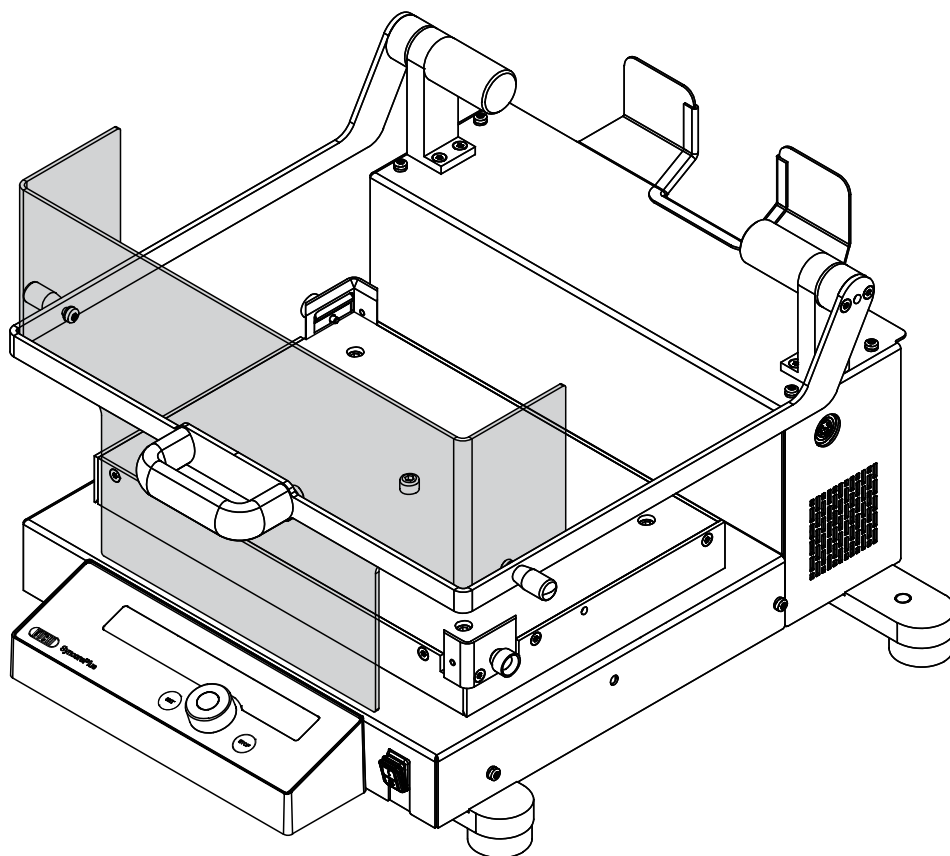




## SyncorePlus

### 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

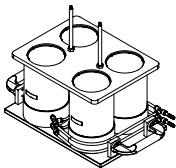
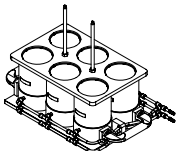
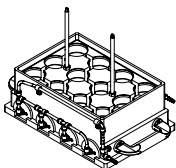
### SyncorePlus

|  | SyncorePlus<br>100 V  | SyncorePlus<br>115 V  | SyncorePlus<br>230 V  |
|--|-----------------------|-----------------------|-----------------------|
| Dimensions (W x D x H)<br>(main unit)            | 500 x 520 x 325<br>mm | 500 x 520 x 325<br>mm | 500 x 520 x 325<br>mm |
| Weight<br>(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<br>(Service test) | +/- 2 °C              | +/- 2 °C              | +/- 2 °C              |
| Fuse<br>(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                 |

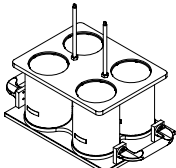
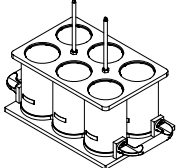
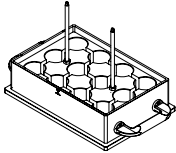
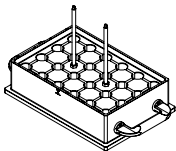
## Spare parts and accessories

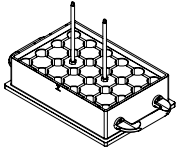
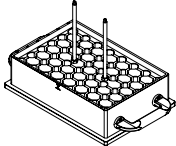
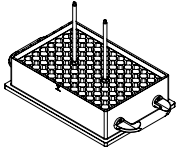
### Racks

#### Analyst racks

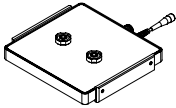
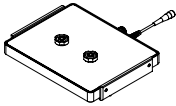
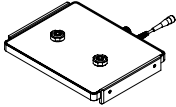
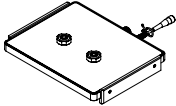
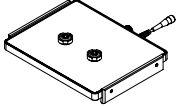
|   | Order no. | Image   |
|---|-----------|---|
| Crystal Rack R-4 Analyst with residual volume cooling<br>For a maximum working volume of up to 4 x 500 mL, without glass tubes    | 047794    |  |
| Crystal Rack R-6 Analyst with residual volume cooling<br>For a maximum working volume of up to 6 x 250 mL, without glass tubes    | 047777    |  |
| EasyFill Rack R-12 Analyst with residual volume cooling<br>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<br>For working volumes of up to 4 x 500 mL                         | 047790    |  |
| Crystal Rack R-6 Polyvap<br>For working volumes of up to 6 x 250 mL                         | 047770    |  |
| EasyFill Rack R-12 Polyvap<br>For working volumes of up to 12 x 120 mL, without glass tubes | 040900    |  |
| EasyFill Rack R-24 Polyvap<br>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<br>For working volumes of up to 24 x 60 mL, without glass tubes | 042660    |  |
| EasyFill Rack R-48 Polyvap<br>For working volumes of up to 48 x 20 mL  | 042855    |  |
| EasyFill Rack R-96 Polyvap<br>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<br>Actively heated vacuum cover with individual sample connection  | 038245    |   |
| Vacuum Cover R-6 with PTFE sealing disks<br>Actively heated vacuum cover with individual sample connection  | 038246    |  |
| Vacuum Cover R-12 with PTFE sealing disks<br>Actively heated vacuum cover with individual sample connection | 040910    |  |
| Vacuum Cover R-24 with PE sealing disks<br>Actively heated vacuum cover with individual sample connection   | 040920    |  |
| Vacuum Cover R-48 with PE sealing disks<br>Actively heated vacuum cover with individual sample connection   | 042850    |  |



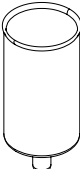
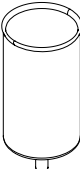
|   | Order no. | Image   |
|---|-----------|---|
| Vacuum Cover R-96 with PE sealing disks<br>Actively heated vacuum cover with individual sample connection | 040930    |  |

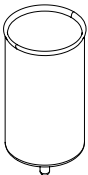

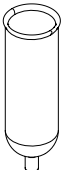

## Flushback Module

|   | Order no. | Image   |
|---|-----------|---|
| Flushback Module R-6<br>For higher recovery rates in combination with Crystal rack R-6 Analyst    | 048654    |  |
| Flushback Module R-12<br>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,<br>residual volume 3.0 mL<br>Working volume up to 500 mL | 047740    |   |
| Set of 4 graduated glass tubes for Crystal rack R-4 Analyst,<br>residual volume 1.0 mL<br>Working volume up to 500 mL | 047741    |   |
| Set of 4 graduated glass tubes for Crystal rack R-4 Analyst,<br>residual volume 0.3 mL<br>Working volume up to 500 mL | 047742    |   |
| Set of 6 graduated glass tubes for Crystal rack R-6 Analyst,<br>residual volume 3.0 mL<br>Working volume up to 250 mL | 038557    |  |
| Set of 6 graduated glass tubes for Crystal rack R-6 Analyst,<br>residual volume 1.0 mL<br>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<br>Working volume up to 250 mL    | 038168    |  |
| Set of 12 graduated glass tubes for EasyFill rack R-12 Analyst, residual volume 3.0 mL<br>Working volume up to 120 mL | 046070    |  |
| Set of 12 graduated glass tubes for EasyFill rack R-12 Analyst, residual volume 1.0 mL<br>Working volume up to 120 mL | 046071    |  |
| Set of 12 graduated glass tubes for EasyFill rack R-12 Analyst, residual volume 0.3 mL<br>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<br>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<br>Working volume up to 100 mL | 11056911  |       |

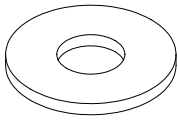
## GL45 thread tubes

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

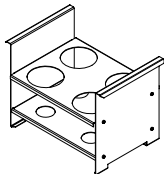
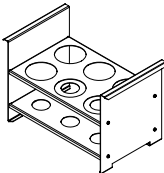
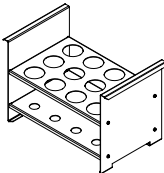
## Polyvap tubes

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

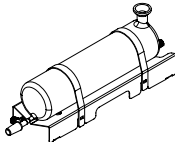
## Gaskets

|  | 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.<br>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

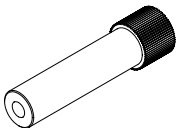
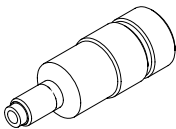
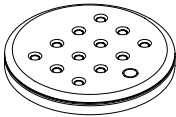
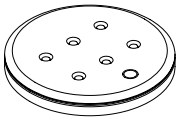
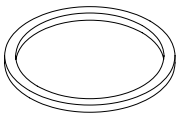

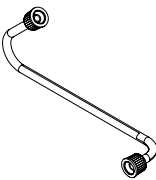
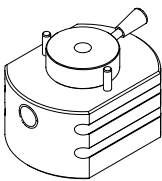
|   | Order no. |
|---|-----------|
| Set of 12 appendix sleeves for Analyst glass tubes with 0.3 mL appendix | 11058511  |

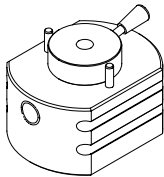
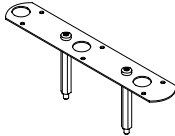
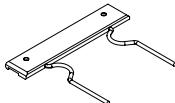
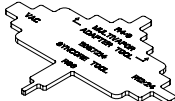
Set of 12 appendix sleeves for Analyst glass tubes with 1.0 mL appendix

11058510

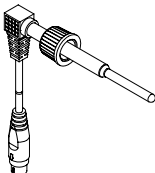
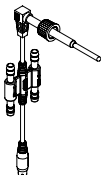
## Accessories SPE configuration

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

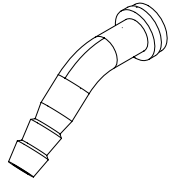
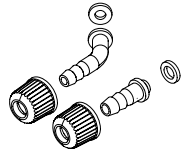
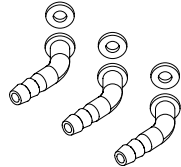
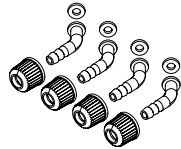


## Sensors

|  | 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<br>Content: Hose barbs, cap nuts, seals  | 041939    |   |
| Hose barbs. set. 3 pcs, bent, GL14, silicone seal<br>Content: Hose barbs, seals.                             | 041987    |  |
| Hose barbs, set. 4 pcs, bent GL14, silicone seal<br>Content: Hose barbs, cap nuts, seals                     | 037287    |  |
| Hose barbs, set. 4 pcs, straight, GL14, silicone seal<br>Content: Hose barbs, cap nuts, seals                | 037642    |  |
| Hose barbs. set. 6 pcs, bent (4), straight (2), GL14, silicone seal<br>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  |