



### RV 10 control V

The RV 10 control is the flagship of the IKA Rotary Evaporator line. It comes with convincing features like color graphic display operation, integrated vacuum controller, cooling water management and sophisticated safety features. The RV 10 control is designed for safe, efficient and economical operation. The automated management of vacuum levels as well as cooling water makes for an optimal distilling experience. Operating the unit through the color graphic display quickly leads the user to where they want to be. The condenser unit has special designed glass tubes that utilize the 1500 cm<sup>2</sup> surface extremely efficiently. The RV 10 control allows the user to program up to 10 individual procedures. Additional features such as smooth start, left-right interval or timer function capability support the user in their daily lab work. Another important aspect of the RV 10 control are the sophisticated safety features. The motorized lift has an automated lift-out function in case of power outage to prevent superheating of the solvent. Safety temperature circuits can be set individually. Dry-run protection, adjustable lower end stop and lock function of bath setting complete the line of safety features. Furthermore, IKA offers a choice of coated glassware for increased safety needs. The RS 232 interface allows for remote control via IKAs "labworldsoft". The Heating bath is controlled via the IR interface from the main unit.

- Universal water/oil heating bath
- Integrated vacuum controller
- Color graphic display operation
- Optimized bath volume for fast heat-up times
- Highly efficient 1500 cm<sup>2</sup> condenser
- Rugged design
- Ergonomically placed handles on the Heating bath
- Intuitive operation through graphic display
- Program function of up to 10 individual procedures
- Smooth start
- Left-right interval
- Timer function
- Dry-run protection
- Safety temperature circuits
- Lower-end stop
- Choice of coated glassware
- Push-off mechanism to loosen tight fitted glassware
- Easy and safe operation due to ergonomic design of the user interface
- Digital interface for remote control
- Multi language
- USB and RS 232 interface
- Automated management of cooling water

#### Technical Data

Type of cooling	vertical
Cooling surface [cm <sup>2</sup> ]	1500
Motor principle	DC
Speed range [rpm]	20 - 280
Reversible direction of rotation	yes
Lift	Motor
Stroke [mm]	140
Heating temperature range [°C]	Room temp. - 180
Heat output [W]	1300
Heat control accuracy [±K]	1
Bath volume max. [l]	3
Vacuum controller integrated	yes
Measurement accuracy +/- [mbar]	2
Vacuum adjustment range [mbar]	1050 - 1
Vacuum measurement range [mbar]	1050 - 1
Timer	yes
Dimensions (W x H x D) [mm]	500 x 430 x 410
Weight [kg]	21.5
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
Voltage [V]	220 - 240 / 115 / 100 - 120 / 100 - 115
Frequency [Hz]	50/60
Power input [W]	1400

#### Ident. No.

0008024301

- Automated venting after process end
- Automated management of Heating bath controls

Package description: With heating bath HB 10, RV 10.1 Set of glassware, vertical and RV 10.4002 Magnetic valve laboratory vacuum

Accessories: RV 10.3 Vertical-intensive condenser with manifold, RV 10.30 Vertical-intensive condenser with manifold, coated, RV 10.5 Vertical condenser with manifold and cut-off valve for reflux distillation, RV 10.50 Vertical condenser with manifold and cut-off valve for reflux distillation, coated, RV 10.4 Dry Ice Condenser, RV 10.40 Dry Ice Condenser, coated, RV 10.6 Vertical-intensive condenser with manifold and cut-off valve for reflux distillation, RV 10.60 Vertical-intensive condenser with manifold and cut-off valve for reflux distillation, coated, RV 10.200 Receiving flask, coated (KS 35/20, 100 ml), RV 10.201 Receiving flask, coated (KS 35/20, 250 ml), RV 10.202 Receiving flask, coated (KS 35/20, 500 ml), RV 10.203 Receiving flask, coated (KS 35/20, 1.000 ml), RV 10.204 Receiving flask, coated (KS 35/20, 2.000 ml), RV 10.205 Receiving flask, coated (KS 35/20, 3.000 ml), RV 10.8001 Seal, RV 10.3000 Extension plate, RV 10.4001 Magnetic valve inhouse vacuum, RV 10.4002 Magnetic valve lab vacuum , RV 10.4003 Pump control incl. magnetic valve, RV 10.5001 Water choke valve, RV 10.5002 Water filter, RV 10.5003 Pressure control valve, HB 10.1 Shield, HB 10.2 Protective cover, MVP 10 basic vacuum pump, N 920 KT.29.18 Membrane vacuum pump, SC 920 Vacuum pump, RC 2 basic, RC 2 control, UC006 Unichiller