



Rotavapor® R-80 | Rotavapor® R-180

Essential, Robust, and Cost-Effective Evaporation





Streamlined Evaporation Solutions

For optimized distillation

Experience the ease of everyday evaporation with BUCHI's Rotavapor® R-80 and R-180. Compact, robust, and simple to use, these instruments offer reproducible performance, built on over 50 years of expertise in evaporation.



Simple by design

Focus on what matters

Experience simplicity in your lab with our BUCHI quality solutions.

- **Intuitive operation:** Set and adjust all parameters with ease in one place.
- **Space-saving design:** Position the instrument at an angle to save space, with the rotatable interface ensuring direct access.
- **Ergonomic functionality:** The robust Combi-Clip lets you connect flasks with one hand.



Safe and reliable

Built to last

Intelligent Swiss design ensures reliable and safe operation.

- **Overheat protection:** Automatically switches off the heating if the temperature rises too quickly.
- **Glassware with Safety Coating:** Protects both the user and the sample in case of glass breakage.
- **Cordless heating bath** that detaches with ease.
- **Careful material selection** and a high IP rating ensure a long lifetime.



Easy to adapt

Custom-fit solutions

Configure your Rotavapor® setup for high-quality results with minimal hassle.

- **Choose between Rotavapor® R-80 and R-180** based on your volume needs.
- **Vacuum Pump V-80/V-180** ensures quiet operation with minimal bumping.
- **Recirculating Chiller F-180** extends functionality and maintains stable cooling for consistent results.

V mini or C mini condenser
Combines space-saving design with outstanding performance. Condensers with Safety Coating.

Rotatable interface
Flexibly position instrument up to 90°, rotatable interface ensures direct access. Option to mount vacuum interface I-80/I-180 on top.

Smallest Rotavapor® footprint
Compact design to maximize valuable lab space.

Smooth manual lift

Supports flasks up to 1 L

Cordless bath
For easy emptying and refilling with a maximum of 95 °C.

Vacuum Pump V-80/V-180
Speed-controlled vacuum pump for quiet operation.

Rotavapor® R-80

Evaporation on the smallest footprint

Meet the Rotavapor® R-80—our most energy-efficient Rotavapor® to date and the most compact Rotavapor® on the market. Affordable, eco-friendly, and designed to optimize your laboratory space, the Rotavapor® R-80 delivers trusted BUCHI quality in a smaller footprint. It's your space, energy, and budget-saver all in one!



Smallest footprint

Optimize your lab space with the compact Rotavapor® R-80, the smallest Rotavapor® on the market. It features a user interface that can be rotated up to 90°, allowing you to position the Rotavapor® R-80 as suits you best while ensuring direct access and control over all distillation parameters. If needed, you can place the Rotavapor® R-80 alongside the Pure Essential Chromatography System in a fume hood.



The most cost-effective Rotavapor®

Why compromise when you can have the best of both worlds? The Rotavapor® R-80 comes at an affordable price while delivering BUCHI quality. We're proud to offer Swiss design and precision backed by exceptional customer support and application know-how. To further customize your Rotavapor® R-80, explore our range of vacuum pumps, glass assemblies, and cooling solutions, designed to cater to your requirements.



Reduced energy consumption

The design of the Rotavapor® R-80, with its compact heating bath, minimizes heat waste and reduces energy consumption. This not only saves you money but also contributes to a greener future. BUCHI's commitment to enhancing the sustainability of laboratory processes is certified by the ACT® Ecolabel from My Green Lab® for the Rotavapor® R-80 with V-80 and I-80, as well as for the Rotavapor® R-80 with V-180 and I-180.

Four glass assembly options

For various applications, including back feeding.

Rotatable interface

Flexibly position the instrument up to 90 degrees, as the rotatable interface ensures direct access. Option to mount vacuum interface I-80/I-180 on top.

Convenient electric lift

Automatically lifts flask out of bath in the event of a power outage.

Vacuum Pump V-80/V-180

Speed-controlled vacuum pump for quiet operation.

Supports up to 3 L flasks

Cordless bath

For easy emptying and refilling with a maximum of 95 °C. Far bath extension for high flexibility of glassware.

Recirculating Chiller F-180

Stable cooling of up to two Rotavapor®.

Rotavapor® R-180

Made for everyday evaporation

Experience reliability and simplicity throughout your daily workflow. The Rotavapor® R-180 offers robust performance, intuitive design, and essential safety features, making it a smart addition to any laboratory.



Well-suited for daily applications

The R-180 supports flasks up to 3 L and is available with four condenser options, including back-feeding, making it adaptable to a wide range of applications. To save valuable lab space, the instrument can be positioned at an angle for direct access, with the rotatable interface allowing clear visibility.



Built to last

Engineered for durability, the Rotavapor® R-180 features a reliable IP42 rating for protection against water splashes. A robust aluminum base guarantees exceptional stability, and its chemical-resistant cover ensures longevity even under harsh laboratory conditions.



Safe operation

Experience safety in the lab. The electric lift ensures smooth and precise height adjustments, automatically lifting the flask in the event of a power outage to protect your samples. Additionally, the glassware with Safety Coating prevents sample loss in case of accidental breakage.



Enhancing Your Applications

Rotary evaporation adapted to your needs

BUCHI is more than just a manufacturer of rotary evaporators; it provides complete, integrated solutions. From high-quality Rotavapors® and vacuum pumps to Recirculating Chillers and comprehensive accessories, discover everything you need for seamless evaporation.



Simple and precise control

The **Interface I-80/I-180** offers intuitive and efficient vacuum regulation. Mount it directly on the Rotavapor® R-80/R-180 to have a single central control unit or attach it to the Vacuum Pump V-80/V-180 or a lab stand.



Quiet vacuum source




The **Vacuum Pump V-80/V-180** provides a chemically resistant, speed-controlled vacuum solution in a compact form. Near-silent operation and reduced bumping simplify your daily evaporation tasks.






Compact and eco-conscious




The **Recirculating Chiller F-180** provides stable cooling with natural refrigerants (GWP*3), supports up to two Rotavapor®'s with efficient cooling, and features front-fill access. The Vacuum Pump (V-80/V-180) can be placed on top, and the secondary condenser mounted on the side to further save space.

*Global Warming Potential.

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| |  |  |  |
| Rotavapor® | R-80 | R-180 | R-300 |
| Max. flask size | 1 L | 3 L | 5 L |
| Lift type | Manual | Electric | Electric |
| Automatic lift-up in case of power failure | - | • | • |
| Cordless Bath | • | • | • |
| Max. heating bath temperature | 95 °C | 95 °C | 220 °C |
| Glass assemblies | V mini, C mini | V, C, S, A | V, C, A, BF, CR, S, E, HP, Soxhlet |
| Rotatable interface | • | • | - |
| Eco mode (to save power after inactivity) | Turns bath and cooling off after 15 min. | Turns bath and cooling off after 15 min. | Reduces heating and cooling (customizable). |

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| |  |  |  |
| Vacuum Pumps | V-80 | V-180 | V-300 |
| Final vacuum | 15 mbar | 10 mbar | 5 mbar |
| Pump capacity | 1.3 m³/h | 1.5 m³/h | 1.8 m³/h |
| Carrying handle | - | • | • |
| Speed control (with interface) | • | • | • |

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| |  |  |  |
| Vacuum Interfaces | I-80 | I-180 | I-300 Pro |
| Display type | 3" Segment display | 3" Segment display | 7" Touchscreen |
| Vacuum control | Pump speed and needle valve. | • Set pressure. • Continuous pump mode. | • Set pressure. • Continuous pump mode. • Automatic (AutoDest). |
| Leak test | - | • | • |
| Solvent Library | - | - | • |
| Installation | • Rotavapor® R-80/R-180 • Vacuum Pump V-80/V-180 • Laboratory stand | • Rotavapor® R-80/R-180 • Vacuum Pump V-80/V-180 • Laboratory stand | • Rotavapor® R-300 • Vacuum Pump V-300 • Laboratory stand |

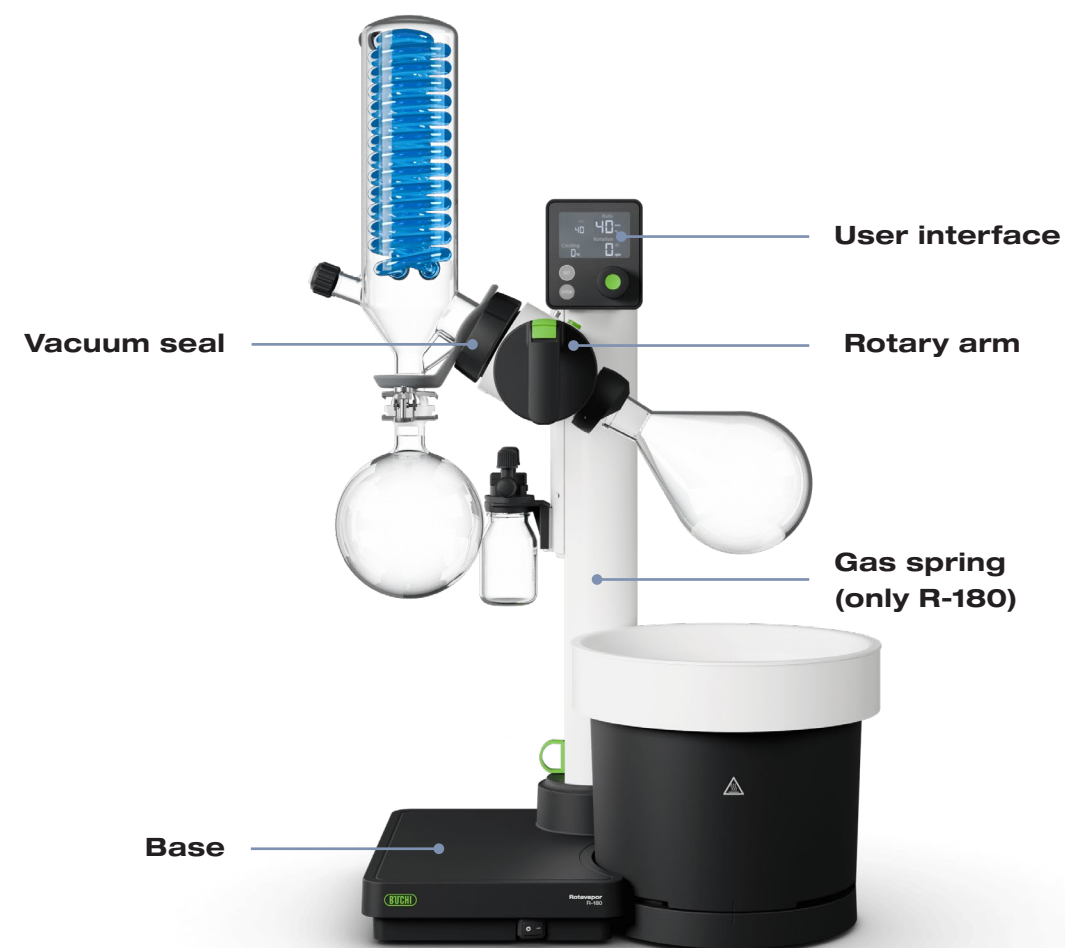
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|--|---|---|---|
| |  |  |  |
| Recirculating Chiller | F-180 | F-305 | F-308 |
| Cooling capacity at 15 °C: | 550 W | 550 W | 900 W |
| Cooling range | 0–25 °C | -10–25 °C | -10–25 °C |
| Refrigerant | R290 (Propane) | R513a | R513a |
| Temperature setting and display | Only via Rotavapor | • | • |

Do It Yourself Concept

Easy to install, simple to maintain

The Rotavapor® R-80 and R-180 have been designed for easy installation and effortless maintenance. For a fast and safe setup, simply follow our step-by-step video guides. If additional assistance is needed, our available service packages offer expert support.

Our DIY concept empowers you to perform routine maintenance and repairs yourself, significantly reducing costs and downtime. For each component highlighted below, a corresponding repair kit is available. Every repair procedure is clearly explained in the step-by-step video guides, so you can resume your distillation processes with minimal interruption.



R-80 Installation & Service Webpage:

www.buchi.com/r-80/installation



R-180 Installation & Service Webpage:

www.buchi.com/r-180/installation



Service & Training

BUCHI service packages

Support at Every Step

Should you ever require assistance, our comprehensive service packages are readily available. Our service offerings include regular maintenance checks, preventive care, and timely part replacements, ensuring your Rotavapor® remains in optimal condition for years to come.

START Install DIY Rotavapor® R-80/R-180

Remotely supported installation.

- DIY installation with up to 2 h of professional remote support.

START Maintain DIY Rotavapor® R-80/R-180

Extended warranty plus Do-it-Yourself preventative maintenance service.

- One year warranty extension.
- One DIY preventative maintenance parts kit.
- Wear parts specific to the instrument.
- Instructions included to perform the PM yourself.
- Only available for purchase at the point-of-sale.

CARE Maintain DIY Rotavapor® R-80/R-180

Do-it-Yourself preventative maintenance service. This service includes:

- One DIY preventative maintenance parts kit.
- Contains wear parts specific to the instrument.
- Instructions included to perform the PM yourself.

START RemoteSupport

4 hours of professional remote support.

CARE RemoteSupport

10 hours of professional remote support.

Synthesis

Research & development workflow

Concentration

Separation

Drying

Analysis

Synthesis

Evaporation

Flash Chromatography

Freeze Drying

Melting Point



Rotavapor®



Rotavapor®



Pure Essential Chromatography System



Lyovapor™



Melting Point

Application

Chemical research often starts with the synthesis of a target molecule. Reflux synthesis can be performed with a rotary evaporator.

Synthesis uses large amounts of solvent, so a concentration step is needed before downstream processing. Rotary evaporation gently removes the solvent and concentrates the target compound.

The concentrated synthesis mixture gets separated via flash chromatography. This pre-purification step allows to purify large sample quantities at decent resolution.

Following the separation process, molecules of interest are highly diluted and must be concentrated before proceeding with the next steps. Freeze drying can be used to remove solvent from heat-sensitive products with minimal damage.

Melting point analysis can be used to perform quality control on the compound of interest. Determination of the novel compound's melting and boiling points serves as a useful indicator of the material's purity.

Features

Reflux condenser for reflux synthesis.

- Evaporation of a single sample with an evaporating flask size of 50 to 5000 mL.
- Drying mode to load compound onto silica for flash chromatography.
- Dewar accessory for freeze-drying sample preparation.

- Modular design enables a wide range of expansion options.
- 50 bar pump for full flexibility in terms of particle size from small to big.
- Pure racks for direct flask transfer between Rotavapor®, Pure and Lyovapor™.

- High-quality freeze drying of aqueous samples (-55 °C, 6 kg).
- An easy way to control and monitor the freeze-drying process.
- Lyovapor™ manifold racks to transfer your samples in flasks from your Rotavapor® or Pure Essential System.

- Observation of the melting process through a magnifying lens.
- Parallel measurement of up to 3 samples.

Core messages to our customers

BUCHI creates added value

“Quality in your hands” is the guiding principle that shapes our philosophy and our actions. It challenges us to provide outstanding services that are precisely tailored to your needs. This means that we must stay in close contact with our customers. That is why we keep in touch and continue to work very hard to understand you and your business even better.

We help you by providing high-quality products, systems, solutions, applications and services that offer you added value. This allows you to focus entirely on your processes and your work.



Competent

We have the technological expertise and decades of experience needed to provide competent support and work with you to continually improve our services.



Reliable

We guarantee the quality and functionality of our equipment and will continue to help you quickly and efficiently whenever something does not operate to your satisfaction.



Safe

By collaborating closely with you, we do everything in our power to make our products, systems, solutions, applications and services as safe as possible for people and the environment.



Cost-effective

We strive to create a high level of economic benefit and maximum added value for you.



Global

As an international family-owned business with own subsidiaries and qualified distributors, we have a presence wherever you are located.



Easy

We support you by providing carefully designed solutions as well as instruments and systems that are easy to operate.



Sustainable

We support environmentally friendly processes and manufacture products that have a long service life. We utilize advanced technologies to leave the smallest environmental footprint possible.

We are represented by more than 100 distribution partners worldwide.
Find your local representative at:

www.buchi.com

Quality in your hands

