IKA

designed for scientists

EN

ROTARY EVAPORATORS I SETUP SOLUTIONS

Choose your setup

/// Rotary evaporators and peripheral devices from a single source

IKA's rotary evaporator's award winning design and performance will make a significant difference in your laboratory. The IKA range of RV 3, RV 8, RV 10 digital, RV 10 auto and RV 10 auto pro rotary evaporators offers excellent distilling solutions to the demanding user. Value for money, design and technology – all for your convenience!

Depending on your application a vacuum system (pump / controller / valve) and cooling is required to get everything out of your distillation. The powerful vacuum pumps andrecirculating chillers from IKA are designed to match the rotary evaporator portfolio perfectly. With devices from one single supplier you will be able to set up a well-coordinated system. It is even possible to supply multiple rotary evaporators with only one pump and chiller.

Are you interested in configuring your personal set-up?
Contact our sales team to receive your individual offer.
sales@ika.de // +49 7633 831-140

5-YEAR WARRANTY*

* 2 + 3 years after registering at www.ika.com/register, glassware and wearing parts excluded.

Step 1: Base unit

With selection of the base unit, consisting of heating bath, lift and piston drive, you define the maximum evaporation temperature, essential safety features as well as ease of use and degree of automation of your system.

RV 3 series

the ideal entry-level model

RV 8 series

semi-automated models for standard evaporating applications

RV 10 series

the digital and most automated models for demanding and frequent distilling

Model Ident. No.	RV 3 V-C 0010003328	RV 8 V-C 0010003485	RV 10 digital V-C 0010004802	RV 10 auto pro V-C 0010004812
Motor lift	manual	manual	motorized	motorized
Safety lift-out function	no	yes	yes	yes
Speed display	Scale	LED	LED	TFT
Max. heating bath temperature	99 °C	180 °C	180 °C	180 °C
Integrated vacuum controller	–	–	–	yes / automatic boiling point detection
Integrated vacuum pump	–	–	–	VACSTAR digital

All base units are available with vertical glassware (coated or uncoated), as FLEX version without glassware or with a dry ice condenser (coated or uncoated).

Step 2: Vacuum solution

The result of a distillation is significantly influenced by the used vacuum system. IKA offers various vacuum solutions that perfectly match to the rotary evaporators. The portfolio includes pumps with and without integrated vacuum control as well as speed-controlled pumps and pumps with fixed speed. The degree of automation of the complete system can be influenced by the selection of the vacuum solution. For example, a speed-controlled pump with controller enables automatic boiling point detection.

Cleaning function of valves for long service life

Vacuum controller VC 10 lite & pro

Ident. No. 0020111998 | 0020112031

Universal vacuum controllers VC 10 lite and pro for controlled evacuation of air (gas) from laboratory equipment, as well as for classical separation, filtration or drying tasks in the laboratory.
The controllers are ready-to-use in numerous applications and can be easily installed.

VC 10.400 table stand and VC 10.500 / VC 10.600 stand pole are available as accessory.

Speed-controlled
Compatible with VACSTAR digital and VACSTAR lite, cable connection with vacuum pump is required.

Valve-controlled
Can be used with all standard vacuum sources; use of multiple controllers with one vacuum source possible.

Model Ident. No.	MVP 10 basic 0003980000	VACSTAR lite 0020124926	VACSTAR digital 0020016236	VACSTAR control 0020109375
Max. pump rate	28.3 l/min	16.67 l/min	22 l/min	22 l/min
Final pressure	7 mbar	9 mbar	2 mbar	2 mbar
Speed control	ON / OFF	By vacuum controller 0 / 285 – 1100 rpm	0 / 285 – 1200 rpm	0 / 285 – 1200 rpm
Regulation	Requires external controller / valve	Requires external controller / valve	Requires external controller / valve	Integrated controller
Number of rotary evaporators which can be supplied	4	1	2	1

Step 3: Recirculating chiller

In order to select the right chiller, the following parameters are important: size of the evaporation flask, number of rotary evaporators that are to be supplied with one chiller, requirements for flow or condensate temperature. On this basis, the cooling power requirement can be determined and the right cooling source can be selected. The decision for a recirculationg chiller from IKA is also the decision for high energy savings and reduction of operating noises.

Greatest power density in its class

ECO energy-efficient technology

1 2 3

@ 20 °C condensation temperature

Model	1 RC 2 lite Ident. No. 0025006624			2 RC 2 GREEN basic Ident. No. 0025004186			3 RC 5 basic Ident. No. 0004181000		
Evaporation flask size*	50 – 100 ml	250 – 500 ml	1 l	250 – 500 ml	1 l	2 l or 3 l	1 l	2 l	3 l
Number of rotary evaporators*	4	2	1	4	2	1	4	3	2

Model	RC 2 lite	RC 2 GREEN basic	RC 5 basic
Cooling agent	R 290	R 290	R 290
Cooling capacity at 20 °C	400 W	800 W	1400 W
Energy efficiency	high	very high	very high
Max. pump pressure	0.35 bar	0.5 bar	0.61 bar
Max. flow rate	18 l/min	21 l/min	31 l/min

* Cooling power at 20 °C cooling temperature. Water was used as reference solvent.
When using other solvents, the cooling power demand could be lower.

The chillers RC 2 GREEN and RC 5 are also available as control version with extended features.
Please visit www.ika.com for further information.

Step 4: Selected accessories

Depending on the base unit and the matching peripheral devices, IKA is offering many different accessories to complete your setup. Further accessories are available on **www.ika.com**.

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RV 10.110

Vertical condenser with enlarged surface, coated
Ident. No. 0020019654

RV 10.830

Evaporation flask, coated, NS 29/32, 500 ml
Ident. No. 0020005333

HB 10.3

Protection cover for the heating baths HB eco and HB digital
Ident. No. 0020024125

RV 8.3

Stand pole for attaching the VC 10 vacuum controller to the base plate of RV 8
Ident. No. 0025004707

RV 3.4

Woulff bottle for RV 3
Ident. No. 0025004588

VC 10.400

Table stand to place the VC 10 vacuum controller on a lab bench
Ident. No. 0035001735

VSE 1

Vacuum safety condenser for VACSTAR
Ident. No. 0035001873

VSW 1

Vacuum safety woulff bottle for VACSTAR
Ident. No. 0020015406

VC 10.300

Check valve for each vacuum controller for connection to one pump
Ident. No. 0020011105

VH.SI.8

Vacuum hose, silicone, Ø 8 mm, 1 m
Ident. No. 0020013886

H.SI.8

Hose set DN 8 (2 x 1.5 m), silicone, Ø inner: 8 mm; Ø outer: 12 mm
Ident. No. 0004569000

Y-hose connector 8 mm

Polypropylene (PP), 8 mm, max. 135 °C
Ident. No. 0020010963

RV 10 auto pro V-C Complete Package

/// The complete solution for your rotary evaporator setup

With the new package, IKA is offering a complete solution at an attractive price. All components and connections required for operation are included in the package and come from the same manufacturer. In the event of queries or service cases IKA is your competent contact for the whole setup.

The RV 10 auto offers all characteristics required for efficient, safe, and cost-effective operation. Safety is ensured by the coated glassware which protects the user in case of glass breakage. The included VSE 1 vacuum safety emmission condenser prevents solvents from being released into the room air and thus ensures additional safety for user and environment.

RV 10 auto pro V-C Complete Package

Ident. No. 0010007353

Scope of delivery:

> Rotary evaporator RV 10 auto pro
> Heating bath HB digital
> Vacuum pump VACSTAR digital
> Vacuum safety emmission VSE 1
> Recirculating chiller RC 2 lite
> Glassware vertical coated RV 10.10
> Vapor tube (NS 29/32) RV 10.70
> Mains cable H 11 (2 pcs.)
> Hose set H.SI.8

RC 2 lite

Compact recirculating chiller with powerful 400 W cooling capacity, designed for simple COOLING TASKS DOWN TO -10 °C

VACSTAR digital + VSE 1

Extremely space-saving vacuum pump, achieves a minimum vacuum of 2 mbar, controlled directly by the drive unit RV 10 auto enables AUTOMATIC BOILING POINT DETECTION

PATENTED, VOLUME CONTROLLED, and more intuitive distillation

RV 10 auto

Intuitive operation via brilliant TFT COLOR GRAPHIC DISPLAY, an integrated vacuum controller, cooling water monitoring and sophisticated safety standards

HB digital

combined SAFETY WATER-OIL HEATING BATH FOR UP TO 180 °C

Set-up solutions for two or more rotary evaporators

With only one vacuum system and chiller, multiple rotary evaporators can be supplied. The following examples shows possible solutions for the set-up of a complete system including rotary evaporators with suitable vacuum and cooling system.

Example 1: Two rotary evaporators

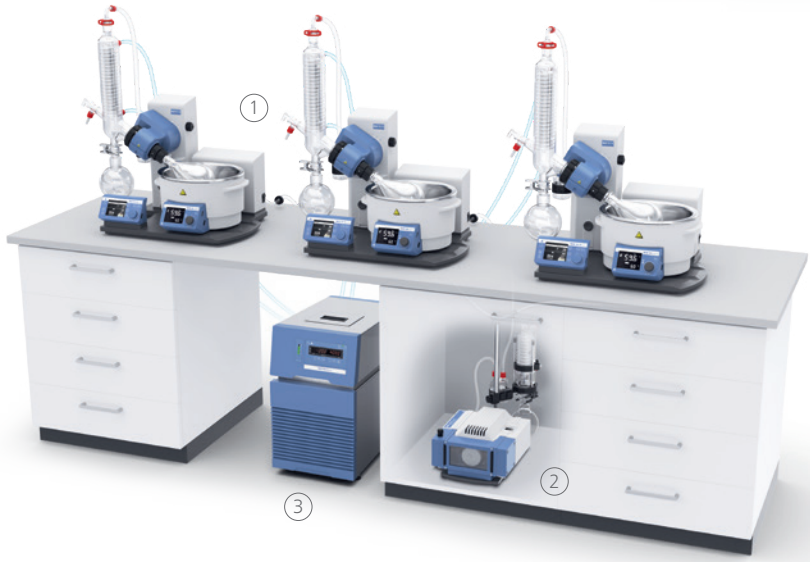
The system consists of:

(1) 2 × RV 8 V-C rotary evaporator
2 × RV 8.3 stand pole
2 × VC 10 pro vacuum controller
2 × VC 10.300 check valve
(2) 1 × VACSTAR digital vacuum pump
1 × VSE 1 vacuum safety emmission
(3) 1 × RC 2 GREEN basic recirculating chiller
2 × RV 10.5005 set of hoses
2 × Y-hose connectors, 8 mm

Example 2: Three rotary evaporators

The system consists of:

(1) 3 × RV 10 auto V-C rotary evaporator
3 × VC 10.300 check valve
(2) 1 × MVP 10 basic vacuum pump
1 × VSS 1 vacuum safety set
(3) 1 × RC 5 basic recirculating chiller
3 × RV 10.5005 set of hoses
6 × Y-hose connectors, 8 mm



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IKA-Werke GmbH & Co.KG
Janke & Kunkel-Straße 10, 79219 Staufen, Germany
Tel: +49 7633 831-0, eMail: sales@ika.de

IKA
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