

# MicroFunnel™ Plus filter funnels

## Key benefits

- Revolutionize water system monitoring and eliminate the risk of contamination with a combined sample cup and filter funnel.
- MicroFunnel™ Plus filter funnels are designed to be a sample container and filter funnel all in one. No need to transfer sample from cup to disposable funnel and risking contamination.
- MicroFunnel Plus AP filter funnels allow aseptic sample collection through the lid sample port on the filter funnel. No need to remove lid.
- MicroFunnel Plus products with Supor™ membranes are designed to allow hot water sampling up to 90°C.
- Vented lid snaps to a liquid-tight seal and allows filtration without having to open the funnel and risking contamination.
- Vent filter ensures no airborne contamination is drawn into the funnel during filtration.
- Each unit is individually bagged and labeled for optimized sterility and lot traceability. Some products have an overpack bag to facilitate an easier transfer of multiple units into cleanroom areas or testing hoods.
- Graduations marked on the outside of the cylinder provide accuracy in sample measurement and a smooth interior surface to ensure all liquid is evacuated. This reduces the possibility of false negatives.

## Applications

Monitoring purified water systems are one of the most important quality control activities in a manufacturing setting. Any improvements you can make to your protocol can free up time, space, and money in a busy laboratory. MicroFunnel filter funnels improve the efficiency of monitoring water systems with increased protection from contamination. Remove the lid and collect your water sample in the MicroFunnel Plus filter funnel and snap the vented lid to a liquid-tight seal to transport the protected sample back to the laboratory. MicroFunnel Plus AP aseptically collect your sample by attaching the sterile sampling tube (sold separately, product code 4845) from the funnel directly to the sample port on a water line. The vented lid allows filtration without opening the filter funnel.



Fig 1. MicroFunnel Plus filter funnels.

These combined features reduce the amount of supplies needed for water monitoring and eliminate steps that can contaminate your sample.

- The Supor polyethersulfone (PES) membrane is designed for sampling hot water, such as found in hot loop WFI systems.
- Gridded 0.45 µm membrane is suitable for analysis of ambient water by membrane filter (MF) technique.
- The MicroFunnel Plus filter funnel can be used to sample and test any hot or cold liquid products including water from any point in the production process. They can also be used to test raw materials, intermediates, and final product.

## Specifications

### Membrane selection

#### **ME25 and GN6 membrane**

A 0.45 µm mixed cellulose ester (MCE) membrane, commonly used in the MF technique for determination of microbial contamination.

#### **Supor membrane**

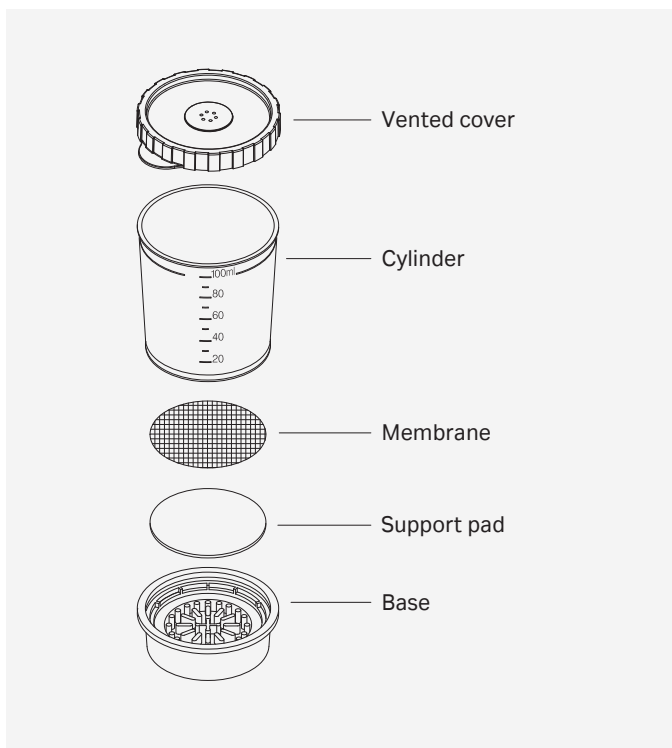
A 0.2 µm PES membrane featuring low binding characteristics and superior retention of small organisms such as *Pseudomonas sp.*

#### **Metrical™ black membrane**

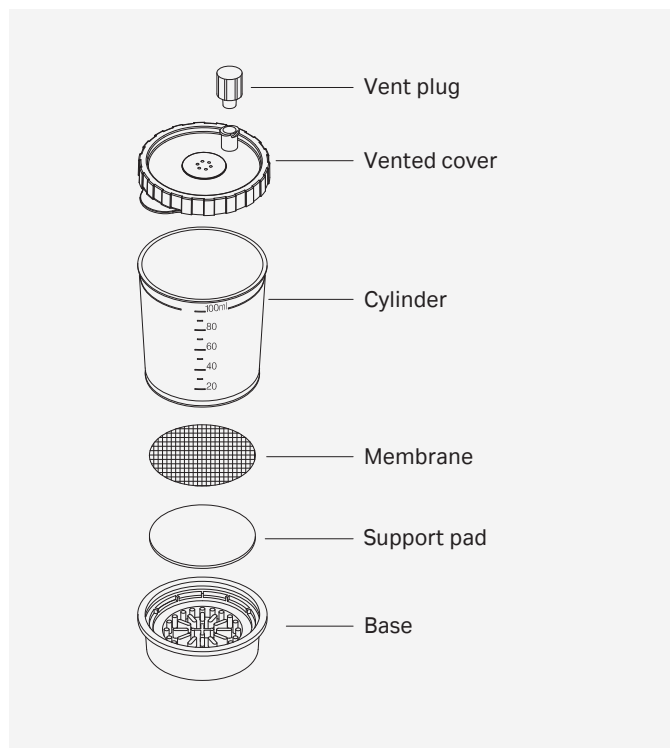
A 0.45 µm black PES membrane that provides contrast for counting light colored colonies.

# MicroFunnel filter funnel component diagrams

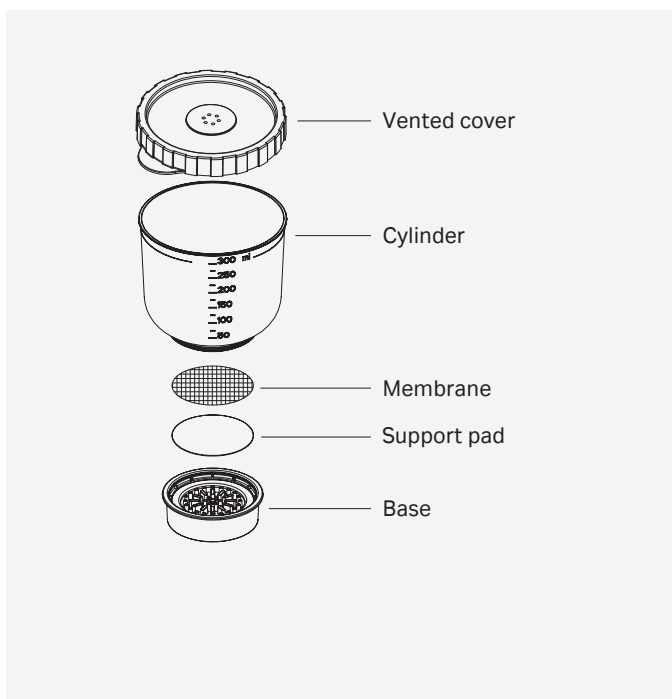
## 100 mL MicroFunnel Plus filter funnel



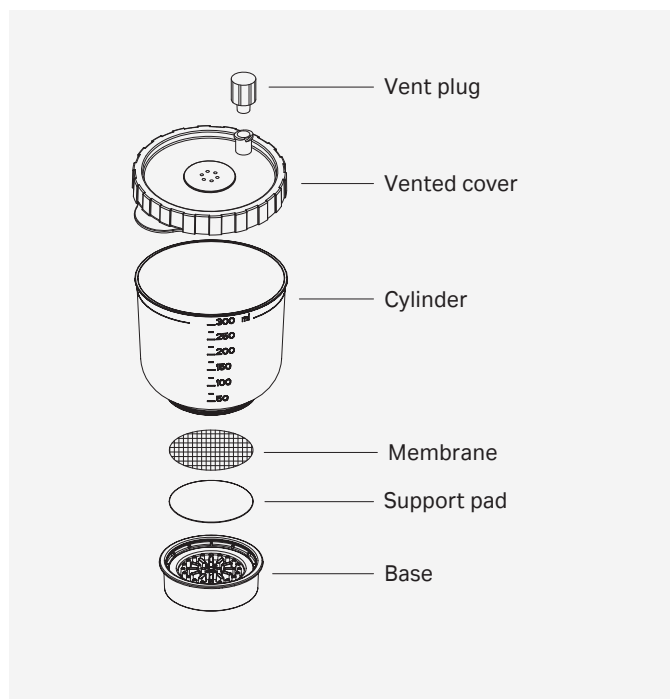
## 100 mL MicroFunnel Plus filter funnel with AP



## 300 mL MicroFunnel Plus filter funnel



## 300 mL MicroFunnel Plus filter funnel with AP



# Instructions for use

## Sampling ambient water using the MicroFunnel Plus filter funnel



1. Carefully remove the vented lid and collect the sample.



2. Securely snap lid in place to prevent sample loss. Transport sample to laboratory for filtration.



3. Remove membrane vent from base, place funnel directly onto manifold, and filter the sample.



4. Gently grasp funnel then remove and discard lid.



5. Release cylinder from base by squeezing the midpoint of the cylinder.



6. Remove the membrane, plate the filter, and incubate.

## Collecting hot water samples using the MicroFunnel Plus filter funnel



1. Place funnel into holder with graduations visible through the viewing slot. Carefully remove the vented lid and collect the hot water sample.



2. With funnel and holder resting on a firm, level surface, securely snap lid in place to prevent sample loss. Remove funnel from holder and transport sample to laboratory for filtration.

(Proceed with steps 3-6 for ambient water.)

Note: When using this product for sampling hot water, observe safety precautions which include the use of insulated rubber gloves, safety glasses, and funnel holder.

## Sample collection using the MicroFunnel Plus AP filter funnel



1. Remove the lid plug on the MicroFunnel Plus AP sample port. Open the sampling tube bag at one end and place the tube on the sample port.



2. Remove the sampling tube bag and connect the other end of the tube to the sanitized sample port.



3. After the sample is collected, remove the tube and replace the lid plug. Transport sample to laboratory for filtration.

(Proceed with steps 3-6 for ambient water.)

# Ordering information

## MicroFunnel Plus filter funnels

Description	Packaging	Product code
100 mL with ME25 MCE membrane 0.45 µm white gridded individually bagged gamma-irradiated	50/pkg	4807ME
300 mL with ME25 MCE membrane 0.45 µm white gridded individually bagged gamma-irradiated	20/pkg	4829ME
100 mL with GN6 MCE membrane 0.45 µm white gridded individually bagged gamma-irradiated	50/pkg	4807
300 mL with GN6 MCE membrane 0.45 µm white gridded individually bagged gamma-irradiated	20/pkg	4829
100 mL with Supor PES membrane 0.2 µm white gridded individually bagged gamma-irradiated	50/pkg	4809
100 mL with Supor PES membrane 0.45 µm white gridded individually bagged gamma-irradiated	50/pkg	4823
300 mL with Supor PES membrane 0.2 µm white gridded individually bagged gamma-irradiated	20/pkg	4813
300 mL with Supor PES membrane 0.2 µm white gridded overpack bagged gamma-irradiated	20/pkg	4857*
300 mL with Supor PES membrane 0.45 µm white gridded individually bagged gamma-irradiated	20/pkg	4814
300 mL with Supor PES membrane 0.45 µm white gridded overpack bagged gamma-irradiated	20/pkg	4858*
100 mL with MetriceL Black PES membrane 0.45 µm black gridded individually bagged gamma-irradiated	50/pkg	4808

\* Packaged 5 individually bagged funnels per overpack bag; 4 overpack bags per box

## MicroFunnel Plus AP filter funnels

Description	Packaging	Product code
100 mL with GN6 MCE membrane 0.45 µm white gridded individually bagged gamma-irradiated	50/pkg	4856
100 mL with Supor PES membrane 0.45 µm white gridded individually bagged gamma-irradiated	50/pkg	4844
100 mL with Supor PES membrane 0.45 µm white gridded individually bagged gamma-irradiated	40/pkg	4859
300 mL with Supor PES membrane 0.45 µm white gridded individually bagged gamma-irradiated	20/pkg	4855

## Microbiology manifold

3-place manifold including 3 valves, 1 end cap, 1 hose barb cap	1 set/pkg	4889
MicroFunnel filter funnel adapters	3/pkg	4890
Coupling device	1/pkg	4893
Spare O-ring kit	1 set/pkg	4878
Manifold replacement valve	1/pkg	4894

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