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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.

Technical Data

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| 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 |