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VACUUM CONTROL MADE EASY |
Vacuum controller VC 10 lite & VC 10 pro

Vacuum controllers VC 10 lite & pro

/// Plug & play for all applications

Universal vacuum controllers VC 10 lite and pro for controlled evacuation of air (gas) from laboratory equipment, as well as for classical separation, filtration or drying tasks in the laboratory. The controllers are ready-to-use in numerous applications and can be easily installed.

The integrated valve cleaning function guarantees a particularly long life cycle of the vacuum system. By venting of the system, solvent residues in the pump can be completely removed. This function can be individually adjusted for every application.

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.



VC 10 lite

Ident. No. 0020111998

Speed-controlled

Compatible only with VACSTAR digital, cable connection with vacuum pump is required.



VC 10 pro

Ident. No. 0020112031

Valve-controlled

Can be used with all standard vacuum sources; use of multiple controllers with one vacuum source possible.

FEATURES

- › Valve cleaning function for long service life
- › 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)

ADDITIONAL FEATURES OF VC 10 PRO

- › On/off regulation of multiple vacuum sources
- › Automatic boiling point detection
- › Integrated solvent library: Helps to set the correct parameters for example in evaporation processes with rotary evaporators
- › Graph function
- › Connection for external temperature sensor: temperature value is shown on display



Experimental set-up

VC 10 lite in combination with
VACSTAR digital vacuum pump,
RV 3 V rotary evaporator and
RC 2 lite recirculating chiller

TECHNICAL DATA	VC 10 LITE VC 10 PRO
Chiller control	Yes
Vacuum leakage test	Yes
Memory function	Yes
Vacuum sensor	Yes
Min. input pressure	1 mbar
Max. input pressure	1050 mbar
Manual operation	Yes
Programmable	Yes
Dimensions (W x H x D)	95 x 150 x 110 mm
Protection class acc. to DIN EN 60529	IP 20
RS 232 / USB interface	Yes
Voltage	100 – 240 V

ACCESSORIES



VC 10.300
Check valve
Ident. No. 0020011105

PT 1000.60
Temperature sensor
Ident. No. 0003516800

VC 10.500
Stand pole for VACSTAR
Ident. No. 0035002702



VC 10.400
Table stand
Ident. No. 0035001735

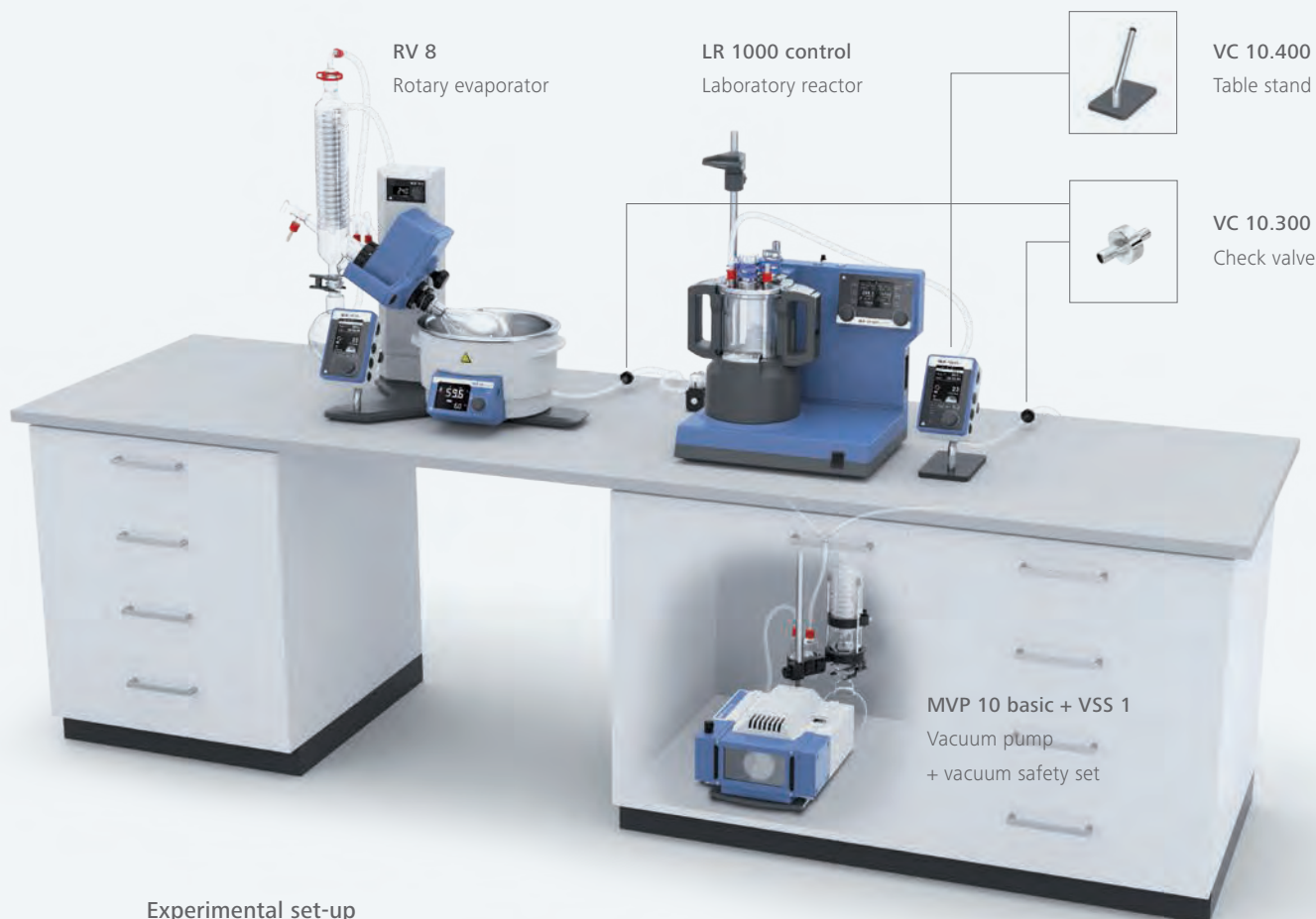
PC 1.3 Data cable
Ident. No. 0025005322

VH.SI.8 Vacuum hose
Ident. No. 0020013886

Y-hose connector, 8 mm
Splitter, PP, max. 135 °C
Ident. No. 0020010963

Further accessories
can be found at www.ika.com

APPLICATION EXAMPLE FOR VC 10 PRO



Experimental set-up

2 x VC 10 pro in combination with MVP 10 basic vacuum pump.

The application example shows two VC 10 pro vacuum controllers connected to one vacuum source. A VC 10.300 check valve has been installed between the MVP 10 basic vacuum pump and each of the vacuum controllers. Depending on the power of the vacuum source, the number of supplied controllers can be multiplied.

Applications

- › Vacuum distillation with a rotary evaporator
- › Chemical process technologies
- › Laboratory reactors, analytical devices
- › Centralized and decentralized vacuum supply
- › Filtration and desiccators
- › Vacuum dryer, oven

IKA-Werke GmbH & Co. KG

Janke & Kunkel-Straße 10, 79219 Staufen, Germany
Phone: +49 7633 831-0, eMail: sales@ika.de



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