

## Data Sheet

Laboratory reactors / Vacuum



### VC 10 Vacuum controller

Universal vacuum controller for a two-point calibration of multiple vacuum sources. It comes with a chemo resistant ceramic pressure sensor. The high-resolution TFT display ensures intuitive operation and navigation. The ventilation valve works even during a power outage and aerates the vacuum chamber. In addition to the manual mode, up to 10 programs can be saved, with up to 10 pressure/time sequences, even allowing for saving the last experiment run. It is possible to manage the experiment via labworldsoft (RS 232 interface) and to connect an external PT 1000 temperature sensor to measure the temperature of all applications. The knob also emergency stops the controller and aerates the vacuum chamber. The longevity of the valves is supported by the cleaning function which can be adjusted for every application. The operation of the vacuum controller is facilitated by a choice of languages (menu). The firmware of the device can be regularly updated with the free Firmware Update Tool (via USB).

Accessories: VC 10.300 Check valve, VC 10.400 Stand, PT 1000.60 Temperature sensor, stainless steel, VH.SI.8 Vacuum hose

#### Technical Data

Connection diameter suction side [mm]	8
Connection diameter pressure side [mm]	8
Connection diameter venting side [mm]	8
Input pressure [mbar]	1 - 1050
Boiling point detection	yes
Solvent library	yes
Two-point control	yes
Analog speed vacuum control	yes
Display	TFT
Pressure unit / scale	mbar, hPa, mmHg, Torr
Vacuum sensor	yes
Vacuum sensor type	ceramic Al <sub>2</sub> O <sub>3</sub>
Pressure max. for pressure sensor [bar]	1.6
Measurement range (absolute) [mbar]	1 - 1100
Control range [mbar]	1 - 1100
Resolution pressure [mbar]	1
Measurement uncertainty [mbar]	1
Medium temperature (gas) [°C]	5 - 40
Vacuum valve	yes
Venting valve	yes
Connection for ext. temperature sensor	PT1000
Temperature unit	°C / °F
Temperature measuring range [°C]	-10 - 200
Temperature measurement resolution [K]	1
Accuracy of temperature measurement [K]	±1
Timer	yes
Time setting min. [s]	1
Time setting max. [min]	6000
Two dot vacuum control interface	VC2.4
Vacuum speed control interface	MVP 10 digital
Material in contact with medium	Al <sub>2</sub> O <sub>3</sub> , PTFE, FPM, PPS
housing material	PBT
Fastening	stand / clamp
Fastening diameter [mm]	16
Dimensions (W x H x D) [mm]	95 x 150 x 110
Weight [kg]	1.5
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
USB interface	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	24
Power input standby [W]	2
DC Voltage [V=]	24
Current consumption [mA]	1000

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