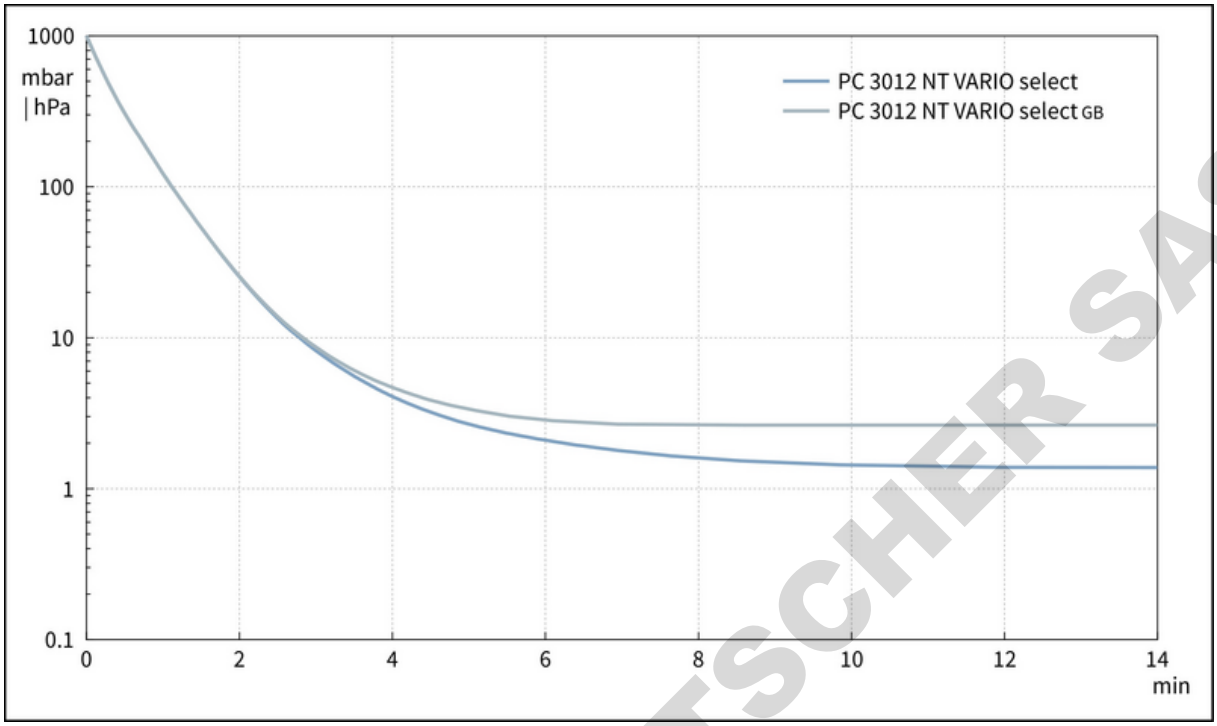
Rated motor power	kW	0.53
Motor speed range	min^{-1}	30 - 2400
Protection class		IP 40
Dimensions (L x W x H), approx.	mm	616 x 435 x 450
Weight, approx.	kg	33.6
Noise level at 50 Hz, typ.	dBA	47
CE mark		Yes
ATEX conformity		II 3/- G Ex h IIC T3 Gc X Internal Atm. only
Items supplied		Pumping unit completely mounted, ready for use, with manual.
Accessories		PTFE tubing KF DN 25 (1000 mm: 20686033) Centering and sealing ring KF DN 25 C Al/FEP (20635722)

Pumping speed graph at 50 Hz

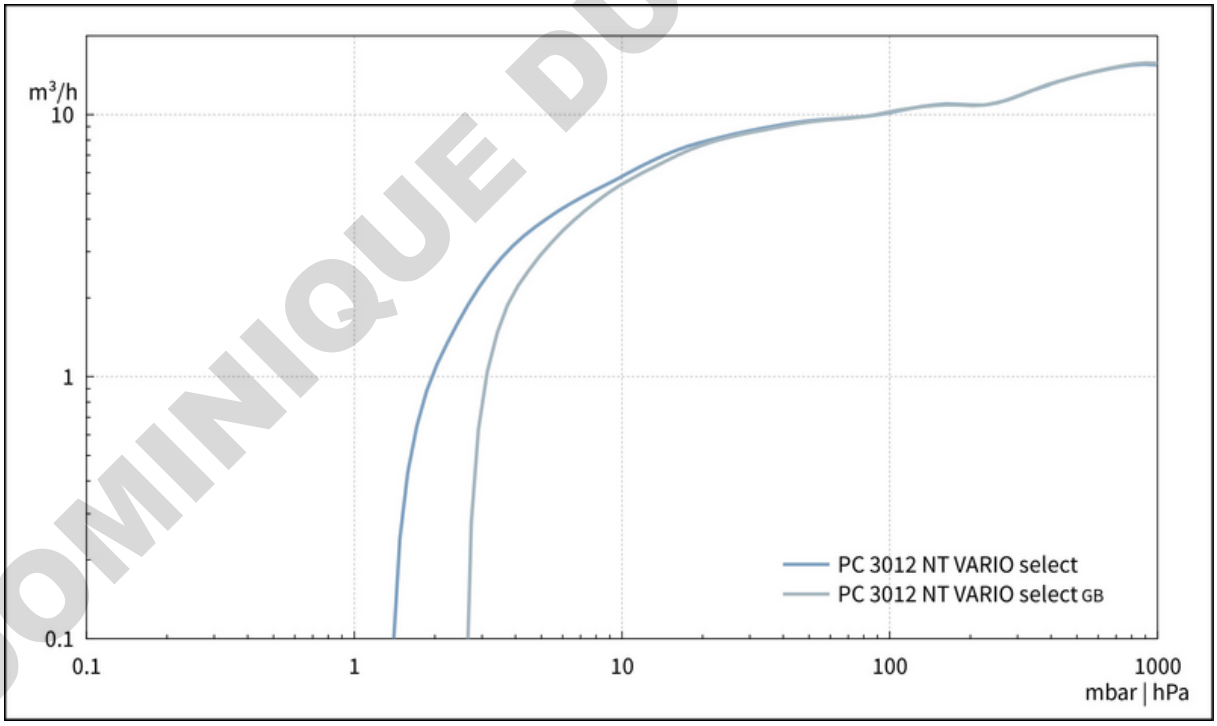


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Pump down graph at 50 Hz
(100 l volume)

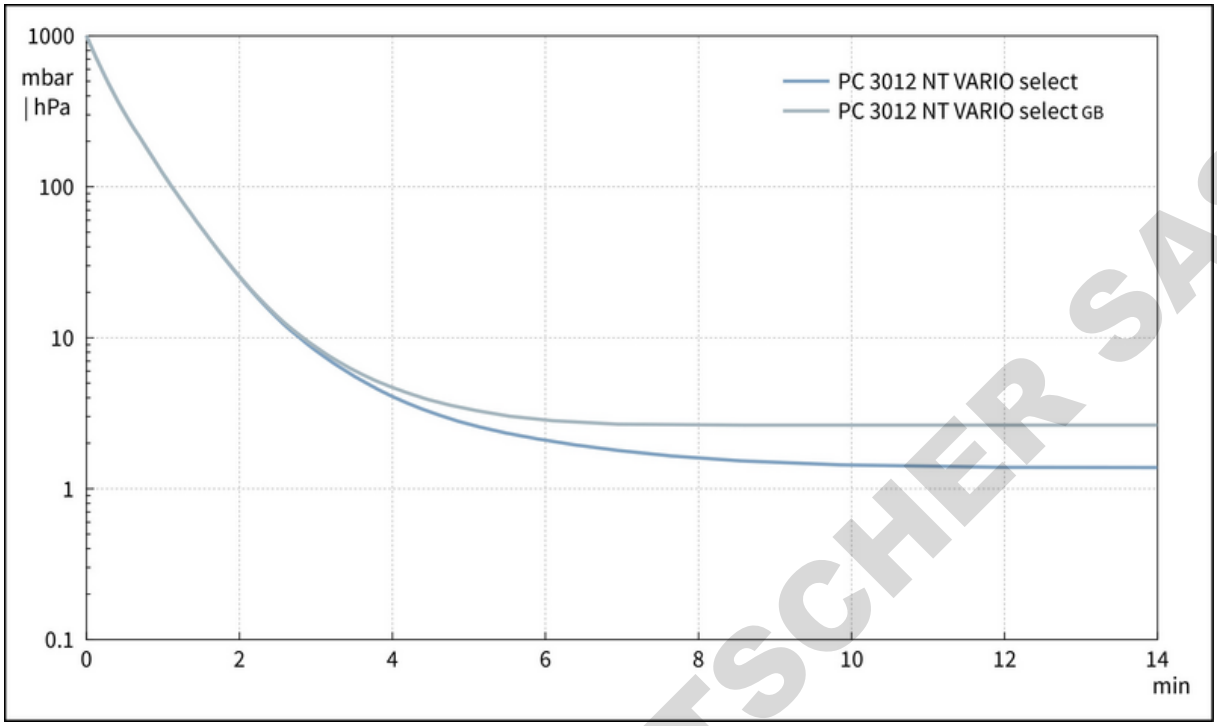


Pumping speed graph at 60 Hz



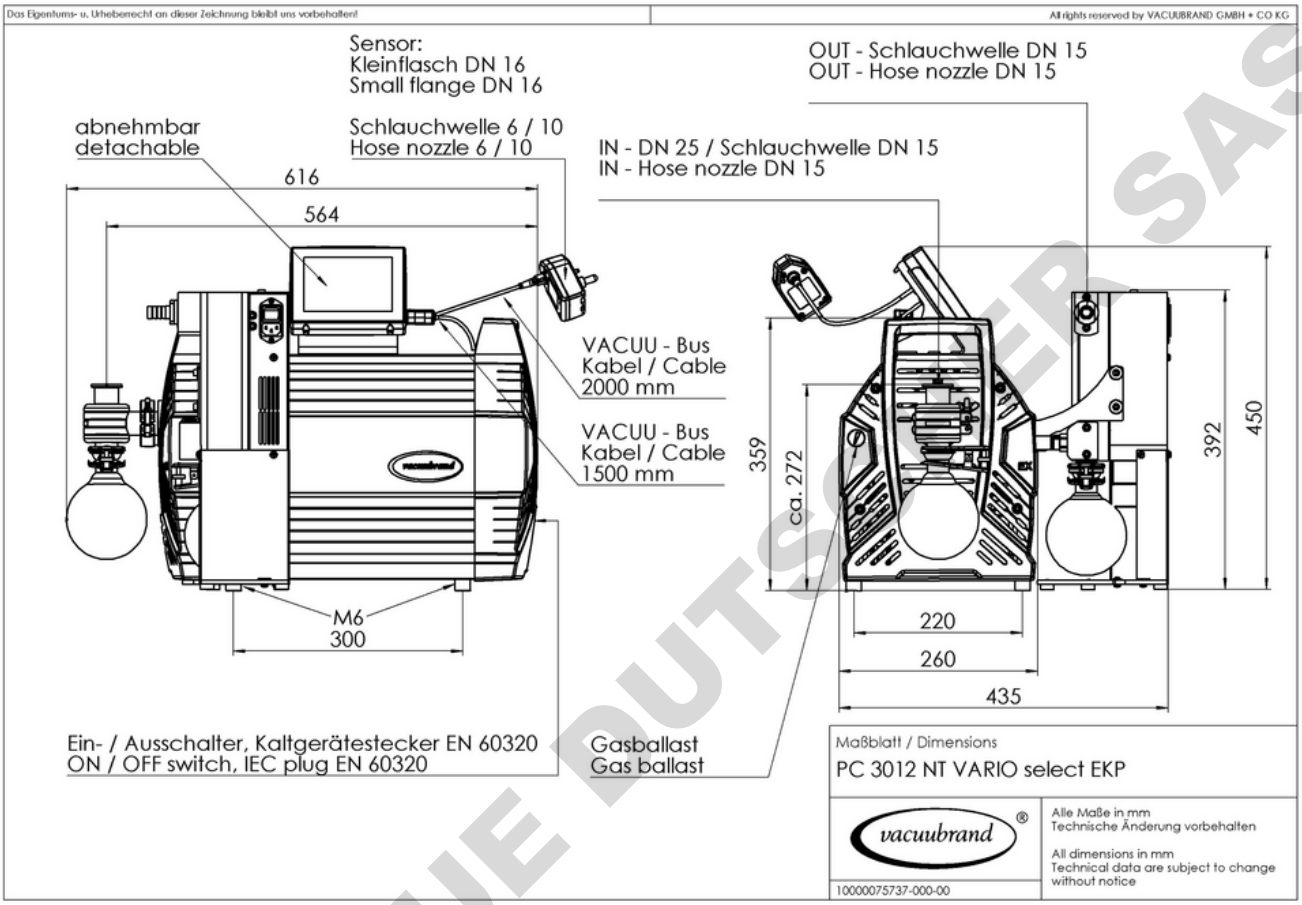
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Pump down graph at 60 Hz
(100 l volume)



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Dimension sheet



Ordering data

Product name	Mains voltage and frequency	Plug	Order no.
PC 3012 NT VARIO select EKP	200-230 V~ 50-60 Hz	IEC plug EN 60320	25743874

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