



BUCHI R&D Solutions

Pharma & Chemistry



Workflow

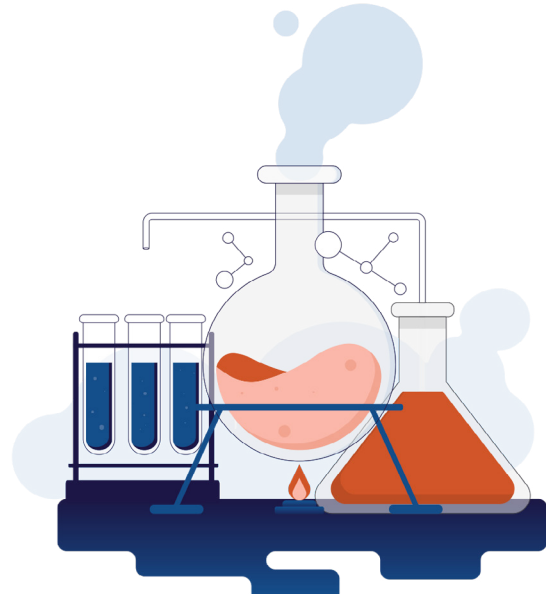
Pharma & Chemistry

Any chemical compounds or pharmaceutical ingredients, such as standard drugs, fine & specialty chemicals, or cosmetics & fragrances, undergo complex and time-consuming R&D processes and strict application testing before being produced at large scale and released to the market.



Discovery

There are several common steps during the discovery of novel therapeutics or chemical compounds. Ingredients or chemicals of interest are either extracted from natural sources or synthesized in the laboratory. Any targets of interest are processed further to achieve a single compound of high purity, which is thoroughly tested for desirable characteristics and functions.



Development

Once an active pharmaceutical ingredient (API) or chemical of interest has been identified, the development of the production process can begin. Here, the process is optimized on a larger scale to ensure a trouble-free production process. Drug formulation is the process of designing and producing drugs to be given to patients. Before being incorporated into a final formulation, ingredients need to be preformulated in either a liquid or solid form to facilitate storage.



Testing

Chemical or pharmaceutical products must undergo strict application testing before they enter the production process. The final product is typically tested for chemical stability and physical integrity under specific storage, transport, and use conditions. Clinical trials can take several years to complete and involve the evaluation of the drug mixture with animal, in vitro, and in vivo studies. If the drug is proven safe and efficient, the therapeutic can move on to the clinical research phase.



Production

Inspection of incoming goods and final quality control ensures the desired quality of any chemical or pharmaceutical products. Additionally, quality control during the production of chemicals and drugs helps to analyze the identity, purity, and content of bulk material, intermediates, impurities, and degradation products. Close monitoring of the process enables safe operation and ensures the product meets the required specifications.

Pharma & Chemistry

R&D Discovery

Synthesis, Extraction

Concentration

Cold Extraction / Soxhlet

Evaporation





Rotavapor®

Rotavapor®

SyncorePlus

The search for active pharmaceutical ingredients (APIs) and chemical compounds typically begins with a synthesis or an extraction step. Reflux synthesis and Soxhlet extraction can be performed via a rotary evaporator.

Since both synthesis and extraction require large amounts of solvent, a concentration step is required prior to downstream processing. Here, rotary evaporation is used to remove the solvent and concentrate the compound of interest.

The use of parallel evaporation can speed up the concentration of multiple samples. Many samples are evaporated simultaneously, which increases sample throughput.

- Reflux condenser for reflux synthesis.
- Soxhlet accessory for Soxhlet extraction.
- One instrument fits several applications.

- Evaporation of a single sample with evaporating flask size of 50 to 5000 mL.
- Fully communicating system to avoid downtime: solvent library, dynamic distillation, drying mode, leak test, foam sensor.
- Dewar accessory for freeze-drying sample preparation.

- Multiple samples in the range of 0.5–500 mL can be concentrated or dried simultaneously.
- Flushback module to achieve highest analyte recovery and most reliable results.
- Interchangeable racks and volume versatility.

Separation

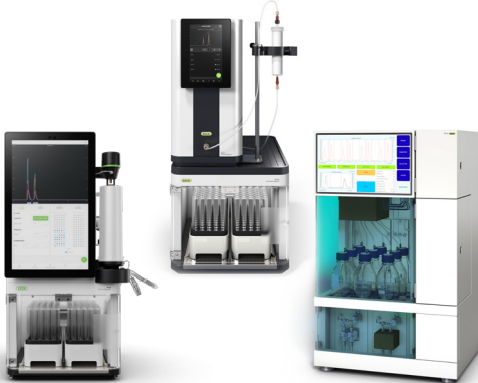
Drying

Analysis

Flash Chromatography, Prep HPLC, Prep SFC

Freeze-Drying

Melting Point





Pure Excellence & Pure Essential, Sepiatec SFC, Consumables

Lyovapor™

Melting Point

Flash and prep HPLC (preparative high pressure liquid chromatography) & prep SFC (preparative supercritical fluid chromatography) are commonly used to purify target compounds: flash is used as a pre-purification step, whereas prep HPLC and SFC increase the purity of the target compound to the maximum.

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 point serves as a useful indicator of the material's purity.

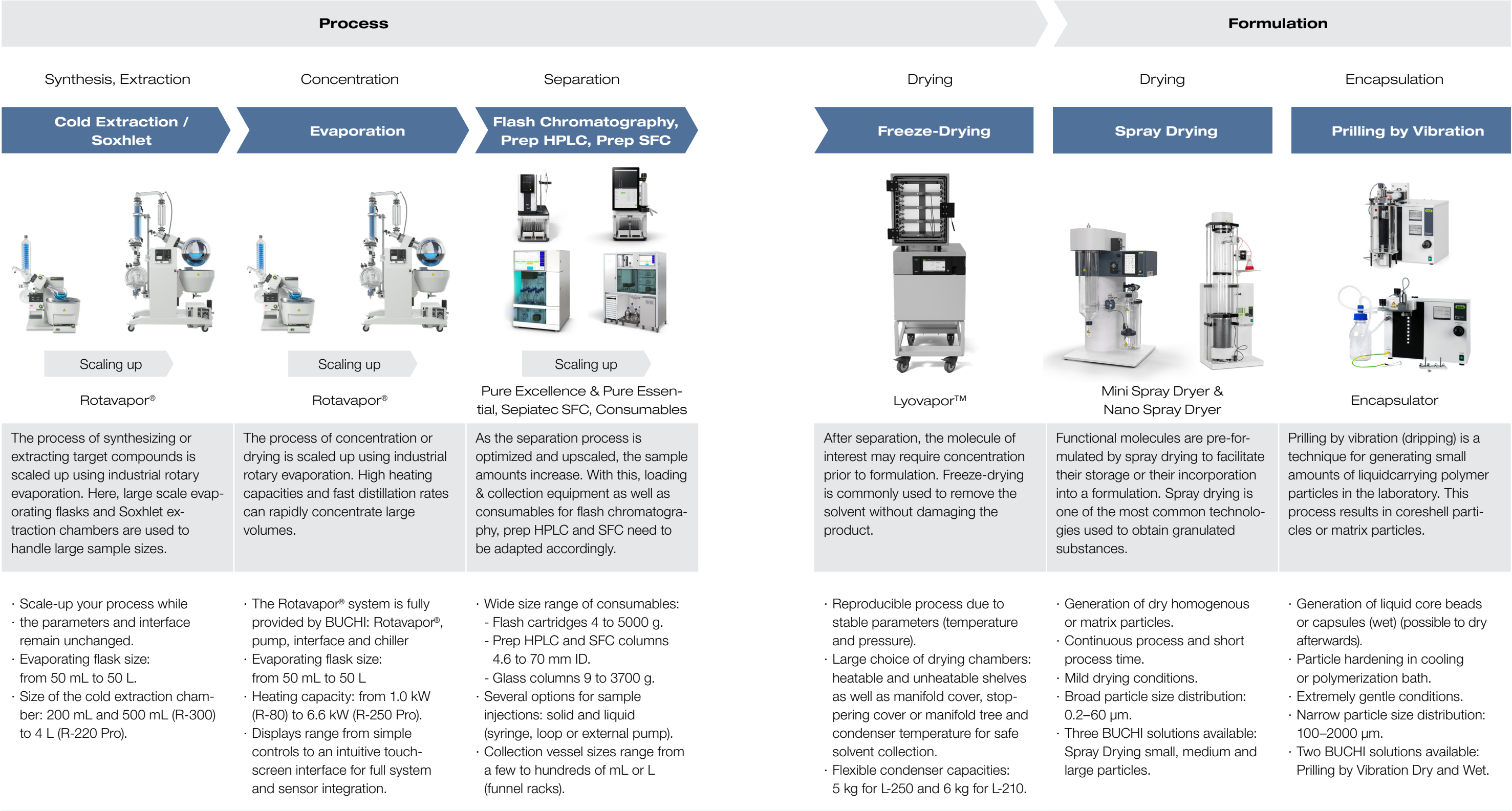
- Flash instruments for basic or advanced applications.
- Flash and prep HPLC in one system (optionally).
- Integrated UV and ELS detection (optionally).
- Compact prep SFC instruments for any sample size.
- Compatible with a wide range of flash cartridges, prep HPLC & SFC columns and glass columns.

- High-quality freeze-drying for aqueous mixtures (55 °C) and organic solvents (-85 °C).
- Easy way of controlling and monitoring of the freeze-drying process.

- Automatic determination of melting and boiling points.
- Compliant with Pharmacopeia methods (European, USP, Japanese).
- Observation and replay of the phase transition using color display and video recording
- Parallel measurement of up to 3 samples.

Pharma & Chemistry

R&D Development



Laboratory Evaporation

Product Details



System Portfolio & Technical Features

Model	Max. Flask Size	Lift System	Max bath temperature	Operation
Rotavapor® R-300 	5 L	Electric	220 °C (oil)	Safe, ease-of-use distillation

Vacuum Pump

Model	Final Vacuum	Pump Capacity	Operation
Vacuum Pump V-300	5 mbar	1.8 m³/h	Speed control (with Interface)

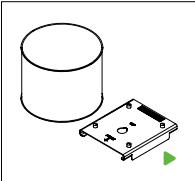
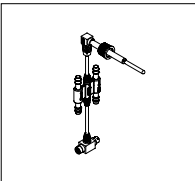
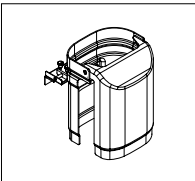
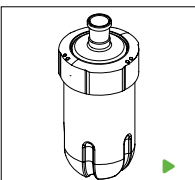
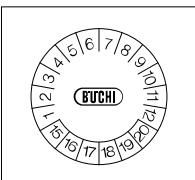
Interface

Model	Display type	Vacuum Control	Solvent Library	Methods
Interface I-300	4.3" LCD	Set pressure, continuous pump mode and Automatic (AutoDest).	Yes	No
Interface I-300 Pro	7" Touchscreen	Set pressure, continuous pump mode and Automatic (AutoDest).	Yes	Yes

Recirculating Chiller

Model	Cooling capacity at 15 °C	Cooling range	Refrigerant	Temperature setting and display
Recirculating Chiller F-305	550 W	-10–25 °C	R513a	Yes
Recirculating Chiller F-308	900 W	-10–25 °C	R513a	Yes

Accessories

	Foam Sensor Prevents sample from foaming into the condenser by automatic short aeration of the system.		Dewar Accessory For sample preparation in freeze-drying.
	AutoDest Sensor Automates distillations by dynamically regulating the vacuum based on the condenser's cooling capacity.		Splash Shield To protect the user from splashes.
	Beaker Flasks Beaker flasks with large screw-cap opening for easy retrieval of substances.		IQ/OQ Documentation Installation / Operational Qualifications documentation.

Laboratory Evaporation

Product Details



System Portfolio & Technical Features

Model	Max Flask Size	Lift System	Max bath temperature	Operation
Rotavapor® R-80	1 L	Manual	95 °C	Manual distillation
Rotavapor® R-180	3 L	Electric	95 °C	Manual distillation
Rotavapor® R-300	5 L	Electric	220 °C (oil)	Safe, ease-of-use distillation

Vacuum Pump

Model	Final Vacuum	Pump Capacity	Operation
Vacuum Pump V-80	15 mbar	1.3 m³/h	Speed control*
Vacuum Pump V-180	10 mbar	1.5 m³/h	Speed control*

* with Interface

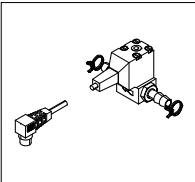
Interface

Model	Display type	Vacuum Control	Leak Test
Interface I-80	3" Segment display	Pump speed and needle valve.	No
Interface I-180	3" Segment display	Set pressure and continuous pump mode.	Yes

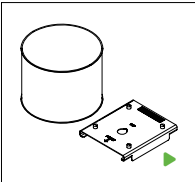
Recirculating Chiller

Model	Cooling capacity at 15 °C	Cooling range	Refrigerant	Temperature setting and display
Recirculating Chiller F-180	550 W	0–25 °C	R290 (Propane)	Only via Rotavapor®

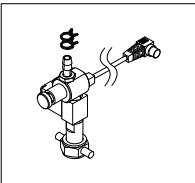
Accessories



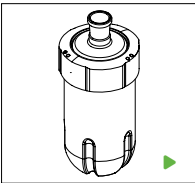
Cooling Valve
To operate one Recirculating Chiller F-180 with two Rotavapor® R-80/R-180.



Dewar Accessory
For sample preparation in freeze-drying.



Cooling Water Valve
Valve opens cooling water feed during distillation.



Beaker Flasks
Beaker flasks with large screw-cap opening for easy retrieval of substances.

Parallel Evaporation

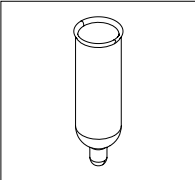
Product Details



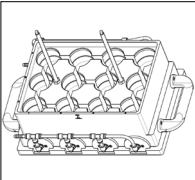
System Portfolio & Technical Features

SyncorePlus Model	Method	Number of Samples	Max Temperature	Rotation
Analyst 	concentration to final volume	4, 6, 12	100 °C	60–400 rpm
Polyvap 	evaporation to dryness	4, 6, 12, 24, 48, 96	100 °C	60–400 rpm

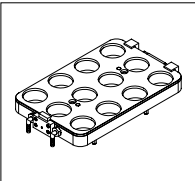
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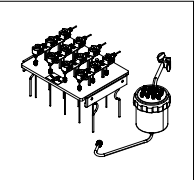
Graduated Vessels
Concentrates of up to 12 samples to a predefined residual volume using SyncorePlus Analyst, ranging from 0.3 mL, 1 mL, to 3 mL per sample.



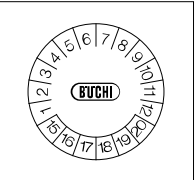
Interchangeable Racks
Broad selection of racks for SyncorePlus Polyvap to accommodate any workflow or throughput; that come in 4, 6, 12, 24, 48 and 96 positions.



Flushback Module for R-6, R-12
Improves recovery rates by flushing back analyte that adheres to the glass walls with condensed vapor during the evaporation process.



Solid Phase Extraction Cover
All essential work-up steps including evaporation of the eluates are achieved without any sample handling between the individual steps.



IQ/OQ Documentation
Installation / Operational Qualifications documentation.

Automation & Workflow



Interface I-300 Pro
Full automation with the Interface I-300 Pro. Start the process and walk away. Specified evaporation methods and predefined specific solvents.



Recirculating Chiller F-305, F-308, F-314
Convenient central temperature setting, energy-saving ECO-mode, and automatic start / stop.



Vacuum Pump V-300
Essential system component for quiet, eco-friendly operations and the ability to distill solvents of any volume and with any boiling point.



SpeedExtractor E-914 / E-916
Pressurized Solvent Extraction (PSE) for increased productivity by processing up to 6 samples in parallel. Streamlined workflow of the sample preparation thanks to ease of sample loading and ready to use extract collection.

Industrial Evaporation

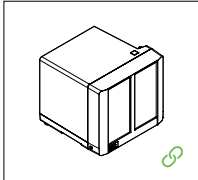
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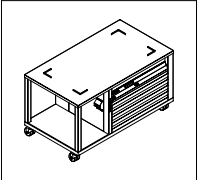
System Portfolio & Technical Features

Rotavapor® Model	Sample Size (per batch)	Heating Bath Temperature	Distillation Rate of Ethanol	EX Protection
R-220 Pro 	Max 12 L	Up to 180 °C	Up to 18 L/h	No
R-250 Pro 	Max 30 L	Up to 180 °C	Up to 19 L/h	No
R-220 EX 	Max 12 L	Up to 150 °C (T3)	Up to 12 L/h	Yes
R-250 EX 	Max 30 L	Up to 150 °C (T3)	Up to 19 L/h	Yes

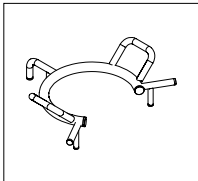
Accessories



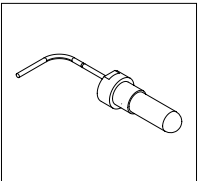
Vacuum Pump V-600
Chemically resistant 3-stage diaphragm pump.
Final vacuum: 1.5 mbar.



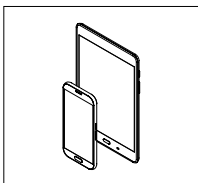
Recirculating Chiller F-325
Chiller that also operates as a trolley and host of the Vacuum Pump V-600 for the R-220 Pro.



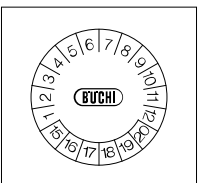
Manual Flask Handler
For easy mounting and removal of the 20 L and 50 L flasks along with safe transport.



Foam Sensor
Detects rising foam and triggers a short aeration pulse, eliminating foam.

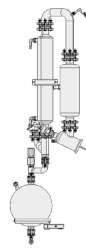
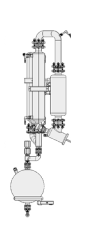
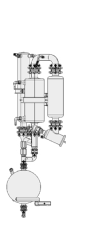
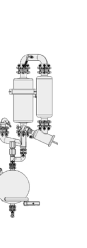
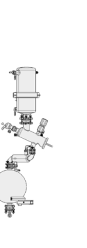
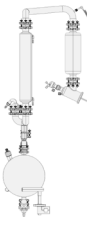
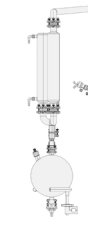


Monitor App
Allows to monitor all BUCHI instruments on a mobile device thanks to the BUCHI Bluetooth Dongle.



IQ/OQ Documentation
Installation / Operational Qualifications documentation.

Condensers

R-220 Pro							R-250 Pro				
											
D	D2	DB2	DB	RB	R	C	D2	D3	RB2	R2	
●	● ●	● ● ●	● ●	● ● ●	● ●	● ● ●	●	● ●	● ● ●	● ●	
Height	175 cm	175 cm	150 cm	150 cm	143 cm	163 cm	158 cm	230 cm	230 cm	210 cm	226 cm

- Low boiling points and / or foaming products
 - High boiling points
 - Very low boiling point
- Minimum emissions
 - Reflux reactions
 - Reduced height

Flash Chromatography (basic & modular)

Product Details

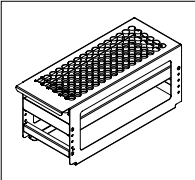


System Portfolio & Technical Features

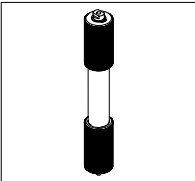
	Pure Chromatography C-900	Pure Chromatography C-900 + Fraction Collector	Pure Chromatography C-900 + UV Detector	Pure Essential Chromatography System
Modules	3 piston flash pump with binary gradient and a controller with novel and state-of-the-art software.	3 piston flash pump with binary gradient and a controller with novel and state-of-the-art software. - Enclosed fraction collector with active ventilation.	3 piston flash pump with binary gradient and a controller with novel and state-of-the-art software. - Highly sensitive 4 times fixed wave-lengths UV detector.	3 piston flash pump with binary gradient and a controller with novel and state-of-the-art software. - Enclosed fraction collector with active ventilation. - Highly sensitive 4 times fixed wavelengths UV detector.

Pure Essential Chromatography System	
Mode	Flash
Flow rate	300 mL/min
Max pressure	50 bar
UV wavelengths	4
UV spectra	254, 275, 325, 365 nm

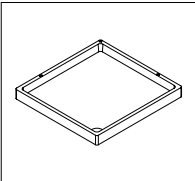
Accessories



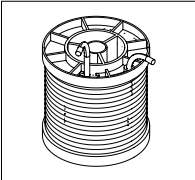
Racks
The Pure fraction collector can be equipped with two racks and is compatible with several different-sized glass tubes, funnels, and flasks, enabling an optimal collection depending on the fraction size.



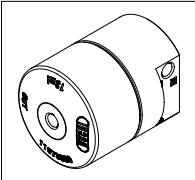
Solid Loader Hardware
The Pure Solid Loader enables easy solid sample filling into an empty tube and direct connection to the Pure Essential Chromatography system, handling pressures up to 50 bar (725 psi) for maximum flexibility.



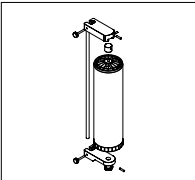
Solvent Platform
The Pure fraction collector can be equipped with an extra solvent platform on top which provides space for four bottles. This allows for better use of available space and reduces risk of spills.



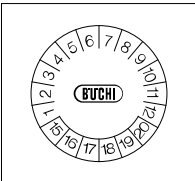
Loops and Chambers
A liquid sample can be injected manually on the flash cartridge or loaded into a loop or a chamber, depending on the sample size.



Mixing Chambers
The Pure high-pressure mixing chambers ensure proper mixing of the solvents, especially when using low concentrations.



Cartridge Holder
The Pure Essential Chromatography system supports flash cartridges from 4 to 5000 g and glass columns up to 100 mm ID and 900 mm length for flexible sample purification.



IQ/OQ Documentation
Installation / Operational Qualifications documentation.

Consumables



FlashPure
A wide range of flash cartridges

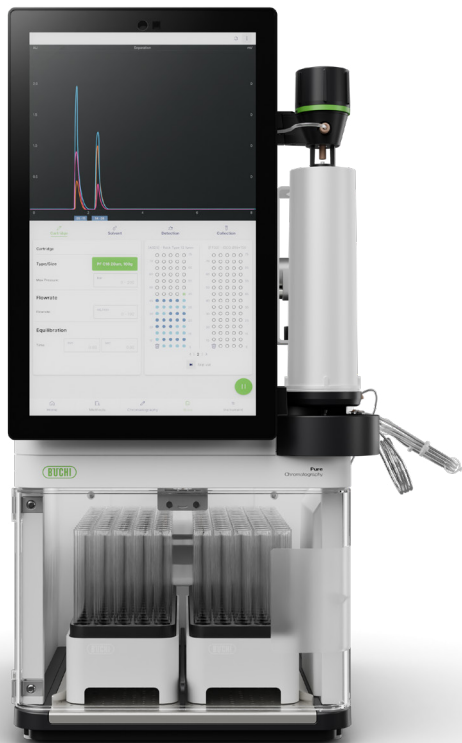


GlasPure
Scale-up purification

Phases	Silica, C18, Amino, Diol
Particle sizes	20–50 µm
Particle shapes	Irregular, spherical
Cartridge sizes	4–5000 g
Lengths	100–900 mm
IDs	15–100 mm
Silica capacities	9–3400 g

Flash Chromatography / Prep HPLC

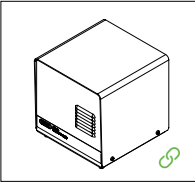
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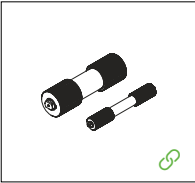
System Portfolio & Technical Features

	Pure Excellence Chromatography Systems			
	Pure C-905	Pure C-910	Pure C-915	Pure C-950
Mode	Flash	Flash	Flash	Flash Prep HPLC
Flow Rate (flash mode)	300 mL/min	300 mL/min	300 mL/min	300 mL/min
Flow Rate (prep HPLC mode)	-	-	-	150 mL/min
Max Pressure (flash mode)	50 bar	50 bar	50 bar	50 bar
Max pressure (prep HPLC mode)	-	-	-	400bar
UV Scan Function	No	Yes	Yes	Yes
UV-Vis wavelengths range	254 nm, 275 nm 325 nm, 365 nm	200–800 nm	200–800 nm	200–800 nm
ELSD	No	No	Yes	Yes

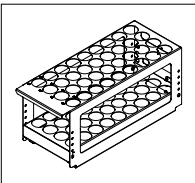
Accessories



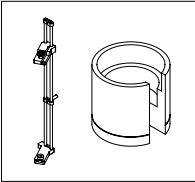
Dry Air Supply
Production of particle-free dry air on demand without the need for operator attention. Air is used in the Pure Excellence to carry sample to the ELSD and to purge cartridges and sample loaders.



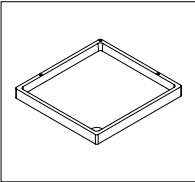
Solid Loader
Easy and flexible filling of the sample (max. 40 g) in an empty tube and connection directly to the Pure Excellence. This equipment can handle up to 50 bar (725 psi) and therefore provides maximum flexibility.



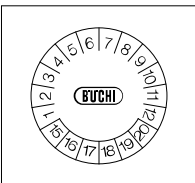
Racks
Several different sizes of racks and glass tubes, which enable an optimal collection depending on the fractions sizes. All racks get automatically identified by the Pure Excellence via an RFID tag.



XL Consumable Holders
Allows the connection of big size cartridges (750–5000 g) and prep HPLC columns (50–70 mm ID) with Pure.



Solvent Platform
Extra solvent platform on top of the Pure Excellence which provides space for four bottles. This allows for better use of available space and reduces risk of spills.



IQ/OQ Documentation
Installation / Operational Qualifications documentation.

Consumables



FlashPure
A wide range of flash cartridges.

Phases Silica, C18, Amino, Diol

Particle sizes 20–50 µm

Particle shapes Irregular, spherical

Cartridge sizes 4–5000 g



PrepPure
Highest performance for prep HPLC and SFC applications.

Phases Silica, C18, C18WP, C18AQ, C4WP, Diol, Cyano, Amino, HILIC, 2-EP, PEI, chiral phases

Particle sizes 5–15 µm

Particle shapes Spherical

Column sizes 4.6–70 mm ID, 150 & 250 mm lengths



GlasPure
Scale-up purification.

Lengths 100–900 mm

IDs 15–100 mm

Silica capacities 9–3400 g



Prep SFC

Product Details



System Portfolio & Technical Features

	Sepiatec SFC-50	Sepiatec SFC-250	Sepiatec SFC-660
Mode	prep SFC	prep SFC	prep SFC
Columns			
Dimensions	4–16 mm ID, max 250 mm lengths	15–30 mm ID, max 250 mm lengths	30–50 mm ID, max 800 mm lengths
Pumps			
CO ₂ pump flow rate and pressure	Max 30 mL/min, 400 bar	Max 150 mL/min, 400 bar	Max 400 mL/min, 400 bar
Max operating pressure	400 bar	400 bar	400 bar
Total flow rate at 40 % modifier	50 mL/min	250 mL/min	660 mL/min
Detectors			
DAD wavelengths range	190–720 nm	190–720 nm	190–720 nm
DAD wavelengths selectable	8	8	8
Sample injection			
Syringe	1 mL Other volumes on request	5 mL Other volumes on request	25 mL Other volumes on request
Loop	0.5 mL	2.5 mL	10 mL
Stack injection	Standard	Standard	Standard
System controller			
Back pressure regulator	80–250 bar	80–250 bar	80–250 bar

Accessories

Add-on pump

The add-on pump is useful for separations at modifier concentrations below 10 %. The pump adds modifier to the separated sample and avoids precipitation of the sample in the gas-liquid separator.

Chiller

The chiller cools the pump heads of the CO₂ pump and is connected simultaneously to the pre-cooling and the CO₂ pump. The cooling is needed to keep the CO₂ in a liquid state.

Mass spectrometer (MS)

All Sepiatec SFC instruments can be connected with an external MS detector. Further info are given on request.

Evaporative light scattering detector (ELSD)

All Sepiatec SFC instruments can be connected with an external ELS detector. Further info are given on request.

Consumables



PrepPure
Highest performance for
prep HPLC & SFC
applications.

Phases	Silica, C18, C18WP, C4WP, C18AQ, Diol, PEI, 2-EP, Chiral phases
Particle sizes	5–15 µm
Particle shapes	Spherical
Column sizes	4.6–70 mm ID, 150 & 250 mm lengths

Chiral phases

Phase

Immobilized polysaccharides

iADMP (Amylose tris-(3,5-dimethylphenylcarbamate))

iCDMP (Cellulose tris-(3,5-dimethylphenylcarbamate))

iCDCPC (Cellulose tris-(3,5-dichlorophenylcarbamate))

Coated polysaccharides

cCDMP (Cellulose tris-(3,5-dimethylphenylcarbamate))

cADMP (Amylose tris-(3,5-dimethylphenylcarbamate))

Brush type

iBT (immobilized brush-type phase)

Freeze-Drying

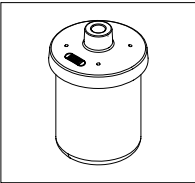
Product Details



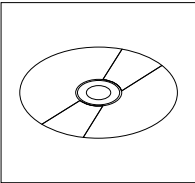
System Portfolio & Technical Features

Lyovapor Model	Condenser Capacity	Lowest Condenser Temperature	Condensing Capacity	Min. System Vacuum	Drying Shelf Temperature
L-210	6 kg	-55 °C + / - 3 °C	6 kg / 24 h	30 mTorr / 0.04 mbar	Up to 60 °C+ / -1 °C
L-250	5 kg	-85 °C + / - 2 °C	4 kg / 24 h	30 mTorr / 0.04 mbar	Up to 60 °C + / -1 °C

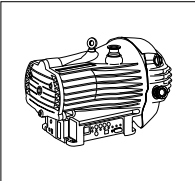
Accessories



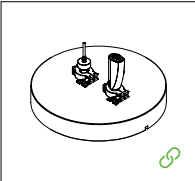
Glassware
Large variety of glassware such as beaker flasks to meet laboratory needs.



Lyovapor Software
Easy way of controlling and monitoring the Freeze-Drying process and generating reports.



Edwards Scroll Pump
Stable and high-quality vacuum pump for freeze-drying of organic solvents.



Sensors
Choice of product temperature and vacuum sensors for end point determination.

Drying Chambers

The Lyovapor™ has a large choice of drying chambers that can be used in any combination.



Acrylic chamber with heated shelves and stoppering for vial drying.



Acrylic chamber with 12 manifold top and shelves for bulk, vial and flask drying.



Acrylic chamber with heated shelves for bulk and vial drying.



Manifold with 12 or 24 for flask or beaker drying.

Spray Drying

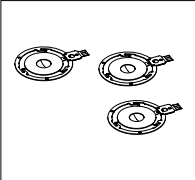
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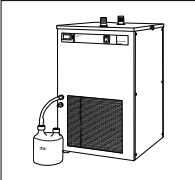
System Portfolio & Technical Features

	Nano Spray Dryer B-90 HP	Mini Spray Dryer S-300
Particle Size	200–5 µm	2–25 µm (60 µm with ultrasonic package)
Particle Nature	Dry	Dry
Particle Size Sistribution	Narrow	Broad
Max. Sample Throughput	200 mL/h	1 L/h
Min. Sample Amount	200 mg / 2 mL	5 g / 10 mL
Yield	Up to 90 %	Up to 70 %
Sample Viscosity	Up to 5 cps	Up to 300 cps
Sample Composition	Aqueous and organic solutions, suspensions or emulsions. NO acidic or alkaline.	Aqueous, organic, acidic and alkaline solutions, suspensions or emulsions. NO acidic or alkaline organic mixture.
Application	· Drying · Micronisation, agglomeration · Matrix encapsulation · Amorphous solid dispersion	

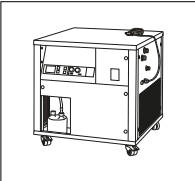
Accessories Nano Spray Dryer B-90 HP



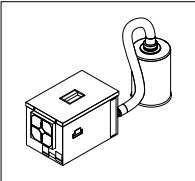
Nebulizers Set
Nebulizers in the sizes small, medium and large allow the finding of the perfect balance between small particles and high throughput (up to 200 mL/h).



Dehumidifier S-396
An efficient way to obtain constant parameters by conditioning the inlet air allowing to work with organic solvents and water mixtures in combination with the Inert Loop.

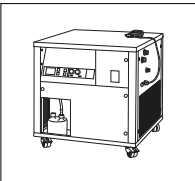


Inert Loop S-395
Used to work in closed mode, under nitrogen atmosphere with the BUCHI Spray Dryers. Furthermore it condenses the organic solvents and recirculates the nitrogen.

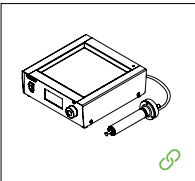


Aspirator
If no compressed air is available, the BUCHI Aspirator unit with inlet filter can be used to establish the required drying air flow rate. In “closed loop” mode, with the Nano Spray Dryer advanced, the Aspirator is required to build up the gas stream.

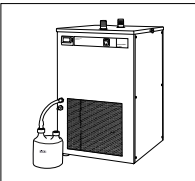
Accessories Mini Spray Dryer S-300



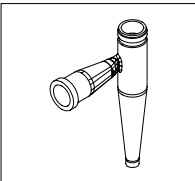
Inert Loop S-395
Used to work in closed mode, under nitrogen atmosphere with the BUCHI Spray Dryers. Furthermore it condenses the organic solvents and recirculates the nitrogen.



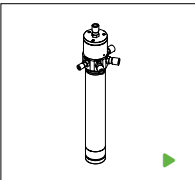
Ultrasonic Package
Allows the Mini Spray Dryer to produce particles in the size range from 10–60 µm.



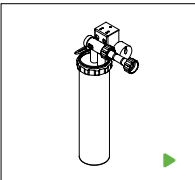
Dehumidifier
An efficient way to obtain constant parameters by conditioning the inlet air allowing you to work with organic solvents and water mixtures in combination with the Inert Loop.



High Performance Cyclone
Specially optimized to collect small particles in high yields from the Mini Spray Dryer.



Two-fluid nozzle
The two fluid nozzle equipped with an effective nozzle cleaning mechanism and a ruby stone to guarantee reproducibility offers a high degree of flexibility.



Outlet filter
Collects the residual particles from the cyclone and protects the user, the environment and the instrument. Available with a polyester deep filter and a PTFE filter membrane. Recommended for all Mini Spray Dryers.

Prilling by Vibration

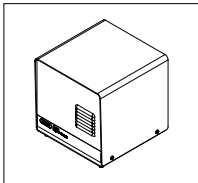
Product Details



System Portfolio & Technical Features

Encapsulator B-390 / 395 Pro 	
Particle Size	150–2000 µmm
Particle Nature	Wet (hydrogel beads / capsules)
Particle Size Distribution	Uniform
Max. Sample Throughput	600 mL/h
Min. Sample Amount	5 mL
Yield	Up to 100 %
Sample Viscosity	Up to 300 cps
Sample Composition	· Aqueous
	· Organic solutions, suspensions or emulsions
	· Wax / melt
Application	· Agglomeration
	· Matrix encapsulation
	· Liquid core encapsulation

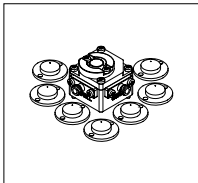
Accessories



Dry Air Supply Cpl.
Brings dry and clean air to work with pressure bottle on the Encapsulator.



Alginate Powder
The alginate is tested for microencapsulation procedures and will make your lab work more reproducible.



Concentric Nozzle
Used for the core-shell capsule production. Includes a pulsation chamber plus a set of 7 external nozzles with high precision opening of 0.2, 0.3, 0.4, 0.5, 0.6, 0.7 and 0.9 mm.

Melting Point

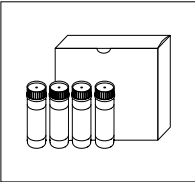
Product Details



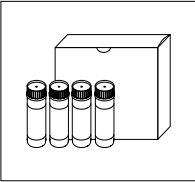
System Portfolio & Technical Features

Melting Point Model	Compliant with Pharmacopeia Methods	Automatic Detection	Sample Loader
M-560	Yes	No	No
M-565	Yes	Yes	No
M-565 + Sample Loader M-569	Yes	Yes	Yes

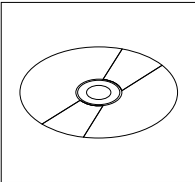
Accessories



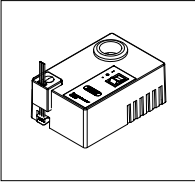
Verification Kit
Kit of three BUCHI certified standards for verification of the Melting Point M-560 and M-565.



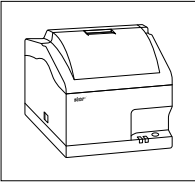
Calibration Kit
Kit of four BUCHI certified standards for calibration of the Melting Point M-560 and M-565.



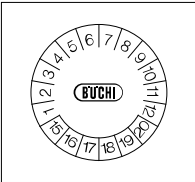
MeltingPoint Monitor Software with License
Software CD, Tutorial and single PC license. For installation under Windows 7 Professional / Enterprise / Ultimate (32-bit or 64-bit, SP1), Windows 8.1 Professional / Enterprise (64-bit), Windows 10 Professional / Enterprise (64-bit).



Sample Loader
Instrument for fast and efficient loading of samples into melting point capillaries.

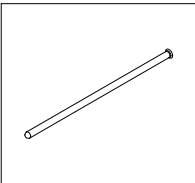


Printer and Keyboard
For documenting calibration results and melting and boiling point determinations and convenient straightforward input of parameters.

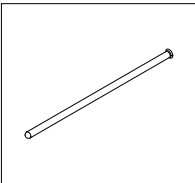


IQ/OQ Documentation
Installation / Operational Qualifications documentation.

Consumables



Melting Point Capillaries
The precision glass capillaries ensure highly reproducible melting point determinations.



Boiling Point Tube A Boiling Point Capillary B
The precision capillaries B generate perfect gas bubbles within tube A for reproducible boiling point determinations.

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

