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.

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

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Find out more about IKA and order our fascinating products online: www.ika.com.
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.

BEST-IN-CLASS
COOLING SURFACE
1,500 CM²

COMPATIBLE WITH THE COMPLETE RANGE
OF IKA RV 10 GLASSWARE.

Two digital displays
for an optimal overview.

Advanced heating bath HB 10 included in delivery.

Push-out function.

Adjustable immersion angle and height.

Can be moved by 130 mm
to accommodate different flasks.

PERFORMANCE
| RV 8 V | Ident. No. 0010002171 | RV 8 V-C | Ident. No. 0010002173 | RV 8 FLEX | Ident. No. 0010002166 |
| --- | --- | --- | --- | --- |
| RV 8 V | with heating bath HB 10 and RV 10.1 set of glassware, vertikal |
| RV 8 V-C | with heating bath HB 10 and RV 10.10 set of glassware, vertikal, coated |
| RV 8 FLEX | with heating bath HB 10 and Woulff bottle |
RV 8
/// RV 8 in detail

OVERVIEW OF COMPONENTS

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

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 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. 0008040300
- RV 10 digital V-C, Ident. No. 0008040400
- RV 10 digital FLEX, Ident. No. 0008040500
- RV 10 digital V with heating bath HB 10 and RV 10.1 set of glassware, vertical
- RV 10 digital V-C with heating bath HB 10 and RV 10.10 set of glassware, vertical, coated
- RV 10 digital FLEX with heating bath HB 10, incl. Woulff bottle
**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 can be moved by lift to accommodate different flasks
7. Motorized height-adjustable lift; lift raised automatically in case of power outage
8. Choice of angle
9. Vapor tube held in plastic sleeves
to prevent sticking
10. Solvent resistant PTFE seal for long-term use
11. 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.

**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

**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.**

**BEST-IN-CLASS COOLING SURFACE 1,500 CM²**
RV 10 control packages

/// Best price offers

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

+ RV 10 control
+ RV 10.4002 magnetic valve

Ident. No. 000837700

RV 10 control auto for stand alone operation
- RV 10 control
- N 920 speed controlled pump

Ident. No. 000837900

RV 10 control V package
- RV 10 control V
- HB 10 heating bath
- RV 10.1 set of glassware, vertical

Ident. No. 000837700

RV 10 control V-C package
- RV 10 control V-C
- HB 10 heating bath
- RV 10.10 set of glassware, vertical, coated

Ident. No. 000837900

RV 10 control V auto package
- RV 10 control V auto
- HB 10 heating bath
- N 920 speed controlled pump
- RV 10.1 set of glassware, vertical

Ident. No. 000837800

RV 10 control V-C auto package
- RV 10 control V-C auto
- HB 10 heating bath
- N 920 speed controlled pump
- RV 10.10 set of glassware, vertical, coated

Ident. No. 000838000

RV 10 control FLEX package
- RV 10 control FLEX
- HB 10 heating bath
- Woulff bottle

Ident. No. 000838100

RV 10 control FLEX package
- RV 10 control FLEX
- HB 10 heating bath
- Woulff bottle

Ident. No. 000838200

Please visit www.ika.com/distilling

Rotary Evaporators

Identification No. 0008037700

Identification No. 0008037900

Identification No. 0008038100

Identification No. 0008038200

Identification No. 0008038000

Identification No. 0008038000

Identification No. 000838100

Identification No. 000838200

Required water and vacuum hoses are included in the package.
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.

**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.

**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

**AUTOMATIC BOILING POINT DETECTION**
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.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Specification</th>
<th>HB 10 HEATING BATH: FOR A LOW VOLUME AND FAST HEAT-UP TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heat output</td>
<td>1,300 W</td>
</tr>
<tr>
<td>Temperature range</td>
<td>RT to +180 °C</td>
</tr>
<tr>
<td>Setting tolerance</td>
<td>± 1 K</td>
</tr>
<tr>
<td>Dimensions (W × D × H)</td>
<td>290 × 190 × 265 mm</td>
</tr>
<tr>
<td>Temperature display</td>
<td>digital</td>
</tr>
</tbody>
</table>

**Volume**

- 3 l

**Safety class acc. to DIN 12877**

- 21

**Adjustable safety circuit range**

- 52 °C to 180 °C

**Material**

- stainless steel 1.4301

**Weight**

- 3 kg

**Dimensions**

- 290 × 190 × 265 mm

**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
As the vapor condenses, condensate drops into the receiving flask.

Vapor reaches the condenser and fills any space and gap between the cooling coils.

A refill tube option is included with every glassware set.

The evaporating flask get push-out from the vapor tube connection, if you turn it down.

ADVANCED TECHNOLOGY
3 LAYERS FOR ALL IKA ROTARY EVAPORATORS

Step 1
Bring the clamp up.

Step 2
Pull the clamping ring.

Step 3
Turn ring.

Step 4
Push-out function to loosen the glassware.
## Technical data

### Rotary Evaporators

### Rotary Evaporators

#### TECHNICAL DATA

<table>
<thead>
<tr>
<th>RV 8</th>
<th>RV 10 digital</th>
<th>RV 10 control</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Packages:</strong></td>
<td><strong>RV 8 V</strong></td>
<td><strong>RV 10 digital V</strong></td>
</tr>
<tr>
<td><strong>RV 8 V-C</strong></td>
<td><strong>RV 10 digital V-C</strong></td>
<td><strong>RV 10 control V-C</strong></td>
</tr>
<tr>
<td><strong>RV 8 FLEX</strong></td>
<td><strong>RV 10 digital FLEX</strong></td>
<td><strong>RV 10 control FLEX</strong></td>
</tr>
</tbody>
</table>

#### Cooler type

<table>
<thead>
<tr>
<th>RV 8</th>
<th>RV 10 digital</th>
<th>RV 10 control</th>
</tr>
</thead>
<tbody>
<tr>
<td>V = vertical</td>
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<td>V = vertical</td>
</tr>
<tr>
<td>V–C = vertical-coated</td>
<td>V–C = vertical-coated</td>
<td>V–C = vertical-coated</td>
</tr>
</tbody>
</table>

#### Cooling surface

<table>
<thead>
<tr>
<th>RV 8</th>
<th>RV 10 digital</th>
<th>RV 10 control</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,500 cm²</td>
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<td>1,500 cm²</td>
</tr>
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</table>

### GENERAL DATA

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<thead>
<tr>
<th>RV 8</th>
<th>RV 10 digital</th>
<th>RV 10 control</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drive:</strong></td>
<td><strong>V</strong></td>
<td><strong>RV 10 digital V</strong></td>
</tr>
<tr>
<td><strong>V–C</strong></td>
<td><strong>RV 10 digital V–C</strong></td>
<td><strong>RV 10 control V–C</strong></td>
</tr>
<tr>
<td><strong>FLEX</strong></td>
<td><strong>RV 10 digital FLEX</strong></td>
<td><strong>RV 10 control FLEX</strong></td>
</tr>
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</table>

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<td>1,500 cm²</td>
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</table>

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

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* 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.

---

V: Rotary evaporator with set of vertical glassware.

V–C: Rotary evaporator with set of vertical-coated glassware.

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<tr>
<th>RV 8</th>
<th>RV 10 digital</th>
<th>RV 10 control</th>
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</thead>
<tbody>
<tr>
<td><strong>RV 8 V package</strong></td>
<td><strong>000803800</strong></td>
<td><strong>000803790</strong></td>
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<tr>
<td><strong>RV 8 V-C package</strong></td>
<td><strong>000803801</strong></td>
<td><strong>000803791</strong></td>
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<tr>
<td><strong>RV 8 FLEX package</strong></td>
<td><strong>000803802</strong></td>
<td><strong>000803792</strong></td>
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<table>
<thead>
<tr>
<th>RV 10 digital</th>
<th>RV 10 control</th>
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<tr>
<td><strong>RV 10 digital V package</strong></td>
<td><strong>000803803</strong></td>
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<tr>
<td><strong>RV 10 digital V-C package</strong></td>
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<tr>
<td><strong>RV 10 digital FLEX package</strong></td>
<td><strong>000803805</strong></td>
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</table>

<table>
<thead>
<tr>
<th>RV 10 control</th>
</tr>
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<tbody>
<tr>
<td><strong>RV 10 control V package</strong></td>
</tr>
<tr>
<td><strong>RV 10 control V-C package</strong></td>
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<tr>
<td><strong>RV 10 control FLEX package</strong></td>
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<tbody>
<tr>
<td><strong>RV 8 V package</strong></td>
<td><strong>000804030</strong></td>
<td><strong>000804030</strong></td>
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<tr>
<td><strong>RV 8 V-C package</strong></td>
<td><strong>000804040</strong></td>
<td><strong>000804040</strong></td>
</tr>
<tr>
<td><strong>RV 8 FLEX package</strong></td>
<td><strong>000804050</strong></td>
<td><strong>000804050</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>RV 10 digital</th>
<th>RV 10 control</th>
</tr>
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<tbody>
<tr>
<td><strong>RV 10 digital V package</strong></td>
<td><strong>000804031</strong></td>
</tr>
<tr>
<td><strong>RV 10 digital V-C package</strong></td>
<td><strong>000804032</strong></td>
</tr>
<tr>
<td><strong>RV 10 digital FLEX package</strong></td>
<td><strong>000804033</strong></td>
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<th>RV 10 control</th>
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<tbody>
<tr>
<td><strong>RV 10 control V package</strong></td>
<td><strong>000803780</strong></td>
<td><strong>000803780</strong></td>
</tr>
<tr>
<td><strong>RV 10 control V-C package</strong></td>
<td><strong>000803790</strong></td>
<td><strong>000803790</strong></td>
</tr>
<tr>
<td><strong>RV 10 control FLEX package</strong></td>
<td><strong>000803800</strong></td>
<td><strong>000803800</strong></td>
</tr>
</tbody>
</table>

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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.
**Accessories**

---

1. **RV 10.1 SET OF GLASSWARE, VERTICAL**
   - Compact vertical condenser for all standard distillations. Glassware included in all packages, except FLEX.
   - Details: RV 10.1, Ident. No. 0003655300

2. **RV 10.2 SET OF GLASSWARE, DIAGONAL**
   - Diagonal condenser for all standard distillations.
   - Details: RV 10.2, Ident. No. 0003755300

3. **RV 10.3 VERTICAL-INTENSIVE CONDENSER WITH MANIFOLD**
   - Vertical-intensive condenser with double jacket and manifold for particularly efficient condensation.

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.

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 10.74 Vapor Tube Short.
   - Details: RV 10.5, Ident. No. 0003743000, RV 10.50 coated, Ident. No. 0003743100

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 10.74 Vapor Tube Short.
   - Details: RV 10.6, Ident. No. 0003744000, RV 10.60 coated, Ident. No. 0003744100

7. **RV 10.70 VAPOR TUBE NS 29/32**
   - Made of high-quality borosilicate glass. For all glassware included with each RV 10 package.
   - Details: RV 10.70, Ident. No. 0003812300

8. **RV 10.74 VAPOR TUBE SHORT NS 29/32**
   - Made of high-quality borosilicate glass. For vertical condensers RV 10.5 and RV 10.6.
   - Details: RV 10.74, Ident. No. 0003971700
Rotary Evaporators

1. HB 10.1 SHIELD FOR HEATING BATH HB 10
   - Details: HB 10.1, ident. No. 0003641900
     - Material: polycarbonate

2. HB 10.2 PROTECTION COVER FOR HEATING BATH HB 10
   - Details: HB 10.2, ident. No. 0003641000
     - Material: polycarbonate

3. POWDER FLASKS NS 29/32
   - Details: RV 10.302, 2,000 ml, ident. No. 0003738400
     - Material: borosilicate glass
   - Details: RV 10.301, 1,000 ml, ident. No. 0003738300
     - Material: borosilicate glass
   - Details: RV 10.300, 500 ml, ident. No. 0003738200
     - Material: borosilicate glass

4. EVAPORATION CYLINDER NS 29/32
   - Details: RV 10.401, 1,500 ml, ident. No. 0003738900
     - Material: borosilicate glass
   - Details: RV 10.400, 500 ml, ident. No. 0003738800
     - Material: borosilicate glass

5. RV 10.500 FOAM BRAKE NS 29/32
   - Details: RV 10.500 FOAM BRAKE NS 29/32
     - Material: polycarbonate

6. RV 10.3000 EXTENSION PLATE
   - Details: RV 10.3000, ident. No. 0003859000
     - Material: borosilicate glass

7. DISTILLING SPIDER WITH 5 FLASKS NS 29/32
   - Details: RV 10.600, 50 ml, ident. No. 0003748900
     - Material: polycarbonate
   - Details: RV 10.601, 100 ml, ident. No. 0003749000
     - Material: polycarbonate
   - Details: RV 10.602, 200 ml, ident. No. 0003749100
     - Material: polycarbonate
   - Details: RV 10.603, 500 ml, ident. No. 0003749200
     - Material: polycarbonate
   - Details: RV 10.604, 1,000 ml, ident. No. 0003749300
     - Material: polycarbonate

8. EVAPORATION FLASKS NS 29/32
   - RV 10.800 coated, 50 ml, ident. No. 0020005330*
   - RV 10.810 coated, 100 ml, ident. No. 0020005331*
   - RV 10.820 coated, 250 ml, ident. No. 0020005332*
   - RV 10.830 coated, 500 ml, ident. No. 0020005333*
   - RV 10.840 coated, 1,000 ml, ident. No. 0020005334*
   - RV 10.850 coated, 2,000 ml, ident. No. 0020005335*
   - RV 10.860 coated, 3,000 ml, ident. No. 0020005336*
   - RV 10.800, 50 ml, ident. No. 0003740100
   - RV 10.810, 100 ml, ident. No. 0003740200
   - RV 10.820, 250 ml, ident. No. 0003740300
   - RV 10.830, 500 ml, ident. No. 0003740400
   - RV 10.840, 1,000 ml, ident. No. 0003740500
   - RV 10.850, 2,000 ml, ident. No. 0003740600
   - RV 10.860, 3,000 ml, ident. No. 0003740700

9. RECEIVING FLASK KS 35/20
   - RV 8.2 stand pole, ident. No 0025004707
   - RV 8.3 stand pole, ident. No 0025005107
   - RV 8.1 support pole, ident. No 0004438500
   - RV 8.104, 1,000 ml, ident. No. 0003742500
   - RV 8.103, 1,000 ml, ident. No. 0003742400
   - RV 8.102, 500 ml, ident. No. 0003742300
   - RV 8.101, 250 ml, ident. No. 0003742200

10. DISTILLING SLEEVES NS 29/32
    - Details: RV 10.5005 hose kit, ident. No. 0020000552
    - RV 10.607, 100 ml, ident. No. 0003919400

11. RV 10.8001 SEAL
    - Details: RV 10.8001, ident. No. 0003900700
     - Material: PTFE, stainless steel

12. OTHER ACCESSORIES
    - Details: RV 8.204, 4 distilling sleeves, ident. No. 0003796200
    - RV 8.203, 12 distilling sleeves, ident. No. 0003796300
    - RV 8.202, 20 distilling sleeves, ident. No. 0003796400
    - RV 8.201, 40 distilling sleeves, ident. No. 0003796500

Unique to IKA

* About the coated evaporation flasks the coating could be used if the customer is working with oil and up to an temp. from +180 °C.
## Accessories

### Selection guide

<table>
<thead>
<tr>
<th>ACCESSORIES OVERVIEW</th>
<th>RV 8</th>
<th>RV 10 digtal</th>
<th>RV 10 control</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required accessories for an existing vacuum</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Magnetic valve for in-house vacuum system</td>
<td>x1</td>
<td>x2</td>
<td>RV 10.4001</td>
</tr>
<tr>
<td>Magnetic valve for laboratory vacuum system</td>
<td>x1</td>
<td>x1</td>
<td>RV 10.4002</td>
</tr>
<tr>
<td>Pump control including magnetic valve</td>
<td>x1</td>
<td>x1</td>
<td>RV 10.4003</td>
</tr>
<tr>
<td><strong>Recommended accessories for tap water (faucet) connection</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Choke water valve</td>
<td>–</td>
<td>–</td>
<td>RV 10.5001</td>
</tr>
<tr>
<td>Filter</td>
<td>–</td>
<td>–</td>
<td>RV 10.5002</td>
</tr>
<tr>
<td>Pressure regulating valve</td>
<td>RV 10.5003</td>
<td>RV 10.5003</td>
<td>RV 10.5003</td>
</tr>
<tr>
<td><strong>Supplementary vacuum system</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vacuum system</td>
<td>MVP 10 basic + VSV 1 x VCV 1</td>
<td>MVP 10 basic + VSV 1 x VCV 1</td>
<td>MVP 10 basic</td>
</tr>
<tr>
<td><strong>Additional chiller system</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>for one rotary evaporator</td>
<td>RC 2 basic</td>
<td>RC 2 basic</td>
<td>RC 2 basic</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Details</th>
<th>RV 10.4001, Ident. No. 0003604000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>24 V / 9 W</td>
</tr>
<tr>
<td>Weight</td>
<td>0.142 kg</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Details</th>
<th>RV 10.4002, Ident. No. 0003880300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>24 V / 6 W</td>
</tr>
<tr>
<td>Weight</td>
<td>0.142 kg</td>
</tr>
<tr>
<td>Integrated check valve</td>
<td>yes</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Details</th>
<th>RV 10.4003, Ident. No. 0003890100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>24 V / 6 W</td>
</tr>
<tr>
<td>Weight</td>
<td>0.142 kg</td>
</tr>
</tbody>
</table>

**RV 10.5001 CHOKE WATER VALVE**
The integrated magnetic valve closes the water circuit during automatic distillation. Accessory recommended for tap water connection.

<table>
<thead>
<tr>
<th>Details</th>
<th>RV 10.5001, Ident. No. 0003902700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>24 V / 6 W</td>
</tr>
<tr>
<td>Connection diameter</td>
<td>10 mm</td>
</tr>
<tr>
<td>Integrated fine adjustment</td>
<td>yes</td>
</tr>
<tr>
<td>Weight</td>
<td>0.142 kg</td>
</tr>
</tbody>
</table>

**RV 10.5002 FILTER**
To prevent contamination of the water pipes. With removable filter for easy cleaning. Accessory recommended for tap water connection.

<table>
<thead>
<tr>
<th>Details</th>
<th>RV 10.5002, Ident. No. 0003803800</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesh thickness</td>
<td>100 µm</td>
</tr>
<tr>
<td>Connection diameter</td>
<td>10 mm</td>
</tr>
<tr>
<td>Pressure</td>
<td>max. 11 bar</td>
</tr>
</tbody>
</table>

**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.

<table>
<thead>
<tr>
<th>Details</th>
<th>RV 10.5003, Ident. No. 0003907100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mesh thickness</td>
<td>100 µm</td>
</tr>
<tr>
<td>Pressure</td>
<td>max. input 25 bar</td>
</tr>
</tbody>
</table>
MVP 10 BASIC
For dry, oil-free applications in the low vacuum range.

**Details**
- **MVP 10 basic**, Ident. No. 0003980000
- Cylinder
- 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

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

**Details**
- **RC 2 basic**, Ident. No. 0004171000
- **RC 2 control**, Ident. No. 0004173000
- 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: 220 - 240 V / 50/60 Hz

VC 10
Universal vacuum controller for multiple vacuum sources.

**Details**
- **VC 10**, Ident. No. 0020004893
- Vacuum sensor: Ceramic, Al₂O₃
- Measuring range: 1 to 1,100 mbar
- Measuring accuracy: ± 1 mbar
- Hose connections: ID 8 mm
- Hosing material: Plastic
- Dimensions: 95 x 150 x 150 mm
- Interface: USB + RS 232
- Mains voltage: 100 – 240 V

Accessoires
/// Rotary Evaporators

---

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

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  - Vacuum sensor: Ceramic, Al₂O₃
  - Measuring range: 1 to 1,100 mbar
  - Measuring accuracy: ± 1 mbar
  - Hose connections: ID 8 mm
  - Hosing material: Plastic
  - Dimensions: 95 x 150 x 150 mm
  - Interface: USB + RS 232
  - Mains voltage: 100 – 240 V

NEW!
- 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.

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

---

Accessories
/// Rotary Evaporators

---

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Rotary Evaporators

**N 920 SPEED CONTROL PUMP**

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

<table>
<thead>
<tr>
<th>Details</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. flowrate</td>
<td>20 l / min</td>
</tr>
<tr>
<td>Ultimate vacuum</td>
<td>2 mbar</td>
</tr>
<tr>
<td>Operating pressure</td>
<td>0.5 bar</td>
</tr>
<tr>
<td>Connection for tube</td>
<td>9 mm</td>
</tr>
<tr>
<td>Permissible ambient temperature</td>
<td>+5 to +40 °C</td>
</tr>
<tr>
<td>Dimensions (W × D × H)</td>
<td>324 × 158 × 226 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>8.6 kg</td>
</tr>
<tr>
<td>Motor protection</td>
<td>IP 20</td>
</tr>
<tr>
<td>Voltage / Frequency</td>
<td>90 – 230 V / 50/60 Hz</td>
</tr>
</tbody>
</table>

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

---

**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

**VCV 2 vacuum control valve digital**

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

Ident. No. 0020004893

**VSS 1 stand and glassware**
RV 8 V complete solution
/// Entry-level system

INCLUDES
RC 2 BASIC, MVP 10 AND RV 8

 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 × RV 10.8001 seal
RV 10 control auto solution

/// Package offer

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

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.

*Package is also available without chiller and hose.

Ident. No. 0010001506

RV 10 control auto solution*

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

HIGH PERFORMANCE SOLUTION!

INCLUDED IN PACKAGE

- RC 2 basic chiller
- H.PUR.8.R hose
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. 0010002166

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

Ident. No. 0008040500

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

Ident. No. 0008038100

**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

Ident. No. 0008038200
labworldsoft® software
/// Advanced software used for lab automation

IKA’s software labworldsoft® has an innovative approach to lab automation. It enables the networking of up to 64 laboratory devices which can be controlled simultaneously via one PC. Not only IKA products, but also other manufacturers laboratory devices can be integrated using labworldsoft®.

This makes the automation of your laboratory experiments and processes much more easy and efficient.

IKA 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 1mBar.

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 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: 00 8000 4522777 (00 8000 IKAAPPS)*

E-Mail: applicationsupport@ika.de

Monday – Thursday from 8:30 – 16:30 CET
Friday from 8:30 – 15:30 CET

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labworldsoft® software, Ident. no. 000472000

Pentium processor with at least 16 MB RAM, 8 MB free hard disk memory, VGA-Display, monochrome with at least 16 levels of gray or color, Windows 98SE/2000/XP/ME/2003 and com ports can be upgraded for certain requirements.

Ident. no. 000472000

labworldsoft® software
Worldwide service network
/// Direct contacts in your region

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/// www.ika.com/applicationsupport

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eMail: info@ika.kr

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www.ika.com/distillation

/// SOCIAL MEDIA

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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