

# RV 10 basic and RV 10 digital

05 The basic system and the digital system complete with glassware set



## RV 10 basic

The RV 10 basic rotary evaporator with integrated HB 10 heating bath is the basic version of IKA®'s new distillation system. The RV 10 basic is available with either diagonal or vertical glassware, and as either a coated or an uncoated model.

- Analogue heating bath with adjustable safety circuit, „stand alone“ operation is possible, pivoting safety hood as an accessory
- Safe and simple operation by means of ergonomically shaped control unit in the front
- Motorised lift (stroke 140 mm) with „safety stop“ function, if the power cuts out the evaporator flask 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 control
- Heats up quickly because of optimised bath volumes
- Push-off mechanism to loosen tightly fitting flasks

RV 10 basic		
Model	Description	Ident-No.
RV 10 basic V	with heating bath HB 10 basic and vertical glassware RV 10.1	531-0636
RV 10 basic V-C	with heating bath HB 10 basic and vertical glassware, coated RV 10.10	531-0645
RV 10 basic D	with heating bath HB 10 basic and diagonal glassware RV 10.2	531-0654
RV 10 basic D-C	with heating bath HB 10 basic and diagonal glassware, coated RV 10.20	531-0663



## RV 10 digital

IKA®'s RV 10 digital combines the performance, reliability and versatility of the RV 10 basic with the precision of an accurate digital temperature control. The perfectly coordinated data transfer between the heating bath and the drive unit as well as the option of remote operation from a PC ensure results that can be reproduced any time.

Properties as RV 10 basic, with the following additional functions:

- Digital water/oil heating bath with integrated carrying 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
- RS232 interface for PC remote operation with labworldsoft®
- Automatic operation with labworldsoft®

RV 10 digital		
Model	Description	Ident-No.
RV 10 digital V	with heating bath HB 10 digital and vertical glassware RV 10.1	531-0639
RV 10 digital V-C	with heating bath HB 10 digital and vertical glassware, coated RV 10.10	531-0648
RV 10 digital D	with heating bath HB 10 digital and diagonal glassware RV 10.2	531-0657
RV 10 digital D-C	with heating bath HB 10 digital and diagonal glassware, coated RV 10.20	531-0666

	RV 10 basic	RV 10 digital	RV 10 control
Variants	RV 10 basic V RV 10 basic V-C RV 10 basic D RV 10 basic D-C	RV 10 digital V RV 10 digital V-C RV 10 digital D RV 10 digital D-C	RV 10 control V RV 10 control V-C RV 10 control D RV 10 control D-C
Cooler type	V=vertical V-C=vertical coated D=diagonal D-C=diagonal coated	V=vertical V-C=vertical coated D=diagonal D-C=diagonal coated	V=vertical V-C=vertical coated D=diagonal D-C=diagonal coated
Cooling surface	1200 cm <sup>2</sup>	1200 cm <sup>2</sup>	1200 cm <sup>2</sup>
<b>Drive</b>			
Motor type	brushless DC drive motor	brushless DC drive motor	brushless DC drive motor
Motor rating input	50 W	50 W	50 W
Speed range	20 to 270 rpm	20 to 270 rpm	20 to 270 rpm
Speed display	digital	digital	digital
Right and left movement / interval operation	yes	yes	yes
Smooth start	yes	yes	yes
Head angle adjustable	0 to 45°	0 to 45°	0 to 45°
Stroke displacement	140 mm, motorised	140 mm, motorised	140 mm, motorised
Setting of lower end stop	60 mm, contact-free	60 mm, contact-free	60 mm, contact-free
Vacuum controller	accessories	accessories	integrated
<b>Heating bath</b>			
Temperature range	RT to 180 °C	RT to 180 °C	RT to 180 °C
Heating power	1300 W	1300 W	1300 W
Controller	capillary tube controller	micro controller	micro controller
Temperature display	scale	digital	digital
Setting accuracy	scale	1 K	1 K
Control deviation	± 5 K	± 1 K	± 1 K
<b>Required accessories for an existing vacuum</b>			
Magnetic valve in-house vacuum	<sup>1)</sup>	<sup>1)</sup>	RV 10.4001
Magnetic valve laboratory vacuum	<sup>1)</sup>	<sup>1)</sup>	RV 10.4002
Pump control incl. magnetic valve	<sup>1)</sup>	<sup>1)</sup>	RV 10.4003
<b>General data</b>			
Dimensions without glassware (W x D x H)	530 x 410 x 570 mm	530 x 410 x 570 mm	530 x 410 x 570 mm
RV 10 diagonal (W x D x H)	890 x 410 x 670 mm	890 x 410 x 670 mm	890 x 410 x 670 mm
RV 10 vertical (W x D x H)	680 x 410 x 990 mm	680 x 410 x 990 mm	680 x 410 x 990 mm
Weight of evaporator incl. heating bath without glass parts	20 kg	20 kg	21,5 kg
Permitted ambient temperature	5 to 40 °C	5 to 40 °C	5 to 40 °C
Protection class acc. to DIN EN 60529	IP 20	IP 20	IP 20

<sup>1)</sup> no accessories required for vacuum pump connection (vacuum level must be controlled on the external system)