VACUUBRAND®

Package fine vacuum control VACUU·SELECT + VSP 3000, KF DN 16



Link to the website

Product description

The VACUU·SELECT fine vacuum control packages provide an easy-to-use vacuum control option for work down to 10^{-3} mbar. These packages include the VACUU·SELECT controller with fine vacuum gauge, a chemical-resistant inline isolation valve (VV-B 15C), and the accessories required for connection to your vacuum system via small flange (KF) connections. VACUUBRAND offers fine vacuum control packages with two different small flange connections. The KF DN 16 fine vacuum control package is compatible with our rotary vane pump models RE / RZ 2.5 to RE / RZ 6 and our HYBRID pump RC 6. The KF DN 25 fine vacuum control package is configured for use with our RE / RZ 9 rotary vane pumps and VACUU·PURE screw pumps. With its intuitive, application-based user interface, the controller allows you to quickly get your fine vacuum process under control. For advanced processes, pre-defined applications can be modified, and new applications can be created to optimize your process conditions. The included inline solenoid valve and sensor are automatically configured via the proprietary VACUU·BUS system.

Performance features

- Complete package for vacuum control of all fine vacuum applications in chemical labs, with continuous control range from 5 mbar to fine vacuum (10^{-3} mbar)
- graphic user interface for simple operation
- predefined applications for quick, reproducible results
- application editor allows easy customization
- proprietary Pirani-type fine vacuum gauge offers superior chemical resistance and mechanical robustness

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Link to the website:
https://shop.vacuubrand.com/20700101

Ordering data

Product name	Nominal mains voltage | mains frequency	Plug type	Articleno.
VACUU·SELECT + VSP 3000, KF DN 16	100-230 V | 50-60 Hz	CEE/CH/UK/US/AUS/CN	20700101

Items supplied

Package for fine vacuum control, consisting of: Vacuum controller VACUU-SELECT (without internal vacuum sensor and venting valve) with VSP 3000 and power supply, solenoid valve VV-B 15C KF DN 16, T-piece KF DN 16, hose nozzle DN 10 mm (PP), clamping and sealing rings, ready for use, with manual.

Accessories

- Function extension for VACUU·SELECT controller VACUU·SELECT User Management (20700900)
- Rubber vacuum tubing DN 8 mm (20686001)
- Air admittance valve VB M-B (20674217)
- Function extension for VACUU·SELECT controller VACUU·SELECT User Management (20700900)
- Rubber vacuum tubing DN 8 mm (20686001)
- Rubber vacuum tubing DN 8 mm (20686001)

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Technical data

Measuring range (mbar)	1000 - 1 x 10^{-3} mbar
Measuring range (torr)	750 - 1 x 10^{-3} torr
Control range (mbar)	5 - 1 x 10^{-3} mbar
Control range (torr)	3.75 - 1 x 10^{-3} torr
Measurement principle	Thermal conductivity (Pirani), chemically resistant plastics / ceramics
Accuracy of measurement	+- 15% of indicated value in the range 0.01-5 mbar/hPa/torr
Vacuum sensor	VSP 3000
Temperature coefficient	+- 0.2 mbar/hPa/0.15 torr /K
Vacuum sensor connection	Small flange KF DN 16 / hose nozzle DN 10 mm
Venting valve, connection	No
Permissible ambient temperature range (operation)	10 - 40 °C
Permissible ambient temperature range (storage)	-10 - 60 °C
Max. media temperature (continuous operation)	40 °C
Max. media temperature for short times	80 °C
Material of outer housing	Robust plastic housing with good chemical resistance
Protection class IEC 60529	IP 40
Protection class UL50E	Type 1
Protection class of front side according to IEC 60529	IP 41
Protection class of front side according to UL50E	Type 2
Dimensions (L x W x H)	152 x 127 x 41 mm
Weight	0.6 kg
Max. breaking capacity / breaking current 24V/VACUU·BUS®	4 A
Cable length connection	2 m
NRTL certification	Yes
Interface	Ethernet (RJ45): Modbus TCP / USB (Type A): Data transfer, software update, RS-232 (additional adapter required)

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Dimension sheet



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VACUUBRAND

VACUUBRAND is part of the Brand group, a manufacturer of high-quality and innovative laboratory equipment and vacuum technology with a global team of approx. 1,000 employees.

With highly motivated and qualified employees, we manufacture the world's most comprehensive product family for vacuum generation, measurement and control for the rough and fine vacuum range in the laboratory.

All with one goal:
Enabling our customers to run reliable, safe and efficient processes. This is why we commit ourselves to continuous innovation, first-class performance, and outstanding quality.

Engineering excellence is central to our ability to deliver products and solutions renowned for their quality, durability, and reliability. Innovative technology, high quality materials and extensive testing deliver unmatched performance - engineered and manufactured in Germany.

Together with you, our experts will find the best solution for your application and provide you with first-class service along the way.

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