



### RV 10 control with Dry Ice Condenser coated

The newly developed product line from IKA® in ergonomic, compact design with innovative functions to improve operating results. Rotary evaporators with integrated heating bath HB 10 digital (3 litre) incl. dry ice condenser.

- Heating bath with adjustable safety circuit, "stand alone" operation possible, pivoting safety hood as accessory
- Safe and simple operation through ergonomically shaped operator unit in the front area
- Motorized lift (stroke 140 mm) with "safety stop" function, if the power cuts out the evaporator piston is automatically lifted out of the heating bath.
- Adjustable end position recognition to protect the glass from breaking
- Speed range from 20 to 270 rpm
- Smooth start from 100 rpm
- Digital speed display
- Moves right and left in interval operation for the drying process
- Timer function for time lapse controls
- Water-oil heating bath with integrated carry handles with safe handling
- Heats up quickly because of optimized bath volumes
- Cooling surface 1,200 cm<sup>2</sup>
- Push-off mechanism to loosen tightly fitting pistons
- Digital water - oil heating bath with integrated carry handles
- Temperature control of the heating bath by a micro controller
- Digital temperature display
- Infrared interface for data transfer from the heating bath to the drive unit
- RS 232 interface for PC remote operation with labworldsoft
- Automatic operation with labworldsoft
- Integrated vacuum controller with central display for ramp programming
- Integrated solvent library, extendible by the client
- Distillation specific parameters stored for standard distillation
- Automatic transfer of measurements and distillation type with one key press
- Volume controlled distillation processes programmable
- Automatic boiling point recognition
- Color graphic display for safe and comfortable device operation
- Display of distillation curves
- Multiple languages
- Automatic ventilation after the end of the test
- Cooling water switched off automatically after 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 after the end of the test
- USB interface

#### 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
Set temperature resolution [±K]	1
Filling 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.** 0008032001

- Suitable for DIN EN 12697-3 (Asphalt test for hot asphalt)

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, N 920 KT.29.18 Membrane vacuum pump, SC 920 Vacuum pump, UC006 Unichiller