

IKA®

RV 10 Rotary Evaporator



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vereenigde

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product
design
award

2009 ■



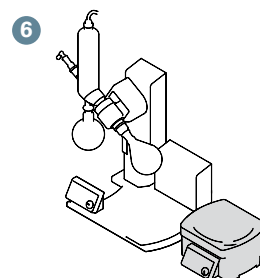
Designed
to work perfectly

IKA®
100
years



Overview of components

- 1 Vertical glassware (other options available)
- 2 Various flask sizes
- 3 Vacuum connection plus Wouff bottle
Highly solvent-resistant PTFE seal
- 4 Adjustable safety stop
- 5 Two displays for optimal view
- 6 Heating bath can be used separately
Ergonomic carrying handles on heating bath
- 7 Can be moved by 150 mm to accommodate
different flasks
- 8 Motorised height-adjustable lift
Lift raised automatically in case of power outage
- 9 Choice of angle



RV 10 basic and RV 10 digital

05 The basic and digital system



RV 10 basic

The RV 10 basic rotary evaporator with integrated HB 10 heating bath is the base system of IKA®'s new rotary evaporator line. The RV 10 basic is available with vertical glassware, either coated or uncoated.

- Analog 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
- Motorized 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 280 rpm
- Smooth start from 100 rpm
- Digital speed display
- Rotates clockwise and counterclockwise in interval operation for the drying process
- Timer function for time lapse control
- Water/oil heating bath with integrated carrying handles for safe handling
- Heats up quickly because of optimised bath volumes
- Push-off mechanism to loosen tightly fitting flasks
- Suitable for DIN EN 12697-3 (Asphalt test for hot asphalt)
- 5 year warranty after registration

RV 10 basic

Model	Description	Ident. No.
RV 10 basic V-C	with heating bath HB 10 basic and vertical glassware, coated RV 10.10	8022900

General data

Condenser type	vertical
Cooling surface	1.200 cm ²

Model Ident. No.

RV 10.10 Set of glassware, vertical, coated	3755400
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RV 10.1 Set of glassware, vertical

Compact vertical condenser for all standard distillations. The solvent to be distilled can be continuously fed in through the PTFE inlet tube.

A 1.000 ml evaporator and 1.000 ml receiving flask are included. Also available with coating. Condenser and receiving flask coated for shatter protection.

- ! Glassware included in all packages, except FLEX.



	RV 10 basic	RV 10 digital	RV 10 control
Packages with glassware	RV 10 basic V RV 10 basic V-C	RV 10 digital V RV 10 digital V-C	RV 10 control V RV 10 control V-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	1.200 cm ²	1.200 cm ²	1.200 cm ²
Drive			
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 280 rpm	20 to 280 rpm	20 to 280 rpm
Speed display	digital	digital	digital
Clockwise and counter-clockwise 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
Heating bath			
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
Required accessories for an existing vacuum*			
In-house vacuum (industrial vacuum source for many users)	¹⁾	¹⁾	RV 10.4002 Magnetic valve **
Laboratory vacuum pump (multiple connections)	¹⁾	¹⁾	RV 10.4002 Magnetic valve **
Diaphragm vacuum pump (one single connection)	¹⁾	¹⁾	RV 10.4002 Magnetic valve **
General data			
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
Permissible 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
Ident. No.			
Package with vertical glassware, EU plug	8022300	8022500	8022700
Package with vertical coated glassware, EU plug	8022900	8023100	8023300
Package without glassware (FLEX)	–	8031500	8031600

* Will be controlled by the vacuum controller of the RV 10 control rotary evaporator.

** Magnetic valve now included with delivery of every RV 10 control.

¹⁾ No accessories required for vacuum pump connection (vacuum level must be controlled by external vacuum controller).

vacuubrand

Technology for Vacuum Systems

Fast and controlled evaporation at the touch of a button

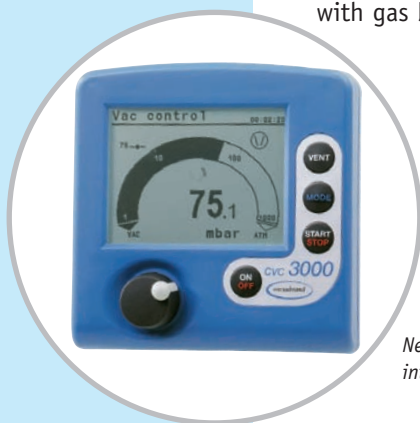
NEW
CONTROLLER
WITH INTUITIVE
OPERATION

Chemistry
Pumping unit
PC 3001 VARIO



More time saving than before through simplified operation

- **Intuitive Operation**
through clear text menus and easy to handle rotary jog wheel control
- **Over 30% shorter process times**
through continuous optimal high evaporation rates and speed control
- **Ideal for high boiling point solvents**
with ultimate vacuum down to 2 mbar (even with gas ballast 4 mbar)



New vacuum controller with intuitive jog wheel operation

- **Safe reproducibility**
for complex applications via user programmable process cycles
- **Chemistry design**
chemistry vacuum pump, wetted parts made of fluoroplastics. Ceramic pressure transducer



- **Automatic boiling point detection**
genuine fully automatic process control without user programming
- **Proven Reliability**
even in tough operating conditions (successor to the market leading PC 2001 VARIO)

THE COMPANY:

With 160 employees and over 40 years of experience, VACUUBRAND manufactures the most comprehensive range of laboratory and instrumentation vacuum pumps, gauges and controllers for rough and fine vacuum.

The product range comprises rotary vane pumps, oil-free diaphragm pumps, complete pumping units, flexible vacuum systems and solutions for local area networks. The range is completed by a wide choice of fittings and accessories as well as vacuum gauges and controllers for rough and fine vacuum.

Our technical literature is only intended to inform our customers. The validity of general empirical values and results obtained under test conditions for specific applications depends upon a number of factors beyond our control. It is, therefore, strictly the users' responsibility to verify carefully the validity or suitability to their specific requirements. No claims arising from the information provided in this catalogue will consequently be entertained. Technical data are subject to change without notice.

Pictures may depict accessories which are not supplied as standard under the catalogue number printed.

TECHNICAL DATA		PC 3001 VARIO
Diaphragm vacuum pump		Chemistry diaphragm pump MD 1C VARIO-SP
Vacuum controller		CVC 3000
Max. pumping speed (ISO 21360) 50/60 Hz	m ³ /h	1.7
Ultimate vacuum (total)	mbar	2
Ultimate vacuum with gas ballast	mbar	4
Inlet connection (IN)		Hose nozzle DN 6/10 mm
Outlet connection (EX)		Hose nozzle DN 10 mm
Cooling water connection		2 x hose nozzle DN 6-8 mm
Interface		RS232C
Dimensions (L x W x H)	mm	300 x 306 x 400
Mass ca.	kg	7.7

Items supplied: Pumping unit with chemistry diaphragm pump MD 1C VARIO-SP mounted on pump support, vacuum controller CVC 3000 with integrated, ceramic pressure transducer and air admittance valve, exhaust vapour condenser, inlet separator, on/off switch, cable with plug and instruction for use.

ORDERING INFORMATION		
200-230 V ~ 50-60 Hz	CEE	696700
200-230 V ~ 50-60 Hz	CH	696701
200-230 V ~ 50-60 Hz	UK	696702
100-120 V ~ 50-60 Hz	US	696703
ACCESSORIES		
Cooling water valve VKW-B, VACUU·BUS		674220
Extension cable VACUU·BUS, 2 m		612552
Y-adapter VACUU·BUS		636656
External air admittance valve VB M-B, VACUU·BUS		674217
Liquid level detection sensor for round-bottom flask 500 ml		699908



Technology for Vacuum Systems

Bestelformulier IKA rotatiefilmverdamer set

Bedrijfsnaam:

Straat en postcode:

Contactpersoon:

BTW nummer: NL

KVK nummer:

Hierbij bestellen wij:

___stuk(s) IKA rotatiefilmverdamer RV10 basic V-C a € 2075,- ex. BTW

___stuk(s) IKA rotatiefilmverdamer RV10 basic V-C set met Vacuubrand
PC3001Vario, slangenset en installatie op locatie a € 5825,- ex. BTW

Leveradres: zie boven
Anders:

Factuuradres: zie boven
Anders:

U kunt dit formulier (graag duidelijk leesbaar) ingevuld faxen aan:

Faxnummer: 0320 – 25 73 54