

### Rotary Evaporator RV 3

The new RV 3 is the ideal entry-level model of the IKA rotary evaporator portfolio. Thanks to specially designed glass guides, the vertical condenser makes extremely efficient use of the 1500 cm<sup>2</sup> cooling surface.

IKA

- 4L water heating bath with digital temperature display and carrying handles
- Mechanical lift end-point safety stop
- Locking mechanism: red indicator shows unlocked position of the vapor tube
- Manual lift for precise positioning of the glassware, single-handed, suitable for left and right-handed operators
- Adjustable immersion angle
- Stepless speed setting with dial control and speed display
- Flask clamping mechanism with integrated push-off function for easy exchange of evaporation flasks

1



### 1 Rotary Evaporator RV 3 V/RV 3 V-C

#### Scope of supply:

IKA

**RV 3 V:** Rotary Evaporator RV 3 eco, Heating bath HB eco, vertical glassware RV 10.1

**RV 3 V-C:** Rotary Evaporator RV 3 eco, Heating bath HB eco, vertical coated glassware RV 10.10

#### Specifications

Speed range:	20 ... 300 rpm
Stroke displacement:	150 mm
Bath volume:	4 L
Temperature range:	ambient ... 90 °C
Heating power:	1400 W
Permissible ambient temperature:	5 ... 40 °C
Permissible relative humidity:	80 %
Dimensions (W x D x H):	440 x 330 x 530 mm
Weight:	13.5 kg
Protection class according to DIN EN 60529:	IP 20
Power supply:	100 ... 240 V/50/60 Hz

Type	PK	Cat. No.
RV 3 V	1	6.273 133
RV 3 V-C	1	4.661 996

2



### 2 Rotary Evaporator RV 8

Digital displays for speed and heating bath temperature allow for optimal control of all distilling processes. Thanks to specially designed glass guides, the condenser makes extremely efficient use of the 1500 cm<sup>2</sup> cooling surface.

IKA

- Clearly visible glass display (black and white)
- Locking mechanism: red display for unlocked state of vapor tube
- Manual lift for precise positioning of glassware
- Water/oil heating bath with integrated ergonomic carrying handles
- Lock function for the heating bath temperature
- Adjustable immersion angle
- Single-hand operation; ambidextrous design
- Easy exchange of evaporation flasks by clamp mechanism with push-out function
- Woulff bottle

#### Scope of supply:

**RV 8 V:** Rotary Evaporator RV 8, Heating bath HB digital, vertical glassware RV 10.1

**RV 8 V-C:** Rotary Evaporator RV 8, Heating bath HB digital, vertical coated glassware RV 10.10

**RV 8 FLEX:** Rotary Evaporator RV 8, Heating bath HB digital, clamps for glassware

#### Drive

Speed:	5 to 300 rpm
Speed display:	digital
Stroke displacement:	120 mm, manual

#### Heating bath

Bath volume:	4 l
Temperature range:	RT to +180 °C
Heating power:	1300W

#### General data

Dimensions (W x D x H):	510 x 345 x 490 mm
Protection class according to DIN EN 60529:	IP 20
Power supply	100-240 V, 50/60 Hz

Type	PK	Cat. No.
RV 8 V	1	9.813 017
RV 8 V-C	1	9.813 018
RV 8 FLEX	1	9.813 019

#### Rotary evaporator RV 10 digital

1

The RV 10 digital is a robust and reliable lab companion. Its optimized bath volume allows for fast heat-up times. The vertical condenser unit has special designed glass tubes that utilize the 1500 cm<sup>2</sup> surface extremely efficient. That's why the RV 10 digital delivers reliable and reproducible process results that are usually reserved for more costly systems. 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 digital 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.

IKA

- Universal water/oil heating bath
- Motorized lift with "safety-stop" function
- RS 232 and IR Interface
- Optimized heating bath volume for fast heat-up
- Highly efficient 1500 cm<sup>2</sup> condenser unit
- Ergonomically placed handles on Heating bath
- Left-right interval
- Timer function
- Dry-run protection
- Safety temperature circuits
- Lower-end stop
- Push-off mechanism to loosen tight fitted glassware
- Easy and safe operation due to ergonomic design of the user interface



6.274 521

#### Scope of supply:

**RV 10 digital V:** Rotary evaporator RV 10 digital, heating bath HB digital, vertical glassware RV 10.1, vapor tube RV 10.70

**RV 10 digital V-C:** Rotary evaporator RV 10 digital, heating bath HB digital, vertical glassware, coated RV 10.10, vapor tube RV 10.70

**RV 10 digital V FLEX:** Rotary evaporator RV 10 digital, heating bath HB digital, Wouff bottle, spherical joint clip RV 05.10, clamp, NS 29 RV 10.88, vapor tube RV 10.70

#### Specifications

##### Drive

Motor rating input:	50 W
Speed range:	20 to 280 rpm
Speed display:	digital
Head angle adjustable:	0 to 45°
Stroke displacement:	140 mm, motorised
Setting of lower end stop:	60 mm, contact-free

##### Heating bath

Temperature range:	Ambient up to 180 °C
Heating power:	1.300 W

##### General data

Dimensions (W x D x H):	500 x 430 x 410 mm
Protection class acc. to DIN EN 60529:	IP 20
Power supply:	220-240 V/50/60 Hz

Type	PK	Cat. No.
RV 10 digital V	1	4.664 596
RV 10 digital V-C	1	6.274 521 1
RV 10 digital V FLEX	1	4.664 590

#### Accessories for Rotary evaporators RV 8/RV 10 digital/RV 10 control

IKA

Type	Description	PK	Cat. No.
VACSTAR digital	Vacuum pump, 22 l/min	1	9.813 026 2
MVP 10 basic	Vacuum pump, 28.3 l/min	1	9.813 010
VCV 1	Vacuum control valve	1	9.813 016
RV 10.70	Vapor tube made of borosilicate glass, NS 29/32	1	6.237 535
RV 10.4002	Magnetic valve laboratory vacuum	1	6.237 538
RV 10.5001	Choke water valve	1	6.237 540
RV 10.5002	Filter	1	6.237 541
RV 10.5003	Pressure regulating valve	1	6.237 542
RV 10.8001	Lip-seal, PTFE with a built-in stainless steel spring	1	4.008 136

2



9.813 026



Suitable Flow coolers please see page 821

### Rotary evaporator RV 10 auto/RV 10 auto pro

The rotary evaporator RV 10 auto has a bright, high-contrast, TFT, color-graphic control panel, an integrated vacuum controller and a cooling water monitoring. 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 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. Thanks to specially designed glass guides, the condenser makes extremely efficient use of the 1500 cm<sup>2</sup> cooling surface.

IKA

The Rotary evaporator RV 10 auto pro rotary evaporator is fitted with the full-automatic vacuum pump VACSTAR digital. This enables better automatic detection of the solvent boiling point. The Vacstar digital is controlled directly from the drive unit of the RV 10 auto via the data cable provided.

- Integrated solvent library with 40 preset solvents and expansion option
- Optimized heating bath volume for rapid achievement of working temperature
- Programming option for up to ten individual procedures
- Smooth start
- Right or left rotation
- Timer function
- Coated flask and condenser as an option
- Automatic vacuum management
- Motorized lift with "safety-stop" function

#### Scope of supply:

**Model RV 10 auto:** Rotary Evaporator RV 10 auto with Heating bath HB 10, Magnetic valve RV 10.4002 and Woulff bottle

**RV 10 auto V:** with vertical glassware RV 10.1

**RV 10 auto V-C:** with vertical coated glassware RV 10.10

**RV 10 auto FLEX:** without glassware

**Model RV 10 auto pro:** Vertical Rotary Evaporator RV 10 auto with Heating bath HB 10, Vacuum pump VACSTAR digital and Woulff bottle

**RV 10 auto pro V:** with vertical glassware RV 10.1

**RV 10 auto pro V-C:** with vertical coated glassware RV 10.10

**RV 10 auto pro FLEX:** without glassware

#### Specifications

##### Drive

Speed range: 5 ... 300 rpm

Speed display: digital

Stroke displacement: 140 mm

##### Heating bath

Bath volume: 4 l

Temperature range: ambient ... +180 °C

Power input: 100 W

Power input standby: 3.3 W

##### General data

Dimensions (W x D x H): 500 x 410 x 430 mm

Weight: 18.6 kg

Protection class according to DIN EN 60529: IP 20

Power supply: 100 ... 240 V/50/60 Hz

Type	PK	Cat. No.
RV 10 auto V	1	4.664 591 <sup>1</sup>
RV 10 auto V-C	1	4.664 592
RV 10 auto FLEX	1	4.664 597
RV 10 auto pro V	1	4.664 593 <sup>2</sup>
RV 10 auto pro V-C	1	4.664 594
RV 10 auto pro FLEX	1	4.664 595

1



4.664 591

2



4.664 593

#### 1 Rotary Evaporator RC 600/RC 900

##### RC 600

KNF

##### Fit for purpose

All functions operated centrally via membrane keypad providing exceptional ease of use

##### Comprehensively robust

Device design and details were especially developed for intensive use

##### Safe and compact

Cordless heating bath with pour spout, fixed tube guide, easy flask exchange - typical hazards eliminated thanks to well thought out safety features

##### RC 900

##### Sleek design, minimum footprint

The RC 900 takes up very little space and offers maximum ease of use

##### Whisper quiet for a pleasant working environment

The lift and rotation of the RC 900 are virtually silent

##### Versatile use, simple operation

The system offers central remote control for all functions, and operation via touchscreen and control knob. Stepless adjustable flask inclination.

##### Specifications

Heating bath: heating bath temperature:	20 to 180 °C
Coolant supply (chilled condenser)	
Permissible pressure:	3 bar
Permissible temperature:	15 °C to +20 °C
Cooled surface area:	1230 cm <sup>2</sup>
Parameters of evaporation flask	
Size of evaporation flask:	50 - 3000 ml
Rotational speed:	25 - 250 rpm
Length of stroke:	150 mm
Lifting speed:	approx 38 mm/s
Dimensions (W x D x H)	
Without glassware RC 900/RC 600:	431 x 447 x 464 mm/431 x 453 x 464 mm
With glassware RC 900/RC 600:	487 x 447 x 823 mm/487 x 453 x 823 mm
Weight:	9.1 kg

Type	PK	Cat. No.
RC 600	1	6.269 371
RC 900	1	7.660 052



#### 2 Rotary Evaporator Rotavapor® R-100

The Rotavapor® R-100 is a high-quality rotary evaporator to meet the essential needs in classical laboratory applications. It is capable of manually adjusting the rotation speed from 20 to 280 rpm and is equipped with an action jack lift for manual lifting of the evaporating flask.

##### Heating Bath B-100

Temperature range of 20 °C to 95 °C. Max. evaporating flask size: 4000 mL (3 kg). Digital display of set and actual temperature (alternating).

##### Standard Joint

SJ 29/32

##### Glass Assembly

**Option V: Vertical condenser(V):** Vertical condenser used along with a recirculating chiller or tap water.

**Option C: Cold trap (C):** Cold trap used for low boiling solvents along with e.g. dry ice for cooling.

##### Protective Coating

Option 1: Without coating

Option 2: Transparent PLASTIC+GLAS (P+G) safety coating. Protect against mechanical damage.

In the event of breakage there is no loss of sample.



#### 2 Rotavapor® R-100 with vertical glass assembly

Heating bath B-100, manual lift.

BÜCHI

Type	Capacitor	Coating	PK	Cat. No.
R-100	vertical	no	1	6.268 002
R-100	vertical	yes	1	6.268 003

### Rotary Evaporator Rotavapor® R-300

The rotary evaporator R-300 meets the highest needs in convenience, productivity and versatility. The rotation speed, heating temperature and lift position is shown digitally on the integrated display. Automatic change of the direction of rotation programmable.

#### Lift System

- Option 1: Manual lift
- Option 2: Electronic lift

#### Heating Bath

- Option 1: B-301.** Temperature range of 20 °C to 95 °C (water). Max. evaporating flask size: 1000 mL (3 kg). Cordless connection. Digital display of set and actual temperature, rotation speed, lift position. Lock of heating temperature. Fast heat up time.
- Option 2: B-305.** Temperature range of 20 °C to 220 °C. Max. evaporating flask size: 5000 mL (3 kg). Cordless connection. Digital display of set and actual temperature, rotation speed, lift position. Lock of heating temperature.

#### Standard Joint

SJ 29/32

#### Glass Assembly

- Option V: Vertical condenser (V):** Vertical condenser used along with a recirculating chiller or tap water.
  - Option C: Cold trap (C):** Cold trap used for low boiling solvents along with e.g. dry ice for cooling.
- Other glass assembly configuration on request

#### Protective Coating

- Option: Transparent PLASTIC+GLASS (P+G) safety coating. Protect against mechanical damage.
- In the event of breakage there is no loss of sample.



1 Rotavapor® R-300 with heating bath B-301

BÜCHI

Type	Lift	Capacitor	Coating	PK	Cat. No.
R-300	manually	vertical	no	1	6.267 887
R-300	electric	vertical	yes	1	6.267 888
R-300	electric	cold trap	yes	1	6.267 889



2 Rotavapor® R-300 with heating bath B-305

BÜCHI

Type	Lift	Capacitor	Coating	PK	Cat. No.
R-300	manually	vertical	no	1	6.267 890
R-300	electric	vertical	yes	1	6.267 891
R-300	electric	cold trap	yes	1	6.267 892

#### Rotary Evaporator Hei-VAP Core

- Available as hand or motor lift
- Clear digital display for monitoring the current values and separate button to display the set values
- Two separate operating knobs for adjusting the rotation speed and heating temperature with LED ring light system for activity indication
- Activated lock feature prevents inadvertent adjustments
- Residual heat indicator when  $>50\text{ }^{\circ}\text{C}$
- Standby button stops all functions and lifts the evaporator flask out of the heating bath on motor lift models
- Ergonomically optimized heating bath handles sit securely in your hand
- Easily adjust immersion depth up to 155 mm and the tilt angle of the evaporating flask from  $20^{\circ}$  to  $80^{\circ}$
- Grease-free operation thanks to innovative sealing technology
- Ventilation cap with PTFE inlet and free of ground joints. Optionally available with replenishment valve
- Optional cable extension. The operating panel can be detached for use outside closed fume hoods

Heidolph

**Scope of supply:** Flask clamp Easy-Clip, vapour tube, ventilation cap, heating bath, 1-l receiving flask, 1-l evaporating flask.  
Supplied condenser as indicated.

#### Specifications

##### Drive

Speed range:	10 ... 280 rpm
Speed display:	Digital
Stroke displacement:	155 mm
Protection class:	IP 20

##### Heating bath

Bath volume:	4.5 L
Temperature range:	Ambient ... $210\text{ }^{\circ}\text{C}$
Power input:	1300 W
Protection class:	IP 67

##### General data

Max. size evaporating flask:	5 L
Condensing surface:	1400 $\text{cm}^2$
Condensing surface XL condenser:	2200 $\text{cm}^2$
Power supply:	230 V

#### Rotary Evaporators Hei-VAP Core, with hand lift

Heidolph

Description	Glassware set	Plug type	PK	Cat. No.
G1 Angled condenser	standard	EU	1	4.666 085
G3 Vertical condenser	standard	EU	1	4.666 086 <sup>1</sup>
G1B Angled condenser	coated	EU	1	4.666 090
G3B Vertical condenser	coated	EU	1	4.666 091
G1 Angled condenser	standard	UK	1	4.666 107
G3 Vertical condenser	standard	UK	1	4.666 108



#### Rotary Evaporators Hei-VAP Core, with motor lift

Heidolph

Description	Glassware set	Plug type	PK	Cat. No.
G1 Angled condenser	standard	EU	1	4.666 095
G3 Vertical condenser	standard	EU	1	4.666 096 <sup>2</sup>
G1B Angled condenser	coated	EU	1	4.666 100
G3B Vertical condenser	coated	EU	1	4.666 101
G1 Angled condenser	standard	UK	1	4.666 117
G3 Vertical condenser	standard	UK	1	4.666 118





### 1 Rubber Balloon with Hose Connection

- Latex (NR)
  - for Rotary Evaporators
  - suitable for mixture or collection and short-term storage of gases
  - for control of air/gas entry or tread out of gas in instruments
- Other sizes on request.

Deutsch &amp; Neumann

Size	Volume	PK	Cat. No.
5	approx. 1.5 - 2 l	1	9.115 515
8	approx. 3.5 - 4 l	1	7.652 667



### 2 Evaporator flask pear shape, borosilicate glass 3.3

Pear shaped Evaporator flask with NS 29/32, suitable for all Rotary evaporators.

ISOLAB

Capacity ml	NS	PK	Cat. No.
100	29/32	1	6.237 167
250	29/32	1	6.237 711
500	29/32	1	6.243 664
1000	29/32	1	6.236 112

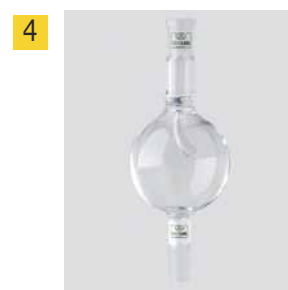


### 3 Evaporating flasks with conical ground joint, DURAN®

Especially for rotary evaporators, with center neck and conical joint, pear-shaped, material: DURAN®

Lenz

Capacity ml	Socket NS	Flask diam. mm	PK	Cat. No.
50	29/32	56	1	9.196 020
100	29/32	60	1	9.196 024
250	29/32	81	1	9.196 036
500	29/32	101	1	9.196 044
1000	29/32	126	1	9.196 054
2000	29/32	158	1	9.196 063



4.008 373

### Splash head adapter, ground glass joint, borosilicate glass 3.3

Borosilicate glass 3.3. Suitable to be used in distillation assemblies to prevent raw liquid step over from flask to condenser.

ISOLAB

Description	Cone NS	Socket NS	PK	Cat. No.
straight	14/23	14/23	1	4.008 373 4
straight	29/32	29/32	1	6.255 503
bend	14/23	14/23	1	9.140 508
bend	29/32	29/32	1	9.140 511



### 5 Powder flasks with conical ground joint, DURAN®

Specially for rotary evaporators. For the drying of powder-like substances. With center neck and conical joint, with inscription label.

Lenz

Capacity ml	Socket NS	Flask diam. mm	PK	Cat. No.
100	29/32	60	1	6.205 965
250	29/32	81	1	6.205 966
500	29/32	101	1	6.205 512
1000	29/32	126	1	6.206 195
2000	29/32	158	1	6.205 692



### 6 Receiving flasks, with spherical ground glass joint, borosilicate glass 3.3

 Receiving flasks with spherical ground glass joint **KS35** suitable for all Rotary evaporators.

ISOLAB

Capacity ml	Flask diam. mm	Socket KS	PK	Cat. No.
100	64	35	1	6.243 665
250	85	35	1	6.243 666
500	105	35	1	6.243 667
1000	131	35	1	6.243 668

#### 1 LLG-Fork clamps for spherical joints

Made of stainless steel 304. For spherical ground joint connections. With set screw.

Size	PK	Cat. No.
S13	1	9.011 797
S19	1	9.011 798
S29	1	9.011 799
S35	1	9.011 800

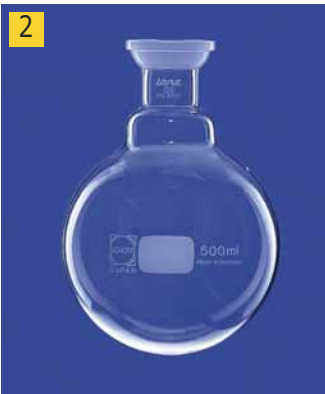


#### 2 Receiving flasks, DURAN®

Especially for rotary evaporators, with spherical joint socket S 35, with and without transparent PUR coating, autoclavable, material: DURAN®.

Lenz

Capacity	socket	Flask diam.	Description	PK	Cat. No.
ml	NS	mm			
100	35	64	uncoated	1	9.196 224
100	35	64	PUR coating	1	4.671 390
250	35	85	uncoated	1	9.196 236
250	35	85	PUR coating	1	6.269 414
500	35	105	uncoated	1	9.196 244
500	35	105	PUR coating	1	7.653 714
1000	35	131	uncoated	1	9.196 254
1000	35	131	PUR coating	1	9.812 217
2000	35	166	uncoated	1	9.196 263
2000	35	166	PUR coating	1	6.200 782



#### 3 Evaporating flasks with conical ground joint, DURAN®, with PUR coating

Lenz



Especially for rotary evaporators, with center neck and conical joint, with highly transparent PUR coating, autoclavable, pear-shaped, material: DURAN®

Capacity	Socket	Flask diam.	PK	Cat. No.
ml	NS	mm		
50	29/32	56	1	6.246 006
100	29/32	60	1	6.246 007
250	29/32	81	1	6.246 008
500	29/32	101	1	6.246 009
1000	29/32	126	1	6.246 010
2000	29/32	158	1	6.242 495
3000	29/32	175	1	6.246 011

