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VACSTAR lite Starter Solution Vacuum pump

/// Data Sheet

The VACSTAR lite Starter Solution package is a modern and user-friendly solution for your vacuum applications in the laboratory. By combining the VC 10 lite vacuum controller with the VACSTAR lite vacuum pump, the desired setpoint can be conveniently set manually via the large and easy-to-read TFT display. In addition, the program mode enables simple programming of several ramp steps to efficiently control complex simulations.

This solution is perfect for a wide range of classic laboratory applications, including separation, filtration and drying processes. Ideal for use in conjunction with rotary evaporators, reactors, tempering chambers, centrifuges and other laboratory equipment.



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Advantages and technical features:

- Integrated device communication: the vacuum controller synchronizes seamlessly with circulators, resulting in optimized laboratory processes and increased overall performance.
- Longer life cycle: An integrated valve cleaning function removes solvent residues, extending system life and reducing maintenance.
- USB/RS232 interfaces: These enable connection to labworldsoft® laboratory software for advanced process control.

For additional safety and to protect the environment, we recommend using the vacuum safety emission condenser VSE 1 (available as an accessory), which prevents solvents from escaping into the room air.

Scope of delivery

- VACSTAR lite
- VC 10 lite
- VC 10.600 Stand pole



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Technical Data

Pump rate max. (50/60Hz) [m³/h]	1
Pump rate max. (50/60Hz) [l/min]	16.67
Final pressure [mbar]	9
Suction levels	2
Cylinder	2
Connection diameter suction side [mm]	8
Connection diameter pressure side [mm]	8
Input pressure [mbar]	10 - 1030
Analog speed vacuum control	yes
Speed range [rpm]	285 - 1100
Speed (50Hz) [rpm]	1100
Speed (60Hz) [rpm]	1100
Nominal speed [rpm]	1100
Display	TFT
Pressure unit / scale	mbar, hPa, mmHg, Torr
Vacuum sensor	yes
Vacuum sensor type	ceramic Al ₂ O ₃
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
Timer	yes
Time setting min. [s]	1
Time setting max. [min]	6000
Noise at low. pressure [dB(A)]	54
Material in contact with medium	Al ₂ O ₃ ; PTFE; FFPM; PPS; NBR
Housing material	alu-cast coating / thermoplastic polymer
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]	115 x 445 x 280
Weight [kg]	9.8
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity	80% (up to 31°C), decreasing linearly to max. 50 (@40°C)
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
USB interface	USB-C
Analog output	yes
Analog input	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	144



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Power input standby [W]	3.5
Fuse	2x T4A 250V