

# 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

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

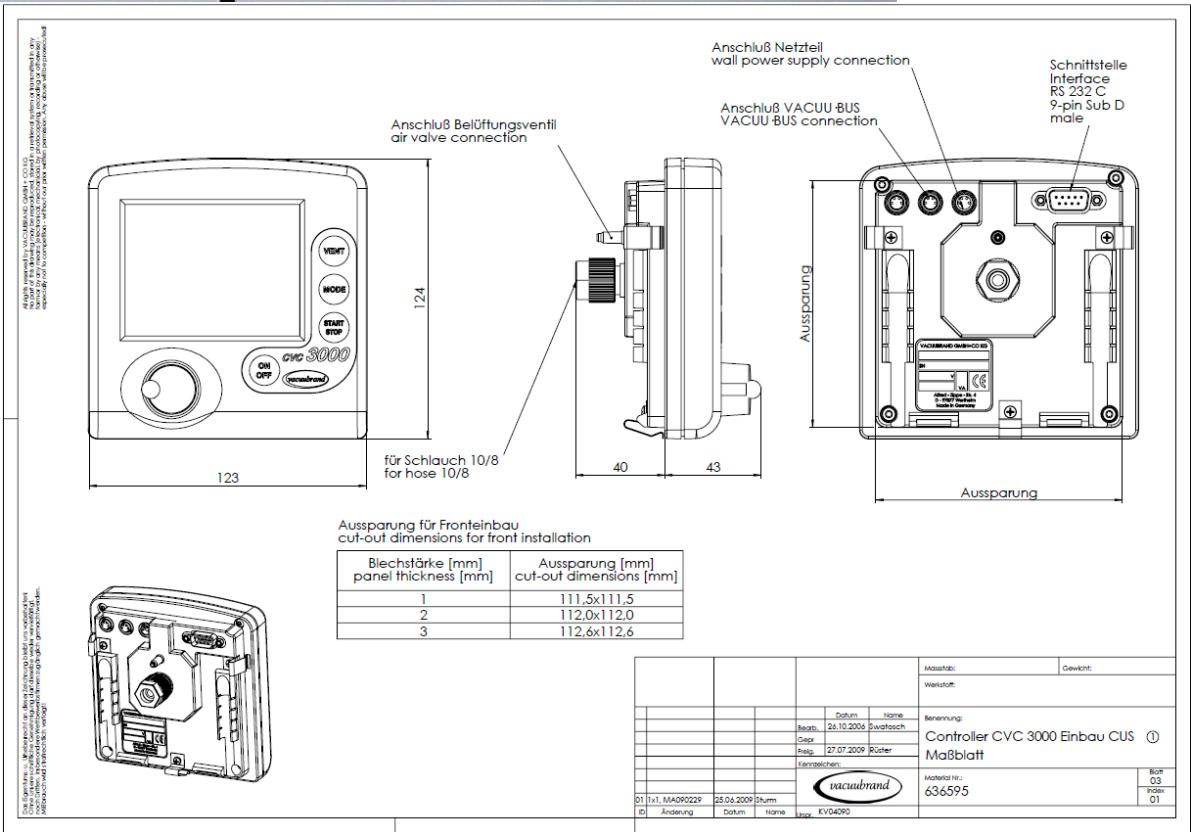
Accessories

- Rubber vacuum tubing DN 8 mm (20686001)

## Technical data

| Measuring range (mbar)                                   | 1080 - 0.1 mbar  |
|--|--|
| Measuring range (torr)                                   | 810 - 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  |

Dimension sheet



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