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## VC 10 pro

/// Data Sheet

Valve-controlled, universal vacuum controller for controlled evacuation of air (gas) from laboratory equipment, as well as for classical separation, filtration or drying tasks in the laboratory. The controller is ready-to-use in numerous applications and can be easily installed.

VC 10 pro can be used with all standard vacuum sources. The use of multiple controllers with one vacuum source is possible.

Features:



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- On/off regulation of multiple vacuum sources
- Automatic boiling point detection
- Integrated solvent library: Helps to set the correct parameters for example in evaporation processes with rotary evaporators
- Graph function
- Connection for external temperature sensor: temperature value is shown on display
- Valve cleaning function for long service life
- Integrated ventilation valve for simple pressure equalization and aeration with inert gas after process completion
- VENT short key button allows pressure equalization during a running process
- Program function: up to ten user-defined programs can be saved, with up to ten pressure/time sequences
- USB / RS232 interfaces for connection with the laboratory software labworldsoft®
- Electronic control system for improved process efficiency and higher solvent recovery rate
- High energy efficiency thanks to device-to-device communication (vacuum controller to recirculating chiller)

For additional safety for users and environment, the use of the VSE 1 vacuum safety emission condenser is recommended, which prevents solvents from being released into the room air. The VSE 1 is available as an accessory.



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## 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
Vacuum speed control interface	VACSTAR
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
Mode automatic	yes
Mode manual	yes
Mode pump %	yes
Mode program	yes
Graph function	yes
Chiller control	yes
Vacuum leakage test	yes
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



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Frequency [Hz]	50/60
Power input [W]	24
Power input standby [W]	2
DC Voltage [V=]	24
Current consumption [mA]	1000