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90 mm Glass Vacuum Filter Holders

Introduction

Clamped 90 millimeter (mm) vacuum filter holders are 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.

Cat. No.	Typical Applications	Filter Size	Funnel Volume	Filter Support	Flask Attachment
XX1019020	Production of clarified/particulate-free filtrate ¹ HPLC solvent preparation ² Particle contamination analysis of aqueous and organic or corrosive liquids	90 mm	1 L	PTFE-coated stainless steel (0.2–0.3 mm)	Ground glass
XX1019022	Analysis of suspended solids in water (using 90 mm depth filters) Particle contamination analysis of aqueous and organic or corrosive liquids	90 mm	1 L	Coarse-frit glass (40–60 µm)	Ground glass

¹ Do not use XX1019022 to produce particulate-free filtrate because it is more difficult to clean the coarse-frit glass filter support thoroughly and this may introduce contaminants from previous filtrations.

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

 **WARNING:** Do not use glass 90 mm filter holders (XX1019020 or XX1019022) for filtering flammable liquids. Instead, use the Hydrosol™ Stainless Steel Filter Holder (XX2004720), fitted with grounding screw and ground wire set for this application.

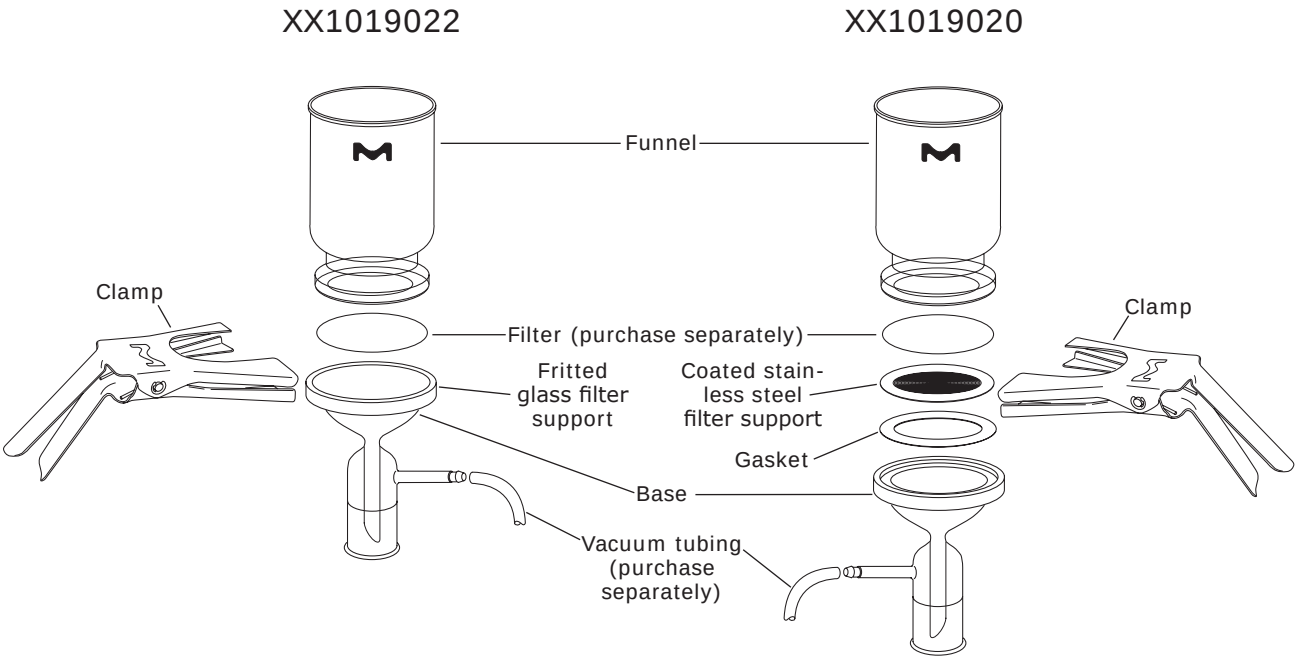
Additional Equipment Required

- 90 mm filter appropriate for your application; see the product catalogue for options
- Filter forceps (cat. no. XX6200006P)
- Vacuum filtering flask with ground glass attachment. 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)

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.
- 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 PTFE-coated stainless steel filter support and gasket supplied with cat. no. XX1019020 do not need to be soaked in acid.

Components of a 90 mm Clamped Vacuum Filter Holders



Specifications

Materials	
Funnel and base	XX1019020: Borosilicate glass with PTFE-coated stainless steel filter support and PTFE gasket XX1019022: Borosilicate glass with coarse-frit glass filter support
Clamp	Anodized aluminum
Filter diameter	90 mm
Effective filter area	Approximately 45.3 square centimeters (cm ²) (7.0 in ²)
Funnel capacity	1 L
Maximum pressure	Vacuum only: 948 mbar (28 in. Hg)
Connection	Ground glass connection (♂ 40/35)
Approximate dimensions	Assembled height: 31 cm (12.2 in.) Filter holder diameter (excluding side arm): 11 cm (4.3 in.)

Ordering Information

This section lists catalogue numbers for glass 90 mm filter holders, replacement parts, and accessories.

Product Description		Cat. No.
Glass Filter Holder, 90 mm, with stainless steel filter support, 1 L funnel		XX1019020
Glass Filter Holder, 90 mm, with fritted glass filter support, 1 L funnel		XX1019022
Replacement Parts for Filter Holders Listed Above		
	XX1019020	XX1019022
Base	XX1019004	XX1519002
Funnel	XX1019000	XX1019000
Clamp	XX1019003	XX1019003
Filter support	XX1009002	-
Filter support gasket	XX1009010	-
Accessories for 90 mm glass filter holders		
Flasks with ground glass connections		
Vacuum filtering flask, 1 L, flat bottom		XX1514705
Vacuum filtering flask, 2 L, conical bottom		XX1614705
Vacuum filtering flask, 4 L, flat bottom		XX1014745
Vacuum filtering flask, 5 L, conical bottom		XX1614706
Flasks with stopper attachment for use as vacuum trap		
Vacuum filtering flask, 1 L		XX1014705
Vacuum filtering flask, 1 L, threaded side arm		XX1514706
Vacuum filtering flask, 4 L		XX1014744
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

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