

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]	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 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.	0008022700

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

Accessories: HB 10.1 Shield, HB 10.2 Protective cover, RV 10.1 Glassware vertical, RV 10.900 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 10.70 Vapor tube (NS 29/32), RV 10.73 Vapor tube (NS 24/40), 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 10.2009 Evaporation flask (NS 24/40, 250 ml), RV 10.82 Evaporation flask (NS 29/32, 250 ml), RV 10.2010 Evaporation flask (NS 24/40, 500 ml), RV 10.83 Evaporation flask (NS 29/32, 500 ml), RV 10.2011 Evaporation flask (NS 24/40, 1.000 ml), RV 10.84 Evaporation flask (NS 29/32, 1.000 ml), RV 10.2012 Evaporation flask (NS 24/40, 2.000 ml), RV 10.85 Evaporation flask (NS 29/32, 2.000 ml), RV 10.86 Evaporation flask (NS 29/32, 3.000 ml), RV 10.2013 Evaporation flask (NS 24/40, 3.000 ml), RV 10.300 Powder flask (NS 29/32, 500 ml), RV 10.2017 Powder flask (NS 24/40, 500 ml), RV 10.2018 Powder flask (NS 24/40, 1.000 ml), RV 10.301 Powder flask (NS 29/32, 1.000 ml), RV 10.302 Powder flask (NS 29/32, 2.000 ml), RV 10.2019 Powder flask (NS 24/40, 2.000 ml), RV 10.400 Evaporation cylinder (NS 24/40, 500 ml), RV 10.400 Evaporation cylinder (NS 29/32, 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 10.2025 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 10.8001 Seal, labworldsoft®, PC 1.1 Cable, 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, HBR 4 digital Heating bath, H 11 Mains cable Euro plug, H 11 Mains cable USA plug, H 11 Mains cable CH plug, H 11 Mains cable UK plug