



Product Overview

# BUCHI Laboratory Equipment



Segments we cover




	P	C
		
	Pharma	Chemical
Solutions		
Laboratory Evaporation	•	•
Industrial Evaporation	•	•
Parallel Evaporation	•	•
Spray Drying & Encapsulation	•	•
Freeze Drying	•	•
Melting Point	•	•
Preparative Chromatography	•	•
Kjeldahl	•	-
Extraction	-	-
NIRSolutions™	•	•
NIR-Online	•	•

Solutions for numerous applications

Our solutions for laboratory, industrial and parallel evaporation, spray drying, melting point, preparative chromatography, extraction, distillation & digestion and near infrared spectroscopy meet the highest needs of our demanding customers around the globe.

Quality in your hands

All our products comply with our philosophy of “Quality in your hands”. We strive to develop products and solutions that are solid, cleverly designed, convenient and easy to use in order to fulfill customer needs to the highest degree.

F	Fe	E
		
Food	Feed	Environment
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Close to customers

Our worldwide network of 20 subsidiaries and support centers as well as over 70 qualified distribution partners ensure proximity wherever you are.

For more information

[www.buchi.com](http://www.buchi.com)





Laboratory Evaporation

P C Fo Fe E



**Rotavapor® R-300**  
The R-300 meets the highest expectations in convenience and versatility. Modular design allows the extension to a fully integrated system.



**Rotavapor® R-180**  
The Rotavapor® R-180 offers robust performance, intuitive design, and essential safety features. It 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.



**Rotavapor® R-80**  
The R-80 is the smallest and most affordable Rotavapor® on the market, ensuring the most efficient use of lab space.



**Interface I-300 Pro**  
The convenient interface with central touch screen control, recording and charting.



**Interface I-300**  
The controlling unit for all process parameters.



**Interface I-100**  
The easy to use interface to regulate the vacuum conveniently.



**Interface I-80**  
The Interface I-80 is a suitable option for those with basic needs and is used for manual vacuum control. Thanks to the central navigation control of the Interface I-80, you can conveniently control the pump speed, and a needle valve allows fine-tuning of the final pressure.



**Interface I-180**  
The Interface I-180 automatically controls the vacuum and has one central navigation control with which all major parameters can be set. For more flexibility, the vacuum can be controlled by targeting a set pressure or with the continuous mode.



**Vacuum Pump V-600**  
The powerful and silent vacuum source.



**Vacuum Pump V-300**  
The economical and silent vacuum source, optimally suited in combination with Rotavapor® R-300.



**Vacuum Pump V-100**  
The economical and space-saving vacuum pump for essential needs.



**Vacuum Pump V-80 / V-180**  
The Vacuum Pump V-80 / V-180 is a chemically resistant and affordable vacuum source with a compact design. The speed-control solution guarantees the vacuum pump operates quietly.



**Recirculating Chiller F-3xx**  
The efficient way of cooling, optimally suited in combination with Rotavapor® R-300.



**Recirculating Chiller F-1xx**  
The essential and cost-saving way of cooling.



**Glass Oven G-300 Drying**  
Efficient drying of small samples up to 300 °C or gently under vacuum.



**Glass Oven G-300 Kugelrohr**  
For simple and fractional distillations of small liquid volumes.

Industrial Evaporation

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**Rotavapor® R-220 Pro**  
Perform large distillation processes the most economical way with up to 20 liter flask volume.



**Rotavapor® R-250 Pro**  
Best performance and highest safety. Fast distillation of large batches in flasks of 50 litres due to high heating capacity.



**Rotavapor® R-220 EX / 250 EX**  
Both, R-220 EX and R-250 EX, meet the newest EX regulations and fulfil the highest safety levels.



**Recirculating Chiller F-325**  
Make the R-220 Pro independent of supply lines. Chiller, Rotavapor® R-220 Pro, and vacuum pump form one compact unit, hosted on a trolley.

Parallel Evaporation

P C Fo Fe E



**Multivapor™ P-6 / P-12 stand-alone**  
The Multivapor™ enables neatless integration of your custom sample tubes and allows parallel evaporation of up to 12 samples.



**SyncorePlus**  
Our SyncorePlus parallel evaporation instrument comes in two configurations; the SyncorePlus Analyst "Pre-Analytical" and the SyncorePlus Polyvap "Throughput".


Spray Drying & Encapsulation

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**Mini Spray Dryer S-300**  
With the Mini Spray Dryer S-300, BUCHI solidifies its position as a global market leader for more than 40 years. The laboratory spray dryer combines outstanding product design with unique instrument capabilities to offer a superior user experience.




**Inert Loop S-395**  
The ideal accessory for your Mini Spray Dryer S-300 to spray dry organic solvents the safe way. Its innovative design makes spray drying of organic solvents more environmentally friendly, cost-efficient and safe.




**Dehumidifier S-396**  
Designed to provide dry air or to enable continuous work with water and organic solvent mixtures. The accessory improves your spray drying performance, while providing stable spray drying conditions.



**Ultrasonic Package**  
Generate larger particles with the Mini Spray Dryer S-300.



**Encapsulator B-395 Pro**  
Controlled encapsulation of cells, biological and active materials for lab-scale R&D work requiring sterile conditions.



**Encapsulator B-390**  
Facile and flexible operation of the B-390 to produce beads and capsules for numerous actives and materials.

Freeze Drying


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**Lyovapor™ L-210**  
EcoStream™ technology offers high-performance freeze-drying (-55 °C, ≤ 6 kg). Endpoint determination and Infinite Control™ enable process time optimization, easy method creation, data logging, and real-time chart recording.



**Lyovapor™ L-250**  
The EcoStream™ technology paves the way to a sustainable and powerful freeze drying instrument with temperature of -85 °C. The system's remote, automatic control and modularity enhance the process efficiency to shorten drying time.



**Lyovapor™ L-300**  
Infinite-Technology™ offers continuous sublimation with two alternate working and automatically cleaned condensers at -105 °C including the Infinite-Control™ for entire process control.

Melting Point

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**Melting Point M-565**  
Automated and reliable determination of melting and boiling points with video camera and replay function.



**Melting Point M-560**  
Manual determination of melting and boiling points with intuitive calibration and verification procedures for highly accurate measurements.

Purification

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**Pure Essential Chromatography System**  
A flash instrument that focuses on the essentials for any basic flash application. The instrument's modular design makes it easy to take the first steps into automation.



**Pure Chromatography Systems**  
Compact Flash & prep HPLC instruments with the highest flexibility thanks to several means of detection (UV and ELSD) and incredible pump performance.



**Sepiatec SFC Systems**  
Extremely easy-to-use preparative SFC systems which take less space than expected. Suitable for basic to complex tasks on a small or large scale.



**FlashPure cartridges**  
A complete range of flash cartridges enables a wide variety of particle sizes and phases and accommodates both basic and complex applications.



**PrepPure columns**  
Developed for high-resolution prep HPLC and SFC separations. Easily scalable from 4.6 to 70mm ID and available with various phases.



**GlasPure columns**  
Glass columns that accommodate small to large sample amounts and high-pressure work up to 50 bar (725 psi).



**KjelMaster System**  
**K-375 / K-376 / K-377**  
Highest productivity in steam distillation with compliant and flexible plug-and-measure titration concept (colorimetric / potentiometric).



**SpeedDigester**  
**K-439 / K-425 / K-436**  
Multiply the digests functionality whenever needs are changing.



**K-365 Kjel Line**  
BUCHI's latest steam distillation units are extremely accurate, ensure the sustainable use of resources and offer maximal safety during operation.



**Wet Digester B-440**  
Ecological pre-incineration of different types of samples.




**K-365 Dist Line**  
The Dist Line is extremely versatile and is designed for a broad range of analytes while offering the highest operational safety.




**Scrubber K-415**  
Four cleaning steps provide maximum safety by neutralizing poisonous fumes and reaction gases.



**KjelDigester K-446 / K-449**  
Reduce the block digestion process by up to two hours and meet the highest safety requirements.




**SpeedExtractor E-914 / E-916**  
Fast Pressurized Solvent Extraction (PSE) by processing up to 6 samples in parallel.




**Mixer B-400**  
Combines optimal homogenization efficiency with simple operation.



**FatExtractor E-500**  
Quick and compliant fat extraction. Gain the flexibility to readily adapt the FatExtractor E-500 to changing needs with the user interchangeable glass assembly (SOX, HE or ECE) and execute extractions according to Soxhlet, Randall or Twisselmann.



**UniversalExtractor E-800**  
Perfectly suited to any demanding extraction task. Six distinct extraction positions enable individual process control and simultaneous operation of different extraction methods. High-speed heaters combined with sophisticated process control allow for the fastest and most reproducible extraction processes.



**HydrolEx H-506**  
Performs acid hydrolysis as a sample preparation step prior to fat extraction for total fat determination. The HydrolEx H-506 offers a smooth and safe process with convenient system handling.



**ProxiMate™**  
ProxiMate™ is a robust, compact and easy to use at-line NIR instrument for the food and feed industry. It reduces downtime in production and provides fast quality control of batch samples.




**NIRFlex® N-500**  
Reliable analysis results for quality control and R&D with a wide range of measuring cells and accessories for highest performance.



**NIR-Online Process Analyzer**  
Real-time process control for demanding process applications using premium process sensors according to your production needs. The NIR-Online X-One series provides continuous and accurate measurements within seconds to guarantee maximal production efficiency.



**X-Sential™ SE**  
Closely monitoring basic parameters such as moisture, fat, or protein is crucial to correct deviations in manufacturing processes. The X-Sential™ SE has been developed and designed to be the best value, cost-efficient, fit-for-purpose process sensor.



**ProxiScout™**  
A rugged, portable NIR spectrometer that lets you instantly analyze samples anywhere, whether in the field, during production, or at the warehouse. It delivers fast, lab-quality results via a user-friendly mobile app, even when offline.



**Support and customer service**  
From feasibility to preventive maintenance



**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/knowledge/courses-trainings](http://www.buchi.com/knowledge/courses-trainings)



**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.

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**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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# 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.

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

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Quality in your hands

