

## Technical data sheet

# SyncorePlus

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

4 EasyFill R-24 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) not available for R-24

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 (without Falcon tubes)
- 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:



### 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
- 4 EasyFill R-24 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) not available for R-24

### 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 (without Falcon tubes)
- 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*
Vacuum cover	1*
Tubes	1*
Power cord	
Vacuum tubing	
Cooling water tubing	

\*According to the order code

## Technical data

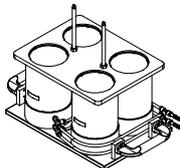
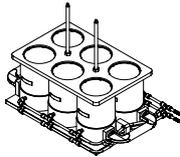
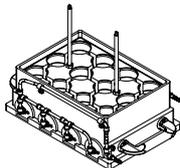
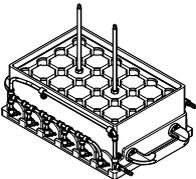
### SyncorePlus

	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

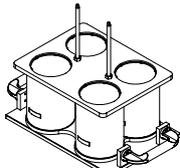
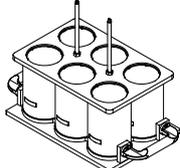
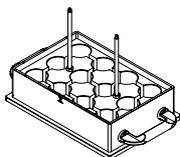
## Spare parts and accessories

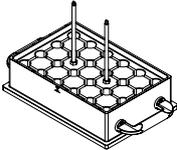
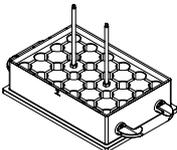
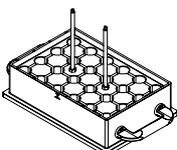
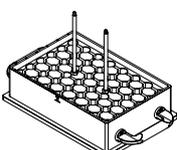
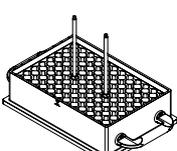
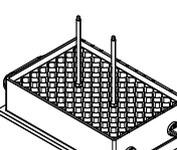
### Racks

#### Analyst racks

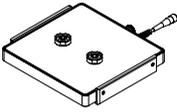
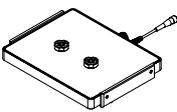
	Order no.	Image
Crystal Rack R-4 Analyst with residual volume cooling For a maximum working volume of up to 4 x 500 mL, without glass tubes	047794	
Crystal Rack R-6 Analyst with residual volume cooling For a maximum working volume of up to 6 x 250 mL, without glass tubes	047777	
EasyFill Rack R-12 Analyst with residual volume cooling For a maximum working volume of up to 12 x 120 mL, without glass tubes	046000	
EasyFill Rack R-24 Analyst with residual volume cooling For a maximum working volume of up to 24 x 25 mL, without glass tubes	11079940	

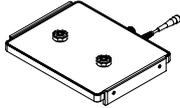
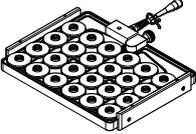
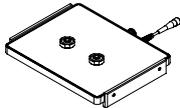
#### Polyvap racks

	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	

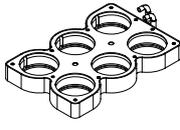
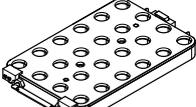
	Order no.	Image
EasyFill Rack R-24 Polyvap with OD = 25 mm For working volumes of up to 24 x 30 mL, without glass tubes	038188	
EasyFill Rack R-24 Polyvap falcon Tubes For working volume of up to 24 x 30 mL, without falcon tubes	038440	
EasyFill Rack R-24 Polyvap PSE/ASE vials with OD = 27 mm For working volumes of up to 24 x 30 mL, without glass tubes	042660	
Easy Fill Rack R-48 Polyvap with OD = 20 mm For working volumes of up to 48 x 20 mL	042855	
EasyFill Rack R-96 Polyvap with OD = 16 mm For working volumes of up to 96 x 10 mL, without glass tubes	038277	
EasyFill Rack R-96 Polyvap with OD = 18 mm. For Working volumes up to 96 x 10 mL, without glass tubes.	11072529	

## 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	

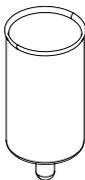
	Order no.	Image
Vacuum Cover R-12 with PTFE sealing disks Actively heated vacuum cover with individual sample connection	040910	
Vacuum Cover R-24 with PE sealing disks Actively heated vacuum cover with individual sample connection	040920	
Vacuum cover R-24 with PTFE sealing disks Actively heated vacuum cover with individual sample connection	11081339	
Vacuum Cover R-48 with PE sealing disks Actively heated vacuum cover with individual sample connection	042850	
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	
Flushback Module R-24 For higher recovery rates in combination with EasyFill rack R-24 Analyst	11081746	

## 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	
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	
Set of 24 graduated glass tubes for Easyfill rack R-24 Analyst, residual volume 1.0 mL Working volume up to 25 mL	11079938	

	Order no.	Image
Set of 24 graduated glass tubes for Easyfill rack R-24 Analyst, residual volume 0.3 mL Working volume up to 25 mL	11079937	

## 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

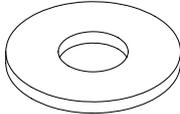
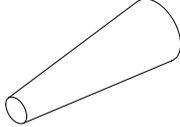
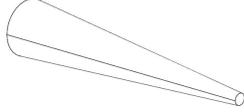
	Order no.	Image
Set of 12 graduated glass tubes GL45 for EasyFill rack R-12 Analyst, residual volume 1.0 mL Working volume up to 100 mL	11056498	
Set of 12 graduated glass tubes GL45 for EasyFill rack R-12 Analyst, residual volume 0.3 mL Working volume up to 100 mL	11056499	

## Polyvap tubes

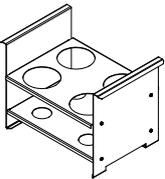
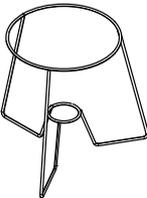
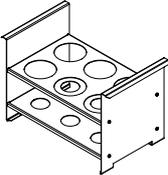
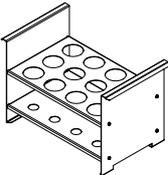
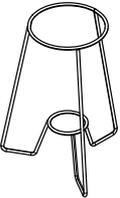
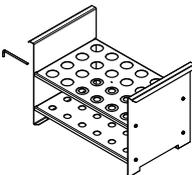
	Order no.	Image
Set of 4 glass tubes for Crystal Rack R-4 Polyvap Working volume up to 500 mL	038487	
Set of 6 glass tubes for Crystal Rack R-6 Polyvap Working volume up to 250 mL	038486	
Set of 12 glass tubes for EasyFill Rack R-12 Polyvap Working volume up to 120 mL	040907	
Set of 50 glass tubes for EasyFill Rack R-24 Polyvap Total volume 55 mL, 25 x 150 mm (d x h)	038469	

	Order no.	Image
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), for OD = 16 mm	038543	

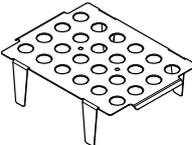
## Gaskets and plugs

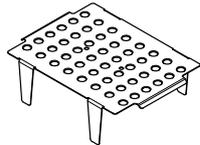
	Order no.	Image
Set of 6 sealing disks for Vacuum Cover R-4 or R-6, PTFE	038488	
Set of 12 sealing disks for Vacuum Cover R-12, PTFE	040906	
Set of 24 sealing disks for Vacuum Cover R-24, PTFE	11081340	
Set of 24 sealing disks for Vacuum Cover R-24, PE	038489	
Set of 50 sealing disks for Vacuum Cover R-48, PE	046591	
Set of 100 sealing disks for Vacuum Cover R-96, PE	038490	
Set rubber plugs 5 mm 6 pcs. For R-6 Cover	038542	
Set rubber plugs 3 mm 25 pcs. For R-12 and R-24 Cover	038704	
Rubber plug 1.1 mm 50 pcs. For R-48, R-64 and R-96 Cover	040193	

## Sample preparation rack

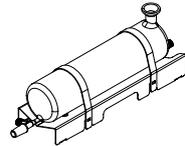
	Order no.	Image
Sample preparation rack R-4 (metal rack 4 positions)	040075	
Sample holder R-4 (metal rack 1 position)	11062988	
Sample preparation rack R-6 (metal rack 6 positions)	040076	
Sample holder R-6 (metal rack 1 position)	11062989	
Sample preparation rack R-12 (metal rack 12 positions)	040077	
Sample holder R-12 (metal rack 1 position)	11062990	
Sample preparation rack R-24 (metal rack 24 position)	11080763	

## Transportation rack

	Order no.	Image
Transportationrack R-24	11074727	
Transport rack for easy preparation and insertion into the polyvap rack		

	Order no.	Image
Transportationrack R-48 Transport rack for easy preparation and insertion into the polyvap rack	11074075	

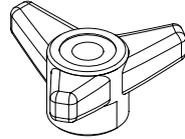
## Condenser

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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.	Image
Receiving flask Glass, BJ 35/20, 1000 mL, P+G	020728	
Glass, BJ35/20, 2000 mL, P+G	025265	

## Cocking lever

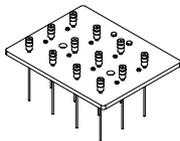
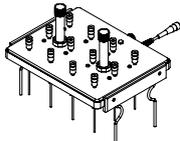
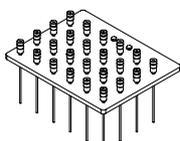
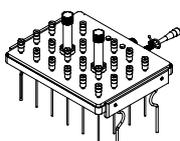
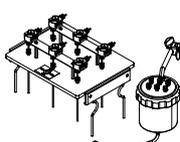
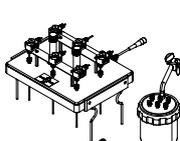
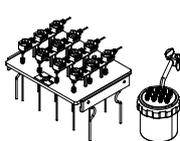
	Order no.	Image
3-star knob for the vacuum cover	11071146	
Set of 2 quick handle, star-shaped	11070467	

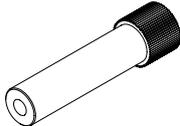
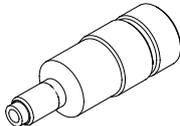
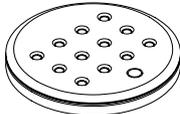
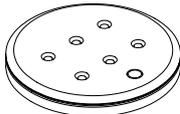
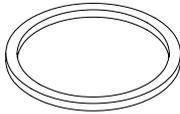
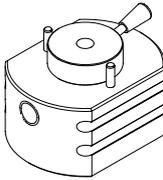
## Sleeves

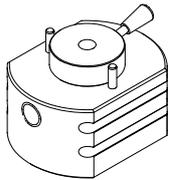
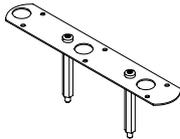
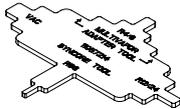
	Order no.	Image
Set of 12 appendix sleeves for Analyst glass tubes (R-4, R-6, R-12) with 0.3 mL appendix	11058511	
Set of 12 appendix sleeves for Analyst glass tubes with 1.0 mL appendix	11058510	
Set of 24 appendix sleeves for Analyst glass tubes R-24 with 0.3 mL appendix	11081343	

	Order no.	Image
Set of 12 appendix sleeves for Analyst glass tubes R-24 with 1.0 mL appendix	11081342	

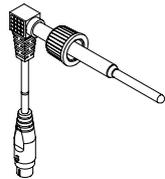
## Accessories SPE configuration

	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	

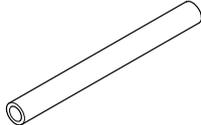
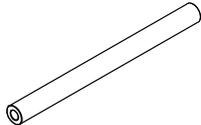
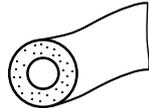
	Order no.	Image
Set of 2 SPE lock nuts	051464	
Flow-control valve, single	051129	
Set 12 O-rings for set 12 Flow-control valve	051453	
Set comprising of 6 flanged FEP tubes	051459	
Set of 12 FKM O-rings	051496	
12 port waste manifold	051445	
6 port waste manifold	11055463	
Gasket FPM to waste vessel	040471	
Glass cylinder for the SPE waste vessel	051444	
FEP tube waste condenser including GL 14 caps and seals	11064040	
Three-way stopcock	051163	

	Order no.	Image
Set comprising of 12 SPE three-way stopcocks	051457	
Set of 4 FEP tube clips For bundle the hoses	051458	
Set of 12 FEP elution tubes Use between 3 way tap and waste vessel	051492	
Support for the three-way stopcocks	051493	
Set fittings 3.2 mm (25 pcs.) Use for attaching the hoses to the 3-way tap and the waste vessel	040956	
Set ferrules 3.2 mm (green, 25 pcs.) Use with 04956 for attaching the hoses to the 3-way tap and the waste vessel	040961	
Syncore / SyncorPlus tool	11057214	

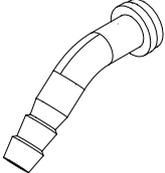
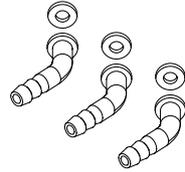
## Sensors

	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 Pro. Only for vapor temperature, can not be upgraded to AutoDest sensor.	11060707	
AutoDest sensor. Incl. cap nut, seal GL14 and adapter cable for SyncorePlus 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 Pro.	11081310	
AutoDry valve In combination with AutoDest sensor for automated distillation of residual solvent. Meant to be used with AutoDest sensor 11059225, Adapter cable for SyncorePlus 11069477, Interface I-300 Pro and S-type condenser.	11074082	
Set AutoDest sensor & AutoDry valve & adapter cable for SyncorePlus Set includes AutoDest sensor 11059225, AutoDry valve 11074082 and adapter cable for SyncorePlus 11069477	11081315	

## Tubing

	Order no.	Image
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 Use: Cooling media	004133	
Tubing, synthetic rubber, Ø6/13 mm, black, per m Use: Vacuum	11063244	
Hose insulation, Kaiflex, 11/23, 1 m, black Use: cooling media, hose insulation	028696	

## Hose barbs

	Order no.	Image
Hose barb, bent, GL 14, incl. silicone seal	018916	
Hose barbs, set. 2 pcs, bent (1), straight (1), GL 14, silicone seal Content: Hose barbs, cap nuts, seals	041939	
Hose barbs, set. 3 pcs, bent, GL 14, silicone seal Content: Hose barbs, seals.	041987	
Hose barbs, set. 4 pcs, bent GL 14, silicone seal Content: Hose barbs, cap nuts, seals	037287	

	Order no.	Image
Hose barbs, set. 4 pcs, straight, GL 14, silicone seal Content: Hose barbs, cap nuts, seals	037642	
Hose barbs, set. 6 pcs, bent (4), straight (2), GL 14, silicone seal Content: Hose barbs, cap nuts, seals.	038000	

## Tools

	Order no.	Image
Hose cutter	019830	
Turix wrench	044349	

## Service

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



11594210G en SyncorePlus 06.2025  
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