



Laboratory Evaporation Solutions Excellent solutions from the market leader

BUCHI offers dedicated solutions for laboratory evaporation whether you operate in R&D or quality control. Based on our experience and knowledge we offer outstanding solutions to cover a wide range of distinct needs and achieve highest efficiency.



"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.



Easy

You handle complex processes, do challenging work and want to focus on what is essential. We support you by providing carefully designed solutions as well as instruments and systems that are easy to operate.



Competent

You need products, systems, solutions, applications and services that are precisely tailored to your needs. We have the technological expertise and decades of experience needed to provide competent support and work with you to continually improve our market services.



Reliable

You want to be able to rely completely on your partner for products, systems, solutions, applications and services. 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.



Cost-effective

You want to achieve the best possible results using efficient solutions. We help you to handle your jobs and processes economically. We strive to create a high level of economic benefit and maximum added value for you.



Safe

You are working in an environment in which safety is a high priority. 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.



Global

You value personalized service and short communication channels. As an international family-owned business with our own subsidiaries and qualified distributors, we have a presence wherever our customers are located. Our local staff and the large number of satisfied customers around the world give you the assurance that you are working with the right partner.



Sustainable

You prefer a partner who acts responsibly when it comes to current environmental challenges. We support environmentally friendly processes and manufacture products that have a long service life. We utilize advanced technologies in order to conserve energy and water and leave the smallest environmental footprint possible.



Laboratory evaporation solutions Benefit from decades of experience

For more than 50 years BUCHI is known for reliable and proven evaporation solutions in a wide range of industries. Whether you operate in R&D or quality control (QC), we offer outstanding products, systems and solutions for any step in your sample preparation process.

Pharmaceutical



For various applications in QC as well as for laboratory scale formulations in R&D departments:

- · Distillation
- \cdot Concentration
- Drying

Chemical



For every day's application in QC and R&D laboratories:

- \cdot Concentration
- \cdot Reflux Reaction
- \cdot Re-crystallization
- \cdot Sublimation

Academia/Education



For a wide range of applications in academic education:

• Full range of evaporation applications

Food/Beverage



Used for QC in the food and beverage industry as well as for the development of new ingredients and components:

- \cdot Distillation
- \cdot Concentration
- · Drying

Feed



Used for QC in the feed industry as well as for the development of new ingredients and components:

- · Distillation
- · Concentration
- $\cdot \text{ Drying}$

Environmental Analysis



Required for sample preparation in order to monitor the environmental pollution:

- · Soxhlet extraction
- \cdot Concentration

Laboratory process and application solutions

Whether your application is distillation, drying, reflux reaction or others, BUCHI offers the right solution for your process. Such a solution consists of a recommended set of products, applications as well as a comprehensive service package to meet your specific needs.

Synthesis, Extraction, Sampling, Preparation









• part of the solution • O optional

Applications	Automated evaporation	Semi- automated evaporation	Evaporation for essential applications	Small samples at high temperature
Evaporation	•	٠	٠	•
Drying	٠	٠	٠	•
Concentration	٠	٠	٠	•
Sublimation				•
Reflux reaction	٠	٠		
Solvent recycling	٠			
Soxhlet extraction	•	•		
Re-crystallization	•	٠		

Characteristics

Degree of automation	High	Medium	Low	Low
Process optimized (solvent library)	٠	٠	0	•
Vacuum controlled operation	•	۰	٠	•
Process data recording	٠	0	0	0
Sample volume	up to 3 L	up to 3 L	up to 3 L	up to 40 mL
Max. temperature	< 180 °C	< 180 °C	< 95 °C	< 300 °C
Solutions by BUCHI	«Rotavapor® Automated» p. 6	«Rotavapor® Semi-Automated» p. 8	«Rotavapor® Essential» p. 10	«Glass Oven All in One» p. 12

Find detailed information at:

www.buchi.com/lab-evaporation/solutions





You have the highest expectations and want the highest level of convenience. With the «Rotavapor[®] Automated» solution we offer exceptional ease of use and full automation in order to achieve best reproducibility.



Your most important benefits

Best reproducibility

- Fully-automated with multiple functions such as: Pressure gradients, EasyVac featuring automatic evaporation based on pressure and automatic
- · Highest degree of reproducibility thanks to individualized process configuration
- · Full control of all relevant parameters

Highly efficient

- Efficient and sustainable operation with centrally controlled Recirculating Chiller and speed controlled Vacuum Pump
- \cdot Best distillation rates due to high performance condensers
- \cdot Time saving thanks to short heating up time of the bath

Convenient

- · Proven user interaction concept with full control of all process parameters
- \cdot Easy to use due to smooth and ergonomic handling
- · Easy cleaning of all system components

Your solution «Rotavapor® Automated»



- · Rotavapor® R-215
- · Vacuum Controller V-855
- · Vacuum Pump V-700
- · Recirculating Chiller F-108
- · Distillation Record software
- · Stage probe (automatic distillation)
- \cdot Optional: Plastic coated glass (P+G)

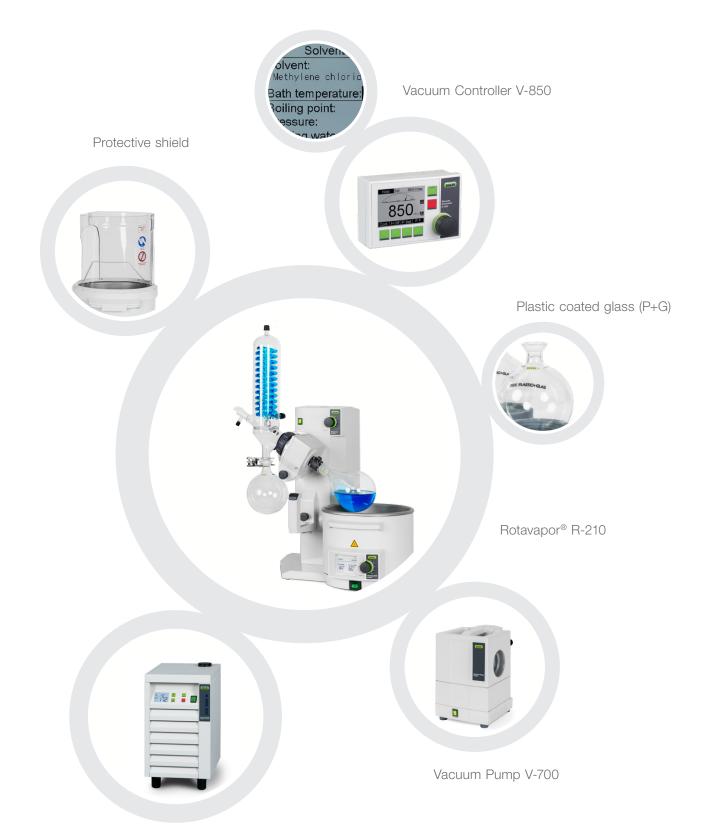


- \cdot Customized application support
- \cdot Workshop trainings
- · Service hotline
- \cdot Preventive maintenance
- \cdot FDA compliant components
- \cdot Service and documentation (IQ/OQ)

"I have been using BUCHI Rotavapor" for more than 10 years, ever since my postgraduate research. It's very user-friendly and a lot of thought has clearly been put into the design details". Dr. Ella Xiang, Nu Skin Enterprise, China



You aim to conveniently evaporate your samples in a semi-automated process and achieve high efficiency. The solution «Rotavapor[®] Semi-Automated» with centrally controlled Vacuum Pump, Recirculating Chiller and integrated solvent library offers both.



Recirculating Chiller F-105

Your most important benefits

Efficient

- · Improved efficiency with use of the solvent library
- \cdot Time saving thanks to short heating up time of the bath
- · High throughput due to large condenser surface

Convenient

- · Centrally controlled Vacuum Pump and Recirculating Chiller
- · Intuitive and safe operation achieved by self-explanatory user interface
- \cdot Ease of use due to smooth and ergonomic handling
- · Easy cleaning of all system components

Expandable

- · Adaptable to many applications by choosing from seven different glass configurations
- \cdot Wide range of accessories and options available to customize to specific needs

Your solution «Rotavapor® Semi-Automated»



- · Rotavapor® R-210
- · Vacuum Controller V-850
- · Vacuum Pump V-700
- Recirculating Chiller F-105
- · Protective shield for heating bath
- · Plastic coated glass (P+G)
- · Option: B-495 heating bath (5 L flask)

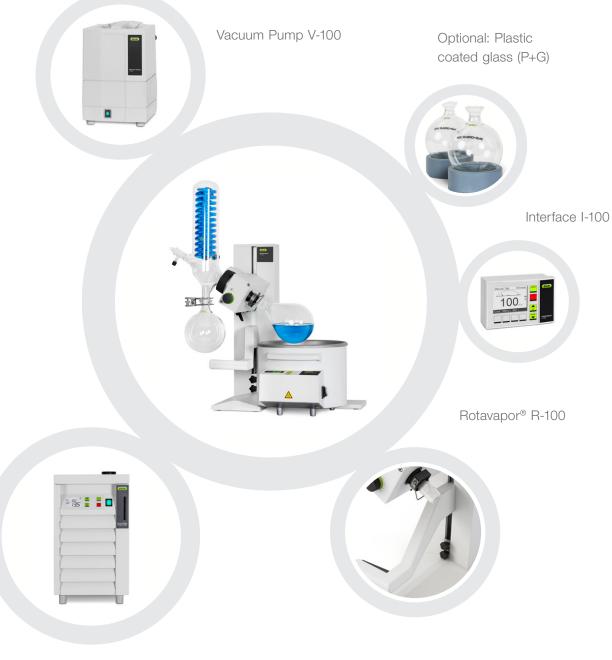


- \cdot Customized application support
- \cdot Workshop trainings
- · Service hotline
- \cdot Preventive maintenance
- · FDA compliant components
- \cdot Service and documentation (IQ/OQ)

"As it simplifies the evaporation task, we can entrust the purification process with the evaporation and vacuum system to lab assistants. Thus, we can dedicate ourselves to other tasks." Dr. Yasuhiro Shirai, Group Leader Photovoltaic Polymer Materials, GREEN, Japan



You are looking for an economical and complete high-quality evaporation solution. The solution "Rotavapor[®] Essential" integrates a Rotavapor[®], a regulated Vacuum Pump and a Recirculating Chiller to cover the main evaporation applications efficiently.



Recirculating Chiller F-105

Your most important benefits

Economical

- \cdot Unique and affordable system for essential needs
- · Small footprint saves valuable lab space
- \cdot Saves resources thanks to integrated system

Efficient

- · Centrally regulated Vacuum Pump and Recirculating Chiller
- · Process control due to precise vacuum regulation
- · Reproducible yield thanks to stable parameters
 - · Heating bath temperature
 - · Vacuum pressure
 - · Cooling temperature

Convenient

- \cdot Ease of use due to smooth and ergonomic handling
- · Maximum comfort thanks to integrated system

Your solution «Rotavapor® Essential»



- · Rotavapor[®] R-100
- · Vacuum Pump V-100
- · Interface I-100
- Recirculating Chiller F-105
- · Optional: Plastic coated glass (P+G)



- \cdot Application support
- · Workshop trainings
- \cdot Service hotline
- \cdot Preventive maintenance

"The solution is easy to use. The equipment is very useful due to various applications for sample preparation or quality determination."

Dr. Rungnaphar Pongsawatmanit, Associate Professor, Kasetsart University – Faculty of Agro-Industry, Thailand



You need a solution for distillation, sublimation or drying of small sample volumes at high temperatures. The solution «Glass Oven All in One» covers the widest range of various applications.



Vacuum Pump V-100

Your most important benefits

Versatile

One solution for multiple applications with small volumes

- · High temperature drying
- · Distillation
- \cdot Sublimation

Efficient

- · Achieve gentle sample treatment thanks to controlled vacuum
- · Low energy consumption due to small sample volumes
- \cdot Space saving due to its unique compact design

Easy to use

- \cdot Self explanatory operation due to intuitive user interface
- \cdot Maximized process observation thanks to unique glass heating tube
- \cdot Easy and intuitive handling due to ergonomic design

Your solution «Glass Oven All in One»



- · Glass Oven B-585 with Kugelrohr assembly
- · Drying assembly
- · Vacuum Pump V-100
- · Interface I-100
- · Optional: Range of glass assemblies



- · Customized application support
- \cdot Workshop trainings
- \cdot Service hotline
- · Preventive maintenance
- \cdot Service and documentation (IQ/OQ)

"We are also using BUCHI rotary evaporators and vacuum pumps in our lab. We made experience that all BUCHI products are user friendly and help to increase the productivity." Scientific company, United Kingdom



The best solution for your need Comparison by customer needs, application and characteristics



			Rotav	Glass Oven			
		R-100	RII	R-210	R-215	B-585	B-585
Needs/Solutions	Page					Kugelrohr	Drying
«Rotavapor [®] Automated»	6				•		
«Rotavapor [®] Semi-Automated»	8			٠			
«Rotavapor [®] Essential»	10	•					
«Glass Oven All in One»	12					٠	•
Applications							
Evaporation		•	•	٠	•	•	
Drying		•	•	٠	•		•
Concentration		•	•	٠	٠	•	
Sublimation						•	
Reflux reaction				٠	٠		
Solvent recycling					•		
Soxhlet extraction				٠	•		
Re-crystallization				٠	•		

Characteristics

Temperature regulation range (°C)	20 – 95	20 - 95	20 – 180	20 – 180	40 - 300	40 - 300
Lift	Manual	Manual	Automatic	Automatic		
Condensers available	V^2 / C	V ² /C ³ /A ³	74	74		
V-condenser surface (cm ²)	1460	1460	1460	1460		
Rotation speed display	Analog	Analog	Analog	Digital		
Evaporating flask (mL)	50 - 4000	50 - 4000	$50 - 4000^5$	$50 - 4000^5$		
Receiving flask (mL)	50 - 3000	50 - 3000	50 - 3000	50 - 3000		
Vapor temperature display				Digital		
Heating temperature display	Digital	Analog	Digital	Digital	Digital	Digital

				ĨO	10		850.	855	
•==• Recirc	culating	Chiller	Vac	uum Pu	Imp	Vacuu	um Con	troller	
F-100	F-105	F-108			V-710	I-100		V-855	
		•		•				•	
	•			•			•		
	•		•			•			
			•			•			
									Compatibility
						♦ 1	♦ ¹	♦ ¹	R-100
	•	•	•	•	•	-	-	-	R-100 with I-100
						♦ 1	♦ ¹	♦ ¹	RII
	•	•	٠	•	•	-	-	-	R II with V-850 / V-855
						• 1	•	•	R-210
	•	•	٠	•	•	-	-	-	R-210 with V-850 / V-855
						• 1	•	•	R-215
	•	•	•	•	•	-	-	-	R-215 with V-850 / V-855
 Regulat 	ted ⁶	Controlled	Mar	nually contr	olled	Autonom	ous 🔶	¹ For pump	/chiller only
									Characteristics
							•	•	Solvent library
						٠	٠	٠	Timer function
							•	•	LabVac
								٠	EasyVac
								•	Automatic distillation
								•	Gradient function
			1.5	1.8	3.1				Vacuum capacity (m ³ /h)
			< 10	< 10	2				Final vacuum (mbar)
fix 10	-5 - 25	-10 – 25							Temperature range (°C)
400	500	800							Cooling capacity (W) at 15 °C

⁶ On/Off communication

Benefit from the market leader BUCHI Frequently asked questions

Which is the right glass assembly for my application?

The glass assembly is chosen according to individual applicative requirements, solvent and sample properties as well as condenser characteristics. 8 .

	A	c		S	CR		BY
Applications	Diagonal	Cold trap	Vertical	Reflux	Cold trap reflux	Expansion	Double jacket
Distillation	•	•	٠	٠	٠	٠	•
Drying	•	٠	٠	٠	٠	٠	٠
Concentration	•	•	٠	•	٠	•	•
Reflux reaction				٠	٠		٠
Soxhlet extraction				•			•
Re-crystallization	•	•	٠	•	•	•	٠
Solvent/Sample propertie	əs						
Boiling point range	M – H	L – M	M – H	M – H	L – M	M – H	M – H
Bumping or foaming	•1	•1	•1	•1	•1	٠	•1
Characteristics							
Cooling	CL	CM	CL	CL	СМ	CL	CL
Cooling temperature range	Н	Μ	Н	Н	Μ	Н	Н
Suitable for high throughput	•		٠	٠		٠	•
Vapor temperature sensor			Available	Available		Available	Available
Automatic distillation			●2	●2			
Suitable for limited space	VS	HS	HS	HS	HS	HS	HS
Condenser surface (cm ²)	1460	500	1460	1460	500	1480	1250
Available for R-210 / R-215	•/•	•/•	•/•	●/●	•/•	•/•	•/•
Available for R II / R-100	•4/-	•4/•	●3/●3				

H = High M = Medium L = Low VS = Limited vertical space HS = Limited horizontal space

CL = Cooling liquid CM = Coolant mixtures (e.g. dry-ice/acetone)¹ With Reitmeyer adapter ² Possible with stage probe only ³ Limited features ⁴ No flask feeding (screw cap only)

Is the selection of the right condenser important?

The selection of the right condenser is crucial to be able to perform the required application. Depending on the required condensation level a different cooling capacity needs to be chosen.

How do I determine the optimum evaporation conditions?

The easiest way for finding the right conditions is by applying the "delta 20 rule":

- Heating bath temperature should be 20 degrees higher than the boiling point of the solvent to be evaporated at the vacuum chosen
- · Cooling temperature should be at least 20 degrees lower than the boiling temperature of the solvent

A bath temperature of 60 °C is recommended for many applications.

Example:

- · 60 °C heating bath temperature
- \cdot 40 °C boiling temperature (by adjusting the vacuum)
- \cdot < 20 °C cooling temperature

There are many advantages of heating the bath to a maximum of 60 °C:

- \cdot No risk of scalding when handling the evaporation flask
- · Lower evaporation of heating liquid (e.g. water)
- · Higher energy efficiency compared to other heating bath temperatures

Why should I buy plastic coated glassware?

The plastic coating (P+G) improves the durability and sturdiness of the glass hence extends the life time of glassware. It additionally protects the operator from getting in contact with toxic chemicals and vapors in case of glass breakage. Due to the coating, injuries from touching broken glass are reduced to a minimum.



We often use 5 L evaporating flasks. Which heating bath size is recommended?

5 liter flasks are too big to be fully immersed into a Heating Bath B-491. Thus, the Heating Bath B-495 has a larger diameter that suits perfectly.

Which liquid should be used in the heating bath?

Tap water is the most common used fluid. When using distilled water, 0.5 g of Borax should be added. Distilled water without any additionally added ions will corrode the bath. For heating temperatures higher than 95 °C we recommend polyethyleneglycol (PEG).



Customer Statements

Experience a wide variety of customer statements online



"You can save a lot of manual labour"

"I have been using BUCHI Rotavapor[®] for more than 10 years. It is very user-friendly and a lot of thought has clearly been put into the design details.

I think the Rotavapor[®] is very good. It is very convenient to use. The biggest advantage is that you can save a lot of manual labour."

Customer Dr. Ella Xiang Nu Skin Enterprise, China

Segment

Pharma



"BUCHI is the first name that comes to mind"

"The new rotating evaporators, just like the other recent equipment, are very good and very easy to use, no problem at all. BUCHI is the first name that comes to mind when speaking of high quality rotary evaporators.

We also obtain everything that comes with the device: follow up, customer relations, contacts. These aren't new products with new problems, they are tried and tested. This brings huge benefits, it allows us to have great maintenance."

Customer	Nicolas Paul and Florence Waffcart Diverchim, France
Segment	Chemistry



"We really appreciate the service"

"The evaporator is vital to us. With the first try we noticed how reliable and durable BUCHI is. We use BUCHI because of its durability an easy maintenance. We really appreciate the service which is very accommodating. They don't just perform their jobs, you can see their confidence they have in their work."

CustomerPh. D. Ahunji Aoki
Hyogo University of Health Sciences, JapanSegmentAcademia



"It allowed us to mix an endless amount of drinks"

"We put fruits in the BUCHI Rotavapor[®] and use it in drinks. It is so similar to the way you would distill spirits. You can get this rare depth of aroma [...] without destroying their essence.

The flavour and aroma is very very intense. With the Rotavapor® you have more possibilities. This allowed us to mix an endless amount of drinks."

Customer

Tony Conigliaro New Wave Bars, UK

Segment

Food & Beverages



"I really look forward to more equipment which is as durable as this"

"The BUCHI doesn't get easily damaged. I really look forward to more equipment which is as durable as this.

The program [...] normally takes 16 hours at current standards, but with BUCHI it can be done in about 4.5 hours. [...] using this program you can easily change to any setting. We have been using the product for 9 years."

Customer Shigeru Sasaki and Shigeki Nakajima Hokuriku Environmental Science Laboratories Co., Ltd., Japan

Segment

Environment





Complete your laboratory evaporation portfolio Complementary and related products

Vacuum Pump



The Vacuum Pumps V-100, V-700 and V-710 are fully integrable into your evaporation solution. Benefit from the small footprint and the quiet operation.

Vacuum Controller



BUCHI Vacuum Controllers allow you to operate a Rotavapor[®] or other products in your lab in an automated mode. An integrated solvent library assist you in your daily work.

Recirculating Chiller



BUCHI Recirculating Chiller are fully integrable into any Rotavapor[®] system. They guarantee a sustainable operation of your sample preparation.

Glass assemblies



Make use of the widest range of glass condensers and flasks to optimize your evaporation application.

Plastic coated glass



For maximum safety BUCHI offers a high quality plastic coating for virtually every glass to prevent glass slivering.

Industrial Rotavapor®



Use the BUCHI industrial Rotavapor[®] R-220 SE / R-250 for production scale.

Multivapor™



The Multivapor™ is a compact 6 or 12 position parallel vortex evaporator that is designed to optimize existing personal process workflows.

Syncore[®] Polyvap



The Syncore[®] Polyvap allows parallel evaporation of 4 to 96 samples, using six exchangeable racks, available as option.

Spray Dryer



The Mini Spray Dryer B-290 is the product of choice for the quick and gentle drying of liquid solutions to powder.

Sepacore®



Whether working with a simple flash purification system or with a complete automated chromatography system, Sepacore[®] from BUCHI offers flexible products for flash chromatography.

SpeedExtractor



Optimize your extraction process with the SpeedExtractor E-914 or E-916, a parallel pressurized solvent extractor.

Melting Point



Check the purity of your compounds using the M-560 or M-565 Melting Point for melting point or boiling point determination.



Support and customer service From feasibility to preventive maintenance

You value an efficient and personalized service. Our network of professional application specialists and service technicians as well as a large number of satisfied customers around the world give you the assurance that you are working with the right partner.



Solvent calculator increases efficiency

Have the best possible adjustment for your evaporation process in using the BUCHI solvent library. Download the file and benefit from the long-term experience of the sample preparation specialists.

Discover our calculator at: www.buchi.com/solvent-calculator





Learn about evaporation and concentration

Over more than 50 years of experience in the development of official and customized applications is summarized in practical guides. In addition, the Laboratory Assistant provides the theoretical background of essential sample preparation steps as well as practical tips. Profit from a myriad of information.

Discover our literature at: www.buchi.com/literature





Discover our numerous case studies

BUCHI offers over 130 different case studies. By using real information, the online case studies bring to life the complexities of business and give you an understanding of the wide range of the applications supported by our products, systems, solutions and services.

Discover our case studies: www.buchi.com/casestudies





Profit from workshops, trainings and seminars

We regularly offer practical seminars and workshops, often in cooperation with other partners in the field of sample preparation and analysis. Customer contributions thereby underline how our solutions facilitate the daily routine. We also attend many local and international scientific and industrial congresses.

Find an overview of our activities: www.buchi.com/events



Use your product most effectively

We help you to set your product properly into operation. We provide thorough Installation/Operation Qualification (IQ/OQ) services to ensure compliance with FDA, GLP/GMP standards or GAMP guidelines. Whether it is because of an initial installation, requalification or relocation, we provide professional compliance verification.

Find out more about our services: www.buchi.com/service-support



Minimize downtimes

Avoid products downtimes with preventative maintenance and tailored service packages. We offer a product warranty of two years and guarantee ten years of spare parts availability.

Get in touch with us: www.buchi.com/warranty



Global Network

Our subsidiaries and qualified distribution partners ensure proximity where ever you are. Since we are familiar with your requirements, we use our experience and knowledge to provide first-rate solutions.

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BUCHI Laboratory Solutions

Discover the benefits of our different solutions



Laboratory **Evaporation Solutions**



Industrial **Evaporation Solutions**



Spray Drying & Encapsulation Solutions



Parallel Evaporation Solutions



Preparative Chromatography Solutions



Digestion and Distillation Solutions



Solutions for Protein Determination



Extraction Solutions



NIRSolutions™

Quality in your hands

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