

Data Sheet

Distilling / Rotary Evaporators



RV 10 control V

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 control (3 litre) incl. space saving vertical glassware (1 litre).

- 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
- Motorised 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 280 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 optimised bath volumes
- Cooling surface 1,200 cm²
- 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 automatic distilling and 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
- Colour 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

Technical Data	
Type of cooling	vertical
Cooling surface [cm ²]	1200
Motor principle	DC
Speed range [1/min]	20 - 280
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
Dimensions (W x H x D) [mm]	500 x 430 x 410
Weight [kg]	21.5
Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80
Protection class according to DIN EN 60529	IP 20
RS 232 interface	yes
Voltage [V]	220 - 240 / 100 - 120 / 100 - 115
Frequency [Hz]	50/60
Power input [W]	1400
Ident. No.	8022700

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

Accessories: HB 10.1 Shield, HB 10.2 Protective cover, RV 10.900 Glassware vertical, RV 10.1 Glassware vertical, 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 10.73 Vapor tube (NS 24/40), RV 10.70 Vapor tube (NS 29/32), RV 10.80 Evaporation flask (NS 29/32, 50 ml), RV 10.2007 Evaporation flask (NS 24/40, 50 ml), RV 10.2008 Evaporation flask (NS 24/40, 100 ml), RV 10.81 Evaporation flask (NS 29/32, 100 ml), RV 10.82 Evaporation flask (NS 29/32, 250 ml), RV 10.2009 Evaporation flask (NS 24/40, 250 ml), RV 10.83 Evaporation flask (NS 29/32, 500 ml), RV 10.2010 Evaporation flask (NS 24/40, 500 ml), RV 10.84 Evaporation flask (NS 29/32, 1.000 ml), RV 10.2011 Evaporation flask (NS 24/40, 1.000 ml), RV 10.85 Evaporation flask (NS 29/32, 2.000 ml), RV 10.85 Evaporation flask (NS 24/40, 2.000 ml), RV 10.86 Evaporation flask (NS 29/32, 3.000 ml), RV 10.86 Evaporation flask (NS 24/40, 3.000 ml), RV 10.2017 Powder flask (NS 24/40, 500 ml), RV 10.300 Powder flask (NS 29/32, 500 ml), RV 10.301 Powder flask (NS 29/32, 1.000 ml), RV 10.2018 Powder flask (NS 24/40, 1.000 ml), RV 10.302 Powder flask (NS 29/32, 2.000 ml), RV 10.2019 Powder flask (NS 24/40, 2.000 ml), RV 10.400 Evaporation cylinder (NS 29/32, 500 ml), RV 10.400 Evaporation cylinder (NS 24/40, 500 ml), RV 10.401 Evaporation cylinder (NS 29/32, 1.500 ml), RV 10.401 Evaporation cylinder (NS 24/40, 1.500 ml), RV 10.500 Foam brake (NS 29/32), RV 10.500 Foam brake (NS 24/40), RV 10.600 Distilling spider with 6 distilling sleeves (NS 29/32), RV 10.2029 Distilling spider with 6 distilling sleeves (NS 24/40), RV 10.601 Distilling spider with 12 distilling sleeves (NS 29/32), RV 10.2030 Distilling spider with 12 distilling sleeves (NS 24/40), RV 10.602 Distilling spider with 20 distilling sleeves (NS 29/32), RV 10.602 Distilling spider with 20 distilling sleeves (NS 24/40), RV 10.606 Distilling spider with 5 flasks 50 ml (NS 29/32), RV 10.2034 Distilling spider with 5 flasks 50 ml (NS 24/40), RV 10.607 Distilling spider with 5 flasks 100 ml (NS 29/32), RV 10.2035 Distilling spider with 5 flasks 100 ml (NS 24/40), 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 10.3000 Extension plate, RV 06.13 Seal, RV 06.15 Seal, labworldsoft®, 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, N 920 KT.29.18 Membrane vacuum pump, MPC 105 T, KV 600 cooling water supply, UC006 Unichiller, H 11 Mains cable Euro plug, H 11 Mains cable USA plug, H 11 Mains cable CH plug, H 11 Mains cable UK plug