



BUCHI Laboratory Equipment Product Overview

BUCHI is a leading solution provider in laboratory technology for R&D, quality control and production worldwide for more than 80 years. We serve a wide range of industries such as pharmaceuticals, chemicals, food & beverage, feed, environmental analysis and academia.



Core messages to our customers

BUCHI creates added value with “Quality in your hands”

“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.

Segments we cover

Solutions	 Pharma	 Chemical
Laboratory Evaporation	•	•
Industrial Evaporation	•	•
Parallel Evaporation	•	•
Spray Drying & Encapsulation	•	•
Freeze Drying	•	•
Melting Point	•	•
Preparative Chromatography	•	•
Kjeldahl & Dumas		
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, Dumas method 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.

Fo



Food

Fe

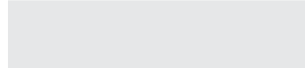
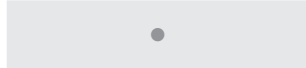
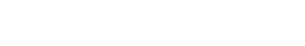
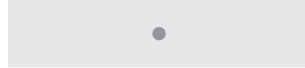
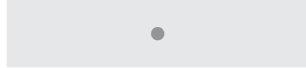
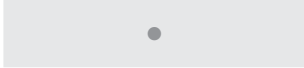
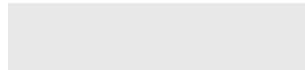
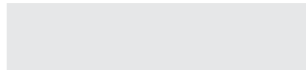
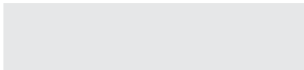
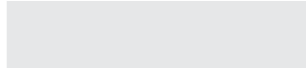
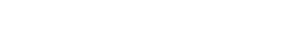


Feed

E



Environment



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



Laboratory Evaporation



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-100
The entry level Rotavapor® to meet the essential needs in evaporation



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



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



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 B-585 Kugelrohr
For distillation, sublimation, freeze-drying or drying of small samples



Glass Oven B-585 Drying
The cost efficient way to dry small and medium samples gently under vacuum

Industrial Evaporation



Rotavapor® R-250
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



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



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



Syncore® Polyvap

Fast, efficient and economic evaporation of up to 96 samples in parallel, while providing up to 95 % of solvent recovery



Syncore® Analyst

Efficient, gentle, and environmentally friendly parallel concentration with maximum recoveries and inhibited cross-contamination

Spray Drying & Encapsulation

P C Fo Fe



Mini Spray Dryer B-290

The world leading R&D solution for Spray Drying. Reproducible powder production at lab scale



Nano Spray Dryer B-90 HP

Three patented technologies enable the production of small particles and reduce R&D cost due to small sample volumes and higher yields



Inert Loop B-295

The Inert Loop enables Mini Spray Dryer B-290 and Nano Spray Dryer B-90 to handle organic solvents safely



Dehumidifier B-296

Condition the drying air or work continuously with water and organic solvent mixtures under stable conditions



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



Ultrasonic Package

Generate larger particles with the Mini Spray Dryer B-290

Freeze Drying

P C Fo Fe E



NEW

Lyovapor™ L-200

Efficient Freeze Drying (-55 °C, 6 kg) with Infinite-Control™ including easy method creation, data logging, chart recording in real time and required interruption at anytime and anywhere.



NEW

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 **P** **C**



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 **P** **C**



Pure C-810/C-815 Flash
Powerful Flash purification systems, with and without ELS Detection, for maximal flexibility, purity and recovery. With standard remote control.



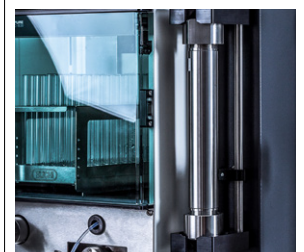
Pure C-830/C-835 Prep
High performance preparative HPLC systems, with and without ELS Detection. One screen programming and auto-recognition of collection racks.



Pure C-850 FlashPrep
Powerful system combining flash and preparative HPLC capabilities. Offers all the benefits of flash and prep systems in one unit.



FlashPure cartridges
A complete range of flash cartridges for optimum performance and loadability



PrepPure columns
Developed for high resolution separations. Easy scalable from 4.6 to 70mm ID and available with various phases.



GlasPure
Glass columns for big sample amounts or for higher pressure work up to 50 bar (725 psi)



Sepacore® flash systems X10 / X50
High efficiency separations at a pressure up to 50 bar suitable for all flash purification requirements



Sepacore® Easy Purification Systems
The easy to use and automated purification system

Kjeldahl & Dumas

Fo Fe E



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



KjelFlex K-360
Semi-automatic distillation unit with broad application flexibility



Distillation Unit K-350 / K-355
Cost effective Kjeldahl nitrogen or protein determinations compliant to officially approved methods



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



SpeedDigester
K-439 / K-425 / K-436
Multiply the digester functionality whenever needs are changing



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



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

Extraction

Fo Fe E



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



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.



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



Mixer B-400
Combines optimal homogenization efficiency with simple operation



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.



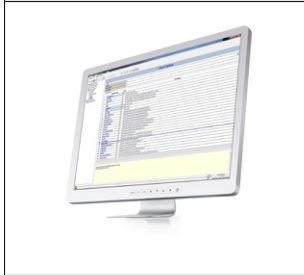
NIRMaster IP54
Rapid and accurate control of the quality and nutritional facts of feed, pet-food, milling and bakery products



NIRMaster IP65
FT-NIR standalone spectrometer with IP65 protection class to meet the requirements for safety of quality control in dairy and meat food production



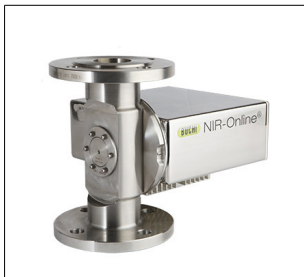
NIRFlex® N-500
Reliable analysis results for quality control and R&D with a wide range of measuring cells and accessories for highest performance



NIRWare® Software Suite
Operate BUCHI FT-NIR spectrometer without advanced expertise. The bi-directional LIMS interface allows flexible and secure data exchange with full traceability



NIRCal® Chemometric Software
The powerful chemometric software package to develop robust NIR methods which lead to fast and reliable NIR prediction results



NIR-Online Process Analyzer
Continuously monitor key parameters such as moisture, fat or protein in manufacturing processes in real time



NIR-Online Multipoint System
Control your entire process most economically - Innovative Multipoint Heads provide a cost-effective way to determine relevant production parameters

Support and customer service

From feasibility to preventive maintenance



Profit from workshops, trainings and seminars

We regularly offer practical seminars and workshops, often in co-operation 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 one year 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.

Get in touch with us:

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