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VC 10 lite

/// Data Sheet

Speed-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 lite is compatible with the vacuum pumps VACSTAR digital and VACSTAR lite. A cable connection between pump and controller is required.
Manual and programmable mode available.

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Features:
- Valve cleaning function for long service life
- High energy efficiency thanks to device-to-device communication: control of the circulator by connecting the vacuum controller with PC 1.3 data cable (available as accessory)
- 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.

Scope of delivery
•VC 10 lite
•USB Cable - USB A to Micro-B, 2 m

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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
Analog speed vacuum control	yes
Display	TFT
Pressure unit / scale	mbar, hPa, mmHg, Torr
Vacuum sensor	yes
Vacuum sensor type	ceramic Al2O3
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
Venting valve	yes
Temperature measuring range max. [°C]	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	Al2O3, PTFE, FPM, PPS
Housing material	PBT
Fastening	stand / clamp
Fastening diameter [mm]	16
Mode manual	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]	1.284
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	Micro-USB
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