VACUUBRAND®

Vacuum controller bench-top device CVC 3000 detect



Link to the website

Product description

The CVC 3000 detect is a ready to use two-set-point vacuum controller - available both as bench-top device and as a unit designed for attaching to a lab scaffold. It consists of the vacuum controller CVC 3000 with integrated ceramic vacuum sensor and venting valve that forms together with a non-return valve and the chemically resistant solenoid valve a very compact and easy to install unit for vacuum control. The electronic vacuum control increases the process efficiency and decisively improves the solvent recovery for existing vacuum sources like oil-free vacuum pumps or vacuum networks. In the “detect” mode the controller does approach and detect the boiling pressure and switches to the two-point vacuum control mode by itself. Manual settings are possible at any time during current operation.

Performance features

- detect function for independent vapor pressure detection - time saving for other tasks
- compact unit with chemically resistant vacuum valve and common laboratory hose connections - immediately ready for use
- the vacuum measuring is integrated within the valve block - direct connection of the CVC 3000 detect between pump and vacuum application
- integrated venting valve - simple pressure balance or ventilation with inert gas at the end of the process
- non-return valve - no interference of parallel applications at a common vacuum source

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Link to the website:
https://shop.vacuubrand.com/22614860

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
CVC 3000 detect	100-230 V | 50-60 Hz	CEE/CH/UK/US/AUS/CN	22614860

Items supplied

Vacuum controller CVC 3000 detect bench-top device, complete with vacuum solenoid valve, non-return valve, integrated ceramic diaphragm vacuum sensor and venting valve. With power supply, ready to use, with manual

Accessories

- Rubber vacuum tubing DN 8 mm (20686001)

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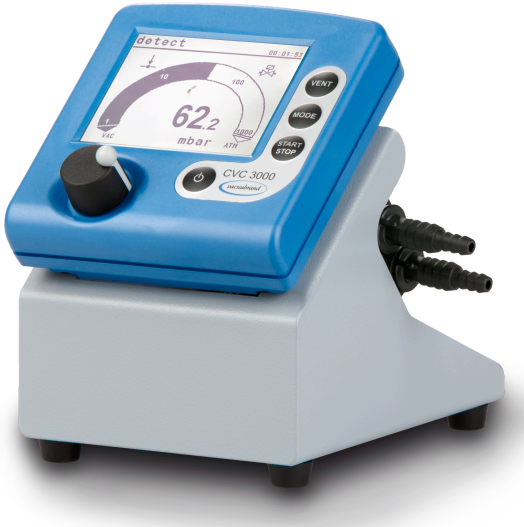
Technical data

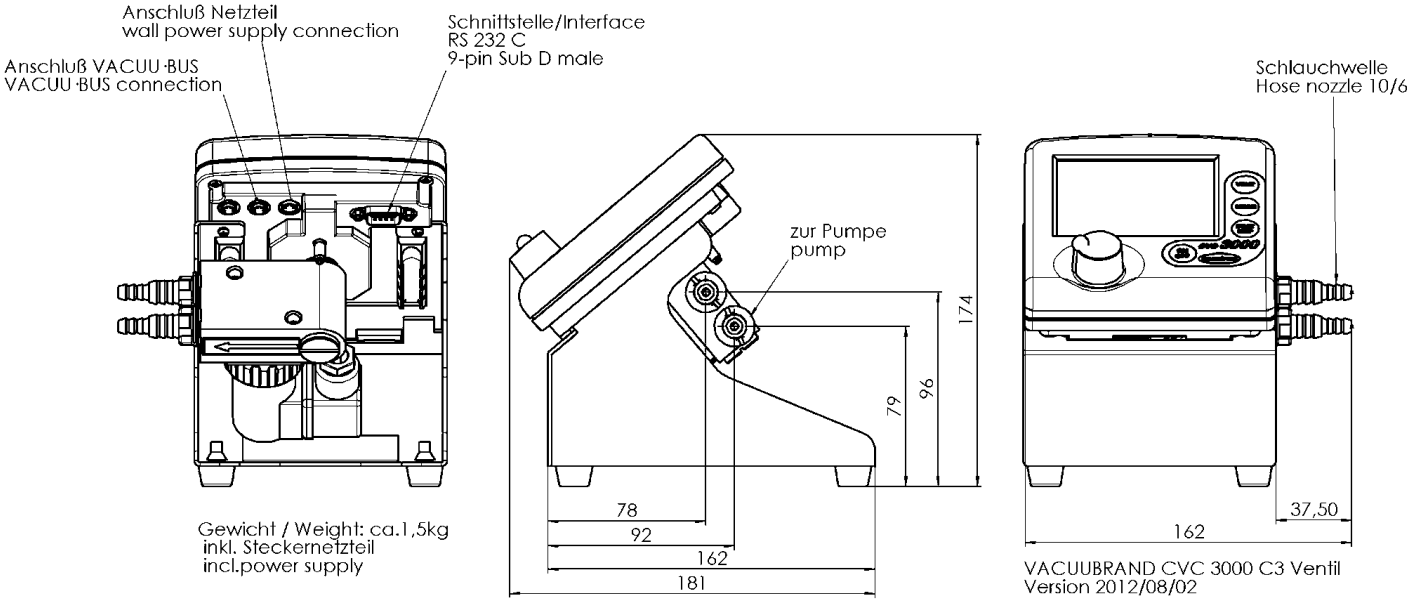
Measuring range (mbar)	1080 - 0.1 mbar
Measuring range (torr)	810 - 0.1 torr
Control range (mbar)	1060 - 0.1 mbar
Control range (torr)	795 - 0.1 torr
Measurement principle	Ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Accuracy of measurement	< +- 1 mbar/hPa/torr / +- 1 digit (after adjustment, constant temp.)
Vacuum sensor	Integr.
Temperature coefficient	< 0.07 mbar/hPa/0.05 torr /K
Vacuum sensor connection	Hose nozzle DN 6/10 mm
Venting valve, connection	Integrated, hose nozzle DN 4-5 mm
Permissible ambient temperature range (operation)	10 - 40 °C
Permissible ambient temperature range (storage)	-10 - 60 °C
Max. media temperature (continuous operation)	40 °C
Max. media temperature for short times	80 °C
Material of outer housing	Robust plastic housing with good chemical resistance
Protection class IEC 60529	IP 20
Protection class UL50E	Type 1
Protection class of front side according to IEC 60529	IP 42
Dimensions (L x W x H)	181 x 162 x 174 mm
Weight	1.5 kg
Max. breaking capacity / breaking current 24V/VACUU·BUS®	4 A
Cable length connection	2 m
ATEX conformity	II 3/- G Ex h IIC T3 Gc X Internal Atm. only
NRTL certification	Yes
Interface	RS 232C

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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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