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47 mm Glass Vacuum Filter Holders

Introduction

Clamped vacuum filter holders are available in a variety of sizes and configurations for use in the vacuum filtration of liquids to produce clarified or particulate-free filtrate, or to analyze particulate or biological contamination retained on the filter surface. When using cat. no. XX1014700 or XX5014700 glass filter holders in sterile procedures, you must aseptically install a sterile filter in the separately sterilized filter holder. The polytetrafluoroethylene (PTFE)-faced glass 47 millimeter (mm) filter holder (XX1014720) may be autoclaved with the filter in place.

Typical Applications	Correct Filter Holder to Use	Funnel Volume	Filter Support	Flask Attachment
Bacteriological analysis of water (using 47 mm sterile membrane filters)	XX1014700 or	300 mL or	Coarse-frit glass (40–60 micron [µm])	Silicone stopper
Analysis of suspended solids in water (using 47 mm depth filters)	XX5014700	500 mL		
Bacteriological analysis applications where autoclaving filter holder with membrane in place is required	XX1014720	300 mL	PTFE-faced coarse-frit glass (40–60 µm)	Silicone stopper
Particle contamination analysis of oils and hydraulic fluids by gravimetric or particle counting methods	XX1014730	300 mL	Stainless steel (125 µm mesh)	Silicone stopper
Production of clarified/particulate-free filtrate ¹				
Particle contamination analysis of aqueous and organic or corrosive liquids	XX1514700 or	300 mL or	Coarse-frit glass (40–60 µm)	Ground glass
HPLC solvent preparation ²	XX5514700	500 mL		

¹ Do not use filter holders with coarse-frit glass filter supports to produce particulate-free filtrate because they are more difficult to clean thoroughly and may introduce contaminants from previous filtrations.

² To avoid solvent and buffer cross-contamination, EMD Millipore Corporation recommends a dedicated filtration system for each solvent and use of a new filter to process each batch of solvent.

 **WARNING:** Do not use glass 47 mm filter holders (XX1014700, XX1014720, XX1014730, XX1514700, XX5014700, and XX5514700) for filtering flammable liquids. Instead, use the Hydrosol™ Stainless Steel Filter Holder (XX2004720), fitted with grounding screw and ground wire set for this application.

Additional Equipment Required

- 47 mm filter appropriate for your application; see the product catalogue for options
- Filter forceps (cat. no. XX6200006P)
- For filter holders with a silicone stopper: 1 liter (L) vacuum filtering flask (cat. no. XX1014705 or XX1514706) or a filtering manifold (refer to **Ordering Information**)
- Vacuum source, either central laboratory vacuum or a portable vacuum pump. See **Ordering Information** for available models.
- Vacuum tubing, 3/16 inch (in.) (4.8 mm) inner diameter (ID) silicone rubber (cat. no. XX7100004)

For sterile applications:

- Funnel cover for 300 milliliter (mL) funnel (cat. no. XX2504754)
- Autoclave pouch/paper or nonwoven high density polyethylene (HDPE) material, autoclave tape

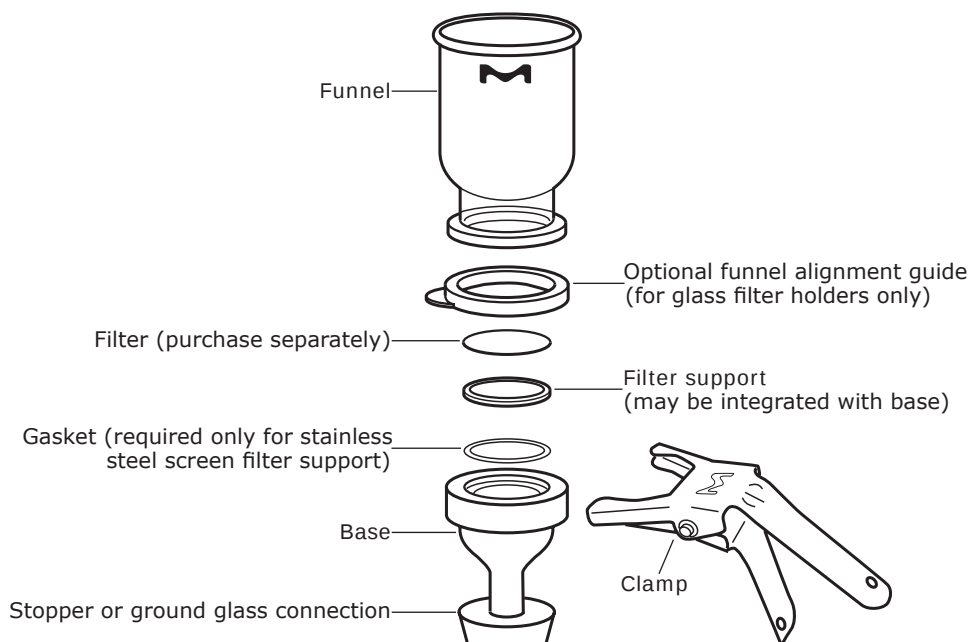
Precautions

- Use appropriate personal protective equipment when working with vacuum filter holders.
- Follow safe handling guidelines for laboratory glassware when working with the glass vacuum filter holders.
- Although these products are rated for 948 mbar (28 in. Hg), it is not necessary to apply maximum vacuum pressure to achieve a reasonable filtration rate. Whenever possible, operate at lower vacuum pressure in order minimize the potential for glassware breakage due to implosion.

Precautions, continued

- Before use, soak new glassware in 1% hydrochloric or nitric acid for several hours, then wash and rinse thoroughly with laboratory grade water. This neutralizes the slight alkalinity of new glass and ensures that loose particles are removed from the fritted glass filter support. Refer to the **Cleaning** section for further details on cleaning after use.
NOTE: The stainless steel screen filter support and gasket supplied with cat. no. XX1014730 do not need to be soaked in acid.

Components of a Typical Clamped Vacuum Filter Holder



Specifications

Materials				
Funnel and base	XX1014700 and XX5014700: Borosilicate glass with coarse-frit glass filter support XX1014720: Borosilicate glass with coarse-frit glass filter support, PTFE-faced XX1014730: Borosilicate glass with stainless steel screen filter support and PTFE gasket XX1514700 and XX5514700: Borosilicate glass with coarse-frit glass filter support			
Clamp	Anodized aluminum			
Stopper	Parylene-coated silicone rubber			
Funnel alignment guide	Silicone			
Filter diameter	47 mm			
Effective filter area	Approximately 9.6 square centimeters (cm ²) (1.5 in ²)			
Funnel capacity	XX1014700, XX1014720, XX1014730, XX1514700: 300 mL XX5014700, XX5514700: 500 mL			
Maximum pressure	Vacuum only: 948 mbar (711 mm Hg)			
Connection	XX1014700, XX1014720, XX1014730, XX5014700: Size 8 stopper on filter holder base mounts in standard 1 L filtering flask or filtering manifolds. Refer to accessories in Ordering Information for available flasks and filtering manifolds. Stopper has a 15 mm (0.6 in.) hole. XX1514700 and XX5514700: Ground glass connection (3/40/35)			
Approximate dimensions	Cat. No.	Assembled Height	Filter Holder diameter	Flask diameter (max)
	XX1014700	23.5 cm (9.25 in.)	7.6 cm (3.0 in.)	-
	XX1014720	23.5 cm (9.25 in.)	7.6 cm (3.0 in.)	-
	XX1014730	23.5 cm (9.25 in.)	7.6 cm (3.0 in.)	-
	XX5014700	30.5 cm (12 in.)	8.0 cm (3.1 in.)	-
	XX1514700	43.2 cm (17 in.)	7.6 cm (3.0 in.)	13.7 cm (5.4 in.)
	XX5514700	50.8 cm (20 in.)	8.0 cm (3.1 in.)	13.7 cm (5.4 in.)

Ordering Information

This section lists catalogue numbers for glass 47 mm filter holders, replacement parts, and accessories.

Product Description					Cat. No.	
Glass Filter Holder, 47 mm, with 300 mL funnel					XX1014700	
Glass Filter Holder, 47 mm, with 500 mL funnel					XX5014700	
PTFE-faced Glass Filter Holder, 47 mm, with 300 mL funnel					XX1014720	
Stainless Steel Screen Glass Filter Holder, 47 mm, with 300 mL funnel					XX1014730	
All Glass Filter Holder, 47 mm, with 300 mL funnel and 1 L flask					XX1514700	
All Glass Filter Holder, 47 mm, with 500 mL funnel and 1 L flask					XX5514700	
Replacement Parts for Filter Holders Listed Above						
	XX1014700	XX5014700	XX1014720	XX1014730	XX1514700	XX5514700
Base	-	-	-	-	XX1514702	XX1514702
Base + stopper	XX1014702	XX1014702	XX1014722	XX1014733	-	-
Base + stopper + filter support + gasket	-	-	-	XX1014732	-	-
Funnel	XX1014704	XX5014704	XX1014724	XX1014704	XX1014704	XX5014704
Clamp	XX1014703	XX1014703	XX1014703	XX1014703	XX1014703	XX1014703
Rubber stopper	XX1014708	XX1014708	XX1014708	XX1014708	-	-
Funnel alignment guide	ALIGNED05	ALIGNED05	ALIGNED05	ALIGNED05	ALIGNED05	ALIGNED05
Filter support	-	-	-	XX2004708	-	-
Filter support gasket	-	-	-	XX2004703	-	-
Flask	-	-	-	-	XX1514705	XX1514705
Accessories for 47 mm glass filter holders						
Bases						
Base for use with XX1514700 and XX5514700, includes stainless steel screen filter support and PTFE gasket, ground glass attachment					XX1514732	
Funnels						
Filter holder funnel (1 L), for use with XX1014700 and XX1014730					XX1014707	
Filter holder funnel (500 mL), for use with XX1014700 and XX1014730					XX5014704	
Flasks						
Vacuum filtering flask, 1 L					XX1014705	
Vacuum filtering flask, 4 L					XX1014744	
Vacuum filtering flask, 1 L, threaded sidearm					XX1514706	
Vacuum filtering flask, 4 L, ground glass attachment					XX1014745	
Filter Holder Manifolds						
EZ-Fit® Manifold, 3-place, stainless steel					EZFITH0LD3	
EZ-Fit® Manifold, 6-place, stainless steel					EZFITH0LD6	
Filter holder stainless steel manifold, 6-place					XX2504700	
Filter holder stainless steel manifold, 3-place					XX2504735	
Filter holder PVC manifold, 3-place					XX2604735	
Pumps						
Chemical Duty Pump, 115 V, 60 Hz					WP6111560	
Chemical Duty Pump, 100 V, 50/60 Hz					WP6110060	
Chemical Duty Pump, 220 V, 50 Hz					WP6122050	
Miscellaneous						
Millex®-FA ₅₀ filter, 1.0 µm hydrophobic PTFE, 50 mm, 10/pk					SLFA05010	
Tubing, 3/16 in. (4.8 mm) ID x 4.6 ft (140 cm), silicone with Luer adapter					XX7100004	
Filter forceps, stainless steel, smooth-tip					XX6200006P	
Solvent Filtering Dispenser					XX6602500	
Funnel cover, rubber (for 300 mL funnel)					XX2504754	



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