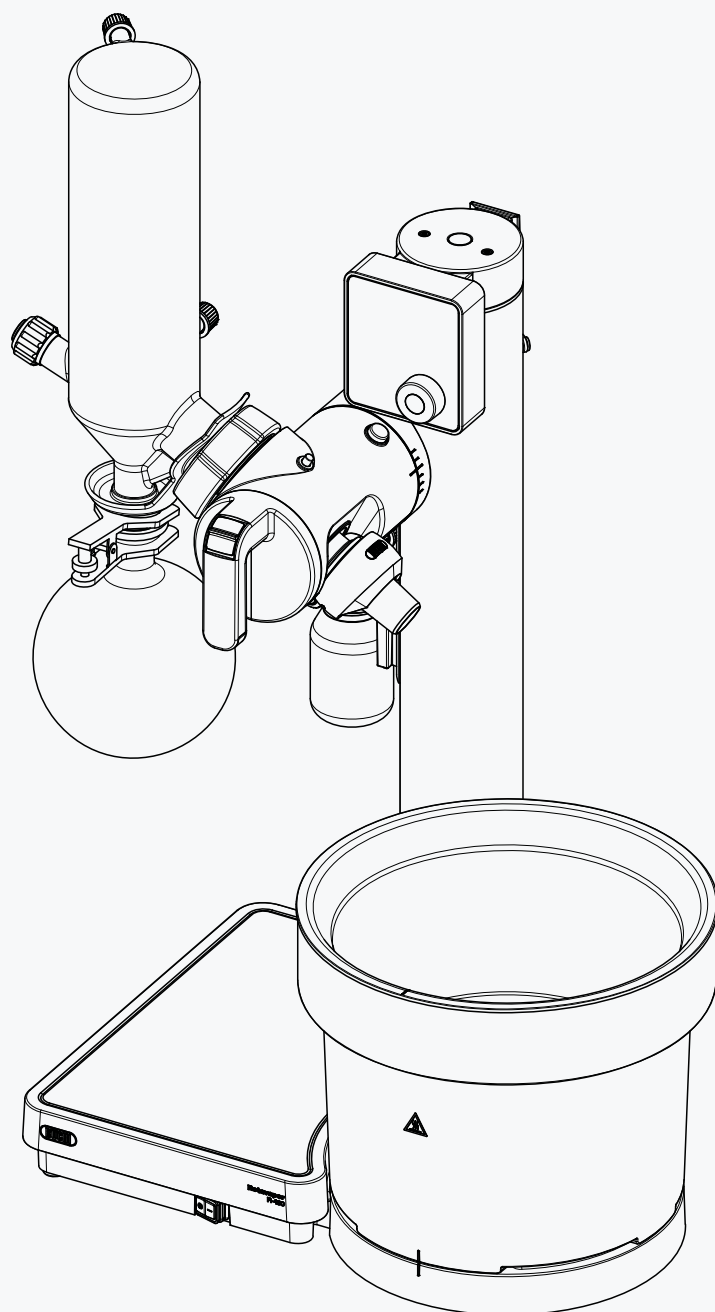




#### Technical data sheet

## Rotavapor® R-180

The Rotavapor® R-180 is a high-quality rotary evaporator to meet the essential needs in classical laboratory applications. The central turnable interface presents all distillation parameters at a glance and an electric lift together with a cable-free, movable bath ensures reliable, quick and ergonomic positioning of the evaporating flask.

## Scope of delivery

All configurations are supplied ready to use.



### NOTE

The scope of delivery depends on the configuration of the purchase order.

Accessories are delivered as per the purchase order, order confirmation, and delivery note.

| Components                                          | Rotavapor®<br>with<br>glass assembly | Rotavapor®<br>without<br>glass assembly | Rotavapor®<br>with<br>vacuum solution |
|-----------------------------------------------------|--------------------------------------|-----------------------------------------|---------------------------------------|
| Rotavapor® R-180                                    | 1                                    | 1                                       | 1                                     |
| Heating Bath R-180                                  | 1                                    | 1                                       | 1                                     |
| Condenser (according to order code)                 | 1                                    | -                                       | 1                                     |
| Vapor duct (with Combi-Clip)                        | 1                                    | 1                                       | 1                                     |
| Vacuum seal (VS22)                                  | 1                                    | 1                                       | 1                                     |
| Evaporating flask (max. 3 L)                        | -                                    | -                                       | -                                     |
| Receiving flask (1 L)                               | 1                                    | -                                       | 1                                     |
| Woulff bottle                                       | -                                    | -                                       | 1                                     |
| Set of required cooling/vacuum tubes and connectors | 1                                    | -                                       | 1                                     |
| Power cable                                         | 1                                    | 1                                       | 1                                     |
| Interface I-180<br>(Vacuum Interface)               | -                                    | -                                       | 1                                     |
| Vacuum Pump V-180                                   | -                                    | -                                       | 1                                     |
| Recirculating Chiller F-180                         | *                                    | *                                       | *                                     |

\* Optional, according to order code

## Order code

Choose the configuration according to your needs:

1 1 S R 1 8 0 1

### Heating bath

Included

### Standard Joint

- 1 SJ 29/32 vapor duct
- 2 SJ 24/40 vapor duct

### Glass assembly

- V Vertical, safety coated, incl. receiving flask 1000 mL  
excl. evaporating flask
- C Cold trap<sup>1</sup>, safety coated low temperature, incl. receiving flask 1000 mL  
excl. evaporating flask
- N Without

### Vacuum solution

- 0 Without
- 1 V-180 solution  
incl. Woulff bottle, Vacuum Pump V-180, Interface I-180

### Cooling solution

- 0 Without
- 1 F-180: cooling capacity 550W at 15°C (0-25°C)<sup>2</sup>

### Voltage

- 1 220 – 240 V
- 2 100 – 120 V

<sup>1</sup>When ordering the glass assembly C, a recirculating chiller is not needed

<sup>2</sup>Cannot be purchased with glass assembly C

## Technical data

### Rotavapor® R-180

| Specification                                          | Value                                                         |
|--------------------------------------------------------|---------------------------------------------------------------|
| Dimensions (W × D × H)                                 | 450 mm × 350 mm × 645 mm                                      |
| Dimensions (W × D × H) with V condenser and power plug | 505 mm × 400 mm × 800 mm                                      |
| Weight with V condenser                                | 12 kg                                                         |
| Connection voltage                                     | 100 – 120 VAC ± 10%<br>220 – 240 VAC ± 10%                    |
| Frequency                                              | 50 / 60 Hz                                                    |
| Power consumption                                      | 1,500 W                                                       |
| Fuse                                                   | T 12.5 A H 250 V (100 – 120 V)<br>T 8 A H 250 V (220 – 240 V) |
| Overvoltage category                                   | II                                                            |
| IP Code                                                | IP42 <sup>1</sup>                                             |
| Pollution degree                                       | 2                                                             |
| Minimum clearance on all sides                         | none                                                          |
| Display type                                           | 3" Dark segment display                                       |
| Heating power                                          | 1,300 W                                                       |
| High temperature cut-out                               | 140 °C                                                        |
| Heating bath temperature range                         | Up to 95 °C                                                   |
| Heating bath adjustment accuracy                       | ± 1 °C                                                        |
| Heating bath regulation precision                      | ± 2 °C                                                        |
| Heating bath inner diameter                            | 225 mm                                                        |
| Heating bath capacity                                  | 4.2 L                                                         |
| Heating bath fluid                                     | Water                                                         |
| Typical heating-up time (20°C to 95°C)                 | 20 min                                                        |
| Max. flask size                                        | 3,000 mL                                                      |
| Max. flask capacity                                    | 2,500 g                                                       |
| Immersion angle                                        | 15 – 52.5°                                                    |
| Rotation speed range                                   | 10 – 330 rpm                                                  |
| Adjustable lift height                                 | 180 mm                                                        |
| Cooling surface (V condenser)                          | 1,500 cm <sup>2</sup>                                         |
| Cooling temperature display range                      | -99 – 99 °C                                                   |
| Certificate                                            | CB, CE, UL / CSA                                              |

<sup>1</sup> The IP42 rating indicates a level of protection against solid objects greater than 1 mm and dripping water when tilted up to 15°. This rating was determined under specific operation conditions, including horizontal installation, the correct positioned heating bath, and the connected mains plug. Ensure the conditions to maintain the IP42 protection level.

## Ambient conditions

For indoor use only.

| Specification                   | Value                                                                                     |
|---------------------------------|-------------------------------------------------------------------------------------------|
| Max. altitude above sea level   | 2,000 m                                                                                   |
| Ambient and storage temperature | 5–40 °C                                                                                   |
| Max. relative humidity          | 80% for temperatures up to 31 °C<br>decreasing linearly to 50% relative humidity at 40 °C |

## Spare parts and accessories

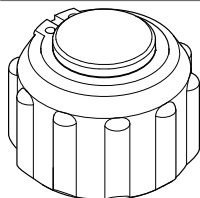
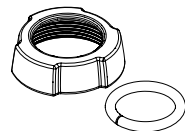
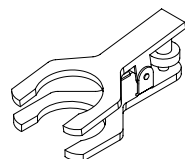
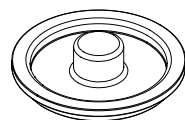
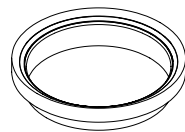
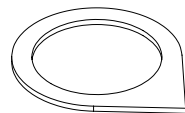
Use only genuine BUCHI consumables and spare parts in order to ensure correct, safe and reliable operation of the system.

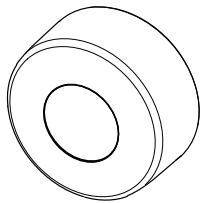
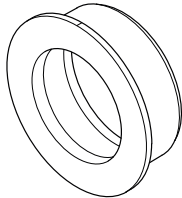
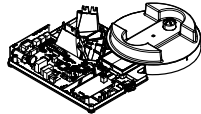
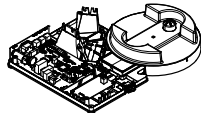
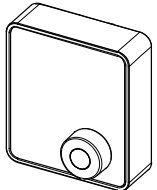
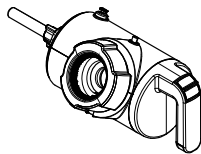
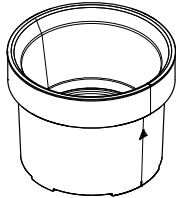
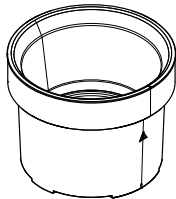


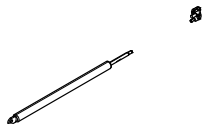
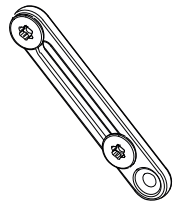
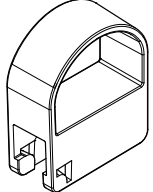
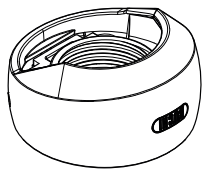
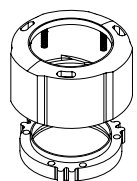
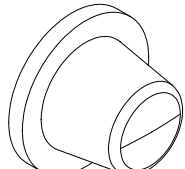
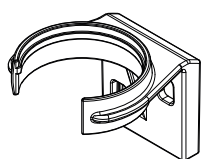
### NOTE

Any modifications of spare parts or assemblies are only allowed with the prior written permission of BUCHI.

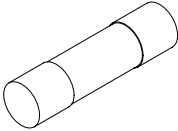
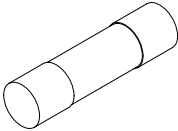
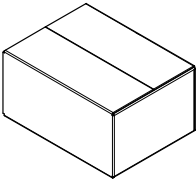
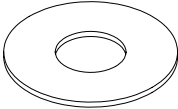
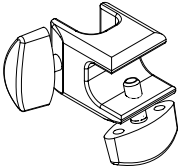
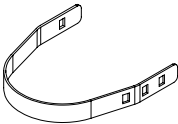
## Spare parts

|                                                                                                                                               | Order no. | Image                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Aeration cap                                                                                                                                  | 046574    |    |
| Flange nut with pressure spring                                                                                                               | 11062387  |    |
| Ball joint clamp. For BJ 35/20<br>To fasten receiving flask on condenser/secondary condenser.                                                 | 003275    |   |
| Lid. For C condenser, PETP                                                                                                                    | 027479    |  |
| Gasket complete<br>For C condenser, PTFE/EPDM                                                                                                 | 027462    |  |
| Drain sleeve, set 5 pcs.                                                                                                                      | 040822    |  |
| Condensate trap, grey<br>Condenser V and HP, TPE, hose connector Ø8 mm. Collects and drains condensate which may accumulate on the condenser. | 11062955  |  |

|                                                                                                 | Order no. | Image                                                                                 |
|-------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Navigation control knob                                                                         | 11074581  |    |
| Sliding ring<br>Encircles the installed vapor duct.                                             | 032005    |    |
| Base R-180 100 – 120 V, complete<br><b>Send the serial number of the device with this order</b> | 11084922  |    |
| Base R-180 220 – 240 V, complete<br><b>Send the serial number of the device with this order</b> | 11084923  |   |
| Interface R-80 / R-180, complete                                                                | 11080629  |  |
| Rotary drive arm R-180, complete                                                                | 11082708  |  |
| Heating bath R-180 100 – 120 V, complete                                                        | 11082590  |  |
| Heating bath R-180 220 – 240 V, complete                                                        | 11082589  |  |

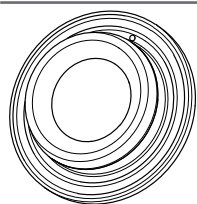
|                                                                                                                       | Order no. | Image                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Gas spring, complete                                                                                                  | 11083854  |    |
| Cable and tubing fixtures. Set. 3 pcs.<br>Content: Rubber strips, screws                                              | 11080633  |    |
| Height adjustment stopper                                                                                             | 11075153  |    |
| Combi-Clip<br>Combi-Clip with snap lock mechanism to fasten evaporating flask on vapor duct. Vapor duct not included. | 11075539  |   |
| Beaker fastener, Connection with bayonet mount, for 500 mL<br>For beaker flask 500 mL                                 | 11059810  |  |
| Sieve for cooling water valve, Ø18 mm                                                                                 | 011514    |  |
| Woulff bottle holder                                                                                                  | 11075161  |  |
| Receiving vessel, GL 40, 125 mL, safety coated<br>For Woulff bottle                                                   | 047233    |  |



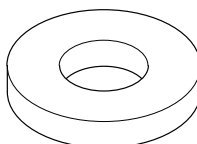
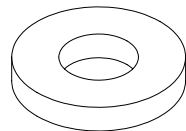
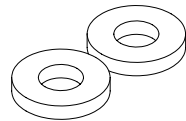
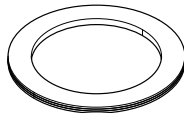
|                                                                                                                         | Order no. | Image                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Fuses, set. 10 pcs.<br>T 12.5A H 250V (100 – 120 V), 20 mm, Ø5 mm                                                       | 047939    |    |
| Fuses, set. 10 pcs.<br>T 8A H 250V (220 – 240 V), 20 mm, Ø5 mm                                                          | 11083921  |    |
| Packaging R-180, complete                                                                                               | 11650265  |    |
| Tubing. PTFE, Ø3/4 mm, white, 600 mm<br>Use: To introduce solvent into evaporating flask during distillation.           | 028096    |   |
| Tubing. PTFE, Ø4.7/5.5 mm, transparent, 330 mm<br>Use: To introduce solvent into evaporating flask during distillation. | 000646    |  |
| Drain disc. PTFE, Ø5.1/14 mm<br>Use: To prevent backflow of condensate along feeding tube                               | 040625    |  |
| Cross sleeve (1 pc.)<br>Use: Part of condenser holder                                                                   | 027344    |  |
| Rubber band<br>Use: To fasten condenser on holder                                                                       | 032013    |  |

## Wear parts

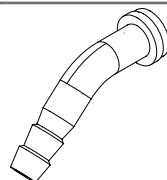
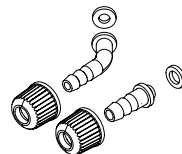
### Vacuum seal

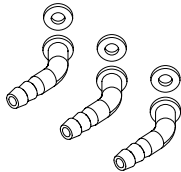
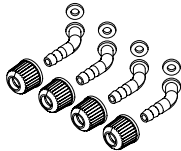
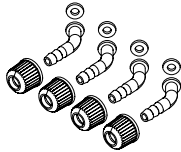
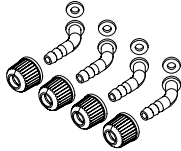
|                                                         | Order no. | Image                                                                               |
|---------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Vacuum seal VS 22, PTFE base, NBR O-ring, FDA compliant | 11075810  |  |

### Seals

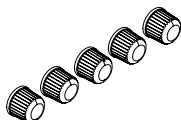
|                                                         | Order no. | Image                                                                                 |
|---------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Seals, set. 10 pcs, for hose barbs GL 14, EPDM, black   | 040029    |    |
| Seals, set. 10 pcs, for hose barbs GL 14, FPM, green    | 040040    |   |
| Seals, set. 20 pcs, for hose barbs GL 14, silicone, red | 040023    |  |
| Seal Woulff bottle                                      | 047165    |  |

### 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<br>Content: Hose barbs, cap nuts, seals | 041939    |  |

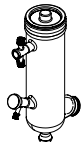
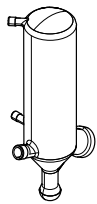
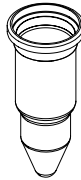
|                                                                                                               | Order no. | Image                                                                                 |
|---------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Hose barbs, set. 3 pcs, bent, GL 14, silicone seal<br>Content: Hose barbs, seals.                             | 041987    |    |
| Hose barbs, set. 4 pcs, bent GL 14, silicone seal<br>Content: Hose barbs, cap nuts, seals                     | 037287    |    |
| Hose barbs, set. 4 pcs, bent, GL 14, EPDM seal<br>Content: Hose barbs, cap nuts, seals.                       | 043129    |    |
| Hose barbs, set. 4 pcs, bent, GL 14, FPM seal<br>Content: Hose barbs, cap nuts, seals.                        | 040295    |    |
| Hose barbs, set. 4 pcs, straight, GL 14, EPDM seal<br>Content: Hose barbs, cap nuts, seals.                   | 043128    |  |
| Hose barbs, set. 4 pcs, straight, GL 14, FPM seal<br>Content: Hose barbs, cap nuts, seals.                    | 040296    |  |
| Hose barbs, set. 4 pcs, straight, GL 14, silicone seal<br>Content: Hose barbs, cap nuts, seals                | 037642    |  |
| Hose barbs, set. 6 pcs, bent (4), straight (2), GL 14, silicone seal<br>Content: Hose barbs, cap nuts, seals. | 038000    |  |

## Miscellaneous wear parts

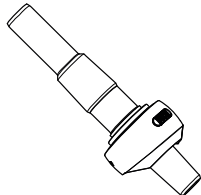
|                                                      | Order no. | Image                                                                               |
|------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Cap nuts, set. 10 pcs, screw cap with hole, GL 14    | 041956    |  |
| Screw caps, set. 5 pcs, closed with PTFE seal, GL 14 | 040624    |  |

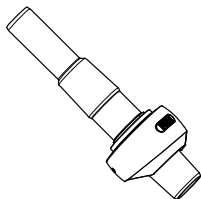
## Glass parts

### Condenser

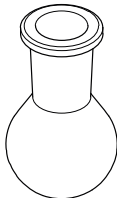
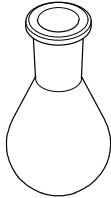
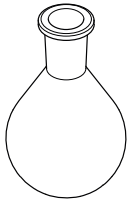
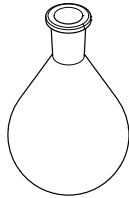
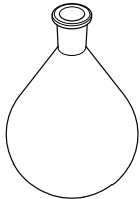
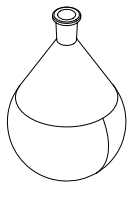
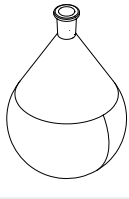
|                                                                                                                      | Order no. | Image                                                                                 |
|----------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Condenser C. cold trap, 500 cm <sup>2</sup> , 30° tilt angle, safety coated low temperature, incl. lid and stopcocks | 11085410  |   |
| Condenser V. Vertical condenser, 1500 cm <sup>2</sup> , 30° tilt angle, safety coated                                | 11082282  |  |
| Cold finger. For condenser C/CR                                                                                      | 000672    |  |
| Condenser C outer part, safety coated low temperature                                                                | 040643    |  |

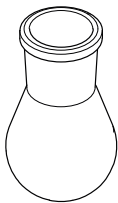
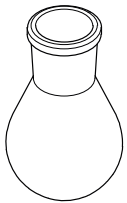
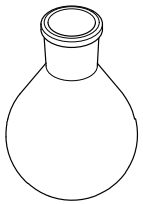
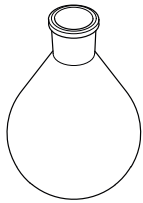
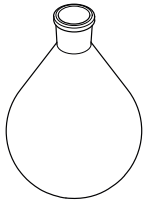
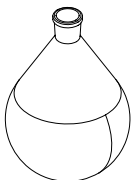
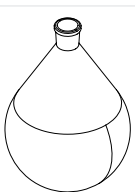
### Vapor duct

|                                                                 | Order no. | Image                                                                                 |
|-----------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Vapor duct<br>For V/C cond., Ø22 mm, SJ 24/40, incl. Combi-Clip | 11075727  |  |

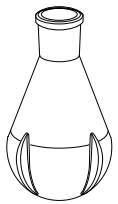
|                                                                 | Order no. | Image                                                                               |
|-----------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Vapor duct<br>For V/C cond., Ø22 mm, SJ 29/32, incl. Combi-Clip | 11075728  |  |

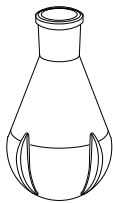
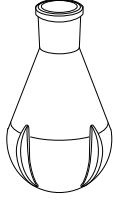
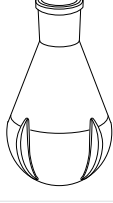
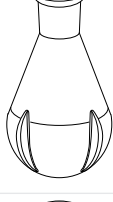
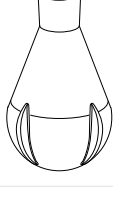
## Evaporating flask

|                                               | Order no. | Image                                                                                 |
|-----------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Evaporating flask<br>Glass, SJ 24/40, 50 mL   | 008750    |    |
| Evaporating flask<br>Glass, SJ 24/40, 100 mL  | 008751    |    |
| Evaporating flask<br>Glass, SJ 24/40, 250 mL  | 008754    |   |
| Evaporating flask<br>Glass, SJ 24/40, 500 mL  | 008758    |  |
| Evaporating flask<br>Glass, SJ 24/40, 1000 mL | 000440    |  |
| Evaporating flask<br>Glass, SJ 24/40, 2000 mL | 008765    |  |
| Evaporating flask<br>Glass, SJ 24/40, 3000 mL | 008767    |  |

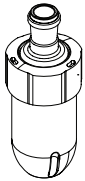
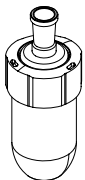
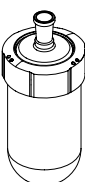
|                                                | Order no. | Image                                                                                 |
|------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Evaporating flask<br>Glass, SJ 29/32, 50 mL    | 000431    |    |
| Evaporating flask<br>Glass, SJ 29/32, 100 mL   | 000432    |    |
| Evaporating flask<br>Glass, SJ 29/32, 250 mL   | 000433    |    |
| Evaporating flask<br>Glass, SJ 29.2/32, 500 mL | 000434    |   |
| Evaporating flask<br>Glass, SJ 29/32, 1000 mL  | 000435    |  |
| Evaporating flask<br>Glass, SJ 29/32, 2000 mL  | 000436    |  |
| Evaporating flask<br>Glass, SJ 29/32, 3000 mL  | 000437    |  |

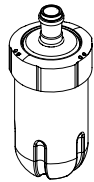
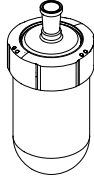
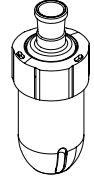
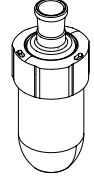
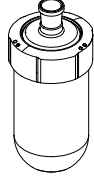
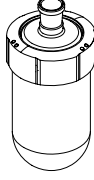
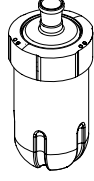
## Drying flask

|                                                                                     | Order no. | Image                                                                                 |
|-------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Drying flask<br>Glass, SJ 24/40, 500 mL<br>With 4 indents for better mixing/drying. | 011579    |  |

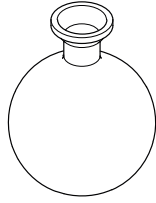
|                                                                                      | Order no. | Image                                                                                 |
|--------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Drying flask<br>Glass, SJ 24/40, 1000 mL<br>With 4 indents for better mixing/drying. | 000420    |    |
| Drying flask<br>Glass, SJ 24/40, 2000 mL<br>With 4 indents for better mixing/drying. | 011580    |    |
| Drying flask<br>Glass, SJ 29/32, 500 mL<br>With 4 indents for better mixing/drying.  | 000452    |    |
| Drying flask<br>Glass, SJ 29/32, 1000 mL<br>With 4 indents for better mixing/drying. | 000453    |   |
| Drying flask<br>Glass, SJ 29/32, 2000 mL<br>With 4 indents for better mixing/drying. | 000454    |  |

## Beaker flask

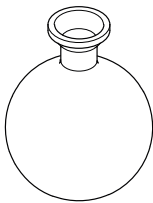
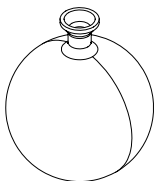
|                                                                                                                                                                                                                                   | Order no. | Image                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Beaker flask, Drying, bayonet type, flat bottom, SJ 24/40, 500 mL<br>Bayonet mount type Ø75 mm. With 4 indents for better mixing/drying. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener. | 11063159  |  |
| Beaker flask, Evap., bayonet type, flat bottom, SJ 24/40, 500 mL<br>Bayonet mount type Ø75 mm. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.                                           | 11063155  |  |
| Beaker flask, Evap., bayonet type, flat bottom, SJ 24/40 1500 mL<br>Bayonet mount type Ø110 mm. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.                                                                 | 11063157  |  |

|                                                                                                                                                                                                                                       | Order no. | Image                                                                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Beaker flask, Drying, bayonet type, flat bottom, SJ 24/40, 1500 mL<br><br>Bayonet mount type Ø110 mm. With 4 indents for better mixing/drying. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.                      | 11063161  |    |
| Beaker flask, Evap., bayonet type, round bottom, SJ 24/40, 1500 mL<br><br>Bayonet mount type Ø110 mm. Use: Easy cleaning and collection of solid residue. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.           | 11065719  |    |
| Beaker flask, Drying, bayonet type, flat bottom, SJ 29/32, 500 mL<br><br>Bayonet mount type Ø75 mm. With 4 indents for better mixing/drying. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener. | 11063158  |    |
| Beaker flask, Evap., bayonet type, flat bottom, SJ 29/32, 500 mL<br><br>Bayonet mount type Ø75 mm. Working volume 150 mL. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.                                           | 11063154  |   |
| Beaker flask, Evap., bayonet type, flat bottom, SJ 29/32 1500 mL<br><br>Bayonet mount type Ø110 mm. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.                                                                 | 11063156  |  |
| Beaker flask, Evap., bayonet type, round bottom, SJ 29/32, 1500 mL<br><br>Bayonet mount type Ø110 mm. Use: Easy cleaning and collection of solid residue. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.           | 11065718  |  |
| Beaker flask, Drying, bayonet type, flat bottom, SJ 29/32, 1500 mL<br><br>Bayonet mount type Ø11 mm. With 4 indents for better mixing/drying. Content: 1 coupling piece, 1 seal, 1 flask and 1 beaker fastener.                       | 11063160  |  |

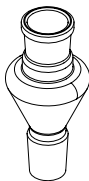
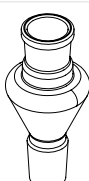
## Receiving flask

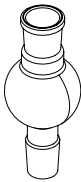
|                                                           | Order no. | Image                                                                                 |
|-----------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Receiving flask<br>Glass, BJ 35/20, 500 mL, safety coated | 025264    |  |



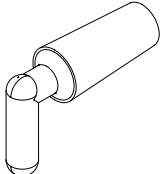
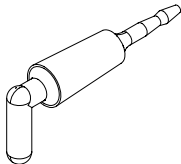
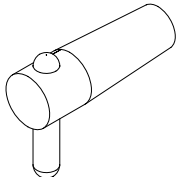
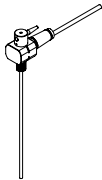
|                                                                                                                      | Order no. | Image                                                                                 |
|----------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Receiving flask<br>Glass, BJ 35/20, 500 mL, safety coated low temperature<br>Application temperature: -70 to 40 °C.  | 040774    |    |
| Receiving flask<br>Glass, BJ 35/20, 1000 mL, safety coated                                                           | 020728    |    |
| Receiving flask<br>Glass, BJ 35/20, 2000 mL, safety coated low temperature<br>Application temperature: -70 to 40 °C. | 040776    |    |
| Receiving flask<br>Glass, BJ 35/20, 2000 mL, safety coated                                                           | 025265    |   |
| Receiving flask<br>Glass, BJ 35/20, 2000 mL, safety coated low temperature<br>Application temperature: -70 to 40 °C. | 040776    |  |

## Bump trap adapter

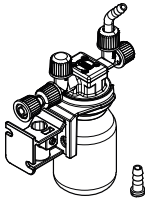
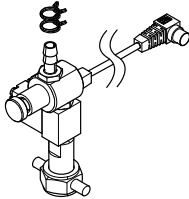
|                                                         | Order no. | Image                                                                                 |
|---------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Bump trap adapter<br>Glass, Reitmeyer, SJ 24/40, 150 mm | 036577    |  |
| Bump trap adapter<br>Glass, SJ 24/40, 175 mm            | 11056919  |  |
| Bump trap adapter<br>Glass, Reitmeyer, SJ 29/32, 135 mm | 036576    |  |

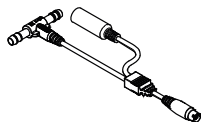
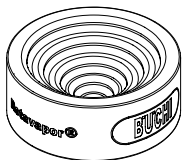
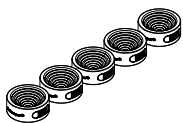
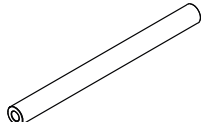
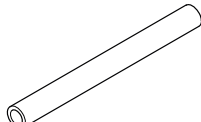
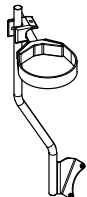
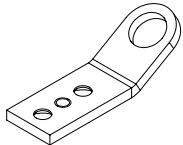
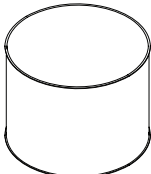
|                                              | Order no. | Image                                                                               |
|----------------------------------------------|-----------|-------------------------------------------------------------------------------------|
| Bump trap adapter<br>Glass, SJ 29/32, 160 mm | 11056920  |  |

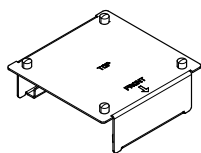
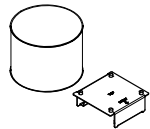
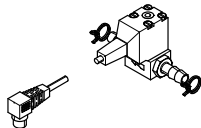
## Stopcocks

|                                                                                                                                                                                                                                                                  | Order no. | Image                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| For condenser C/CR, glass, SJ 18.8/38<br>For aeration of the system. For cold trap outer part.                                                                                                                                                                   | 040628    |    |
| Standard, glass, SJ 18.8/38<br>For aeration of the system.                                                                                                                                                                                                       | 040627    |    |
| Stopcock, Analytic PTFE/25% glass fiber, SJ 18.8/38<br>For feeding of solvents and aerating the system. Less cross-contamination compared to standard stopcock. For applications where grease should be avoided.<br>Content: PTFE stopcock (no tubing included). | 11069607  |   |
| PTFE, incl. 3-way valve<br>For feeding of solvents and aeration of the system. For applications when grease should be avoided. Used instead of standard-stopcock (040627). Content: Inlet tubing 300mm, backfeed tubing 600mm, cap nut GL10.                     | 11058814  |  |

## Accessories

|                                                                                                                          | Order no. | Image                                                                                 |
|--------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Woulff bottle, 125 mL, safety coated, incl. holder<br>For trapping particles and droplets and for pressure equalization. | 11075622  |  |
| Cooling water valve, 24 VAC<br>Valve opens cooling water feed during distillation.                                       | 031356    |  |

|                                                                                                                                                                                                                        | Order no. | Image                                                                                 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------------------------------------------------------------------------|
| Cooling water temperature sensor                                                                                                                                                                                       | 11075306  |    |
| Flask holder, EPDM, slip free<br>Holder for round-bottom flasks (50 – 5000 mL)                                                                                                                                         | 048618    |    |
| Flask holders, set. 5 pcs, EPDM, slip free<br>Holder for round-bottom flasks (50 – 5000 mL)                                                                                                                            | 11059916  |    |
| Heating bath balls, 450 pcs, PP, Ø10 mm<br>To reduce energy consumption of heating bath and for less evaporation of the heating medium. For temperatures up to 100°C.                                                  | 036405    |                                                                                       |
| Tubing, synthetic rubber, Ø6/13 mm, black, per m<br>Use: Vacuum                                                                                                                                                        | 11063244  |   |
| Tubing, silicone, Ø 6/9 mm, transparent, per m<br>Use: Cooling media                                                                                                                                                   | 004133    |  |
| Condenser holder R-180 complete                                                                                                                                                                                        | 11083883  |  |
| Back-feeding valve, cpl.                                                                                                                                                                                               | 11085537  |                                                                                       |
| Set earthquake fastener. Lug for backside<br>To fasten instrument on lab bench.                                                                                                                                        | 11062386  |  |
| Dewar container, not incl. adapter<br>For sample preparation in freeze drying. To be used with dry ice and ethanol / isopropanol / acetone or separately with liquid nitrogen. To be used with adapter and Rotavapor®. | 11066645  |  |

|                                                                                                                                                                                                                                                   | Order no. | Image                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|
| <p>Dewar adapter</p> <p>For sample preparation in freeze drying. To be used with dry ice and ethanol / isopropanol / acetone or separately with liquid nitrogen. Compatible with Rotavapor® R-180.</p>                                            | 11084286  |  |
| <p>Dewar accessory, set. Incl. Dewar container and adapter.</p> <p>For sample preparation in freeze drying. To be used with dry ice and ethanol / isopropanol / acetone or separately with liquid nitrogen. Compatible with Rotavapor® R-180.</p> | 11085088  |  |
| <p>Cooling valve</p> <p>To operate one recirculating chiller F-180 with two Rotavapor R-80/ R-180.</p>                                                                                                                                            | 11084320  |  |



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