

## Millicup™-FLEX Disposable Filtration Unit

# User Guide

### Introduction

The Millicup™-FLEX nonsterile vacuum-driven filtration unit is designed to combine the convenience of disposable filtration with the flexibility and compatibility of traditional vacuum filtration glassware. With solvent-resistant, modular components, the Millicup™-FLEX filtration unit offers a safe and efficient means for filtering a variety of aqueous and organic solutions, allowing the user to filter directly into GL45 vacuum-rated filtration bottles with their choice of 47 mm disc membranes (sold separately).

The ready-to-assemble, clampless design of the Millicup™-FLEX filtration system eliminates the need for cleaning prior to filtration — saving time and ultimately reducing the risk of sample contamination. Following filtration, the 250 mL funnel and membrane support collar easily disconnect to enable direct access to the membrane.

All three components of the Millicup™-FLEX unit are fully recyclable, minimizing your environmental impact. Before placing the unit in your lab's mixed plastic or single-stream recycling, you must remove the membrane and rinse any residual solids from the funnel.

Millicup™-FLEX disposable filtration unit kits are available in two versions:

- MCFLX4702 - Millicup™-FLEX 47 mm Disposable Filtration Cup, Semi-reusable
- MCFLX4710 - Millicup™-FLEX 47 mm Disposable Filtration Cup, Single Use

### Millicup™-FLEX Components

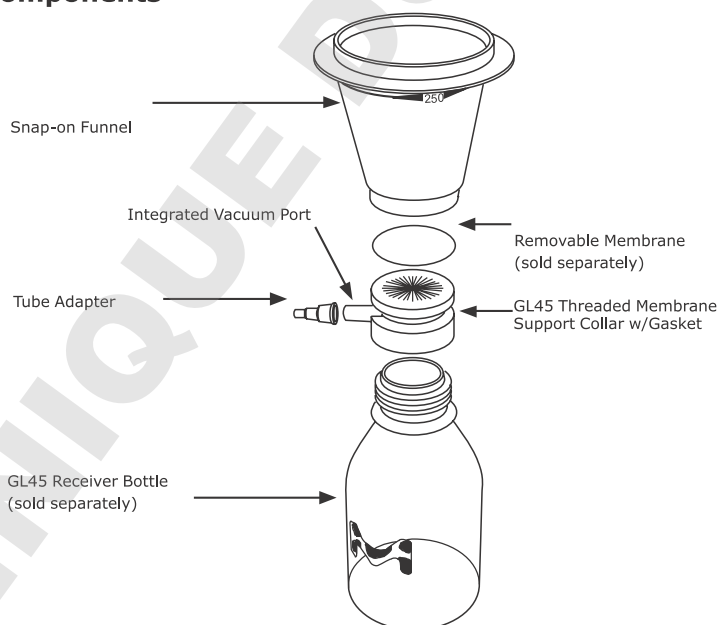


Figure 1.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada.

## Quick Assembly Instructions

1. Connect the threaded membrane support collar to the vacuum rated GL45 receiver bottle by carefully screwing in a clockwise manner until fully tightened, ensuring the gasket remains properly placed.
2. Using smooth-tip forceps, arrange a 47 mm membrane disc onto the support collar.
3. Without disturbing the filter, center the flange of the funnel on top of the membrane support base and gently press down until you hear a firm "click".
4. Attach one of the included tube adapters to the integrated vacuum port, connecting one end of the vacuum tubing to the system and the other end to the vacuum source.
5. Pour sample into funnel and apply vacuum until filtration is complete, rinsing the funnel (if required) while the vacuum is on.
6. Turn off the vacuum and remove tubing. If removal of membrane is desired, gently lift up on the funnel for access.
7. Remove the collar by screwing in a counter-clockwise manner until loosened. If desired, place the GL45 cap onto the receiver bottle for storage.
8. Dispose or recycle the filtration unit appropriately.

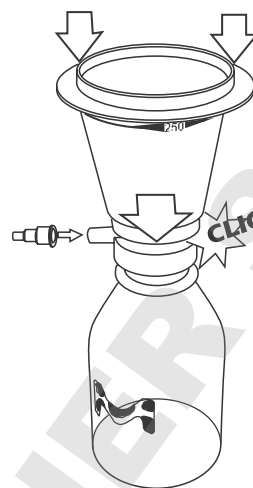


Figure 2.

## Usage Guidelines

- The Millicup™-FLEX disposable filtration units are compatible with most commonly used 47 mm cut disc filters, including Isopore™, Durapore®, Omnipore™, Mitex™, Express™ PLUS PES, and MF-Millipore™ Mixed Cellulose Ester membranes.
- When using a new membrane type with this system, be sure that the funnel-to-collar connection has fully "clicked" into place to ensure an effective seal around the membrane.

## Chemical Compatibility

Millicup™-FLEX disposable filtration units are compatible with most aqueous and organic solutions, including methanol, ethanol, 2-propanol, and acetonitrile. For full chemical compatibility, please go to [www.sigmaaldrich.com/milliporecompatibility](http://www.sigmaaldrich.com/milliporecompatibility).

## Specifications

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### Materials

Housing: Polypropylene

### Housing

Funnel capacity: 250 mL maximum

Connections: Funnel inlet/GL45 Bottle Thread

Color: Transparent

Membrane Size: Fits most 47 mm cut disc filters (Membranes sold separately)

Sterility: Non-Sterile

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## Ordering Information

This section contains catalogue numbers for Millicup™-FLEX filter units. You can purchase these products on-line at [www.sigmaaldrich.com/products](http://www.sigmaaldrich.com/products).

Description	Qty/Pk	Product Number
Millicup™-FLEX 47 mm disposable filter cup, Semi-reusable	10 funnels, 2 collars, 2 adapters	MCFLX4702
Millicup™-FLEX 47 mm disposable filter cup, Single Use	10 funnels, 10 collars, 10 adapters	MCFLX4710

Visit [www.sigmaaldrich.com/milliporefiltration](http://www.sigmaaldrich.com/milliporefiltration) for a complete list of cut disc membranes.

## Good Manufacturing Practices

This product was manufactured in a Merck facility which adheres to Good Manufacturing Practices standards. Special emphasis has been placed on cleanliness and environmental control conditions.

## ISO 9001 Quality Standard

This product was manufactured in a Merck facility whose Quality Management System is approved by an accredited registering body to ISO 9001 Quality System Standard.

## Notice

We provide information and advice to our customers on application technologies and regulatory matters to the best of our knowledge and ability, but without obligation or liability. Existing laws and regulations are to be observed in all cases by our customers. This also applies in respect to any rights of third parties. Our information and advice do not relieve our customers of their own responsibility for checking the suitability of our products for the envisaged purpose.

## Technical Assistance

Visit the tech service page on our web site at [www.sigmaaldrich.com/techservice](http://www.sigmaaldrich.com/techservice).

## Contact Information

For the location of the office nearest you, go to [www.sigmaaldrich.com/offices](http://www.sigmaaldrich.com/offices).

## Standard Warranty

The applicable warranty for the products listed in this publication may be found at [www.sigmaaldrich.com/terms](http://www.sigmaaldrich.com/terms) ("Conditions of Sale").

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