

RV 10 control

The fully automated rotary evaporator



RV 10 control

The RV 10 control is the flagship of the new rotary evaporator series by IKA®. It offers all the functions of the RV 10 digital. But the IKA® RV 10 control goes one step further. Like the RV 10 digital, it can be precisely controlled via the RS 232 interface for remote PC operation with IKA®'s labworldsoft® and is thus ideal for automatic operation - but that's not all; the control functions also enable completely automatic distillation both for volume-based processes and full drying depending on the area of application. The expandable solvent library also allows you to incorporate new processes.

Functions and benefits

Same properties as RV 10 digital, with the following additional functions:

- Integrated vacuum controller with central display for automatic distilling and ramp programming
- Integrated solvent library, which can be extended by the user
- Distillation specific parameters stored for standard distillations
- Automatic transfer of measurements and distillation type with one key press
- Programmable volume controlled distillation
- Color graphic display for safe and comfortable operation
- Display of distillation curves
- Multiple languages
- Automatic ventilation at the end of each test
- Cooling water switched off automatically at the end of the test
- Integrated cooling water monitoring
- Heating bath safety management; automatic heating bath monitoring with distillation stop in case of temperature errors
- Heating bath switched off automatically at the end of the test
- USB interface
- 5 years warranty after registration
- **New:** Now RV 10.4002 Magnetic valve included in delivery

RV 10 control		
Model	Description	Ident. No.
RV 10 control V	with heating bath HB 10 control, vertical glassware RV 10.1 and RV 10.4002 Magnetic valve laboratory vacuum	8022700
RV 10 control V-C	with heating bath HB 10 control, vertical glassware, coated RV 10.10 and RV 10.4002 Magnetic valve laboratory vacuum	8023300
RV 10 control FLEX	with heating bath HB 10 control, incl. Woulff bottle and RV 10.4002 Magnetic valve laboratory vacuum	8031600

Technical data

Direct comparison

	RV 10 basic	RV 10 digital	RV 10 control
Packages with glassware	RV 10 basic V RV 10 basic V-C	RV 10 digital V RV 10 digital V-C	RV 10 control V RV 10 control V-C
Cooler type	V=vertical V-C=vertical coated D=diagonal D-C=diagonal coated	V=vertical V-C=vertical coated D=diagonal D-C=diagonal coated	V=vertical V-C=vertical coated D=diagonal D-C=diagonal coated
Cooling surface	1.200 cm ²	1.200 cm ²	1.200 cm ²
Drive			
Motor type	brushless DC drive motor	brushless DC drive motor	brushless DC drive motor
Motor rating input	50 W	50 W	50 W
Speed range	20 to 280 rpm	20 to 280 rpm	20 to 280 rpm
Speed display	digital	digital	digital
Clockwise and counter-clockwise interval operation	yes	yes	yes
Smooth start	yes	yes	yes
Head angle adjustable	0 to 45°	0 to 45°	0 to 45°
Stroke displacement	140 mm, motorised	140 mm, motorised	140 mm, motorised
Setting of lower end stop	60 mm, contact-free	60 mm, contact-free	60 mm, contact-free
Vacuum controller	accessories	accessories	integrated
Heating bath			
Temperature range	RT to 180 °C	RT to 180 °C	RT to 180 °C
Heating power	1.300 W	1.300 W	1.300 W
Controller	capillary tube controller	micro controller	micro controller
Temperature display	scale	digital	digital
Setting accuracy	scale	1 K	1 K
Control deviation	± 5 K	± 1 K	± 1 K
Required accessories for an existing vacuum*			
In-house vacuum (industrial vacuum source for many users)))	RV 10.4002 Magnetic valve **
Laboratory vacuum pump (multiple connections)))	RV 10.4002 Magnetic valve **
Diaphragm vacuum pump (one single connection)))	RV 10.4002 Magnetic valve **
General data			
Dimensions without glassware (W x D x H)	530 x 410 x 570 mm	530 x 410 x 570 mm	530 x 410 x 570 mm
RV 10 diagonal (W x D x H)	890 x 410 x 670 mm	890 x 410 x 670 mm	890 x 410 x 670 mm
RV 10 vertical (W x D x H)	680 x 410 x 990 mm	680 x 410 x 990 mm	680 x 410 x 990 mm
Weight of evaporator incl. heating bath without glass parts	20 kg	20 kg	21,5 kg
Permissible ambient temperature	5 to 40 °C	5 to 40 °C	5 to 40 °C
Protection class acc. to DIN EN 60529	IP 20	IP 20	IP 20
Ident. No.			
Package with vertical glassware, EU plug	8022300	8022500	8022700
Package with vertical coated glassware, EU plug	8022900	8023100	8023300
Package without glassware (FLEX)	--	8031500	8031600

* Will be controlled by the vacuum controller of the RV 10 control rotary evaporator.

** Magnetic valve now included with delivery of every RV 10 control.

) No accessories required for vacuum pump connection (vacuum level must be controlled by external vacuum controller).



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