



designed for scientists



VACSTAR lite

/// Data Sheet

VACSTAR lite is a speed-controlled, 2-cylinder vacuum pump for universal use in dry and oil-free vacuum applications. Equipped with chemically resistant membranes and an ultimate vacuum pressure of 9 mbar, this vacuum pump is ideal for almost all standard vacuum applications in the laboratory.

Optimized for use with rotary evaporators, laboratory reactors, temperature chambers, centrifuges and other laboratory equipment, as well as classic Schlenk line and standard filtration systems, VACSTAR lite offers high operating efficiency and flexibility. The robust design ensures long-term reliability with minimal maintenance, making it an ideal peripheral device for standard laboratory processes.



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Advantages and technical features:

- Compact and thin design: Thanks to its small footprint, VACSTAR lite can be conveniently placed behind other lab equipment, saving valuable bench space while remaining easily accessible.
- Integrated device communication: The pump enables seamless communication between devices such as vacuum controllers and circulators, ensuring synchronized laboratory processes. This feature optimizes process control and increases overall system performance.
- Longer system life: In combination with the VC 10 lite vacuum controller, the system has an integrated valve cleaning function that removes solvent residues and thus extends the life of the vacuum system. Regular ventilation prevents the build-up of contamination and reduces maintenance costs.

The use of the VSE 1 emission condenser (available as an accessory) is recommended. This ensures the safety of users from escaping solvent vapors and at the same time keeps the ambient air clean.

Technical Data

Pump rate max. (50/60Hz) [m³/h]	1
Pump rate max. (50/60Hz) [l/min]	16.67
Final pressure without gas ballast [mbar]	9
Suction levels	2
Cylinder	2
Connection diameter suction side [mm]	8
Connection diameter pressure side [mm]	8
Input pressure [mbar]	10 - 1030
Two-point control	yes
Analog speed vacuum control	yes
Speed range [rpm]	285 - 1100
Speed (50Hz) [rpm]	1100
Speed (60Hz) [rpm]	1100
Nominal speed [rpm]	1100
Display	LED line
Pressure unit / scale	mbar
Vacuum speed control interface	VACSTAR
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
Dimensions (W x H x D) [mm]	115 x 292 x 280
Weight [kg]	8.5
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
USB interface	yes
Analog input	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	120
Power input standby [W]	1.5
Fuse	2x T4A 250V