

Data Sheet

Distilling / Rotary Evaporators



RV 10 auto V

The completely revised RV 10 auto is the flagship of the IKA Rotation Evaporator product line. Its impressive features include an innovative control concept with a bright, high-contrast, TFT, color-graphic control panel, an integrated vacuum controller, cooling water monitoring and mature safety standards. The RV 10 auto offer all properties required for efficient, safe, and cost-effective operations. These include automatic control of the vacuum and cooling water volume. Its intuitive handling concept quickly leads its users to their desired results in every application. Thanks to specially designed glass guides, the condenser makes extremely efficient use of the 1500 cm² cooling surface. Thanks to its extended ramp programming capability, the RV 10 auto allows users to carry out customized procedures. Other innovative features, such as smooth start, interval mode, right-left operation in interval mode, or the timer function for time-lapse tests, make everyday work in the laboratory much easier. Safety is ensured by the motorized lift with safety-stop function that automatically lifts the evaporation flask out of the heating bath in the case of power failure. Additional safety for users is provided by individually adjustable temperature safety circuits, protection against boiling dry, adjustable end-point recognition to prevent glass breakage, and a locking function. The receiving flask and the condenser are also available in coated versions. The USB port or the RS-232 interface enable remote control with the IKA "labworldsoft" software package and an update option with the firmware update tool. The device comes complete with vacuum hoses and hose connectors for your in-house cooling water supply.

- integrated vacuum controller
- integrated solvent library with 40 preset solvents and expansion option
- bright, high-contrast, TFT, color-graphic control panel
- universal safety heating bath
- optimized heating bath volume for rapid achievement of working temperature
- heating bath with ergonomic handles
- temperature safety circuit
- boil-dry protection
- condenser with 1500 cm² cooling surface and low space requirements
- evaporation flasks available with coated glass
- intuitive handling concept with simple menu navigation
- programming option for up to ten individual procedures
- smooth start
- right or left rotation
- timer function
- end-point recognition
- push-off mechanism for tightly-fitting flasks
- digital interfaces: USB port and RS-232 interface for remote control
- multi-language operating system
- automatic cooling water management
- automatic ventilation

Technical Data

Speed range [rpm]	5 - 300
Reversible direction of rotation	yes
Speed tolerance set rotation speed < 100rpm [±rpm]	1
Speed tolerance set rotation speed > 100rpm [±%]	1
Lift	Motor
Stroke [mm]	140
Timer	yes
Dimensions (W x H x D) [mm]	500 x 430 x 410
Weight [kg]	18.6
Permissible ambient temperature [°C]	5 - 40
Permissible relative humidity [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
USB interface	yes
Analog output	yes
Voltage [V]	100 - 240
Frequency [Hz]	50/60
Power input [W]	100
Power input standby [W]	3.3

Ident. No.

0010003472

- automatic heating bath management

Accessories: RV 10.5001 Water choke valve, RV 10.5002 Water filter, RV 10.5003 Pressure control valve, RV 10.1 Glassware vertical, RV 10.10 Glassware vertical coated, RV 10.2 Glassware diagonal, RV 10.20 Glassware diagonal coated, RV 10.3 Vertical-intensive condenser with manifold, RV 10.30 Vertical-intensive condenser with manifold, coated, RV 10.4 Dry Ice Condenser, RV 10.40 Dry Ice Condenser, 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 10.6 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 05.10 Balljoint clamp, RV 10.88 Clamp NS 29, RV 10.400 Evaporation cylinder (NS 29/32, 500 ml), RV 10.401 Evaporation cylinder (NS 29/32, 1.500 ml), RV 10.500 Foam brake (NS 29/32), RV 10.600 Distilling spider with 6 distilling sleeves (NS 29/32), RV 10.601 Distilling spider with 12 distilling sleeves (NS 29/32), RV 10.602 Distilling spider with 20 distilling sleeves (NS 29/32), RV 10.610 Distilling sleeve, 20 ml, RV 10.606 Distilling spider with 5 flasks 50 ml (NS 29/32), RV 10.607 Distilling spider with 5 flasks 100 ml (NS 29/32), RV 10.90 Evaporation flask, 50 ml, RV 10.91 Evaporation flask, 100 ml, RV 10.80 Evaporation flask (NS 29/32, 50 ml), RV 10.800 Evaporation flask, coated (NS 29/32, 50 ml), RV 10.81 Evaporation flask (NS 29/32, 100 ml), RV 10.810 Evaporation flask, coated (NS 29/32, 100 ml), RV 10.82 Evaporation flask (NS 29/32, 250 ml), RV 10.820 Evaporation flask, coated (NS 29/32, 250 ml), RV 10.83 Evaporation flask (NS 29/32, 500 ml), RV 10.830 Evaporation flask, coated (NS 29/32, 500 ml), RV 10.84 Evaporation flask (NS 29/32, 1.000 ml), RV 10.840 Evaporation flask, coated, (NS 29/32, 1.000 ml), RV 10.85 Evaporation flask (NS 29/32, 2.000 ml), RV 10.850 Evaporation flask, coated (NS 29/32, 2.000 ml), RV 10.86 Evaporation flask (NS 29/32, 3.000 ml), RV 10.860 Evaporation flask, coated (NS 29/32, 3.000 ml), RV 10.100 Receiving flask (KS 35/20, 100 ml), RV 10.101 Receiving flask (KS 35/20, 250 ml), RV 10.102 Receiving flask (KS 35/20, 500 ml), RV 10.103 Receiving flask (KS 35/20, 1.000 ml), RV 10.104 Receiving flask (KS 35/20, 2.000 ml), RV 10.105 Receiving flask (KS 35/20, 3.000 ml), 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 10.300 Powder flask (NS 29/32, 500 ml), RV 10.301 Powder flask (NS 29/32, 1.000 ml), RV 10.302 Powder flask (NS 29/32, 2.000 ml), RV 10.70 Vapor tube (NS 29/32), RV 10.74 Vapor tube short (NS 29/32), RV 10.8001 Seal, HB 10.1 Shield, HB 10.2 Protective cover, RC 2 basic, RC 2 control, RC 5 control, MVP 10 basic vacuum pump, VSS 1 Vacuum safety set, VH.SI.8 Vacuum hose, VC 10.300 Check valve