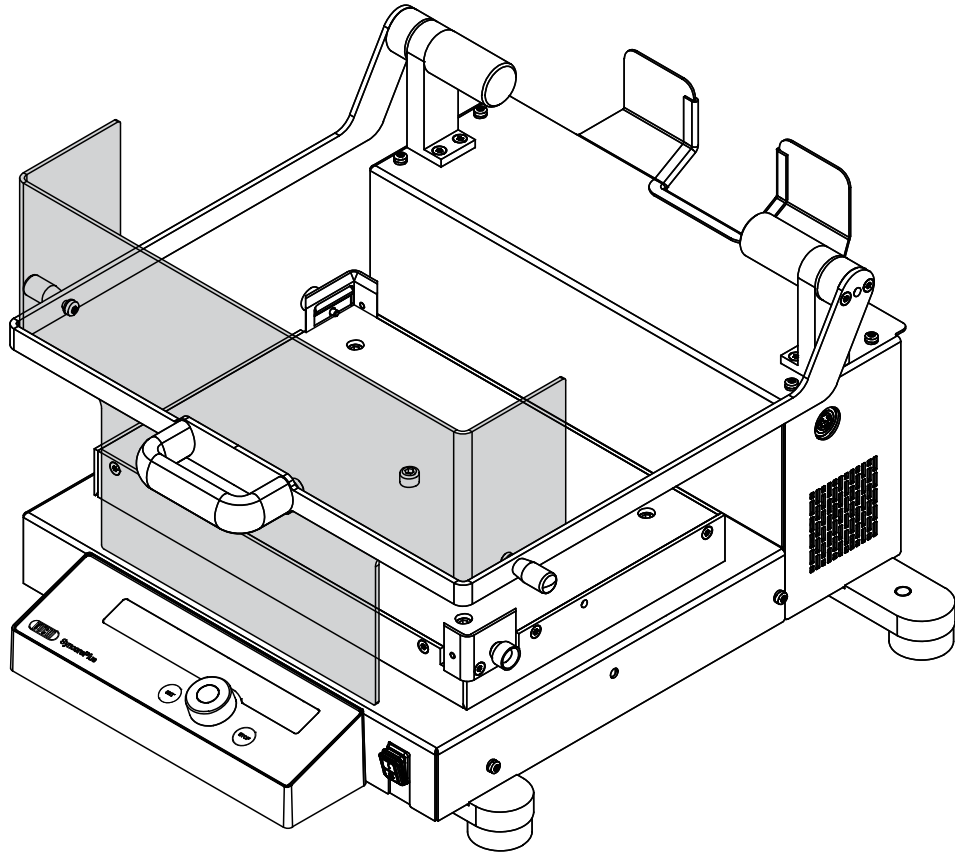




## SyncorePlus

### 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 a 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

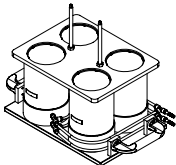
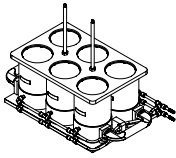
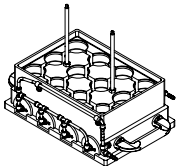
### SyncorePlus

	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

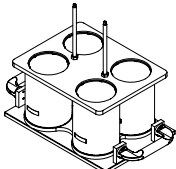
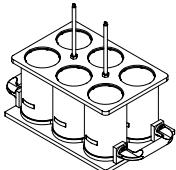
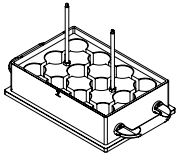
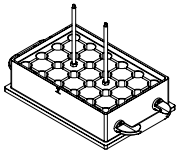
## Spare parts and accessories

### Racks

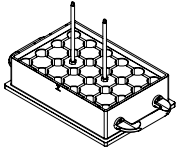
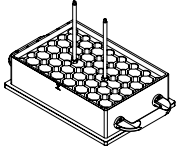
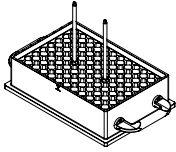
#### Analyst racks

	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	

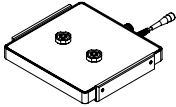
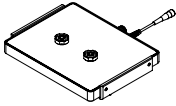
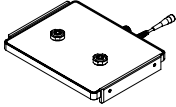
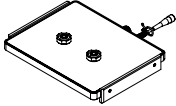
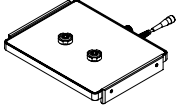
#### Polyvap racks

	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	

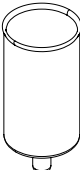
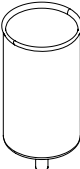
	Order no.	Image
Vacuum Cover R-96 with PE sealing disks Actively heated vacuum cover with individual sample connection	040930	

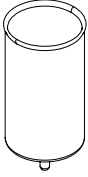

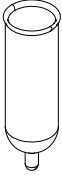

## Flushback Module

	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	

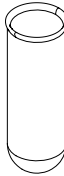


### GL45 thread amber tubes

	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	

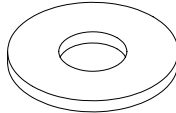
### GL45 thread tubes

	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	

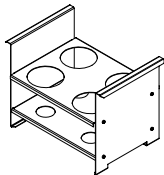
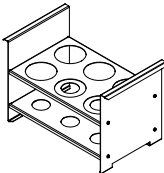
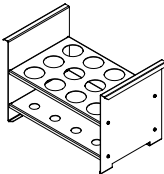
## Polyvap tubes

	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	

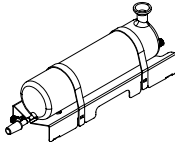
## Gaskets

	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	

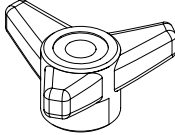
## Condenser

	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

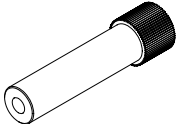
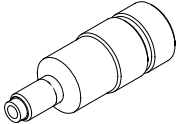
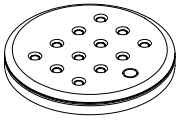
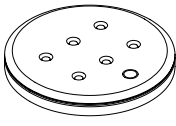
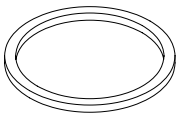
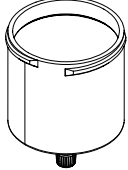
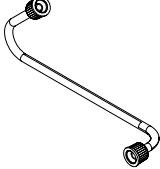
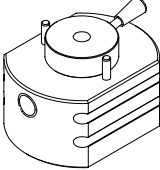
	Order no.	Image
3-star knob for the vacuum cover	041840	
Set of 2 quick handle, star-shaped	11070467	

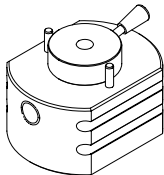
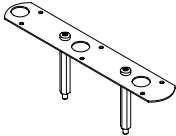
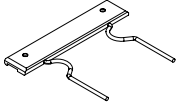
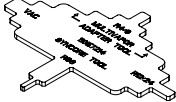
## Sleeves

	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

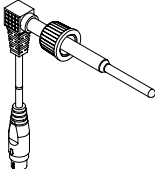
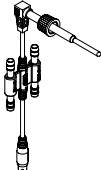
## Accessories SPE configuration

	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 04956 for attaching the hoses to the 3-way tap and the waste vessel		
Sidebar with feet	051465	
Syncore / SyncorPlus tool	11057214	

## Sensors

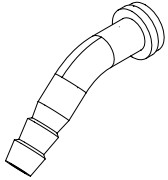
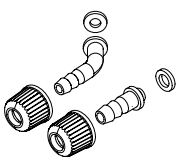
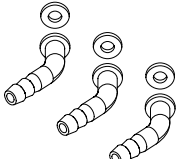
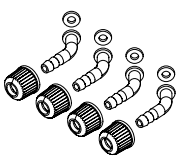


	Order no.	Image
Vapor temperature sensor. Incl. cap nut, seal GL14 Measures the vapor temperature inside the system. Meant to be used with the Interface I-300 / I-300 Pro.	11060707	
AutoDest sensor. Incl. cap nut, seal GL14 For automatic distillation. Measures temperature of cooling media and the vapor 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.	11059225	

## 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
Turix wrench	044349

## Service

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