VACUUBRAND®

Vacuum controller CVC 3000E



Link to the website

Product description

The CVC 3000 manages vacuum processes by controlling vacuum pumps, vacuum and coolant valves and accessories. The illuminated graphical display with clear text menus (14 languages) and the jog wheel make its handling nearly self-explanatory. Depending on the model, a ceramic diaphragm vacuum sensor and venting valve are already integrated (or externally connectable). The ceramic vacuum sensor is chemically highly resistant, measures gas-type independent and accurately. This controller offers a two-point vacuum control mode via in-line solenoid valve. Ten fully configurable programs (with up to ten time and pressure steps each, and control functions such as venting and pumping) can be easily edited and stored. External valves and sensors for liquid level and vacuum down to the fine vacuum range are easy to connect and recognized automatically via the VACUU·BUS® control system. Besides the CVC 3000 enables the measurement of relative pressure with regard to a reference sensor (VSK 3000).

Performance features

- controls vacuum, cooling water and venting on demand
- intuitive operation with turn-and-tap jog wheel and clear text menus, with integrated venting valve
- interactive communication (PC) through RS 232C serial interface
- self-configuring due to VACUU·BUS® system: valves (vacuum, venting, coolant), sensors (vacuum, liquid level), Peltronic® condenser

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Link to the website:
https://shop.vacuubrand.com/20635027

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
CVC 3000E	VACUU·BUS | DC	VACUU·BUS®	20635027

Items supplied

CVC 3000 for installation

Accessories

- Rubber vacuum tubing DN 8 mm (20686001)

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Technical data

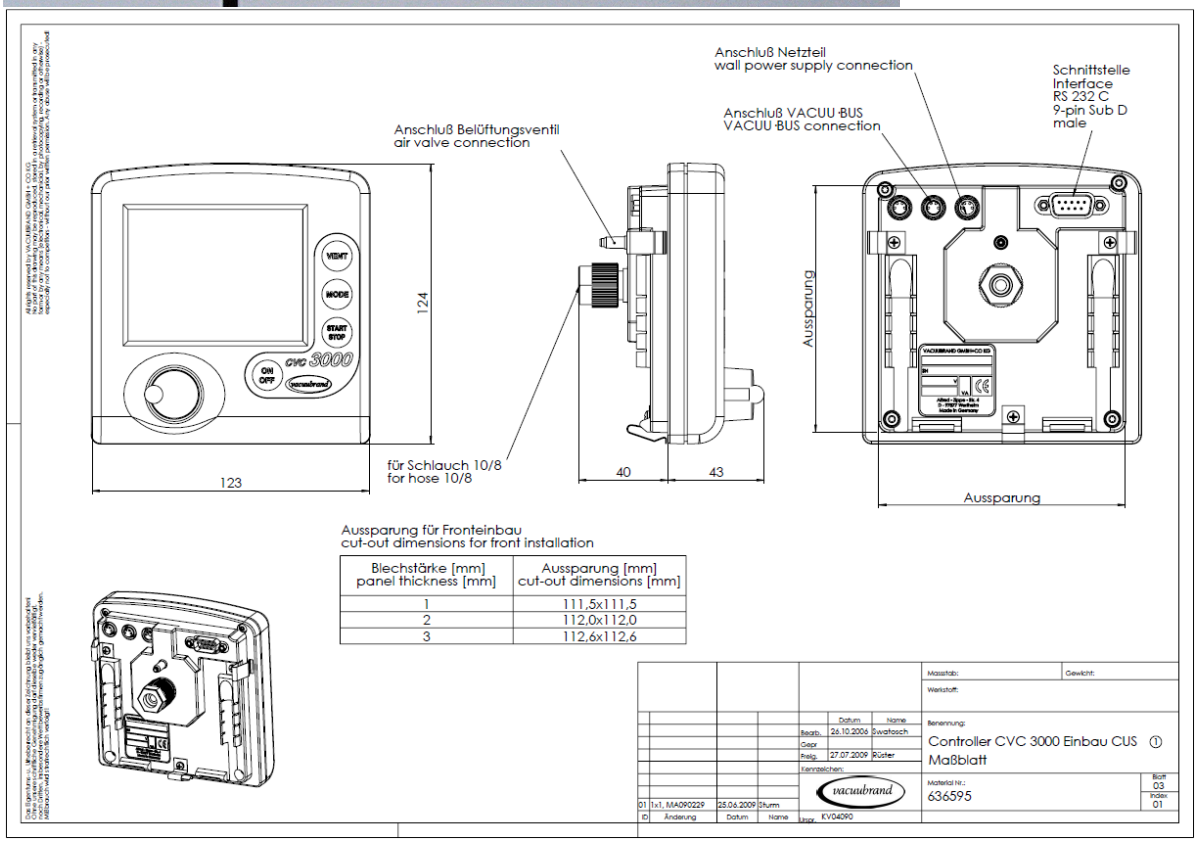
Measuring range (mbar)	1080 - 0.1 mbar
Measuring range (torr)	810 - 0.1 torr
Control range (mbar)	1060 - 0.1 mbar
Control range (torr)	795 - 0.1 torr
Measurement principle	Ceramic diaphragm (alumina), capacitive, gas indep., absolute pressure
Accuracy of measurement	< +- 1 mbar/hPa/torr / +- 1 digit (after adjustment, constant temp.)
Vacuum sensor	Integr.
Temperature coefficient	< 0.07 mbar/hPa/0.05 torr /K
Vacuum sensor connection	PTFE tubing connection 10/8 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)	123 x 124 x 83 mm
Weight	0.44 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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