

Sterile Particle Extractor

Instructions for Use



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Product Information			
Product	Part No.	Manual Part No.	Manual Rev. Date
Sterile Particle Extractor	7000-170-100-01	8700-170-500-01	September 14, 2023

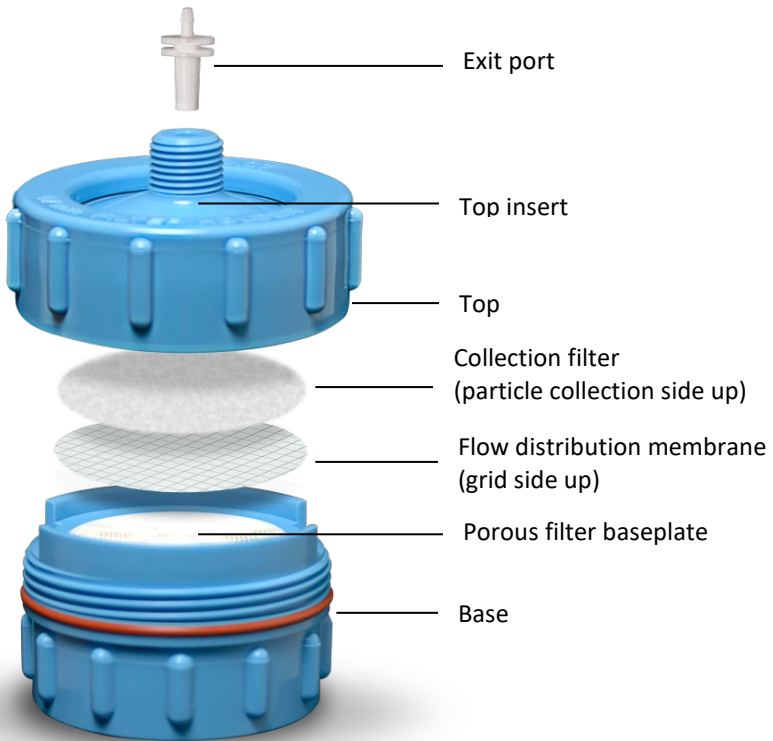
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Sterile Particle Extractor

Instructions for Use

The Sterile Particle Extractor is a simple tool for transferring captured particles from a dry filter to a sample solution.



What's in the Kit

- 47-mm filter holder device (provided sterilized in a 5.25 X 10-inch sterile pouch)
- Sterile flow distribution membranes, 100 count. (Please reorder direct from manufacturer: coleparmer.com, part no. EW-06644-14, MCE gridded, 0.45µm, 47mm dia.)
- Sterile packaged 10 ml BD syringe
- Exit port (Luer male 1/16 tube fitting)
- 12" blue silicone tubing

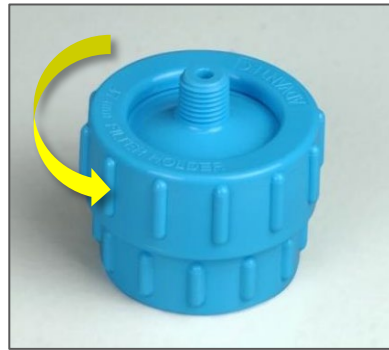


Other Required Supplies (not provided)

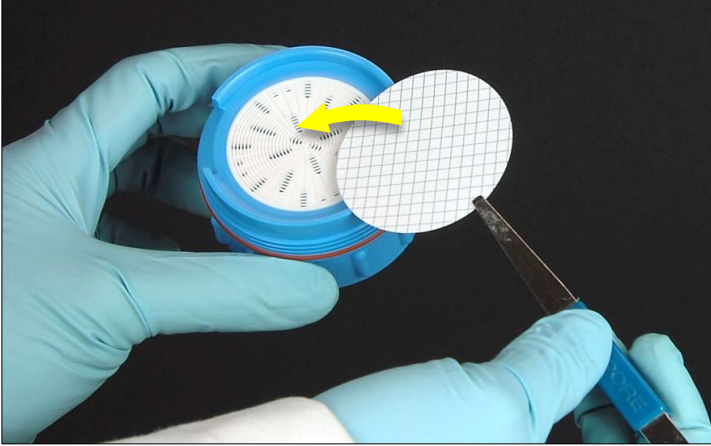
- Sample collection filters. Recommended: Research International P/N 7100-134-232-01 (standard) or 7100-134-233-01 (HEPA)
- Laminar flow hood
- Sterile forceps
- 5.25 X 10-inch sterile pouch for re-sterilization (Fisher Scientific #01-812-54)
- Extraction fluid
- Empty vial
- Laboratory vial stand

Procedure

1. Open the sterile pouch and remove the autoclaved 47-mm filter holder. Turn the top section counter-clockwise to detach.



- Using sterile forceps, place the flow distribution membrane onto the porous filter baseplate of the filter holder. Set aside.



- In a sterile, laminar flow hood, remove the used filter cartridge from the SASS 3100.



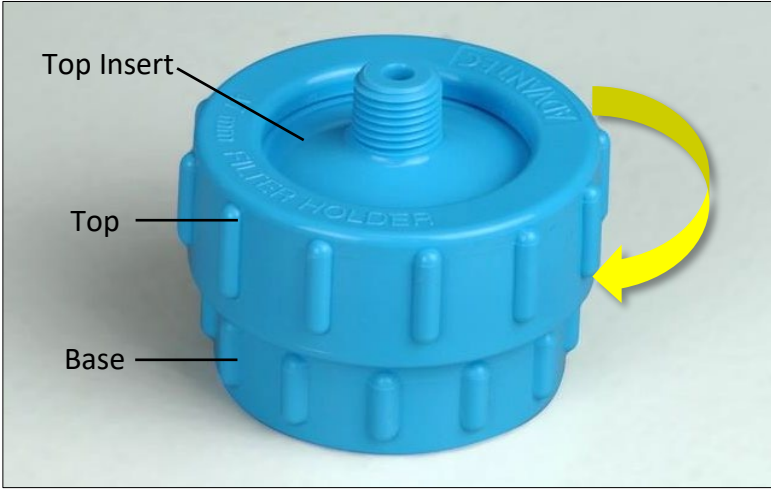
4. With a sterile forceps, pull the filter out of its plastic ring. Note which is the particle collection side (i.e., facing upward when installed on the SASS 3100).



5. Using the sterile forceps, place the collection filter, **particle collection side up**, on top of the flow distribution membrane.



6. Place the insert on the base and attach the top of the filter holder. Turn top clockwise *firmly* to tighten.



If top is not tightened sufficiently, fluid may leak around the edges of the flow distribution membrane when fluid is injected in step 11.

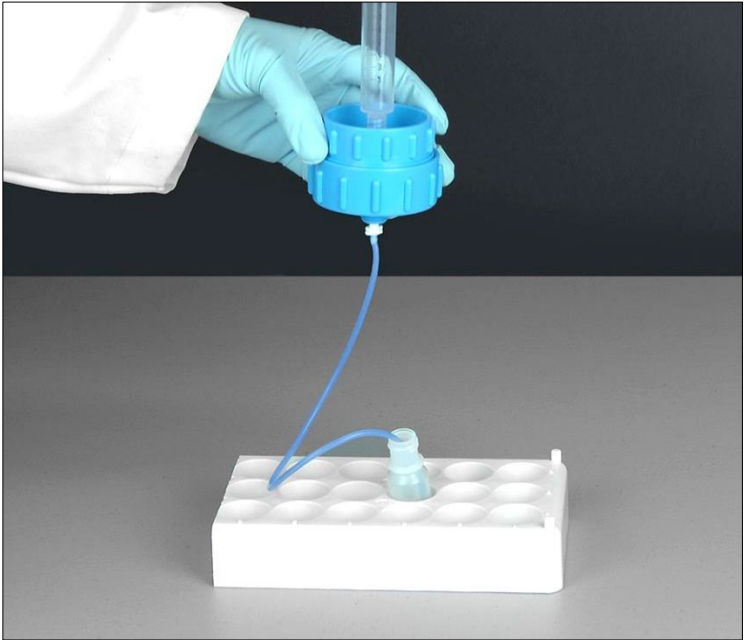
7. Attach the silicone tube to the exit port. Insert the white exit port firmly into the top of the filter holder.



- 8. Attach the syringe barrel to the base of the filter holder as shown.



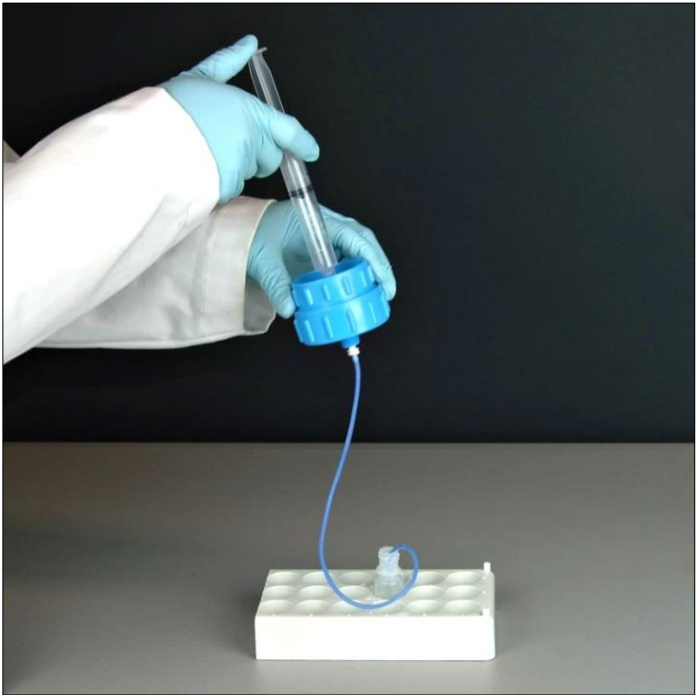
- 9. Place the end of the silicone tube into the collection bottle as shown.



10. Pour the contents of the sterile extraction fluid bottle into the syringe barrel.



11. Insert the plunger into the barrel of the syringe. Inject the extraction fluid.



12. Detach the syringe from the filter holder. Pull back on the plunger to fill syringe with air. Re-attach and inject the air through the filter to force any remaining sample into the collection bottle.
13. Cap the sample bottle and label with an identifying number for analysis.

Equipment Reuse Procedure

1. Disassemble the filter holder and discard the collection filter, the flow distribution membrane, and the syringe.
2. Rinse and dry the filter holder.
3. Seal the filter holder in a steam permeable bag (5.25 X 10-inch sterile pouch Fisher Scientific #01-812-54) and autoclave. Dry the bag in an oven at 60°C.



Never reuse the filter cartridge or the flow distribution membrane!

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