

ITEM OPPORTUNITY SYNOPSIS

Name of the item to be scouted: System and accessories equivalent to SyncorePlus Analyst System

State item to be used in: North Carolina

Describe the Item:

Please describe the item application/the end use of item. This system is used for large volume (300-1000 mL) evaporation of organic solvents from sample extracts. The instrument can evaporate the solvent from up to 12 samples simultaneously which is a requirement due to the large number of samples to be processed.

Supplier Information:

Type of Supplier being sought (select from list below)

Manufacturer

Contract Manufacturer

Distributor

Other (please specify)

Reason for scouting submission (select from list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

Other (please specify) BABA

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible). See the attached manufacturer technical specifications and brochure.

Provide dimensions / size / tolerances / performance specifications of the item. See attached brochure and technical specifications. (pp 16-19)

List required materials needed to make the product, including materials of product components, if applicable. Metals and plastics. See attached technical specifications.

Are there applicable certification requirements?

Yes

No

Please Explain: UL

Are there any applicable regulations that apply to the production of this item?

Yes

No

Please Explain: All certifications for laboratory equipment to be utilized in the United States are applicable.

Are there any other standards, requirements?

Yes

No

Please Explain: All certifications for laboratory equipment to be utilized in the United States are applicable.

Additional Comments:

Additional technical comments: The unit must be able to evaporate large volumes (300-1000 mL) of organic solvents from sample extracts. The instrument must evaporate the solvent from up to 12 samples simultaneously. All certifications for laboratory equipment to be utilized in the United States are applicable. All components used for solvent extraction made from selected low-extractable materials and certified as usable for polyfluoroalkyl substances (PFAS) samples.

Volume and Pricing:

Estimated Potential Business Volume (i.e. #Units per day, month, year): 1-time purchase for 1 solvent evaporator.

Estimated Target Price / Unit Cost Information: \$49,126 for system, consumables, and installation.

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc) Immediate

Describe packaging requirements (i.e., individually/ group packaging). As required by the manufacturer

Where will this item be shipped? US EPA 109 T.W. Alexander Drive Research Triangle Park, NC 27709

Additional Comments:

Is there other information you would like to include? 1. Vendor/company must be registered or will to register in SAM.gov (<https://sam.gov/content/home>). 2. This inquiry does not guarantee award of a contract. 3. This acquisition is not intended to include funding for investments needed to retool production facilities. 4. The EPA's need is for an item immediately available in the commercial marketplace due to mission requirements.



Parallel Evaporation Solutions
Automate your workflow



Parallel Evaporation Solutions

From market creator to market leader

BUCHI was the first company to commercialize the rotary evaporator in 1957. For over 60 years, we have continued to innovate and deliver market-leading solutions for the evaporation of solvents. We have built a vast user base in this time and developed a strong reputation for reliable instruments, state-of-the-art solutions, and personalized application support. With our automated parallel evaporation instruments, BUCHI continues to improve with the most efficient, sustainable, and safe solutions for parallel solvent evaporation.



Automated solutions

Boost efficiency

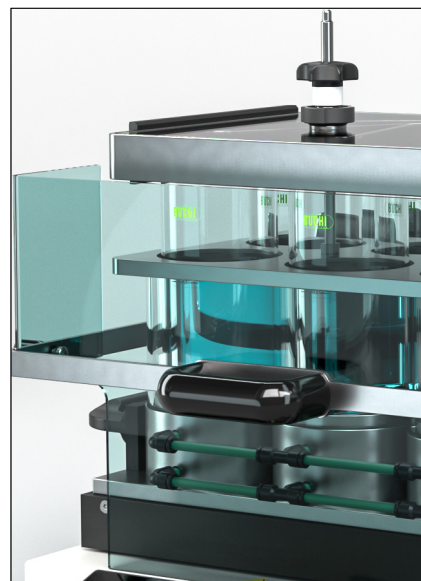
We offer advanced automation features for increased productivity and cost-effectiveness. Increase throughput and maximize efficiency with our innovative instruments that allow processing of up to 96 samples in parallel.



Green solutions

Sustainable and fast

Our parallel evaporation solutions increase analyte and solvent recovery efficiently and sustainably, saving both time and money. Solvent recycling is optimized with zero nitrogen consumption, which protects the environment and enhances sustainability.



Safe solutions

Highest analytical standards

Improved safety features such as sealing, an automated process, and cooled appendix will protect you and your analytes. These features help optimize analyte recoveries and safeguard your analyte from heat damage.

Applications to fit your needs

Meeting the demands of your industry

Our latest parallel evaporation instruments are truly modern industry solutions. Increased automation and the ability to process multiple samples in parallel increases efficiency, accuracy, safety, and limits repetition. Designed with versatility and reliability in mind, both SyncorePlus and Multivapor™ are parallel evaporation workhorses that can fit into any workflow.

Environmental Analysis



Concentrate your samples quickly and efficiently in order to accurately monitor pollutant levels in the environment.

Testing



Achieve the highest sample throughput and increase safety to reduce processing time and costs.

| | | |
|-------------|---|---|
| Application | <ul style="list-style-type: none"> · Concentration · Solid phase extraction | <ul style="list-style-type: none"> · Concentration · Solid phase extraction · Evaporate to dryness |
| Sample | Soil, sludge, water, waste | Soil, sludge, water, waste |
| Analyte | PAH, PFC, TPH, POP PCDD/PCDF, PCB, pesticides, herbicides | SVOC, PCB, PAH, PCDD/PCDF, PCB pesticides |
| Solution: | SyncorePlus Analyst «Pre-Analytical» | |

SyncorePlus Polyvap «Throughput»

Multivapor™ «Essential»

Food/Beverage



Use the most advanced parallel evaporation processes for quality assurance and the development of ingredients.

- Concentration
- Solid phase extraction
- Evaporate to dryness

Water, seafood, meat, dairy

PCB, pesticides, ethyl carbamate

Chemical



Streamline your quality control and research and development workflows by preparing multiple samples simultaneously.

- Concentration
- Evaporate to dryness

Textiles, plastics, petrochemicals

Azo dyes, plasticizers, oil, grease

Pharmaceutical



Ensure the highest levels of quality control and safety in the development of new compounds.

- Evaporate to dryness

Drugs

API

SyncorePlus Analyst «Pre-Analytical»

SyncorePlus Polyvap «Throughput»

Multivapor™ «Essential»



Parallel Evaporation Procedure

Streamline your workflow

Whatever the application, we offer solutions to increase your sample throughput and meet your needs. No matter the amount or volume of your sample or whether you want to concentrate or evaporate to dryness, BUCHI has the appropriate solution at hand.

| | | | |
|-------------------------------------|---|---|--|
| Steps before evaporation | Sampling, Synthesis, Extraction, Purification or Solid Phase Extraction | | |
| Parallel evaporation step | Parallel Evaporation | | |
| Application | Concentration to a predefined residual volume of 0.3, 1 or 3 mL | Drying or evaporation | Drying or evaporation |
| Number of samples | Multiple samples 4, 6 or 12 | Multiple samples 4 up to 96 | Multiple samples 6 up to 12 |
| Sample volume Minimum Maximum | 5 mL 500 mL | 0.5 mL 500 mL | 0.5 mL 240 mL |
| Degree of automation | ... | ... | • |
| Evaporation performance | ... | ... | •• |
| Solutions by BUCHI | SyncorePlus Analyst «Pre-Analytical» p. 11 | SyncorePlus Polyvap «Throughput» p. 13 | Multivapor™ «Essential» p. 15 |
| Steps after evaporation | Analysis | | Purification |



SyncorePlus

Synchronized sample solutions

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

Analyst: specially designed to evaporate samples to a specified volume as a pre-analytical step.

Polyvap: explicitly created with increased sample throughput in mind.

Each of our SyncorePlus instruments benefits from advanced automation, gentle evaporation conditions, and enhanced safety features.



Start and walk away

SyncorePlus is fully automated and easy to use, allowing you to proceed with other tasks while it gets on with the job at hand.

Process automation ensures the highest analytical precision and safety standards.



Gentle evaporation conditions

Perform a fast and gentle evaporation process with vacuum-vortex evaporation that ensures the protection of volatile and heat-sensitive analytes, even when using high boiling point solvents such as water, DMSO, or DMF. Decreasing pressure to reduce the boiling point improves energy efficiency.



Safe and environmentally friendly

Our sophisticated condenser system and highly efficient peripheral instruments ensure the safety of users and the environment.

The secondary condenser prevents vapor from leaking into the atmosphere.

Full automation with the Interface I-300 Pro

The unique interface for numerous peripheral evaporation instruments from BUCHI.

- Specify evaporation methods
- Predefine specific solvents
- Achieve high analytical precision
- Ensure a safe process
- Simplify your workflow
- Start the process and walk away





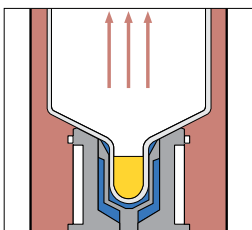
SyncorePlus Analyst «Pre-Analytical»

Flexible, sustainable, and efficient



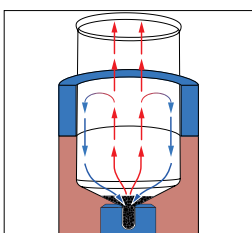
Flexibility & Adaptability

We designed SyncorePlus Analyst to accommodate your specific workflow and sample requirements. Safely and efficiently concentrate up to 12 samples to a predefined residual volume, ranging from 0.3 mL, 1 mL, to 3 mL per sample. With interchangeable racks and a wide range of accessories, create the perfect system for your needs.



Intelligent design for sustainability & safety

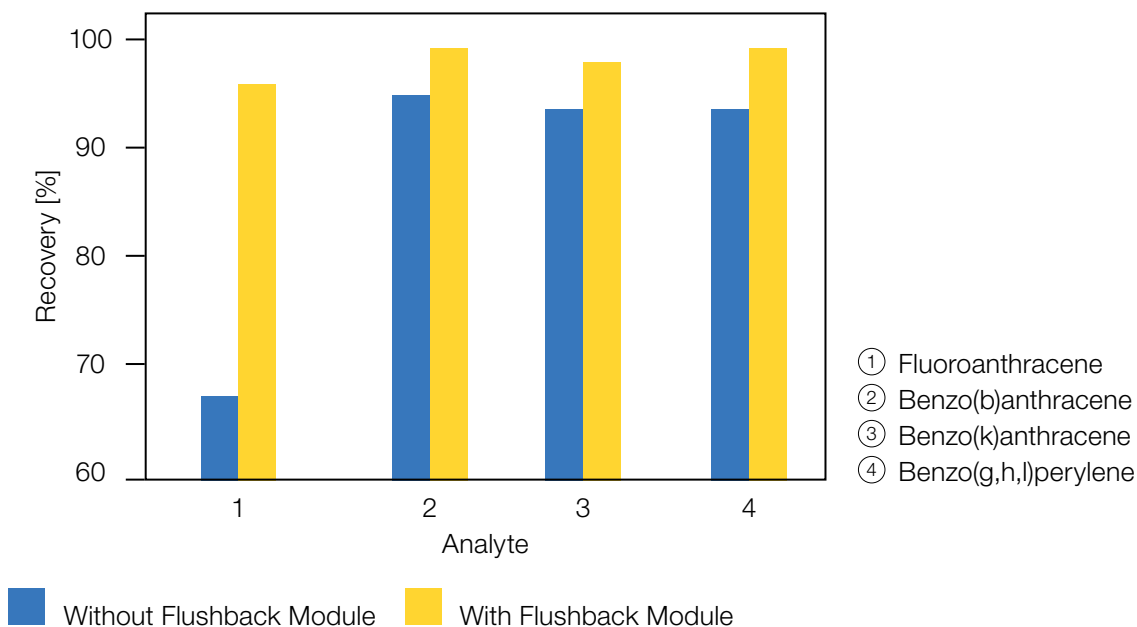
Intelligent design ensures recoveries and enhances sustainability and safety. Individual sample sealing and the use of inert materials inhibit cross-contamination. Additionally, a cooled appendix protects heat-sensitive analytes. This unique design ensures safety, with no loss of volatile compounds.



Enhance your efficiency

Making use of our Flushback Module will enable you to achieve the highest analyte recoveries and most reliable results. The Flushback Module for the R-6 and R-12 rack improves recovery rates by flushing back analyte that adheres to the glass walls with condensed vapor during the evaporation process. An additional Crystal Rack is available for the R-4 and R-6 racks that make the entire evaporation process completely observable.

Higher recovery rates achieved with the Flushback Module





SyncorePlus Polyvap «Throughput»

Maximize productivity



Interchangeable racks

We offer a broad selection of racks to accommodate any workflow or throughput; from our specially designed Crystal Racks that come in four or six positions and provide full visibility of the sample during evaporation; to our EasyFill Racks that come in 12, 24, 48, and 96 positions. Increase productivity, save energy and reduce costs with our numerous parallel evaporation solutions.



Volume versatility

Our instruments can accommodate BUCHI's Polyvap glass tubes of all sizes in 4, 6, and 12 rack positions with working volumes ranging from 0.5 mL to 500 mL. Additionally, third party test tubes are compatible with our 24, 48, and 96 position racks. Thanks to its vacuum vortex technology, our SyncorePlus Polyvap «Throughput» significantly improves sample throughput gently and economically.



Materials matter

All relevant parts of the SyncorePlus take advantage of the highest quality materials. Borosilicate glass was chosen for its low coefficients of thermal expansion. PTFE, for its hydrophobic properties as well as its high density; and EPDM for its resistance to heat. These materials are chemically inert and also resistant to all sorts of aggressive chemicals, most organic solvents, petrochemicals, and oils.

Example evaporation rates for SyncorePlus Polyvap

SyncorePlus R-12 Polyvap, V-300, F-305, starting volume 100 mL/position (total 1200 mL)

Conditions: Base = 60°C, Cover = 50°C, F-305 = 10°C, rotation speed 300 rpm

| Solvent | Time to dryness [min] | Evaporation rate per position [mL/h] | Rate overall [mL/h] |
|-----------------------|-----------------------|--------------------------------------|---------------------|
| Acetone | 50 | 121 | 1452 |
| Dichloromethane (DCM) | 52 | 115 | 1375 |
| Ethanol | 82 | 73 | 880 |
| Ethyl acetate | 43 | 138 | 1656 |
| n-Hexane | 31 | 192 | 2302 |
| Methanol | 101 | 60 | 716 |
| Toluene | 43 | 138 | 1660 |
| Water | 273 | 22 | 271 |

Streamline your workflow



Pressurized solvent extraction with SpeedExtractor



Sample transfer from SpeedExtractor to Multivapor™



Solvent evaporation on Multivapor™

Supports PSE (ASE) collection vessels, pooled or non-pooled samples from chromatography, and Radleys Carousell reaction samples.



Multivapor™ «Essential»

Efficient evaporation for multiple samples



Optimize your performance

The Multivapor™ requires little training due to its smooth and intuitive operation. Tailored to maximize efficiency and safety as you no longer have to transfer samples between vessels manually.



Ready to adapt

The Multivapor™, designed to fit into any lab, is compatible with a wide range of sample tubes. Save time and minimize steps by using your existing glassware with one of our numerous vessel-specific adapters. For the complete list of adapters, please refer to our adapter guide.

| Vessel specification | Multivapor P-6 | Multivapor P-12 |
|----------------------|----------------|-----------------|
| Number of samples | 6 | 12 |
| Working volume | up to 240 mL | up to 60 mL |
| Max. outer diameter | 14 – 58 mm | 14 – 30 mm |
| Max. length | 70 – 150 mm | 70 – 150 mm |



Product overview

The best solution for your needs



Needs/Solution

Multivapor™

SyncorePlus

Application

P-6 / P-12
Essential

Polyvap
Throughput

Analyst
Pre-Analytical

Evaporation

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•

•

Drying

•

•

•

Concentration

–

–

•

Solid Phase Extraction
(SPE)

–

•

•

Characteristics

Automation

•

• • •

• • •

Vessel types

adaptable

fix

fix

Number of samples

6 / 12

4 / 6 / 12 / 24 /
48 / 96

4 / 6 / 12

Temperature range

30 - 100 °C

30 - 100 °C

30 - 100 °C

Working volume

0.5 - 240 mL

0.5 - 500 mL

5 - 500 mL

Flushback module

–

•

•

Inert condition

–

•

•



| Available in a bundle | Vacuum Pump | Interface | | Chiller | |
|-----------------------|-------------|-----------|-----------|---------|-------|
| | V-300 | I-300 | I-300 Pro | F-305 | F-308 |
| Multivapor™ | • | • | • | – | – |
| SyncorePlus | • | – | • | • | • |

Characteristics

| | | | | | |
|--------------------------|----------|---|---|-------------|-------|
| Temperature range | – | – | – | -10 - 25 °C | |
| Cooling capacity @ 15 °C | – | – | – | 550 W | 900 W |
| Suction capacity | 1.8 m³/h | | – | – | – |
| Final vacuum | < 5 mbar | | – | – | – |
| Solvent library | – | • | • | – | – |
| Vacuum gradient | – | – | • | – | – |

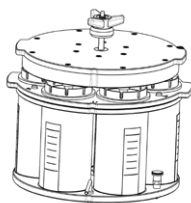


| Compatible products | Vacuum Pump | Chiller |
|--------------------------|-------------|-------------|
| | V-600 | F-314 |
| Temperature range | – | -10 - 25 °C |
| Cooling capacity @ 15 °C | – | 1400 W |
| Suction capacity | 3.1 m³/h | – |
| Final vacuum | 1.5 mbar | – |

Accessories

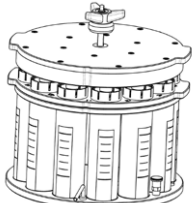
Multivapor™

P-6



| | |
|------------------|----------|
| Evaporation Unit | 11058090 |
| Rotavapor® setup | 048740 |

P-12



| | |
|------------------|----------|
| Evaporation Unit | 11058092 |
| Rotavapor® setup | 048740 |

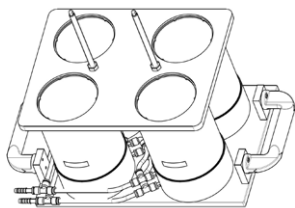
Adapters



| |
|-------------------------------|
| See Multivapor™ Adapter Guide |
|-------------------------------|

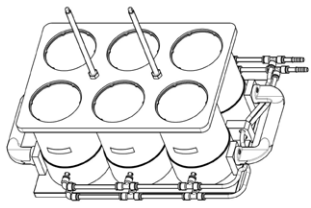
SyncorePlus Analyst

Crystal Rack R-4



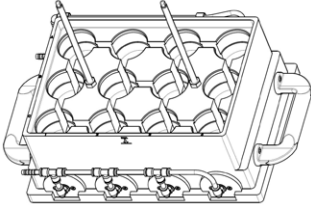
| | | |
|-------|--------|--------|
| Rack | | 047794 |
| Tubes | 3.0 mL | 047740 |
| | 1.0 mL | 047741 |
| | 0.3 mL | 047742 |
| Cover | | 038245 |

Crystal Rack R-6



| | | |
|------------------|--------|--------|
| Rack | | 047777 |
| Tubes | 3.0 mL | 038557 |
| | 1.0 mL | 038575 |
| | 0.3 mL | 038168 |
| Cover | | 038246 |
| Flushback Module | | 048654 |

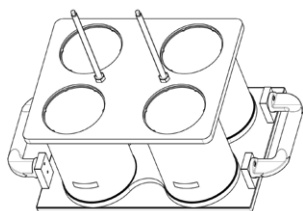
EasyFill Rack R-12



| | | |
|------------------|--------|--------|
| Rack | | 046000 |
| Tubes | 3.0 mL | 046070 |
| | 1.0 mL | 046071 |
| | 0.3 mL | 046072 |
| Cover | | 040910 |
| Flushback Module | | 046036 |

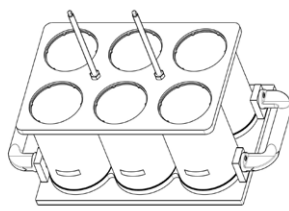
SyncorePlus Polyvap

Crystal Rack R-4



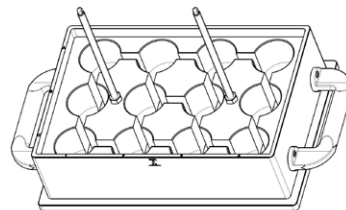
| | |
|-------|--------|
| Rack | 047790 |
| Tubes | 038487 |
| Cover | 038245 |

Crystal Rack R-6



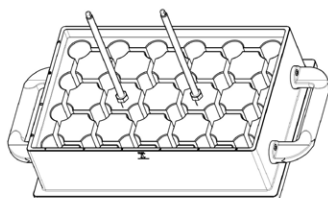
| | |
|-------|--------|
| Rack | 047770 |
| Tubes | 038486 |
| Cover | 038246 |

EasyFill Rack R-12



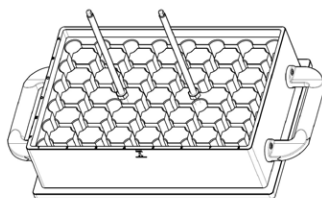
| | |
|-------|--------|
| Rack | 040900 |
| Tubes | 040907 |
| Cover | 040910 |

EasyFill Rack R-24



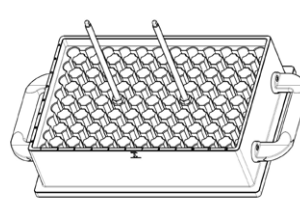
| | | |
|-------|---------------|-------------|
| Rack | | 042660 |
| Tubes | Falcon Tubes | third party |
| | PSE/ASE Vials | 049535 |
| Cover | | 040920 |

EasyFill Rack R-48



| | |
|-------|--------|
| Rack | 042855 |
| Tubes | 042845 |
| Cover | 042850 |

EasyFill Rack R-96

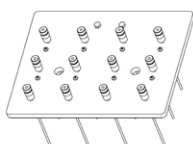


| | |
|-------|--------|
| Rack | 038277 |
| Tubes | 038543 |
| Cover | 040930 |

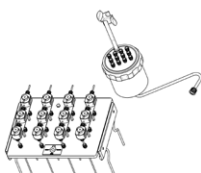
SyncorePlus SPE

Module

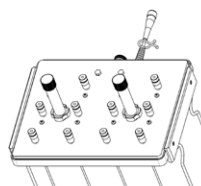
Cover



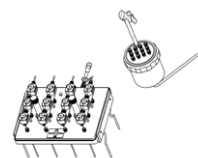
Basic



Advanced



Basic



Advanced

| | | | | |
|------|--------|----------|--------|----------|
| R-6 | - | 11055465 | - | 11055466 |
| R-12 | 051440 | 051164 | 051438 | 051448 |
| R-24 | 051463 | - | 051439 | 11062933 |



Service & Training

BUCHI Service packages

BUCHI START – The highest efficiency from the very beginning

From professional installation to a carefree agreement that will leave you with full cost predictability and the highest possible system efficiency. www.buchi.com/start

«Install»

- Product installation and testing
- Hands-on training from a certified technician
- Evaluation of the immediate surroundings of your new product
- Best integration of your new product into the existing infrastructure

«IQ/OQ»

- Product or system installation
- Installation and Operational Qualification

BUCHI EXACT – Certified accuracy for the highest level of confidence

Receive comprehensive qualifications with all of your BUCHI products. We perform qualification services on a level that can only be achieved by the manufacturer. www.buchi.com/exact

«OQ»

- Our one-time OQ service will provide you with all the necessary documents and certificates.
- The service team will remind you about the option for a follow-up OQ before the certificates expire.

«OQ Circle»

Buying an OQ package will grant you an additional discount on the documents and offer you priority service with automated visit scheduling.

BUCHI CARE – Unbeatable Reliability

Maintaining a heavily used device requires different parts and inspection frequencies than units that are operated occasionally. Our approach considers factors like these to provide you with an optimal yet cost-efficient solution. www.buchi.com/care

BUCHI ACADEMY – Increase your know-how, get the edge over your competition

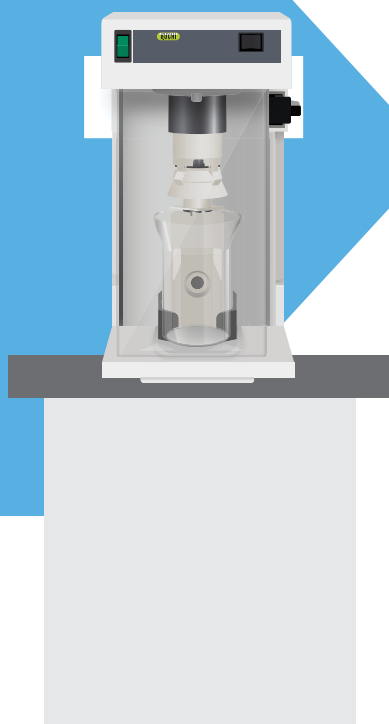
Expert know-how is provided by the application chemists in our competence centers in Flawil, Beijing, and Mumbai and the locally available experts at our market organizations.

Our scientific support offers pre-sales feasibility studies, tailored solution offers, after-sales onsite support, regular basic to advanced courses, and on-demand customized training.

www.buchi.com/academy

Complete your portfolio

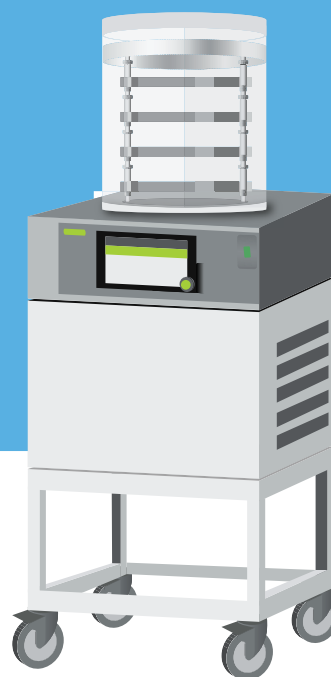
Homogenization



Mixer

The Mixer B-400 combines optimal homogenization efficiency with simple operation. It is an essential tool for sample preparation within your analysis process chain.

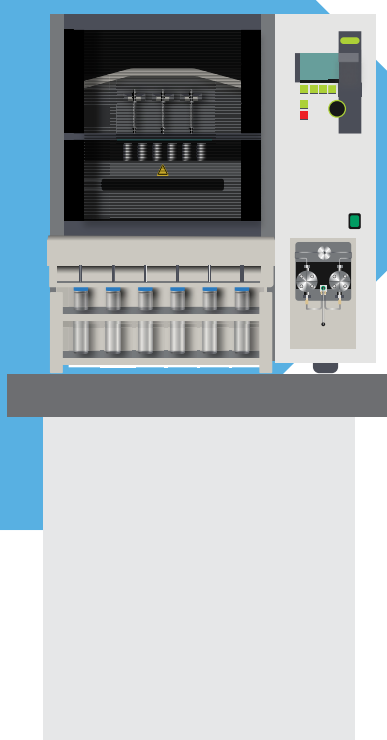
Drying



Freeze Drying

The compact Lyovapor™ L-200 offers high-quality Freeze Drying (-55 °C, 6 kg) with a high level of automation. Infinite-Control™ includes easy method creation, method running, data logging, chart recording in real-time, and interruption if needed from anywhere at any time.

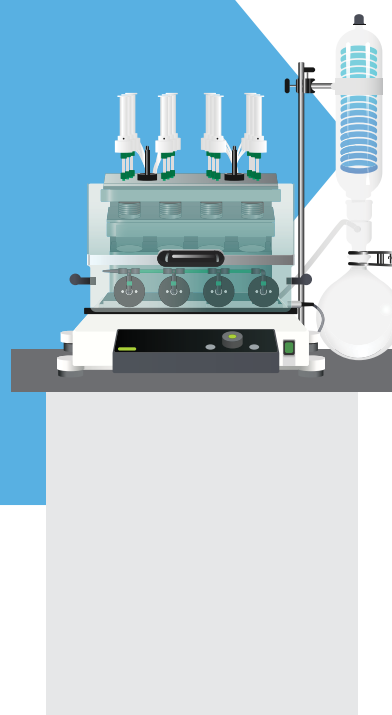
Extraction



Extraction

The SpeedExtractor is your best solution for fast Pressurized Solvent Extraction (PSE). Increase productivity by processing up to 6 samples in parallel. Streamline the workflow of your sample preparation thanks to ease of sample loading and ready-to-use extract collection.

Solid Phase Extraction/ Evaporation



Parallel Evaporation

Our specially designed SyncorePlus parallel evaporation instruments can evaporate samples to a specified volume (Analyst) or handle explicitly created with increased sample throughput (Polyvap). The SyncorePlus SPE combines evaporation and conventional solid-phase extraction (SPE) - an essential step in many analytical procedures - in one device.

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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F +41 71 394 64 64
info@buchi.com

www.buchi.com

Quality in your hands

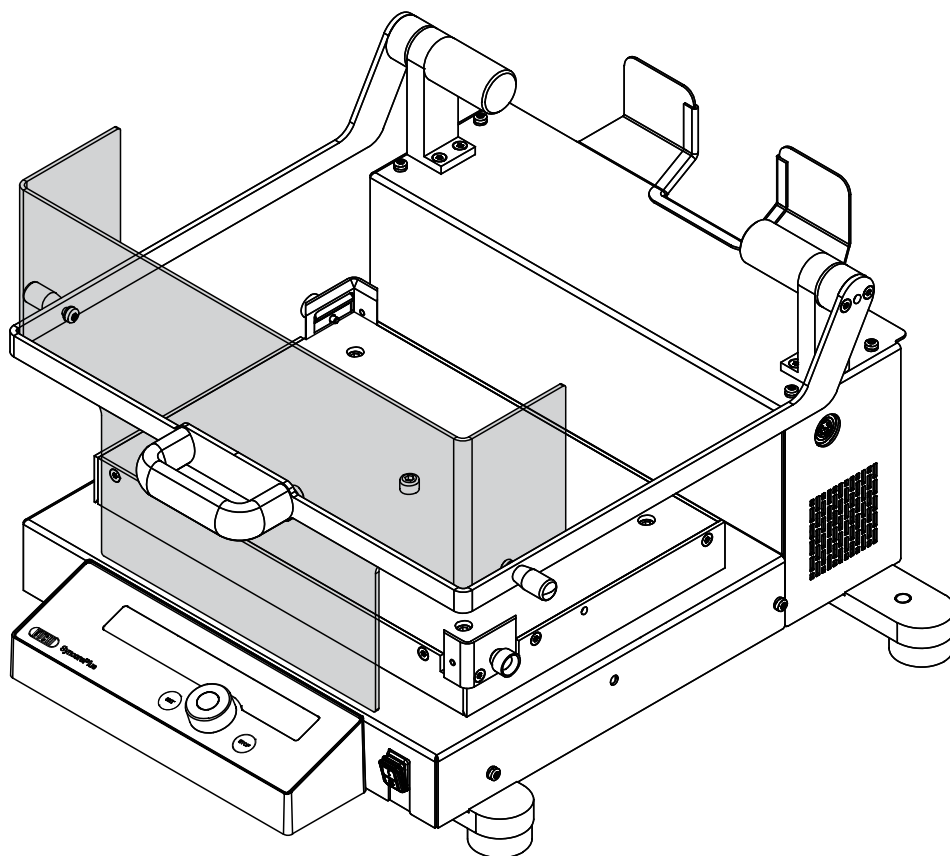




SyncorePlus

Technical data sheet

With the SyncorePlus BUCHI is offering a solution for a fast, gentle and environment-friendly multiple sample concentration to a predefined volume. Thanks to the orbital vortex movement, the water chilled appendix, individual sealing and a heatable cover, cross-contamination can be inhibited and recoveries can be maximized. Profit from a verified solution including vacuum pump, vacuum controller and recirculating chiller to get even more advantage for your sample workup in an fully automated way.



Order code SyncorePlus Analyst

Choose the configuration according to your needs:



Rack (incl. vacuum cover)

0 No Rack (no glass tubes selectable)

1 Crystal Rack R-4 Analyst

2 Crystal Rack R-6 Analyst

3 EasyFill R-12 Analyst

Glass tubes with appendix

0 No tubes

1 1.0 mL (with related rack only)

2 0.3 mL (with related rack only)

3 3.0 mL (with related rack only)

Condenser unit

0 No condenser

S Type S, Standard

Voltage

0 230 V / 50/60 Hz

1 115 V / 50/60 Hz

2 100 V / 50/60 Hz

Order code SyncorePlus Polyvap

Choose the configuration according to your needs:

1 1 Q P   **0 0 0** 

Rack (incl. vacuum cover / glass tubes)

- 0 No Rack
- 1 Crystal Rack R-4 Polyvap
- 2 Crystal Rack R-6 Polyvap
- 3 EasyFill R-12 Polyvap
- 4 EasyFill R-24 Polyvap
- 5 EasyFill R-24 Falcon
- 6 EasyFill R-24 PSE/ASE
- 7 EasyFill R-48 Polyvap
- 8 EasyFill R-96 Polyvap

Condenser unit

- 0 No condenser
- S Type S, Standard

Voltage

- 0 230 V 50/60 Hz
- 1 115 V 50/60 Hz
- 2 100 V 50/60 Hz

Order code SyncorePlus Analyst Systems

Choose the configuration according to your needs:

1 1 S Q A    **0 0**   

Rack (incl. vacuum cover)

- 0 No Rack (no glass tubes selectable)
- 1 Crystal Rack R-4 Analyst
- 2 Crystal Rack R-6 Analyst
- 3 EasyFill R-12 Analyst

Glass tubes with appendix

- 0 No tubes
- 1 1.0 mL (with related rack only)
- 2 0.3 mL (with related rack only)
- 3 3.0 mL (with related rack only)

Condenser unit

- 0 No condenser
- S Type S, Standard

Vacuum & Interface

- 0 No vacuum & interface
- 1 V-300 with secondary condenser & I-300 Pro
- 2 I-300 Pro (incl. VacuBox, valve, WB, for house vacuum)

Recirculating Chiller

- 0 No chiller
- 1 Recirculating chiller F-305
- 2 Recirculating chiller F-308

Voltage

- 0 230 V / 50/60 Hz
- 1 115 V / 50/60 Hz
- 2 100 V / 50/60 Hz

Order code SyncorePlus Polyvap Systems

Choose the configuration according to your needs:

1 1 S Q P   **0 0 0**   

Rack (incl. vacuum cover / glass tubes)

- 0 No Rack
- 1 Crystal Rack R-4 Polyvap
- 2 Crystal Rack R-6 Polyvap
- 3 EasyFill R-12 Polyvap
- 4 EasyFill R-24 Polyvap
- 5 EasyFill R-24 Falcon
- 6 EasyFill R-24 PSE/ASE
- 7 EasyFill R-48 Polyvap
- 8 EasyFill R-96 Polyvap

Condenser unit

- 0 No condenser
- S Type S, Standard

Vacuum & Interface

- 0 No vacuum & interface
- 1 V-300 with secondary condenser & I-300 Pro
- 2 I-300 Pro (incl. VacuBox, valve, WB, for house vacuum)

Recirculating chiller

- 0 No Chiller
- 1 Recirculating chiller F-305
- 2 Recirculating chiller F-308

Voltage

- 0 230 V 50/60 Hz
- 1 115 V 50/60 Hz
- 2 100 V 50/60 Hz

Scope of delivery

All configurations are supplied ready to use.

| | SyncorePlus |
|----------------------|-------------|
| SyncorePlus platform | 1 |
| Condenser unit | 1* |
| Rack | 1* |
| Heater cover | 1* |
| Tubes | 1* |
| Power cord | |
| Vacuum tubing | |
| Cooling water tubing | |

*According to the order code

Technical data

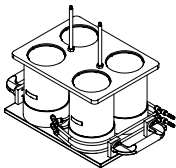
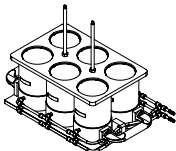
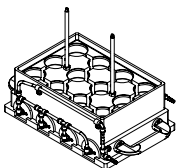
SyncorePlus

| | SyncorePlus 100 V | SyncorePlus 115 V | SyncorePlus 230 V |
|--|-----------------------|-----------------------|-----------------------|
| Dimensions (W x D x H) (main unit) | 500 x 520 x 325 mm | 500 x 520 x 325 mm | 500 x 520 x 325 mm |
| Weight (main unit) | 30 kg | 30 kg | 30 kg |
| Minimum clearance left & right | 150 mm | 150 mm | 150 mm |
| Minimum clearance back | 80 mm | 80 mm | 80 mm |
| Connection voltage | 100 ± 10 % VAC | 115 ± 10 % VAC | 230 ± 10 % VAC |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Power consumption | 1250 W | 1250 W | 1400 W |
| Power consumption heater cover | 120 W | 120 W | 120 W |
| Rotation speed range | 60 - 400 rpm | 60 - 400 rpm | 60 - 400 rpm |
| Temperature range heater cover | 20 - 70 °C | 20 - 70 °C | 20 - 70 °C |
| Temperature range heater base | 20 - 100 °C | 20 - 100 °C | 20 - 100 °C |
| Temperature accuracy at 100 °C | +/- 1°C | +/- 1°C | +/- 1°C |
| Temperature accuracy at 120 °C (Service test) | +/- 2 °C | +/- 2 °C | +/- 2 °C |
| Fuse (100 / 115 V) | SPT 12.5 | SPT 12.5 | FST 10 |
| Connections external valves (MiniDIN) | 24 V ± 5 % | 24 V ± 5 % | 24 V ± 5 % |
| Connections communication (COM) | 30 V ± 5 % | 30 V ± 5 % | 30 V ± 5 % |
| Overvoltage category | II | II | II |
| IP Code | IP 20 | IP 20 | IP 20 |
| Pollution degree | 2 | 2 | 2 |
| Approvals | CE/CB | CE/CB | CE/CB |

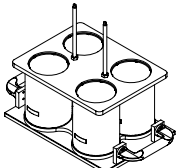
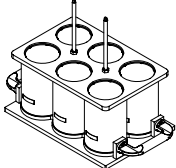
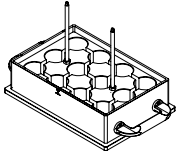
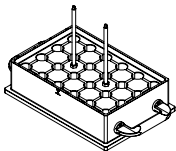
Spare parts and accessories

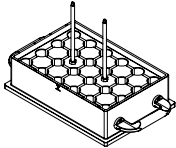
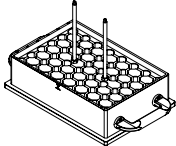
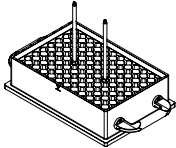
Racks

Analyst racks

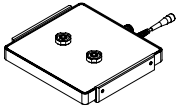
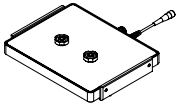
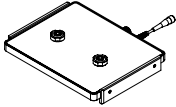
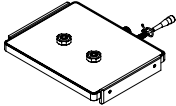
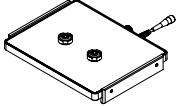
| | Order no. | Image |
|---|-----------|---|
| Crystal Rack R-4 Analyst with residual volume cooling For a maximum working volume of up to 4 x 500 mL, without glass tubes | 047794 |  |
| Crystal Rack R-6 Analyst with residual volume cooling For a maximum working volume of up to 6 x 250 mL, without glass tubes | 047777 |  |
| EasyFill Rack R-12 Analyst with residual volume cooling For a maximum working volume of up to 12 x 120 mL, without glass tubes | 046000 |  |

Polyvap racks

| | Order no. | Image |
|---|-----------|---|
| Crystal Rack R-4 Polyvap For working volumes of up to 4 x 500 mL | 047790 |  |
| Crystal Rack R-6 Polyvap For working volumes of up to 6 x 250 mL | 047770 |  |
| EasyFill Rack R-12 Polyvap For working volumes of up to 12 x 120 mL, without glass tubes | 040900 |  |
| EasyFill Rack R-24 Polyvap For working volumes of up to 24 x 30 mL, without glass tubes | 038188 |  |

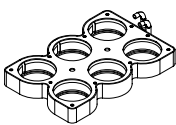
| | Order no. | Image |
|--|-----------|---|
| EasyFill Rack R-24 Polyvap PSE/ASE vials with OD = 27 mm For working volumes of up to 24 x 60 mL, without glass tubes | 042660 |  |
| EasyFill Rack R-48 Polyvap For working volumes of up to 48 x 20 mL | 042855 |  |
| EasyFill Rack R-96 Polyvap For working volumes of up to 96 x 10 mL, without glass tubes | 038277 |  |

Cover

| | Order no. | Image |
|---|-----------|---|
| Vacuum Cover R-4 with PTFE sealing disks Actively heated vacuum cover with individual sample connection | 038245 |  |
| Vacuum Cover R-6 with PTFE sealing disks Actively heated vacuum cover with individual sample connection | 038246 |  |
| Vacuum Cover R-12 with PTFE sealing disks Actively heated vacuum cover with individual sample connection | 040910 |  |
| Vacuum Cover R-24 with PE sealing disks Actively heated vacuum cover with individual sample connection | 040920 |  |
| Vacuum Cover R-48 with PE sealing disks Actively heated vacuum cover with individual sample connection | 042850 |  |

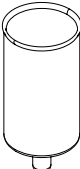
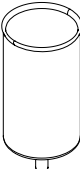
| | Order no. | Image |
|---|-----------|---|
| Vacuum Cover R-96 with PE sealing disks Actively heated vacuum cover with individual sample connection | 040930 |  |

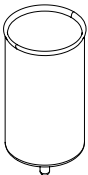

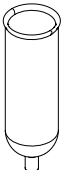

Flushback Module

| | Order no. | Image |
|---|-----------|---|
| Flushback Module R-6 For higher recovery rates in combination with Crystal rack R-6 Analyst | 048654 |  |
| Flushback Module R-12 For higher recovery rates in combination with EasyFill rack R-12 Analyst | 046036 |  |

Tubes

Analyst tubes

| | Order no. | Image |
|---|-----------|---|
| Set of 4 graduated glass tubes for Crystal rack R-4 Analyst, residual volume 3.0 mL Working volume up to 500 mL | 047740 | |
| Set of 4 graduated glass tubes for Crystal rack R-4 Analyst, residual volume 1.0 mL Working volume up to 500 mL | 047741 | |
| Set of 4 graduated glass tubes for Crystal rack R-4 Analyst, residual volume 0.3 mL Working volume up to 500 mL | 047742 | |
| Set of 6 graduated glass tubes for Crystal rack R-6 Analyst, residual volume 3.0 mL Working volume up to 250 mL | 038557 |  |
| Set of 6 graduated glass tubes for Crystal rack R-6 Analyst, residual volume 1.0 mL Working volume up to 250 mL | 038575 |  |

| | Order no. | Image |
|---|-----------|---|
| Set of 6 graduated glass tubes for Crystal rack R-6 Analyst, residual volume 0.3 mL Working volume up to 250 mL | 038168 |  |
| Set of 12 graduated glass tubes for EasyFill rack R-12 Analyst, residual volume 3.0 mL Working volume up to 120 mL | 046070 |  |
| Set of 12 graduated glass tubes for EasyFill rack R-12 Analyst, residual volume 1.0 mL Working volume up to 120 mL | 046071 |  |
| Set of 12 graduated glass tubes for EasyFill rack R-12 Analyst, residual volume 0.3 mL Working volume up to 120 mL | 046072 |  |




GL45 thread amber tubes

| | Order no. | Image |
|--|-----------|-------|
| Set of 12 graduated amber glass tubes GL45 for EasyFill rack R-12 Analyst, residual volume 1.0 mL Working volume up to 100 mL | 11056910 | |
| Set of 12 graduated amber glass tubes GL45 for EasyFill rack R-12 Analyst, residual volume 0.3 mL Working volume up to 100 mL | 11056911 | |

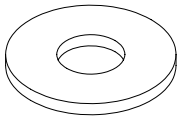
GL45 thread tubes

| | Order no. | Image |
|--|-----------|---|
| Set of 12 graduated glass tubes GL45 for EasyFill rack R-12 Analyst, residual volume 1.0 mL Working volume up to 100 mL | 11056498 |  |
| Set of 12 graduated glass tubes GL45 for EasyFill rack R-12 Analyst, residual volume 0.3 mL Working volume up to 100 mL | 11056499 |  |

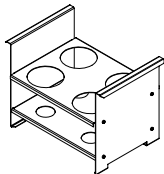
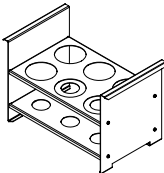
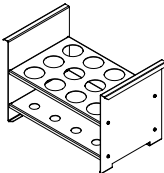
Polyvap tubes

| | Order no. | Image |
|--|-----------|---|
| Set of 4 glass tubes for Crystal Rack R-4 Polyvap Working volume up to 500 mL | 038487 | |
| Set of 6 glass tubes for Crystal Rack R-6 Polyvap Working volume up to 250 mL | 038486 | |
| Set of 12 glass tubes for EasyFill Rack R-12 Polyvap Working volume up to 120 mL | 040907 |  |
| Set of 24 glass tubes for EasyFill Rack R-24 Polyvap Total volume 55 mL, 25 x 150 mm (d x h) | 038469 |  |
| Set of 72 glass tubes for EasyFill Rack R-24 PSE/ASE Total volume 60 mL, 27 x 135 mm (d x h) | 049535 |  |
| Set of 100 standard test tubes for EasyFill Rack R-48 Total volume 34 mL, 20 x 150 mm (d x h) | 042845 |  |
| Set of 100 standard test tubes for EasyFill Rack R-96 Total volume 17 mL, 16 x 130 mm (d x h) | 038543 |  |

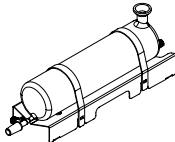
Gaskets

| | Order no. | Image |
|--|-----------|---|
| Set of 6 sealing disks for Vacuum Cover R-4 or R-6, PTFE | 038488 | |
| Set of 12 sealing disks for Vacuum Cover R-12, PTFE | 040906 | |
| Set of 24 sealing disks for Vacuum Cover R-24, PE | 038489 | |
| Set of 50 sealing disks for Vacuum Cover R-48, PE | 046591 |  |
| Set of 100 sealing disks for Vacuum Cover R-96, PE | 038490 | |

Sample preparation rack

| | Order no. | Image |
|--|-----------|---|
| Sample preparation rack R-4 (metal rack 4 positions) | 040075 |  |
| Sample preparation rack R-6 (metal rack 6 positions) | 040076 |  |
| Sample preparation rack R-12 (metal rack 12 positions) | 040077 |  |

Condenser

| | Order no. | Image |
|---|-----------|---|
| Condenser unit type S, cpl. Including a 2000 mL receiving flask | 11070721 | |
| Refrigerated receiving flask 3000 mL with internal cooling loop, open | 11061399 |  |

Receiving flask

| | Order no. |
|------------------------------|-----------|
| Glass, BJ35/20, 1000 mL, P+G | 020728 |
| Glass, BJ35/20, 2000 mL, P+G | 025265 |

Cocking lever

| | Order no. | Image |
|------------------------------------|-----------|---|
| 3-star knob for the vacuum cover | 041840 |  |
| Set of 2 quick handle, star-shaped | 11070467 | |

Sleeves

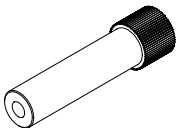
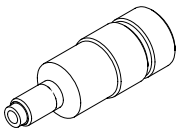
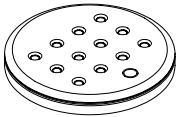
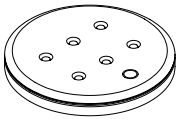
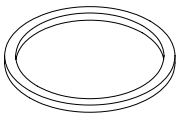

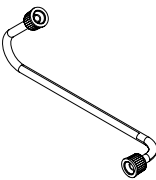
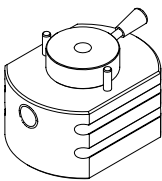
| | Order no. |
|---|-----------|
| Set of 12 appendix sleeves for Analyst glass tubes with 0.3 mL appendix | 11058511 |

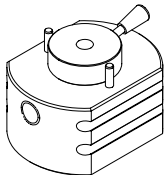
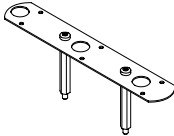
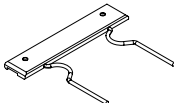
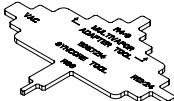
Set of 12 appendix sleeves for Analyst glass tubes with 1.0 mL appendix

11058510

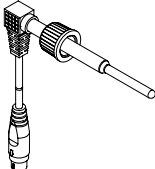
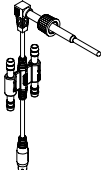
Accessories SPE configuration

| | Order no. | Image |
|--|-----------|---|
| SPE Basic Module format 12 with 2 way valve | 051440 |  |
| SPE Basic Cover format 12 with 2 way valve | 051438 |  |
| SPE Basic Module format 24 with 2 way valve | 051463 |  |
| SPE Basic Cover format 24 with 2 way valve | 051439 |  |
| SPE Advanced Module format 6 with 3 way valve and waste vessel | 11055465 |  |
| SPE Advanced Cover format 6 with 3 way valve and waste vessel | 11055466 |  |
| SPE Advanced Module format 12 with 3 way valve and waste vessel | 051164 |  |
| SPE Advanced Cover format 12 with 3 way valve and waste vessel | 051448 |  |

| | Order no. | Image |
|---|-----------|---|
| Set of 2 SPE lock nuts | 051464 |  |
| Flow-control valve, single | 051129 |  |
| Set 12 O-rings for set 12 Flow-control valve | 051453 | |
| Set comprising of 6 flanged FEP tubes | 051459 | |
| Set of 12 FKM O-rings | 051496 | |
| 12 port waste manifold | 051445 |  |
| 6 port waste manifold | 11055463 |  |
| Gasket FPM to waste vessel | 040471 |  |
| Glass cylinder for the SPE waste vessel | 051444 |  |
| FEP tube waste condenser including GL 14 caps and seals | 051467 |  |
| Three-way stopcock | 051163 |  |

| | Order no. | Image |
|---|-----------|---|
| Set comprising of 12 SPE three-way stopcocks | 051457 |  |
| Set of 4 FEP tube clips | 051458 | |
| For bundle the hoses | | |
| Set of 12 FEP elution tubes | 051492 | |
| Use between 3 way tap and waste vessel | | |
| Support for the three-way stopcocks | 051493 |  |
| 1 Set fittings 3.2 (25 units) | 040956 | |
| Use for attaching the hoses to the 3-way tap and the waste vessel | | |
| 1 Set seal cones 3.2 (green, 25 units) | 040961 | |
| Use with 040956 for attaching the hoses to the 3-way tap and the waste vessel | | |
| Sidebar with feet | 051465 |  |
| Syncore / SyncorPlus tool | 11057214 |  |

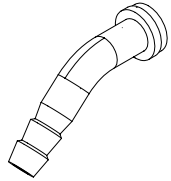
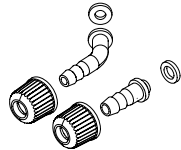
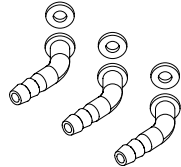
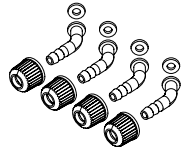


Sensors

| | Order no. | Image |
|--|-----------|---|
| Vapor temperature sensor. Incl. cap nut, seal GL14 | 11060707 |  |
| Measures the vapor temperature inside the system. Meant to be used with the Interface I-300 / I-300 Pro. | | |
| AutoDest sensor. Incl. cap nut, seal GL14 | 11059225 |  |
| For automatic distillation. Measures temperature of cooling media and the vapor temperature. Vacuum is adjusted according to cooling capacity of condenser. Meant to be used with the Interface I-300 / I-300 Pro and glass assembly V, HP or S. | | |

Tubing

| | Order no. |
|---|-----------|
| Ribbed PFA vacuum hose, 600 mm | 049634 |
| Spiral vacuum tube (600 mm) with SVL22 connectors | |
| Set of 2 PTFE sealings SVL22 | 048899 |
| Set consisting of 2 PTFE sealing rings (SVL22) for the vacuum hose (049634) | |
| Tubing. Silicone, Ø6/9 mm, transparent, per m | 004133 |
| Use: Cooling media. | |
| Tubing. Synthetic rubber, Ø6/13 mm, black, per m | 11063244 |
| Use: Vacuum. | |

Hose barbs

| | Order no. | Image |
|--|-----------|---|
| Hose barb. Bent, GL14, incl. silicone seal | 018916 |  |
| Hose barbs, set. 2 pcs, bent (1), straight (1), GL14, silicone seal Content: Hose barbs, cap nuts, seals | 041939 |  |
| Hose barbs. set. 3 pcs, bent, GL14, silicone seal Content: Hose barbs, seals. | 041987 |  |
| Hose barbs, set. 4 pcs, bent GL14, silicone seal Content: Hose barbs, cap nuts, seals | 037287 |  |
| Hose barbs, set. 4 pcs, straight, GL14, silicone seal Content: Hose barbs, cap nuts, seals | 037642 |  |
| Hose barbs. set. 6 pcs, bent (4), straight (2), GL14, silicone seal Content: Hose barbs, cap nuts, seals. | 038000 |  |

Tools

| | Order no. |
|-------------|-----------|
| Hose cutter | 019830 |

| | Order no. |
|--------------|-----------|
| Turix wrench | 044349 |

Service

| | Order no. |
|--|-----------|
| SyncorePlus IQ/OQ documentation for first installation and operation qualification | 11071011 |
| SyncorePlus Repeating OQ | 11071012 |