



Magnetic Filter Funnels



- No-leak magnetic seal allows one-handed operation.
- Ideal for the analysis of microbiological or particulate contamination in liquids using the Membrane Filter (MF) Technique.
- Polyphenylsulfone construction provides durability and added safety over glass funnels.
- New Sentino magnetic filter funnel designed for use with the Sentino pump for water quality testing.

Ordering Information

Standard Magnetic Filter Funnels, 47 mm

Part Number	Description	Pkg
4247	150 mL capacity	1/pkg
4242	300 mL capacity	1/pkg
4241	300 mL capacity, with lid	1/pkg
4238	500 mL capacity	1/pkg

Sentino™ Magnetic Filter Funnels, 47 mm

Part Number	Description	Pkg
4271	150 mL capacity	1/pkg
4273	300 mL capacity	1/pkg
4277	500 mL capacity	1/pkg

Accessories

Part Number	Description	Pkg
4235	Stainless steel support screen	1/pkg
4246	Lid kit (for 300 mL funnel only)	1/pkg
4244	Base, without support screen	1/pkg
4279	Base, with support screen for use with Sentino pump	1/pkg
4248	150 mL funnel housing	1/pkg
4243	300 mL funnel housing	1/pkg
4254	500 mL funnel housing	1/pkg
4283	Adapter (polyphenylsulfone) for use with Sentino pump	1/pkg
4285	Drive tubing for Sentino pump; thermoplastic elastomer, 3/16 in. ID x 5/16 in. OD, 2 ft length	10/pkg
82728	No. 8 rubber stopper	1/pkg
87264	Polyphenylsulfone support screen	1/pkg

Specifications

Materials of Construction

Funnel Body, Stem, Support Screen, and Lid: Polyphenylsulfone
Lid Plugs: Polypropylene

Filter Size

47 mm

Funnel Capacity

150, 300, or 500 mL

Effective Filtration Area

150 and 300 mL: 9.6 cm², 37 mm effective diameter
500 mL: 13.1 cm², 41 mm effective diameter

Dimensions

Height: Standard Magnetic Filter Funnel

150 mL: 17.8 cm (7.0 in.)

300 mL: 22.9 cm (9.0 in.)

500 mL: 19.6 cm (7.7 in.)

Sentino Magnetic Filter Funnel

150 mL: 11.8 cm (4.6 in.)

300 mL: 16.8 cm (6.6 in.)

500 mL: 16.6 cm (6.5 in.)

Diameter: 150 and 300 mL: 7.6 cm (3 in.)

500 mL: 8.9 cm (3.5 in.)

Pressures

Vacuum use only

Sterilization

Provided non-sterile; autoclavable if desired at 121–123 °C (250–253 °F) at approximately 1.0 bar (100 kPa, 15 psi) for 15–20 minutes.[†]

Instructions for Use

When filtering samples for microbiological analysis, it is recommended that standard aseptic technique be used whenever possible.

1. Be sure support screen is firmly seated in the funnel base.
2. Install base onto filtration platform.
 - a. If using standard manifold or filter flask: press stem with No. 8 stopper firmly into manifold or filter flask. Be sure stopper fits snugly to prevent leakage.
 - b. If using Sentino pump: Load fluid path and press Sentino magnetic filter funnel into adapter.
 - 1) Press tubing onto hose barb of adapter (PN 4283).
 - 2) With the Sentino pump positioned on benchtop, open pump loading door fully.
 - 3) Slide adapter into the guide on the pump housing until it is firmly seated.
 - 4) Tuck the pump drive tubing into the slot in the pump head and position the tube into the guide slot in the base.
 - 5) Remove tubing slack by pulling the tubing against the rollers as you close pump loading door to a snap-closed position.

Note: For optimal performance, trim and discard the small portion of tubing in contact with the rollers once a day.



[†]Repeated use of detergents containing polyoxyethylated alkyl phenols and alcohols, and/or anti-corrosion, anti-scaling boiler additives that may carry over in steam, may cause polyphenylsulfone to crack, thereby reducing the life of the product. Do not autoclave rubber stopper. Do not autoclave with aluminum foil; use autoclave paper. Consult Technical Service if using for thin membrane such as track-etched material.

Instructions for Use (continued)

3. Place 47 mm filter over the support screen on the funnel base. Use circular ridge to guide membrane into position.
4. Place funnel housing on top of base. Magnetic force will seal membrane in place between funnel housing and base.
5. Filter and rinse sample using standard guidelines for MF Technique.
6. Remove funnel housing by applying a slight downward pressure as you tip the cylinder to break the magnetic force then lift the cylinder away from the base.

Note: When using the Sentino magnetic filter funnel with the Sentino pump, it is best to position the pump to accommodate the optimal leverage point for either right or left-handed use:



7. Retrieve membrane for culturing or analysis using the forceps access point and gently lifting upward.

WARNING

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