

# Фильтры встраиваемые CARL ROTH Millex-FA, Millex-FG, Millex-FH, Millex-AP 25, Millex-AP 50, Millex-GN, Millex-HN, Millex-HV, Millex-GP, GP 10, GP 20, Steripak, Ultrafree, Steriflip

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**Киргизия** (996)312-96-26-47



# Inline filters



## Inline filter PTFE

ROTH SELECTION.

For gas filtration, ventilation and venting as well as for filtration of large amounts of liquid. Ultrasonically welded housing.  
Sterile version (individually packed) available as an option.

### Technical specifications:

| Art. No.          | HLL7.1                              | HLL9.1 | HLL8.1 | HLN0.1 |
|-------------------|-------------------------------------|--------|--------|--------|
| Ø Membrane        | 47 mm                               |        |        |        |
| Housing material  | PP                                  |        |        |        |
| Filtration area   | 17.35 cm <sup>2</sup>               |        |        |        |
| Inlet connection  | stepped tube connection (Ø 6–12 mm) |        |        |        |
| Outlet connection | stepped tube connection (Ø 6–12 mm) |        |        |        |

| Pore size (µm) | Membrane material | Sterility   | Art. No. | Pack Qty.  |  |
|----------------|-------------------|-------------|----------|------------|--|
| 0,2            | Hydrophobic PTFE  | Non-sterile | HLL7.1   | 50 unit(s) |  |
| 0,2            | Hydrophobic PTFE  | Sterile     | HLL9.1   | 50 unit(s) |  |
| 0,45           | Hydrophobic PTFE  | Non-sterile | HLL8.1   | 50 unit(s) |  |
| 0,45           | Hydrophobic PTFE  | Sterile     | HLN0.1   | 50 unit(s) |  |



**A** 121 °C

## Inline filter Millex® PTFE

MERCK MILLIPORE. Autoclavable: Yes.

For the sterile filtration of gases, the sterile aeration of containers and for the sterilisation and clear filtration of organic solutions. Also suitable for preventing the ingress of liquids in downstream pumps and other devices.

### Technical specifications:

| Art. No.                     | CY08.1                                                      | CY06.1 | CY07.1 |
|------------------------------|-------------------------------------------------------------|--------|--------|
| Ø Membrane                   | 50 mm                                                       |        |        |
| Housing material             | PP                                                          |        |        |
| Filtration area              | 19.6 cm <sup>2</sup>                                        |        |        |
| Max. operating pressure      | 4 bar                                                       |        |        |
| Max. application temperature | 121 °C                                                      |        |        |
| Inlet connection             | stepped tube connection (Ø 6–13 mm) with internal Luer Cone |        |        |
| Outlet connection            | stepped tube connection (Ø 6–13 mm) with internal Luer Cone |        |        |

| Type       | Pore size (µm) | Membrane material | Art. No. | Pack Qty.  |  |
|------------|----------------|-------------------|----------|------------|--|
| Millex®-FA | 1,0            | Hydrophobic PTFE  | CY08.1   | 10 unit(s) |  |
| Millex®-FG | 0,22           | Hydrophobic PTFE  | CY06.1   | 10 unit(s) |  |
| Millex®-FH | 0,45           | Hydrophobic PTFE  | CY07.1   | 10 unit(s) |  |

# Filter units



## Filter units Millex® glass fibre

MERCK MILLIPORE.

For pre-filtration of solutions and liquids with a high particle load that are difficult to filter. Protects downstream membranes against blocking quickly. Retention range approx. 2.0 µm.

### Technical specifications:

| Art. No.                     | CY09.1                     | CY10.1                                                      |
|------------------------------|----------------------------|-------------------------------------------------------------|
| Ø Membrane                   | 25 mm                      | 50 mm                                                       |
| Housing material             | PVC                        |                                                             |
| Sample volume                | 100 ml                     | 4000 ml                                                     |
| Dead volume                  | <100 µl                    | <1000 µl                                                    |
| Filtration area              | 3.9 cm <sup>2</sup>        | 19.6 cm <sup>2</sup>                                        |
| Max. operating pressure      | 5 bar                      | 4.1 bar                                                     |
| Max. application temperature | 45 °C                      |                                                             |
| Inlet connection             | female Luer Lock, internal | stepped tube connection (Ø 6–13 mm) with internal Luer Cone |
| Outlet connection            | male Luer Cone, external   | stepped tube connection (Ø 6–13 mm) with internal Luer Cone |

| Type          | Pore size (µm) | Membrane material | Art. No. | Pack Qty.  |  |
|---------------|----------------|-------------------|----------|------------|--|
| Millex®-AP 25 | ~2             | Glass fibre       | CY09.1   | 50 unit(s) |  |
| Millex®-AP 50 | ~2             | Glass fibre       | CY10.1   | 10 unit(s) |  |



## Syringe filters Millex® HPF

MERCK MILLIPORE. Non-sterile.

**For clear filtration of solutions with a high particle load prior to instrument based assay.**

With graduated glass fibre prefilter (10.0 to 0.7 µm), enabling two to four times higher throughput than syringe filters without prefilter. Housing made of HDPE with low extractable substances content.

### Technical specifications:

| Art. No.                     | XE30.1              | XE33.1 | XE31.1 | XE34.1 | XE32.1 |
|------------------------------|---------------------|--------|--------|--------|--------|
| Ø Membrane                   | 25 mm               |        |        |        |        |
| Housing material             | HDPE                |        |        |        |        |
| Sample volume                | ~100 ml             |        |        |        |        |
| Dead volume                  | <250 µl             |        |        |        |        |
| Filtration area              | 3.9 cm <sup>2</sup> |        |        |        |        |
| Max. application temperature | 45 °C               |        |        |        |        |
| Max. operating pressure      | 7 bar               |        |        |        |        |
| Inlet connection             | Luer lock connector |        |        |        |        |
| Outlet connection            | Luer connector      |        |        |        |        |

Not a medical device / Not an IVD product

## Nylon

Hydrophilic membrane with glass fibre prefilter for clear filtration of aqueous and slightly organic solutions with a high particle load.

| Type       | Pore size (µm) | Sterility   | Ø Membrane (mm) | Art. No. | Pack Qty.  |  |
|------------|----------------|-------------|-----------------|----------|------------|--|
| Millex®-GN | 0,2            | Non-sterile | 25              | XE30.1   | 50 unit(s) |  |
| Millex®-HN | 0,45           | Non-sterile | 25              | XE31.1   | 50 unit(s) |  |

## Hydrophilic polytetrafluoroethylene (PTFE)

Hydrophilic membrane with glass fibre prefilter for clear filtration of aqueous and organic solutions with a high particle load. Low protein binding.

| Type        | Pore size (µm) | Sterility   | Ø Membrane (mm) | Art. No. | Pack Qty.  |  |
|-------------|----------------|-------------|-----------------|----------|------------|--|
| Millex®-LLG | 0,2            | Non-sterile | 25              | XE33.1   | 50 unit(s) |  |
| Millex®-LCR | 0,45           | Non-sterile | 25              | XE34.1   | 50 unit(s) |  |

## Polyvinylidene fluoride (PVDF)

Hydrophilic Durapore® membrane with glass fibre prefilter. Very low protein binding, for clear filtration of protein solutions with a high particle load.

| Type       | Pore size (µm) | Sterility   | Ø Membrane (mm) | Art. No. | Pack Qty.  |  |
|------------|----------------|-------------|-----------------|----------|------------|--|
| Millex®-HV | 0,45           | Non-sterile | 25              | XE32.1   | 50 unit(s) |  |



# Filter units



S

## Filter units Millex® PES

MERCK MILLIPORE. **Sterile.**

Express® PES membrane with low protein binding and high flow speed. For sterile filtration of cell culture media and other aqueous solutions. With optional filling bell for reducing the risk of contamination.

The dead volume given refers to the volume left in the filter after purging the filter with air.

### Technical specifications:

| Art. No.                     | CY11.1                                                      | CY12.1 |
|------------------------------|-------------------------------------------------------------|--------|
| Ø Membrane                   | 50 mm                                                       |        |
| Housing material             | MBS                                                         |        |
| Sample volume                | ~4000 ml                                                    |        |
| Dead volume                  | <1000 µl                                                    |        |
| Filtration area              | 19.6 cm²                                                    |        |
| Max. operating pressure      | 3.4 bar                                                     |        |
| Max. application temperature | 45 °C                                                       |        |
| Inlet connection             | stepped tube connection (Ø 6–13 mm) with internal Luer Cone |        |
| Outlet connection            | stepped tube connection (Ø 6–13 mm) with internal Luer Cone |        |

| Type                         | Pore size (µm) | Membrane material | Sterility      | Art. No.      | Pack Qty.  |  |
|------------------------------|----------------|-------------------|----------------|---------------|------------|--|
| Millex®-GP                   | 0,22           | PES               | <b>Sterile</b> | <b>CY11.1</b> | 10 unit(s) |  |
| Millex®-GP with filling cone | 0,22           | PES               | <b>Sterile</b> | <b>CY12.1</b> | 10 unit(s) |  |



S

## Filter units Sterivex™

MERCK MILLIPORE. **Sterile.**

For the sterile filtration of aqueous liquids. Filter units can be operated with syringe pumps or hose pumps. With optional filling bell for reducing the risk of contamination.

The dead volume given refers to the volume left in the filter after purging the filter with air.

### Technical specifications:

| Art. No.                     | CT79.1           | CT80.1 | CT81.1 | CT82.1 | CT83.1  | CT84.1 |
|------------------------------|------------------|--------|--------|--------|---------|--------|
| Housing material             | Eastar®          |        |        |        |         |        |
| Sample volume                | 1000 ml          |        |        |        | 2000 ml |        |
| Dead volume                  | <200 µl          |        |        |        |         |        |
| Filtration area              | 10 cm²           |        |        |        |         |        |
| Max. operating pressure      | 3 bar            |        |        |        |         |        |
| Max. application temperature | 45 °C            |        |        |        |         |        |
| Inlet connection             | female Luer Lock |        |        |        |         |        |
| Outlet connection            | male Luer Lock   |        |        |        |         |        |

## Durapore® (PVDF) membrane

With extremely low protein binding. Filtration volume approx. 1 litre.

| Type                 | Pore size (µm) | Membrane material | Sterility      | Art. No.      | Pack Qty.  |  |
|----------------------|----------------|-------------------|----------------|---------------|------------|--|
| With filling bell    | 0,22           | PVDF              | <b>Sterile</b> | <b>CT79.1</b> | 10 unit(s) |  |
| Without filling bell | 0,22           | PVDF              | <b>Sterile</b> | <b>CT80.1</b> | 15 unit(s) |  |
| With filling bell    | 0,45           | PVDF              | <b>Sterile</b> | <b>CT81.1</b> | 10 unit(s) |  |
| Without filling bell | 0,45           | PVDF              | <b>Sterile</b> | <b>CT82.1</b> | 15 unit(s) |  |

## Millipore Express® (PES) membrane

With low protein binding and high flow speed. Filtration volume approx. 2 litres.

| Type                 | Pore size (µm) | Membrane material | Sterility      | Art. No.      | Pack Qty.  |  |
|----------------------|----------------|-------------------|----------------|---------------|------------|--|
| With filling bell    | 0,22           | PES               | <b>Sterile</b> | <b>CT83.1</b> | 10 unit(s) |  |
| Without filling bell | 0,22           | PES               | <b>Sterile</b> | <b>CT84.1</b> | 15 unit(s) |  |

# Filter units



S

## Filter units Steripak™

MERCK MILLIPORE. **Sterile.**

**Disposable filter units for sterile filtration of large volumes up to 20 l.**

With Millipore Express® (PES) membranes with high flow rate and low protein binding. Packaged ready to use, for operation with hose pumps or pressurised containers.

- Filling bell on the outlet side of the unit increases the safety of the sterilisation process
- Manual ventilation opening prevents air blocking the membrane
- For sterile filtration of tissue culture media, buffers and other aqueous solutions

The dead volume given refers to the volume left in the filter after purging the filter with air.

### Technical specifications:

| Art. No.                     | CT85.1                                   | CT86.1   |
|------------------------------|------------------------------------------|----------|
| Ø ext.                       | 76 mm                                    |          |
| Housing material             | SAN                                      |          |
| Sample volume                | 10000 ml                                 | 20000 ml |
| Dead volume                  | <2700 µl                                 |          |
| Filtration area              | 100 cm²                                  | 200 cm²  |
| Max. operating pressure      | 5.2 bar                                  |          |
| Max. application temperature | 45 °C                                    |          |
| Inlet connection             | stepped tube connection (Ø 6–8 mm)       |          |
| Outlet connection            | stepped tube connection and filling bell |          |

| Type  | Pore size (µm) | Membrane material | Sterility      | Art. No.      | Pack Qty. |  |
|-------|----------------|-------------------|----------------|---------------|-----------|--|
| GP 10 | 0,22           | PES               | <b>Sterile</b> | <b>CT85.1</b> | 3 unit(s) |  |
| GP 20 | 0,22           | PES               | <b>Sterile</b> | <b>CT86.1</b> | 3 unit(s) |  |



## Centrifuge filter unit Ultrafree

MERCK MILLIPORE.

Centrifuge filter units for sample volumes of no more than 0.5 or 2.0 ml. For use in fixed-angle rotors for 1.5 or 15 ml sample tubes. Filter unit and collector tube are made of PP.

- **Hydrophilic Durapore® PVDF-membrane:** Extremely low protein binding. Suitable for removal of particulate matter and precipitate from aqueous samples, and for protein and nucleic acid applications
- **Hydrophilic PTFE membrane:** for removal of precipitate from solvent-based samples

### Procedure:

- Open the attached lid of the filter unit
- Fill the insert with the volume of sample
- Close the filtration unit and insert it in the centrifuge
- On completion of centrifuging, remove the filtration unit, open the lid and remove the insert
- The insert contains the residue and the sealable housing contains the filtrate

**Ultrafree-MC: PVDF membrane, sample volume up to 0.5 ml**

Filter insert volume max. 0.5 ml, collector tube volume 1.5 ml.

### Technical specifications:

| Art. No.                     | T341.1       | T342.1 | XH78.1 | T343.1 | XH80.1 | T344.1 | XH79.1 |
|------------------------------|--------------|--------|--------|--------|--------|--------|--------|
| Version                      | Ultrafree-MC |        |        |        |        |        |        |
| Sample volume                | ≤ 0,5 ml     |        |        |        |        |        |        |
| Centrifugability in g (max.) | 12,000       |        |        |        |        |        |        |
| Filtration area              | 0.2 cm²      |        |        |        |        |        |        |
| Dead volume                  | 5 µl         |        |        |        |        |        |        |
| Ø ext.                       | 10.6 mm      |        |        |        |        |        |        |
| Height                       | 45 mm        |        |        |        |        |        |        |

| Membrane material | Pore size (µm) | Sterility      | Colour coding | Art. No.      | Pack Qty.   |  |
|-------------------|----------------|----------------|---------------|---------------|-------------|--|
| PVDF              | 0,10           | Non-sterile    | orange        | <b>T341.1</b> | 25 unit(s)  |  |
| PVDF              | 0,22           | Non-sterile    | yellow        | <b>T342.1</b> | 25 unit(s)  |  |
| PVDF              | 0,22           | <b>Sterile</b> | yellow        | <b>XH78.1</b> | 50 unit(s)  |  |
| PVDF              | 0,45           | Non-sterile    | red           | <b>T343.1</b> | 25 unit(s)  |  |
| PVDF              | 5,0            | Non-sterile    | dark green    | <b>XH80.1</b> | 100 unit(s) |  |
| PVDF              | 0,65           | Non-sterile    | purple        | <b>T344.1</b> | 25 unit(s)  |  |
| PVDF              | 0,65           | <b>Sterile</b> | purple        | <b>XH79.1</b> | 50 unit(s)  |  |



# Centrifuge filter units

## Ultrafree-MC: Hydrophilic PTFE membrane, sample volume up to 0.5 ml

Filter insert volume max. 0.5 ml, collector tube volume 1.5 ml.

### Technical specifications:

| Art. No.                     | XH81.1              | XH82.1 |
|------------------------------|---------------------|--------|
| Version                      | Ultrafree-MC        |        |
| Sample volume                | ≤ 0.5 ml            |        |
| Centrifugability in g (max.) | 12,000              |        |
| Filtration area              | 0.2 cm <sup>2</sup> |        |
| Dead volume                  | 5 µl                |        |
| Ø ext.                       | 10.6 mm             |        |
| Height                       | 45 mm               |        |

| Membrane material | Pore size (µm) | Sterility   | Colour coding | Art. No. | Pack Qty.  |  |
|-------------------|----------------|-------------|---------------|----------|------------|--|
| Hydrophilic PTFE  | 0,20           | Non-sterile | yellow        | XH81.1   | 25 unit(s) |  |
| Hydrophilic PTFE  | 0,45           | Non-sterile | red           | XH82.1   | 25 unit(s) |  |

## Ultrafree-CL: PVDF membrane, sample volume up to 2.0 ml

Filter insert volume max. 2 ml, collector tube volume 5 ml.

### Technical specifications:

| Art. No.                     | T345.1              | T346.1 | XH83.1 | T347.1 | XH85.1 | XH84.1 |
|------------------------------|---------------------|--------|--------|--------|--------|--------|
| Version                      | Ultrafree-CL        |        |        |        |        |        |
| Sample volume                | ≤ 2 ml              |        |        |        |        |        |
| Centrifugability in g (max.) | 5,000               |        |        |        |        |        |
| Filtration area              | 0.8 cm <sup>2</sup> |        |        |        |        |        |
| Dead volume                  | 10 µl               |        |        |        |        |        |
| Ø ext.                       | 16.3 mm             |        |        |        |        |        |
| Height                       | 77 mm               |        |        |        |        |        |

| Membrane material | Pore size (µm) | Sterility   | Colour coding | Art. No. | Pack Qty.  |  |
|-------------------|----------------|-------------|---------------|----------|------------|--|
| PVDF              | 0,10           | Non-sterile | orange        | T345.1   | 25 unit(s) |  |
| PVDF              | 0,22           | Non-sterile | yellow        | T346.1   | 25 unit(s) |  |
| PVDF              | 0,22           | Sterile     | yellow        | XH83.1   | 50 unit(s) |  |
| PVDF              | 0,45           | Non-sterile | red           | T347.1   | 25 unit(s) |  |
| PVDF              | 5,0            | Non-sterile | dark green    | XH85.1   | 25 unit(s) |  |
| PVDF              | 0,65           | Non-sterile | purple        | XH84.1   | 25 unit(s) |  |

## Ultrafree-CL: Hydrophilic PTFE membrane, sample volume up to 2.0 ml

Filter insert volume max. 2 ml, collector tube volume 5 ml.

### Technical specifications:

| Art. No.                     | XH86.1              | XH87.1 |
|------------------------------|---------------------|--------|
| Version                      | Ultrafree-CL        |        |
| Sample volume                | ≤ 2 ml              |        |
| Centrifugability in g (max.) | 5,000               |        |
| Filtration area              | 0.8 cm <sup>2</sup> |        |
| Dead volume                  | 10 µl               |        |
| Ø ext.                       | 16.3 mm             |        |
| Height                       | 77 mm               |        |

| Membrane material | Pore size (µm) | Sterility   | Colour coding | Art. No. | Pack Qty.  |  |
|-------------------|----------------|-------------|---------------|----------|------------|--|
| Hydrophilic PTFE  | 0,22           | Non-sterile | yellow        | XH86.1   | 25 unit(s) |  |
| Hydrophilic PTFE  | 0,45           | Non-sterile | red           | XH87.1   | 25 unit(s) |  |



S

## Vacuum filter unit Steriflip®

MERCK MILLIPORE. Material: PP, modified acrylic (MBS). **Sterile.**

### For filtration of sample volumes up to 50 ml.

- **Millipore Express® PES membrane** with high flow rate and low protein binding: For routine sterile filtration of tissue culture media, sera, buffers and other aqueous solutions
- **Durapore® PVDF membrane** with very low protein binding: For sterile and clear filtration of aqueous solutions
- **Hydrophilic nylon mesh filter:** For removing coarse particulate matter, e.g. for applications with stem, heart muscle and nerve cells, or skeletal tissue

### Procedure:

Connect the filter unit to the centrifuge tube containing the sample. Rotate the filter unit through 180° and apply vacuum.

Optional: Screw the funnel attachment onto the sterile filter unit, fill with the sample and apply vacuum, Steriflip® filter unit filters directly into a sterile 50 ml centrifuge tube.

### Technical specifications:

| Art. No.                     | XH01.1            | X348.1 | XE99.1 | XH02.1 | XH00.1 | XH03.1 | XH04.1 |
|------------------------------|-------------------|--------|--------|--------|--------|--------|--------|
| Sample volume                | 50 ml             |        |        |        |        |        |        |
| Filtration area              | 7 cm <sup>2</sup> |        |        |        |        |        |        |
| Dead volume                  | 600 µl            |        |        |        |        |        |        |
| Max. application temperature | 45 °C             |        |        |        |        |        |        |

**Delivery incl.** fitted 50 ml centrifuge tube and lid (each packaged separately) and a single tube holder (blue).

**Delivery without** funnel attachment or second 50 ml centrifuge tube (e.g. Art. No. N462.1), please order separately.

| Membrane material | Pore size (µm) | Sterility | Art. No. | Pack Qty.  |  |
|-------------------|----------------|-----------|----------|------------|--|
| Nylon             | 20             | Sterile   | XH01.1   | 25 unit(s) |  |
| PES               | 0,22           | Sterile   | X348.1   | 25 unit(s) |  |
| PVDF              | 0,22           | Sterile   | XE99.1   | 25 unit(s) |  |
| Nylon             | 40             | Sterile   | XH02.1   | 25 unit(s) |  |
| PVDF              | 0,45           | Sterile   | XH00.1   | 25 unit(s) |  |
| Nylon             | 60             | Sterile   | XH03.1   | 25 unit(s) |  |
| Nylon             | 100            | Sterile   | XH04.1   | 25 unit(s) |  |

## Accessories Funnel attachment for Steriflip® vacuum filter unit

MERCK MILLIPORE.

| Type                                      | Art. No. | Pack Qty.  |  |
|-------------------------------------------|----------|------------|--|
| Funnel attachment, 50 ml, PP, non-sterile | XH05.1   | 25 unit(s) |  |

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**Казахстан** (772)734-952-31

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