

# IKA

designed for scientists

EN



## EASY TO USE

Passionately enabling chemists to create a better world since 1910.  
From A to Z.

ROTARY EVAPORATORS MADE BY IKA.

# Rotary Evaporators

/// Modular design and highest precision

**The award-winning design and performance of the IKA rotary evaporators will make a significant difference in your laboratory.**

Our RV 8, RV10 digital and control evaporators offer excellent distilling solutions to the demanding work of scientists. Great value, design and technology - all at your convenience!

In our product range, the RV 8 is the entry level option with manual lift and adjustable immersion angle.

Our advanced RV10 evaporators stand out because of their extraordinary features, such as: digital display for heating bath and drive, interval option, soft start and adjustable end point recognition to protect the glassware from breaking. The digital and control models offer RS 232 and RS232/USB interfaces respectively for using labworldsoft® and for online firmware updates.

**5-YEAR WARRANTY\***

\*2+3 years after registering at [www.ika.com/register](http://www.ika.com/register), glassware and wearing parts excluded



Find out more about IKA and order our fascinating products online: [www.ika.com](http://www.ika.com).

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RV 8

/// The smart choice

The RV 8 rotary evaporator comes equipped with an easy to use semi-manual lift with integrated safety “lift out function” and is ideal for all standard evaporating applications. Digital displays for both rotation speed and heating bath temperature allow for optimal controlling of all distillation processes. The RV 8 provides a user-friendly operation and distills the required solvent accurately with precise results. Additionally a Woulff bottle is included in all the RV 8 packages.



**Two digital displays**  
for an optimal overview.



Advanced heating bath  
HB 10 **included in delivery.**



Compatible with the complete range  
of **IKA RV 10 glassware.**



**Push-out function.**



Can be moved by **130 mm**  
to accommodate different flasks.



**Adjustable** immersion  
angle and height.



PERFORMANCE

/// RV 8 V, Ident. No. 0010002180 | RV 8 V-C, Ident. No. 0010002182 | RV 8 FLEX, Ident. No. 0010002178

|           |                                                                          |
|-----------|--------------------------------------------------------------------------|
| RV 8 V    | with heating bath HB 10 and RV 10.900 set of glassware, vertical         |
| RV 8 V-C  | with heating bath HB 10 and RV 10.910 set of glassware, vertical, coated |
| RV 8 FLEX | with heating bath HB 10, incl. Woulff bottle                             |

# RV 8

/// RV 8 in detail



OVERVIEW OF COMPONENTS

- |                                                                                                      |                                                           |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| 1 vertical glassware (other options available)                                                       | 8 lift raised automatically in case of power outage       |
| 2 various flask sizes                                                                                | 9 choice of angle                                         |
| 3 vacuum connection plus Woulff bottle;                                                              | 10 black and white display                                |
| 4 two displays for optimal view                                                                      | 11 locking mechanism red for unlocked state of vapor tube |
| 5 heating bath can be used separately                                                                | 12 vapor tube held in plastic sleeves to prevent sticking |
| 6 ergonomic carrying handles on heating bath; can be moved by 120 mm to accommodate different flasks |                                                           |
| 7 motorized height-adjustable lift;                                                                  |                                                           |

RV 8 IS THE LATEST IN DISTILLING TECHNOLOGY THAT GIVES YOU MORE OPTIONS TO FIT WITHIN YOUR BUDGET



SEMI-MANUAL MECHANISM

The new RV 8 offers a semi-manual mechanism. The ambidextrous design makes working more convenient and comfortable.



# RV 10 basic

/// Robust and reliable lab companion

The RV 10 basic is the entry level model into the IKA RV 10 Rotary Evaporator line. It comes equipped with a new universal heating bath, space-saving vertical glassware as well as state-of-the-art safety features. The RV 10 basic is a robust and reliable lab companion. Its optimized bath volume allows for fast heat-up times. The condenser unit has specially designed glass tubes that utilize the 1,500 cm<sup>2</sup> surface extremely efficient.



**PERFORMANCE**

/// RV 10 basic V, Ident. No. 0008023901 | RV 10 basic V-C, Ident. No. 0008024501

|                 |                                                                         |
|-----------------|-------------------------------------------------------------------------|
| RV 10 basic V   | With heating bath HB 10 and RV 10.900 Set of glassware, vertical        |
| RV 10 basic V-C | with heating bath HB 10 and RV 10.910 Set of glassware, vertical coated |

RV 10 basic

/// RV 10 basic in detail



**Two digital displays**  
for an optimal overview.



Compatible with the complete range  
of **IKA RV 10 glassware**.



Can be moved by **130 mm**  
to accommodate different flasks.



Advanced heating bath  
HB 10 **included in delivery**.



**Push-out function.**



**Adjustable** immersion  
angle and height.

OVERVIEW OF COMPONENTS

- |   |                                                                                    |    |                                                                                           |
|---|------------------------------------------------------------------------------------|----|-------------------------------------------------------------------------------------------|
| 1 | vertical glassware (other options available)                                       | 8  | motorized height-adjustable lift;<br>lift raised automatically in<br>case of power outage |
| 2 | various flask sizes                                                                | 9  | choice of angle                                                                           |
| 3 | vacuum connection plus Woulf bottle                                                | 10 | vapor tube held in plastic sleeves<br>to prevent sticking                                 |
| 4 | adjustable safety stop                                                             | 11 | solvent resistant PTFE seal for long-term use                                             |
| 5 | two displays for optimal view                                                      |    |                                                                                           |
| 6 | heating bath can be used separately;<br>ergonomic carrying handles on heating bath |    |                                                                                           |
| 7 | can be moved by lift to<br>accommodate different flasks                            |    |                                                                                           |

# RV 10 digital

/// Robust and reliable lab companion



BEST-IN-CLASS  
COOLING SURFACE  
1,500 CM²



**Two digital displays**  
for an optimal overview.



Compatible with the complete range  
of **IKA RV 10 glassware**.



Can be moved by **140 mm**  
to accommodate different flasks.



Advanced heating bath  
HB 10 **included in delivery**.



**Push-out function.**



**Adjustable** immersion  
angle and height.

## BENEFITS

- › universal water/oil heating bath
- › motorized lift with  
“safety-stop” function
- › RS 232 Interface
- › optimized heating bath  
volume for fast heat-up
- › ergonomically placed  
handles on heating bath
- › smooth start
- › left-right interval
- › timer function
- › safety temperature circuits
- › lower-end stop
- › push-off mechanism to  
loosen tight fitted glassware



## PERFORMANCE

/// RV 10 digital V, Ident. No. 0008024101 |  
RV 10 digital V-C, Ident. No. 0008024701 | RV 10 digital FLEX, Ident. No. 0008023601

|                    |                                                                          |
|--------------------|--------------------------------------------------------------------------|
| RV 10 digital V    | with heating bath HB 10 and RV 10.900 set of glassware, vertical         |
| RV 10 digital V-C  | with heating bath HB 10 and RV 10.910 set of glassware, vertical, coated |
| RV 10 digital FLEX | with heating bath HB 10, incl. Woulff bottle                             |

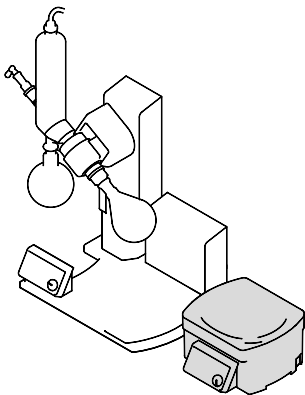
# RV 10 digital

/// RV 10 digital in detail



## OVERVIEW OF COMPONENTS

- 1 vertical glassware (other options available)
- 2 various flask sizes
- 3 vacuum connection plus Woulf bottle
- 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 lift to accommodate different flasks
- 8 motorized height-adjustable lift; lift raised automatically in case of power outage
- 9 choice of angle
- 10 vapor tube held in plastic sleeves to prevent sticking
- 11 solvent resistant PTFE seal for long-term use



Heating bath with ergonomic carrying handles, can also be used separately.

# RV 10 control

/// Efficient and safe distillation

With the integrated vacuum controller, a user can work with any vacuum source, or other single vacuum pump.

BEST-IN-CLASS  
COOLING SURFACE  
1,500 CM<sup>2</sup>

PATENTED  
VOLUME CONTROLLED  
DISTILLATION!



Compatible with the complete range of **IKA RV 10 glassware**.



Can be moved by **140 mm** to accommodate different flasks.



Advanced heating bath HB 10 **included in delivery**.



**Push-out function.**



**Adjustable** immersion angle and height.

## BENEFITS

- › RV 10 control with advanced technology
- › automatic solvent boiling point detection
- › integrated solvent library (extendible by the customer)
- › integrated vacuum controller
- › USB interface and graphical display
- › direct connection to a speed-controlled pump possible
- › automatic monitoring of heating bath temperature
- › online-firmware update via USB or RS 232 possible
- › complete and customized system solution through combination of a rotary evaporator, a vacuum pump and a chiller
- › push-off mechanism to loosen tight fitted glassware
- › 3 different operating modes: manual, auto distillation, user-defined



# RV 10 control packages

/// Best price offers



RV 10.4002 magnetic valve  
included in RV 10 control package



N 920 speed controlled pump  
included in RV 10 control auto package

**RV 10 control**  
for lab vacuum system  
› 2 × RV 10 control  
› 1 × MVP 10 basic

+ RV 10 control  
+ RV 10.4002 magnetic valve

**RV 10 control auto**  
for stand alone operation

+ RV 10 control  
+ N 920 speed controlled pump

Required water and vacuum hoses are included in the package.

PLEASE VISIT  
[WWW.IKA.COM/DISTILLING](http://WWW.IKA.COM/DISTILLING)

**RV 10 control V package**  
› RV 10 control V  
+ HB 10 heating bath  
+ RV 10.900 set of glassware, vertical

Ident. No. 0008038301

**RV 10 control V auto package**  
› RV 10 control V auto  
+ HB 10 heating bath  
+ N 920 speed controlled pump  
+ RV 10.900 set of glassware, vertical

Ident. No. 0008038401

**RV 10 control V-C package**  
› RV 10 control V-C  
+ HB 10 heating bath  
+ RV 10.910 set of glassware, vertical, coated

Ident. No. 0008038501

**RV 10 control V-C auto package**  
› RV 10 control V-C auto  
+ HB 10 heating bath  
+ N 920 speed controlled pump  
+ RV 10.910 set of glassware, vertical, coated

Ident. No. 0008038601

**RV 10 control FLEX package**  
› RV 10 control FLEX  
+ HB 10 heating bath  
+ Woulff bottle

Ident. No. 0008031801

**RV 10 control FLEX package**  
› RV 10 control FLEX  
+ HB 10 heating bath  
+ N 920 speed controlled pump  
+ Woulff bottle

Ident. No. 0008038801

## RV 10 control auto

/// Automatic distillation

The enhanced RV 10 control is now equipped with our fully automated speed control pump N 920. Additionally, the RV 10 control auto detects the required level of vacuum pressure by detecting the boiling point of the solvent. This feature has some significant benefits over a valve-regulated system.

AUTOMATIC  
BOILING POINT  
DETECTION

### WHY TO USE THE RV10 CONTROL AUTO

#### Automatic

- › start heating bath
- › lift lowers
- › rotation starts
- › pump activates

#### Controlled

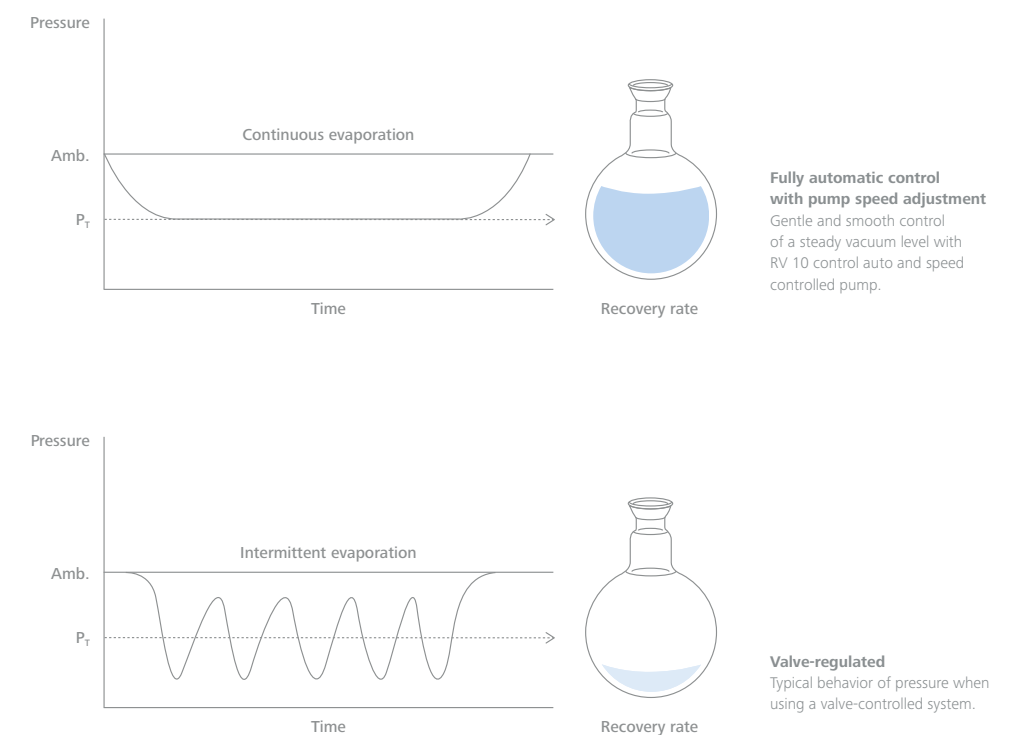
- › flow rate for the condenser
- › dT on the condenser
- › correct heating bath temperature



### BENEFITS

- › increased solvent recovery performance up to 100 %
- › automatic boiling point detection
- › speed controlled vacuum pump for precise vacuum level
- › reduced noise level and wearing of pump components
- › reduced process time and increased overall performance

The gentle maintenance of the vacuum level prevents over (or undershooting) of the target vacuum pressure, an occurrence that is often seen with valve-controlled systems. This feature allows for faster, more efficient and safer distilling processes. It also significantly reduces the noise level of the pump due to the motor speed management functionality of the RV 10 control auto. As a result, you save energy and increase the overall performance.



Amb. = Ambient Pressure  
P<sub>T</sub> = Target pressure

# RV 10 control auto

/// An overview



## OVERVIEW OF COMPONENTS

- 1

high performance vertical cooling condenser  
(different options available)
- 2

various flask sizes
- 3

adjustable safety stop
- 4

two displays for optimal view
- 5

heating bath can be used separately;  
ergonomic carrying handles on heating bath
- 6

RS 232 and USB interface
- 7

integrated vacuum controller
- 8

vapor tube held in plastic sleeves  
to prevent sticking
- 9

solvent resistant PTFE seal for long-term use
- 10

motorized height-adjustable lift raised  
automatically in case of power outage



HB 10

/// Universal heating bath

IKA heating baths are developed with a strong focus on safety. All baths are equipped with a double jacket to protect against burns and a safety temperature monitor keeps the bath from over heating. After turning on the unit every time, the safety functions are automatically checked.

BENEFITS

- › lock-function – prevents accidental change of bath settings
- › dry run control – stops heating the bath if the liquid level has dropped
- › adjustable safety temperature; user can set temperature limits.
- › the heating bath can be used as a stand-alone unit for other applications
- › ergonomic and well positioned handles for safe transport
- › optimized bath volume guarantees fast heat-up time
- › 3 operating modes to operate safer

TECHNICAL DATA  
/// HB 10, Ident. No. 0004068001

|                                          |               |                                     |                        |
|------------------------------------------|---------------|-------------------------------------|------------------------|
| Heat output                              | 1,300 W       | Volume                              | 3 l                    |
| Temperature range                        | RT to +180 °C | Safety class acc. to DIN 12877      | 21                     |
| Setting tolerance                        | ± 1 K         | Adjustable safety circuit min / max | +50 °C / +190 °C       |
| Deviation (3 l H <sub>2</sub> O, +90 °C) | ± 1 K         | Material                            | stainless steel 1.4301 |
| Temperature display                      | digital       | Weight                              | 3 kg                   |
|                                          |               | Dimensions (W × D × H)              | 290 × 190 × 265 mm     |

HB 10 HEATING BATH:  
FOR A LOW VOLUME AND  
FAST HEAT-UP TIME



Integrated handles to  
safely transport heating bath

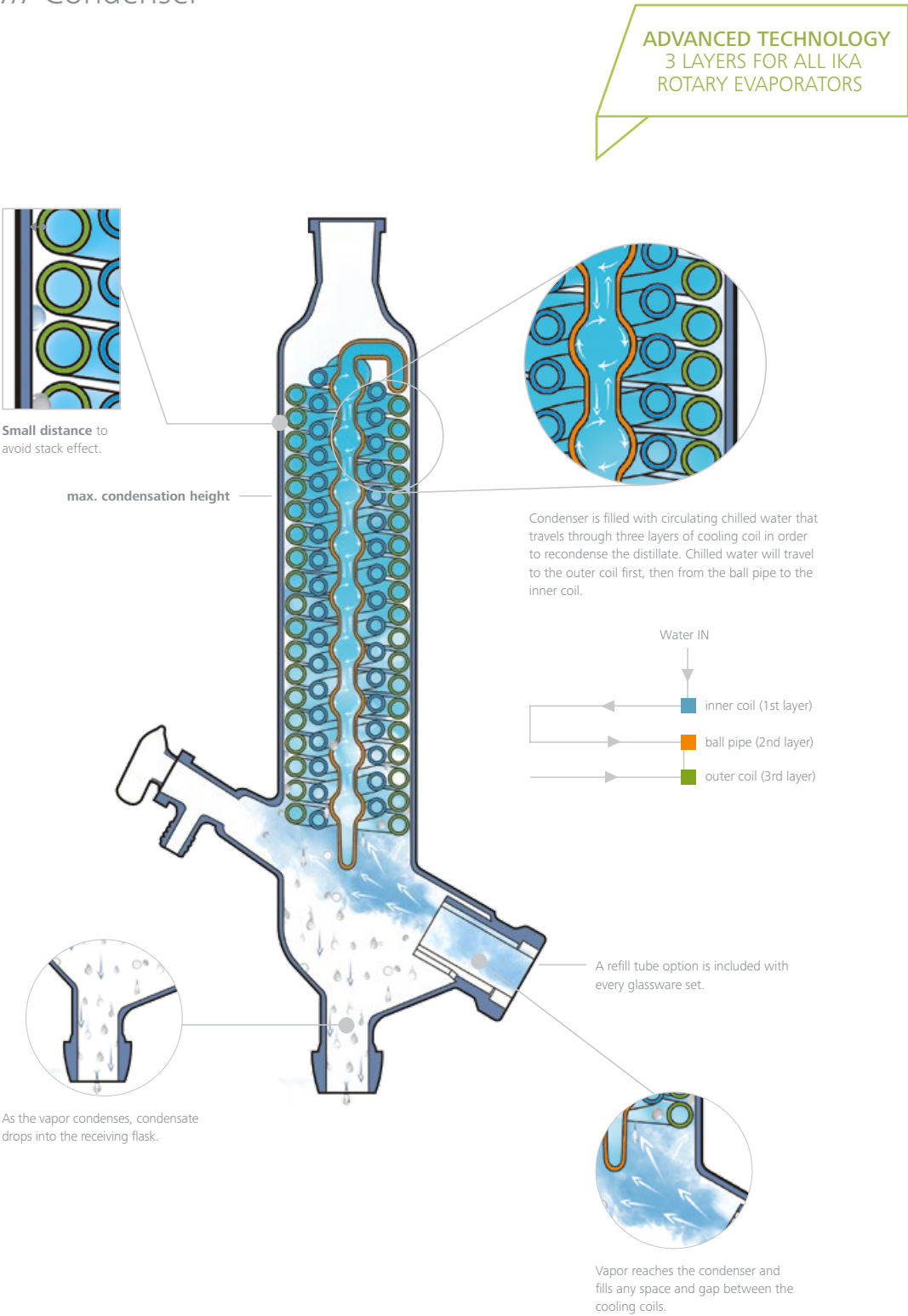
**Digital Display** LCD digital display for precise temperature setting.

**Integrated ergonomic carrying handles.**

**Key-button** with locking function for the heating bath temperature.

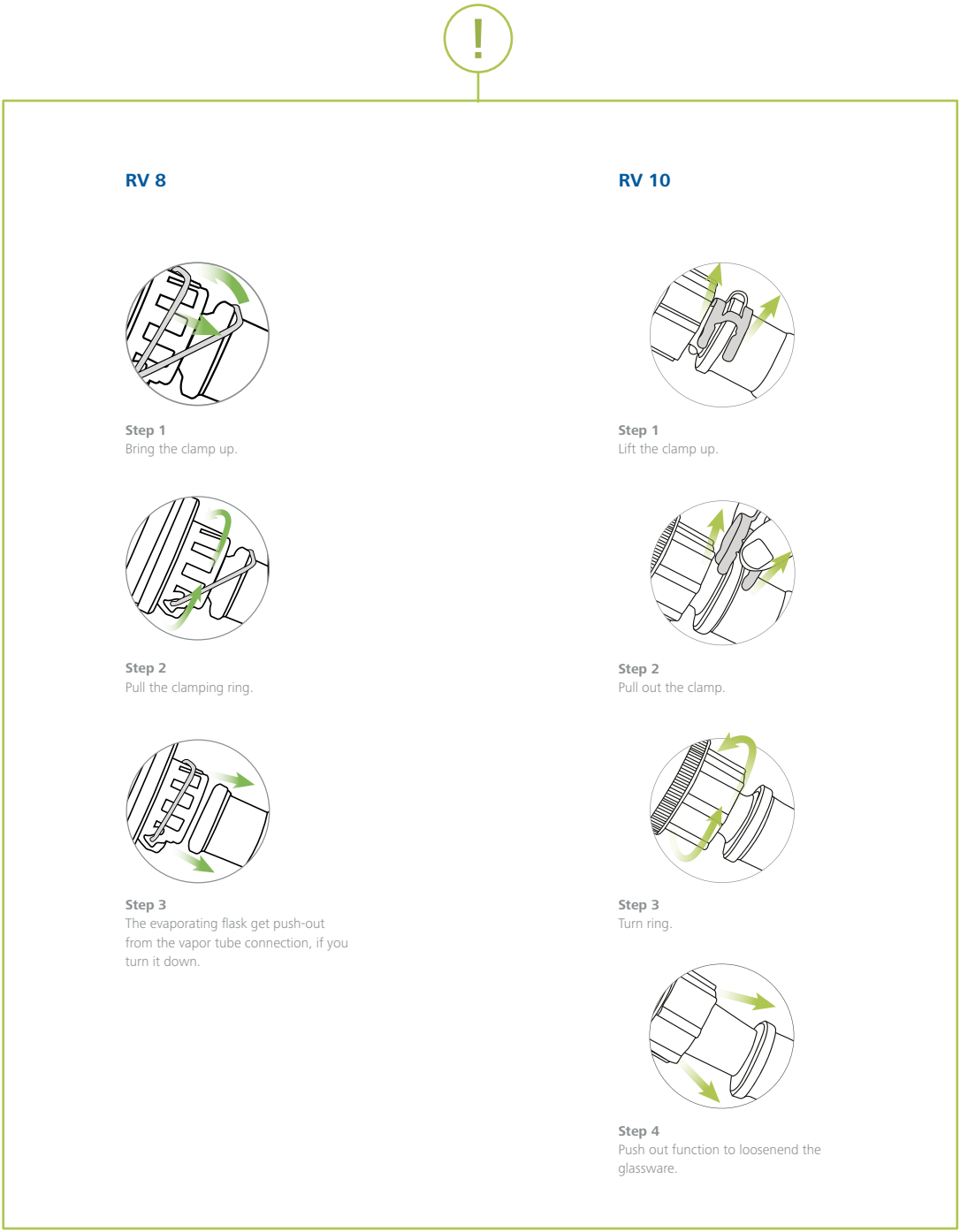
# Rotary Evaporators

/// Condenser



# Rotary Evaporators

/// Push-out function



Technical data

/// Rotary Evaporators

TECHNICAL DATA

/// Comparison

|                 | RV 8                                                           | RV 10 basic            | RV 10 digital            | RV 10 control             |
|-----------------|----------------------------------------------------------------|------------------------|--------------------------|---------------------------|
| Packages        |                                                                |                        |                          |                           |
|                 | <u>RV 8 V</u>                                                  | <u>RV 10 basic V</u>   | <u>RV 10 digital V</u>   | <u>RV 10 control V*</u>   |
|                 | <u>RV 8 V-C</u>                                                | <u>RV 10 basic V-C</u> | <u>RV 10 digital V-C</u> | <u>RV 10 control V-C*</u> |
|                 | RV 8 FLEX                                                      |                        | RV 10 digital FLEX       | RV 10 control FLEX*       |
| Cooler type     |                                                                |                        |                          |                           |
|                 | V = vertical                                                   |                        |                          |                           |
|                 | V-C = vertical-coated                                          |                        |                          |                           |
|                 | FLEX = incl. Woulff bottle, glassware to be ordered separately |                        |                          |                           |
| Cooling surface |                                                                |                        |                          |                           |
|                 | 1,500 cm <sup>2</sup>                                          |                        |                          |                           |

\* RV 10.4002 magnetic valve now included with delivery of every RV 10 control V, V-C and FLEX package.

IDENT. NO.

/// Comparison

| RV 8                    |            | RV 10 digital                   |            |
|-------------------------|------------|---------------------------------|------------|
| RV 8 V package          | 0010002180 | RV 10 digital V package         | 0008024101 |
| RV 8 V-C package        | 0010002182 | RV 10 digital V-C package       | 0008024701 |
| RV 8 FLEX package       | 0010002178 | RV 10 digital FLEX package      | 0008023601 |
| RV 10 basic             |            | RV 10 control                   |            |
| RV 10 basic V package   | 0008023901 | RV 10 control V package         | 0008024301 |
| RV 10 basic V-C package | 0008024501 | RV 10 control V-C package       | 0008038501 |
|                         |            | RV 10 control FLEX package      | 0008031801 |
|                         |            | RV 10 control V auto package    | 0008038401 |
|                         |            | RV 10 control V-C auto package  | 0008038601 |
|                         |            | RV 10 control FLEX auto package | 0008038801 |

**V:** Rotary evaporator with set of vertical glassware.  
**V-C:** Rotary evaporator with set of vertical coated glassware.  
**FLEX:** Rotary evaporator without any glassware (condenser, evaporation and receiving flask); either use pre-existing IKA glassware or order separately.

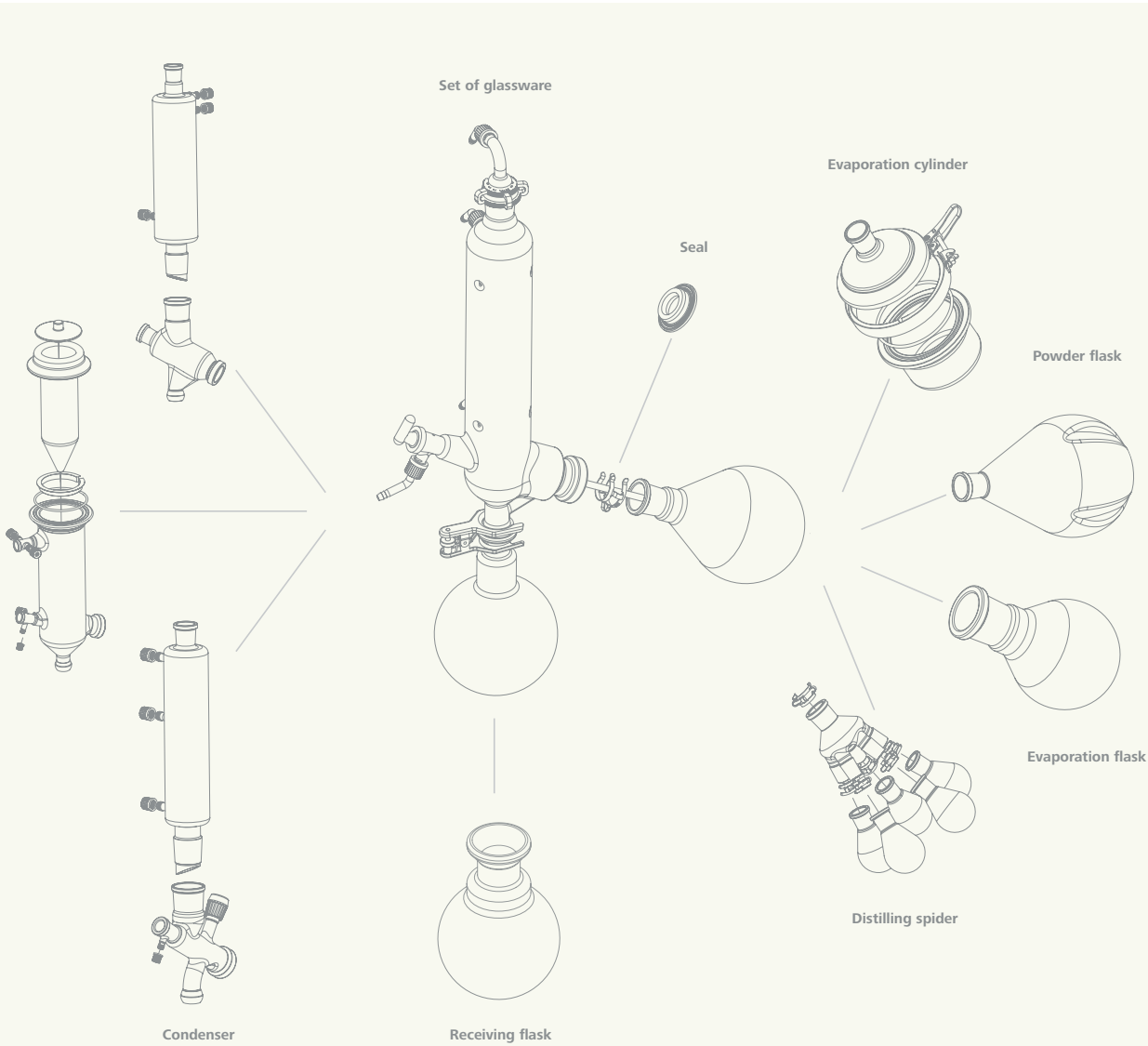
GENERAL DATA

/// Comparison

|                                                        | RV 8                     | RV 10 basic              | RV 10 digital            | RV 10 control            |
|--------------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Drive                                                  |                          |                          |                          |                          |
| Motor type                                             | brushless DC drive motor | brushless DC drive motor | brushless DC drive motor | brushless DC drive motor |
| Motor rating input                                     | 50 W                     | 50 W                     | 50 W                     | 50 W                     |
| Speed range                                            | 5 – 300 rpm              | 20 – 280 rpm             | 20 – 280 rpm             | 20 – 280 rpm             |
| Speed display                                          | digital                  | digital                  | digital                  | digital                  |
| Clockwise and counter-clockwise                        | no                       | yes                      | yes                      | yes                      |
| Soft start                                             | yes                      | yes                      | yes                      | yes                      |
| Head angle adjustable                                  | 0 to 45 °                | 0 to 45 °                | 0 to 45 °                | 0 to 45 °                |
| Stroke displacement                                    | 130 mm, manual           | 140 mm, motorized        | 140 mm, motorized        | 140 mm, motorized        |
| Setting of lower end stop                              | no                       | 60 mm, contact free      | 60 mm, contact free      | 60 mm, contact free      |
| Vacuum controller                                      | optional                 | optional                 | optional                 | integrated               |
| Heating bath                                           |                          |                          |                          |                          |
| Bath volume max.                                       | 3 l                      | 3 l                      | 3 l                      | 3 l                      |
| Temperature range                                      | RT to +180 °C            | RT to +180 °C            | RT to +180 °C            | RT to +180 °C            |
| Heating power                                          | 1,300 W                  | 1,300 W                  | 1,300 W                  | 1,300 W                  |
| Temperature display                                    | digital                  | digital                  | digital                  | digital                  |
| Setting accuracy                                       | 1 °C                     | 1 °C                     | 1 °C                     | 1 °C                     |
| Control Deviation                                      | ± 1 K                    | ± 1 K                    | ± 1 K                    | ± 1 K                    |
| General data                                           |                          |                          |                          |                          |
| Dimensions (W x D x H)                                 | 510 x 345 x 490 mm       | 530 x 410 x 430 mm       | 530 x 410 x 430 mm       | 530 x 410 x 430 mm       |
| Weight of the drive incl. heating bath w/o glass parts | 17.2 kg                  | 20 kg                    | 20 kg                    | 21.5 kg                  |
| Permissible ambient temperature                        | +5 to +40 °C             | +5 to +40 °C             | +5 to +40 °C             | +5 to +40 °C             |
| Permissible relative moisture                          | 80 %                     | 80 %                     | 80 %                     | 80 %                     |
| Protection class according to DIN EN 60529             | IP 20                    | IP 20                    | IP 20                    | IP 20                    |
| Voltage / Frequency                                    | 110 – 120 V / 50/60 Hz   | 110 – 120 V / 50/60 Hz   | 110 – 120 V / 50/60 Hz   | 110 – 120 V / 50/60 Hz   |

# Accessories

/// Rotary Evaporators



1 | **RV 10.900 SET OF GLASSWARE, VERTICAL**

Compact vertical condenser for all standard distillations.  
*Glassware included in all packages, except FLEX*

**Details**

RV 10.900 vertical, Ident. No. 0003842500  
RV 10.910 vertical-coated, Ident. No. 0003842600

|                 |           |
|-----------------|-----------|
| Condenser type  | vertical  |
| Cooling surface | 1,500 cm² |

2 | **RV 10.1000 SET OF GLASSWARE, DIAGONAL**

Diagonal condenser for all standard distillations.

**Details**

RV 10.1000 diagonal, Ident. No. 0003842700  
RV 10.1010 diagonal-coated, Ident. No. 0003842800

|                 |           |
|-----------------|-----------|
| Condenser type  | diagonal  |
| Cooling surface | 1,500 cm² |

3 | **RV 10.3 VERTICAL-INTENSIVE CONDENSER WITH MANIFOLD**

Vertical-intensive condenser with double jacket and manifold for particularly efficient condensation.

**Details**

RV 10.3, Ident. No. 0003741000  
RV 10.30 coated, Ident. No. 0003741100

|                 |                    |
|-----------------|--------------------|
| Condenser type  | vertical-intensive |
| Cooling surface | 1,400 cm²          |

4 | **RV 10.4 DRY ICE CONDENSER**

Dry ice condenser for distilling low-boiling point solvents.  
*Not possible with autodistillation mode on RV 10 control.*

**Details**

RV 10.4, Ident. No. 0003742000  
RV 10.40, Ident. No. 0003742100

|                 |                   |
|-----------------|-------------------|
| Condenser type  | dry ice condenser |
| Cooling surface | 620 cm²           |

5 | **RV 10.5 VERTICAL CONDENSER WITH MANIFOLD AND CUT-OFF VALVE FOR REFLUX DISTILLATION**

The solvent to be distilled can be continuously fed through the PTFE inlet tube.

*Requires RV 10.75 Vapor tube short.*

**Details**

RV 10.5, Ident. No. 0003743000  
RV 10.50 coated, Ident. No. 0003743100

|                 |           |
|-----------------|-----------|
| Condenser type  | vertical  |
| Cooling surface | 1,200 cm² |

6 | **RV 10.6 VERTICAL-INTENSIVE CONDENSER WITH MANIFOLD AND CUT-OFF VALVE FOR REFLUX DISTILLATION**

The manifold features a condensate cover and an outlet channel which prevent the condensate from coming into contact with the seal.

*Requires RV 10.75 Vapor tube short.*

**Details**

RV 10.6, Ident. No. 0003744000  
RV 10.60 coated, Ident. No. 0003744100

|                 |                    |
|-----------------|--------------------|
| Condenser type  | vertical-intensive |
| Cooling surface | 1,400 cm²          |

7 | **RV 10.73 VAPOR TUBE NS 24/40**

Made of high quality borosilicate glass. For all glassware.  
*Included with each RV 10 package.*

**Details**

RV 10.73, IDENT. NO. 0003829400

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

8 | **RV 10.75 VAPOR TUBE SHORT NS 24/40**

Made of high quality borosilicate glass.  
For vertical condensers RV 10.5 and RV 10.6.

**Details**

RV 10.75, Ident. No. 0003972300

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|



1 | RV 10.900

2 | RV 10.1000

3 | RV 10.3

4 | RV 10.4

5 | RV 10.5

6 | RV 10.6

7 | RV 10.73

8 | RV 10.75

1 | **HB 10.1 SHIELD FOR HEATING BATH HB 10**

For optimal protection against splashes of hot liquid.

**Details**

HB 10.1, Ident. No. 0003641800

|          |               |
|----------|---------------|
| Material | polycarbonate |
|----------|---------------|

2 | **HB 10.2 PROTECTION COVER FOR HEATING BATH**

Essential accessory if it is not possible to work in an extractor hood. Protects the user against splashes of hot liquid and in the event of the evaporator flask breaking.

**Details**

HB 10.2, Ident. No. 0003641000

|          |               |
|----------|---------------|
| Material | polycarbonate |
|----------|---------------|

3 | **POWDER FLASK NS 24/40**

Optimizes powder drying applications by avoiding the accumulation of powder on the walls of the flask.

**Details**

RV 10.2017, 500 ml, Ident. No. 0003847200

RV 10.2018, 1,000 ml, Ident. No. 0003847300

RV 10.2019, 2,000 ml, Ident. No. 0003847400

|                |                   |
|----------------|-------------------|
| Volume (in ml) | 500, 1,000, 2,000 |
|----------------|-------------------|

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

4 | **EVAPORATION CYLINDER NS 24/40**

Makes retrieval of viscous substances easy.

**Details**

RV 10.2023, 500 ml, Ident. No. 0003848200

RV 10.2022, 1,500 ml, Ident. No. 0003848300

|                |            |
|----------------|------------|
| Volume (in ml) | 500, 1,500 |
|----------------|------------|

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

5 | **RV 10.2025 FOAM BRAKE NS 24/40**

The rising foam produces bursts in the glass ball extension. This stops foam from entering the receiving flask.

*Note: When using a 3 liter evaporation flask, RV 10.3000 extension plate is required.*

**Details**

RV 10.2025, Ident. No. 0003848700

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

6 | **RV 10.3000 EXTENSION PLATE**

Accessories required when using RV 10.2025 Foam brake.

*Note: Allows the heating bath to be moved 150 mm*

*horizontally. Accessories required when using the*

*RV 10.2025 foam brake and 3 liter evaporation flask.*

**Details**

RV 10.3000, Ident. No. 0003859000

|            |                   |
|------------|-------------------|
| Dimensions | 200 × 270 × 27 mm |
|------------|-------------------|

7 | **DISTILLING SPIDER WITH 5 FLASKS NS 24/40**

For simultaneous distillation in 5 evaporation flasks, included with purchase.

**Details**

RV 10.2034, 50 ml, Ident. No. 0003849800

RV 10.2035, 100 ml, Ident. No. 0003849900

|                |         |
|----------------|---------|
| Volume (in ml) | 50, 100 |
|----------------|---------|

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

8 | **DISTILLING SPIDER WITH DISTILLING SLEEVES NS 24/40**

For simultaneous distillation in 6, 12 or 20 distilling sleeves, included with purchase.

**Details**

RV 10.2029, 6 distilling sleeves, Ident. No. 0003849300

RV 10.2030, 12 distilling sleeves, Ident. No. 0003849400

RV 10.2031, 20 distilling sleeves, Ident. No. 0003849500

RV 10.610, 20 ml, Ident. No. 0003919400

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

9 | **EVAPORATION FLASK NS 24/40**

The flask, which is made of high quality borosilicate glass, is available in seven different sizes.

**Details**

RV 10.2007, 50 ml, Ident. No. 0003845300

RV 10.2008, 100 ml, Ident. No. 0003845400

RV 10.2009, 250 ml, Ident. No. 0003845500

RV 10.2010, 500 ml, Ident. No. 0003845600

RV 10.2011, 1,000 ml, Ident. No. 0003845700

RV 10.2012, 2,000 ml, Ident. No. 0003845800

RV 10.2013, 3,000 ml, Ident. No. 0003845900

RV 10.2007c coated, 50 ml, Ident. No. 0020005330\*

RV 10.2008c coated, 100 ml, Ident. No. 0020005331\*

RV 10.2009c coated, 250 ml, Ident. No. 0020005332\*

RV 10.2010c coated, 500 ml, Ident. No. 0020005333\*

RV 10.2011c coated, 1,000 ml, Ident. No. 0004221400\*

RV 10.2012c coated, 2,000 ml, Ident. No. 0020005334\*

RV 10.2013c coated, 3,000 ml, Ident. No. 0020005335\*

|                |                                           |
|----------------|-------------------------------------------|
| Volume (in ml) | 50, 100, 250, 500,<br>1,000, 2,000, 3,000 |
|----------------|-------------------------------------------|

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

10 | **RECEIVING FLASK KS 35/20**

The flask, which is made of high quality borosilicate glass, is available in six different sizes, either coated or uncoated.

**Details**

RV 10.100, 100 ml, Ident. No. 0003742200

RV 10.101, 250 ml, Ident. No. 0003742300

RV 10.102, 500 ml, Ident. No. 0003742400

RV 10.103, 1,000 ml, Ident. No. 0003742500

RV 10.104, 2,000 ml, Ident. No. 0003742600

RV 10.105, 3,000 ml, Ident. No. 0003742700

RV 10.200 coated, 100 ml, Ident. No. 0003743200

RV 10.201 coated, 250 ml, Ident. No. 0003743300

RV 10.202 coated, 500 ml, Ident. No. 0003743400

RV 10.203 coated, 1,000 ml, Ident. No. 0003743500

RV 10.204 coated, 2,000 ml, Ident. No. 0003743600

RV 10.205 coated, 3,000 ml, Ident. No. 0003743700

|                |                                       |
|----------------|---------------------------------------|
| Volume (in ml) | 100, 250, 500,<br>1,000, 2,000, 3,000 |
|----------------|---------------------------------------|

|          |                    |
|----------|--------------------|
| Material | borosilicate glass |
|----------|--------------------|

\* About the coated evaporating flask the coating could be use if the costumer is working with oil and max temp. 180 °C.

Unique to IKA

11 | **RV 10.8001 SEAL**

New airtight lip-seal from PTFE

with a built-in stainless steel spring.

**Details**

RV 10.8001, Ident. No. 0003907000

|          |                       |
|----------|-----------------------|
| Material | PTFE, stainless steel |
|----------|-----------------------|

12 | **OTHER ACCESSORIES**

**Details**

RV 05.10 balljoint clamp, Ident. No. 0000736600

RV 10.88 clamp, NS 24, Ident. No. 0003683300

RV 10.5005 hose kit, Ident. No. 0020000552

**RV 8 Accessories**

RV 8.1 support pole, Ident. No. 0004438500

RV 8.2 mechanical end stop, Ident. No. 0025001342

RV 8.3 stand pole, Ident. No 0025004707

# Accessories

/// Selection guide

|                                                                                                                                 |                              |                              |                              |               |
|---------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------|------------------------------|---------------|
|  <b>ACCESSORIES OVERVIEW</b><br>/// Comparison |                              |                              |                              |               |
|                                                                                                                                 | RV 8                         | RV 10 basic                  | RV 10 digital                | RV 10 control |
| Required accessories for an existing vacuum                                                                                     |                              |                              |                              |               |
| Magnetic valve in-house vacuum system                                                                                           | x <sup>1)</sup>              | x <sup>1)</sup>              | x <sup>1)</sup>              | RV 10.4001    |
| Magnetic valve laboratory vacuum system                                                                                         | x <sup>1)</sup>              | x <sup>1)</sup>              | x <sup>1)</sup>              | RV 10.4002    |
| Pump control including magnetic valve                                                                                           | x <sup>1)</sup>              | x <sup>1)</sup>              | x <sup>1)</sup>              | RV 10.4003    |
| Recommended accessories for tap water (faucet) connection                                                                       |                              |                              |                              |               |
| Choke water valve                                                                                                               | –                            | –                            | –                            | RV 10.5001    |
| Filter                                                                                                                          | –                            | –                            | –                            | RV 10.5002    |
| Pressure regulating valve                                                                                                       | RV 10.5003                   | RV 10.5003                   | RV 10.5003                   | RV 10.5003    |
| Supplementary vacuum system                                                                                                     |                              |                              |                              |               |
| Vacuum system                                                                                                                   | MVP 10 basic + VSS 1 + VCV 1 | MVP 10 basic + VSS 1 + VC 10 | MVP 10 basic + VSS 1 + VC 10 | MVP 10 basic  |
| Additional chiller system                                                                                                       |                              |                              |                              |               |
| for one rotary evaporator                                                                                                       | RC 2 basic                   | RC 2 basic                   | RC 2 basic                   | RC 2 basic    |

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



RV 8



RV 10 basic



RV 10 digital



RV 10 control



**RV 10.4001 MAGNETIC VALVE IN-HOUSE VACUUM**

Industrial vacuum source for many different in-house users; usually fixed pipes.  
*Accessory required for an existing vacuum.*

| Details                           |            |
|-----------------------------------|------------|
| RV 10.4001, Ident. No. 0003902600 |            |
| Power                             | 24 V / 9 W |
| Weight                            | 0.142 kg   |



**RV 10.4002 MAGNETIC VALVE LABORATORY VACUUM**

High quality vacuum valve for an optimum controlled operation. The integrated check valve eliminates external influence on the operating pressure in the vacuum chamber.  
*Accessory required for an existing vacuum.*

| Details                           |            |
|-----------------------------------|------------|
| RV 10.4002, Ident. No. 0003880300 |            |
| Power                             | 24 V / 6 W |
| Weight                            | 0.142 kg   |
| Integrated check valve            | yes        |



**RV 10.4003 PUMP CONTROL INCL. MAGNETIC VALVE**

One rotary evaporator at one pump/tabletop operation. The pump only works when vacuum is needed – leading to a savings of up to 90 % of operating time, increased equipment life and reduction of noise. Integrated LED display.  
*Accessory required for an existing vacuum.*  
*For non EU countries a plug adapter is required.*

| Details                           |                       |
|-----------------------------------|-----------------------|
| RV 10.4003, Ident. No. 0003900200 |                       |
| Power magnetic valve              | 24 V / 6 W            |
| Power pump control                | 100 – 240 V, 50/60 Hz |
| Weight                            | 0.142 kg              |



**RV 10.5001 CHOKE WATER VALVE**

The integrated magnetic valve closes/opens the water circuit during automatic distillation.  
*Accessory recommended for tap water connection.*

| Details                           |            |
|-----------------------------------|------------|
| RV 10.5001, Ident. No. 0003902700 |            |
| Power                             | 24 V / 6 W |
| Connection diameter               | 10 mm      |
| Integrated fine adjustment        | yes        |
| Weight                            | 0.142 kg   |

**RV 10.5002 FILTER**

To prevent contamination of the water pipes. With removable filter for easy cleaning.  
*Accessory recommended for tap water connection.*

| Details                           |             |
|-----------------------------------|-------------|
| RV 10.5002, Ident. No. 0003903800 |             |
| Mesh thickness                    | 100 µm      |
| Connection diameter               | 10 mm       |
| Pressure                          | max. 11 bar |



**RV 10.5003 PRESSURE REGULATING VALVE**

For adjusting the cooling water pressure when connecting to a tap water system.  
*Accessory recommended for tap water connection.*

| Details                           |                   |
|-----------------------------------|-------------------|
| RV 10.5003, Ident. No. 0003907100 |                   |
| Mesh thickness                    | 100 µm            |
| Pressure                          | max. input 25 bar |

# Accessories

/// Rotary Evaporators



**MVP 10 BASIC**  
For dry, oil-free applications in the low vacuum range.

| Details                             |                        |
|-------------------------------------|------------------------|
| MVP 10 basic, Ident. No. 0003980001 |                        |
| Cylinder                            | 2                      |
| Flow rate                           | 28 l / min             |
| Ultimate vacuum                     | 7 mbar                 |
| Pumping speed                       | 1,8 m³/h               |
| Operating pressure                  | 1 bar                  |
| Weight                              | 11.5 kg                |
| Dimensions                          | 245 x 320 x 155 mm     |
| Permissible ambient temperature     | +10 to +40 °C          |
| Motor protection                    | IP 54                  |
| Voltage / Frequency                 | 220 – 240 V / 50/60 Hz |

Y connector + 1m vacuum tube is included in the scope of delivery.



**RC 2 BASIC | CONTROL**  
Refrigerated circulator designed for precise temperature control and cooling.

| Details                                                                  |                    |
|--------------------------------------------------------------------------|--------------------|
| RC 2 basic, Ident. No. 0004171001<br>RC 2 control, Ident. No. 0004173001 |                    |
| Temperature range                                                        | - 20 °C to RT      |
| Temperature display                                                      | LED   TFT          |
| Temperature stability DIN 12876                                          | ± 0.1 K   ± 0.05 K |
| Cooling capacity at +20 °C                                               | 400 W              |
| Dimensions                                                               | 220 x 475 x 525 mm |
| Permissible ambient temperature                                          | +5 to +32 °C       |
| Motor protection                                                         | IP 21              |
| Voltage / Frequency                                                      | 115 V / 50/60 Hz   |



**VC 10**

- › manual and program mode
- › cleaning function for long valve lifecycles
- › ceramic pressure sensor with outstanding resistance to chemicals
- › programmable function for up to 10 scenarios
- › An integrated ventilation valve enables simple pressure equalization and aeration with inert gas on process completion. In addition, the VENT short key button allows pressure equalization during an operation run.

Ident. No. 0020005132

Y connector + 1m vacuum tube is included in the scope of delivery.

**VC 10 VACUUM CONTROLLER**  
Universal vacuum controller for multiple vacuum sources.

| Details                      |                                         |
|------------------------------|-----------------------------------------|
| VC 10, Ident. No. 0020005132 |                                         |
| Vacuum sensor                | Ceramic, Al <sub>2</sub> O <sub>3</sub> |
| Measuring range              | 1 – 1,100 mbar                          |
| Measuring accuracy           | ± 1 mbar                                |
| Hose connections             | ID 8 mm                                 |
| Housing material             | Plastic                                 |
| Dimensions (W x H x D)       | 95 x 110 x 150 mm                       |
| Interface                    | USB + RS 232                            |
| Mains voltage                | 100 – 240 V                             |



**VCV 1 vacuum control valve manual**

› Allows for adjusting the set vacuum value on the manual manometer.

Ident. No. 0020004850



**VCV 2 vacuum control valve digital**

› Allows for adjusting the set vacuum value on the digital manometer.

Ident. No. 0020004893

**VSS 1 vacuum safety set**

› The Woulff bottle is a condensate trap connected ahead of the vacuum pump to prevent vapors from being released into the air.

Ident. No. 0020005194



VSS 1 stand and glassware

**N 920 SPEED CONTROL PUMP**

Allows high suction speed even in the low-vacuum range.

|                                                                         |                       |
|-------------------------------------------------------------------------|-----------------------|
| <b>Details</b><br>N 920*, Ident. No. 0003919100   Ident. No. 0004406000 |                       |
| Max. flow rate                                                          | 20 l / min            |
| Ultimate vacuum                                                         | 2 mbar                |
| Operating pressure                                                      | 0.5 bar               |
| Connectors for tube                                                     | ID 9 mm               |
| Permissible ambient temperature                                         | +5 to +40 °C          |
| Dimensions (W × D × H)                                                  | 324 × 158 × 226 mm    |
| Weight                                                                  | 8.6 kg                |
| Motor protection                                                        | IP 20                 |
| Voltage / Frequency                                                     | 90 – 230 V / 50/60 Hz |



\* Additional external vacuum controller required. |  
For use with RV 8, RV 10 basic, digital and control.

# RV 8 V complete solution

/// Entry-level system



INCLUDES  
RC 2 BASIC,  
MVP 10 AND RV 8

- RV 8 V complete solution**
- › RV 8 V rotary evaporator
  - › RC 2 basic chiller
  - › MVP 10 basic vacuum pump
  - › VCV 1 vacuum controller
  - › H.SI.8 tube
  - › RV 10.8001 seal

Ident. No. 0010002695



## BENEFITS

- › the entry level rotary evaporator from IKA
- › with manual, effortless lifting mechanism and locking function
- › compatible with the complete range of IKA glassware
- › universal water / oil heating bath
- › digital displays for rotation and speed and heating bath temperature

## INCLUDED IN PACKAGE

/// RC 2 basic chiller + MVP 10 basic vacuum pump + VCV 1 vacuum controller + H.SI.8 tube + 2 x RV 10.8001 seal



# RV 10 control auto solution

/// Package offer

HIGH PERFORMANCE SOLUTION!

**INCLUDED IN PACKAGE**  
/// RC 2 basic chiller +  
H.PUR.8.R hose



**High performance** vertical cooling condenser (different options available).



**Two digital displays** for an optimal overview.



Heating bath can be used separately, ergonomic carrying handles on heating bath.



Adjustable **safety stop**.

SAFE ENERGY WITH  
STANDBY-MODE IF NO  
DESTILLATION IS RUNNING!

- RV 10 control auto solution\***
- > RV 10 control auto rotary evaporator
  - > RC 2 basic chiller
  - > H.PUR.8.R hose

Ident. No. 0010001527



\*Package is also available without chiller and hose.

# RVs with dry ice condenser

/// For low-boiling solvents

Use the dry ice condenser for distilling low-boiling solvents. The solvent to be distilled can be continuously fed in through the PTFE inlet tube. The cooling takes place by using dry ice; no cooling water is required. Thanks to low temperatures, maximum condensation is achieved.



**RV 8 with dry ice condenser**  
› RV 8 rotary evaporator  
+ HB 10 heating bath  
+ RV 10.4 dry ice condenser

Ident-Nr. 0010002183  
**\$ 3,351.00**



**RV 10 basic with dry ice condenser**  
› RV 10 basic rotary evaporator  
+ HB 10 heating bath  
+ RV 10.4 dry ice condenser

Ident-Nr. 0008031001  
**\$ 3,424.00**

**RV 10 basic with dry ice condenser coated**  
› RV 10 basic rotary evaporator  
+ HB 10 heating bath  
+ RV 10.4 dry ice condenser, coated

Ident-Nr. 0008032301  
**\$ 3,974.00**



**RV 10 digital with  
dry ice condenser**  
› RV 10 digital rotary evaporator  
+ HB 10 heating bath  
+ RV 10.4 dry ice condenser

Ident-Nr. 0008031101  
**\$ 4,599.00**

**RV 10 digital with  
dry ice condenser coated**  
› RV 10 digital rotary evaporator  
+ HB 10 heating bath  
+ RV 10.4 dry ice condenser, coated

Ident-Nr. 0008031901  
**\$ 4,841.00**



**RV 10 control with  
dry ice condenser**  
› RV 10 control rotary evaporator  
+ HB 10 heating bath  
+ RV 10.4 dry ice condenser

Ident-Nr. 0008031201  
**\$ 5,934.00**

**RV 10 control with  
dry ice condenser coated**  
› RV 10 control rotary evaporator  
+ HB 10 heating bath  
+ RV 10.4 dry ice condenser, coated

Ident-Nr. 0008032001  
**\$ 6,053.00**

# FLEX-ibility with the IKA RV FLEX packages

/// FLEX packages

The IKA FLEX packages enable the FLEX-ibility of customizing the glassware setup for specific applications.



**Step 1**  
Choose your FLEX base model.



**Step 2**  
Select individual glassware:  
› condenser  
› evaporation flask  
› receiving flask



**Step 3**  
Configured RV 8 FLEX Package with selected glassware.

- RV 8 FLEX package**
- › RV 8 drive
  - › HB 10 heating bath
  - › clamps for glassware, incl. Woulff bottle.

Ident. No. 0010002178

- RV 10 digital FLEX package**
- › RV 10 digital drive
  - › HB 10 heating bath
  - › clamps for glassware, incl. Woulff bottle.

Ident. No. 0008023601

- RV 10 control FLEX package**
- › RV 10 control drive
  - › HB 10 heating bath
  - › clamps for glassware, incl. Woulff bottle.
  - › RV 10.4002 magnetic valve

Ident. No. 0008031801

- RV 10 control FLEX auto package**
- › RV 10 control drive
  - › HB 10 heating bath
  - › clamps for glassware, incl. Woulff bottle.
  - › N 920 speed controlled pump

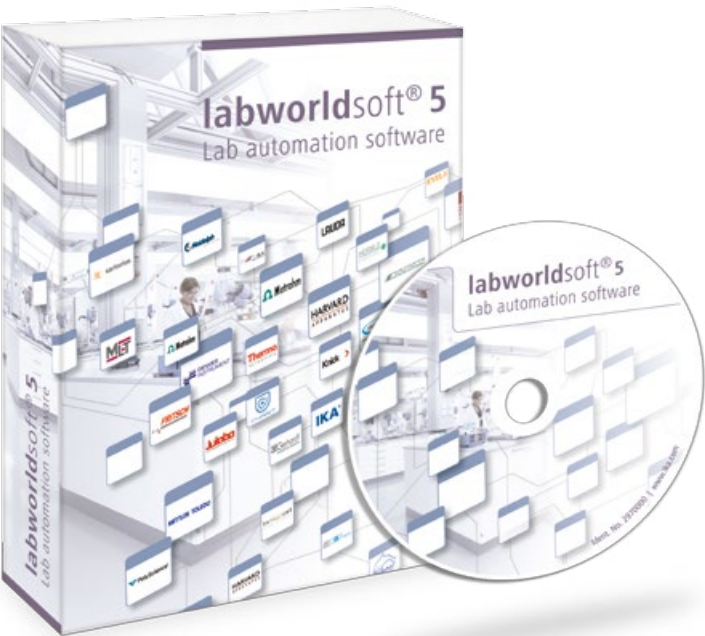
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Ident. No. 0004720000

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/// labworldsoft® software, Ident. No. 0004720000

Pentium processor with at least 16 MB RAM, 8 MB free hard disc memory, VGA-Display: monochrome with at least 16 levels of gray or color, Windows 95/98/2000/NT/ME/XP/7 and com ports can be upgraded for certain requirements.

# Service

/// FAQ

- What minimum vacuum can be reached with the RV 10 system (with coated glassware)?**  
If all vacuum connections are sealed vacuum tight and the vacuum system is strong enough, down to 1 mBar.
- Is it better to use a vertical or a diagonal condenser?**  
It does not matter for the application. Both condensers have the same cooling surface and power.
- What is the diameter of the hose to refill the evaporating flask with medium in the RV 10 system and what is it made of?**  
The hose has a diameter of 5 mm and is made of PTFE (Teflon).
- Is there a warning system when the heating bath HB 10 is still hot?**  
Yes. The message "HOT" will be blinking for as long as the water bath temperature exceeds +60 C.
- Is it possible to move the heating bath HB 10 in the RV 10 system?**  
Yes, it can be moved 50 mm horizontally and can also be used as a stand-alone unit.
- Which rotary evaporator system is the right one for my application?**  
**What accessories are needed?**  
On [www.ika.com](http://www.ika.com) you can use the RV 10 configurator that guides you through the process of choosing the appropriate system for your application needs.
- Can I perform a continuous distillation with IKA rotary evaporator system and 3 l flask?**  
Yes, even with a 3 liter receiving flask you can do a continuous distillation. Simply use the PTFE tube that comes with the glassware. Use this by opening up the vacuum shut-off valve to refill while under vacuum. The loss of vacuum pressure is little and will be stabilized by the vacuum pump.
- Is it necessary to measure vapor temperature inside the flask?**  
No, IKA rotary evaporators are controlled by measuring the temperature of the cooling water flow.
- I work with samples that foam easily. How can I prevent foaming over into the cooling coil?**  
Simply use our foam brake/bump trap listed under our accessories. It stops foam from entering the cooling coil or receiving flask.

## APPLICATION SUPPORT

For questions regarding applications and processes, you can call our free hotline number:  
**+1 800 733 3037**  
eMail: [usa@ika.net](mailto:usa@ika.net)

Monday – Friday from 8:00–05:00pm EST

## Customizing Center

/// [www.ika.com/customizingcenter](http://www.ika.com/customizingcenter)

It is important that IKA products perform in real laboratory applications. We have a special program of product solutions that are customized to your individual needs. If you cannot find the right device in our standard product range, please send us the details of the specification you need using the online form. Our team will check the feasibility of the specification and offer you a solution.

Please visit [www.ika.com/customizingcenter](http://www.ika.com/customizingcenter) to have look at the product modification requests that we have already implemented.

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/// Rotary evaporators

If you are interested in our rotary evaporators and would like to try it for your application, please contact us at [sales@ika.net](mailto:sales@ika.net) for a free one week trial. We look forward to hearing from you.

## Worldwide service network

/// Direct contacts in your region

Our dedicated team of engineers provides comprehensive technical service on a global level. If you have any questions, please do not hesitate to contact IKA directly. Alternatively, you can get in touch with your dealer.

IKA guarantees that spare parts will be available for 10 years. In the event of any faults with a device, or if you have any technical questions regarding our products, their maintenance or replacement parts, please call us at **+1 910 452 7059**, dial for "Technical Service" or send an eMail to [service@ika.net](mailto:service@ika.net).

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All prices exclude VAT.

IKA reserves the right to modify products,  
part numbers, and pricing.

Drive: Protection class according to DIN EN 60529: IP 20

Heating bath: Protection class according to DIN EN 60529: IP 21