

MILLIPORE

Ultraviolet Sterilizer User Guide

XX63 700 00 (115 V)
XX63 700 05 (220 V)

Introduction

The Millipore Ultraviolet Sterilizer is a compact unit for the decontamination of 47 mm funnel-type Millipore filter holders. It accommodates three funnels and three bases, either Pyrex® or Hydrosol® Millipore filter holders. It also uses four germicidal UV lamps to expose the funnels and bases to high energy radiation for sterilization. The Ultraviolet Sterilizer is ideally suited for laboratories running successive sample filtrations to prevent organisms from carrying over onto funnels used with samples of raw waters and other high count liquids.

Install the Ultraviolet Sterilizer

The following steps describe how to set up the Ultraviolet Sterilizer and insert the filter holders into it.

1. Connect the Ultraviolet Sterilizer to a grounded outlet.
2. Turn on the power switch.
3. Make sure the lamp is functional by *briefly* pressing the Switch Interlock button on the back panel of the Ultraviolet Sterilizer.

CAUTION: Do not look directly at the lighted lamps. Severe eye inflammation can result from exposure without eye protection.

4. Disassemble the contaminated filter holders and remove the used filters. Rinse and wipe dry the bases and funnels of the filter holders. In most cases, only the funnels need to be decontaminated between sample filtration.
5. Insert the bases, funnels, or both into the corresponding top plate openings of the Ultraviolet Sterilizer.
6. Close the cover to the Ultraviolet Sterilizer. The cover-actuated switch automatically turns on the UV lamps.

NOTE: A two minute exposure to the high energy radiation in the closed unit is usually sufficient to kill most vegetative forms of bacteria.

Maintain the Ultraviolet Sterilizer

The following sections describe how to maintain the Ultraviolet Sterilizer.

Clean the Lamps and Reflectors

The lamps and reflectors must be kept clean to ensure efficient operation. See the following steps for details:

1. Dust the lamps and reflectors daily, before use, with a lint-free cloth.
2. Disconnect the power cord and remove fingerprints or stains with a damp sponge.
3. The holder panel is removable for access to the two lower lamps. Press the Release buttons at either end of the panel to open it. Press the Release buttons again to lock the panel after cleaning.

Replace the Lamps

The lamps of the Ultraviolet Sterilizer are rated for 5,000 hours of operation; however, the lamps should be replaced after approximately 4,000 hours to ensure adequate UV radiation levels. Replacement lamps are available from Millipore. (See the "Product Ordering Information" section.) You can purchase fluorescent starters locally.

Specifications

Materials	germicidal lamps with anodized aluminum reflectors and holder panel; fiberglass case; rubber feet
Power	115 V/60 Hz 220 V/50 Hz
Connections	three-conductor, vinyl-coated power cord
Dimensions	
length	432 mm (17 in)
width	241 mm (9 1/2 in)
height	337 mm (13 1/4 in)
weight	approximately 7.3 kg (16 lb.)
capacity	three funnels and bases of either Pyrex or stainless steel Millipore design

Product Ordering Information

This section lists the catalogue numbers for the Ultraviolet Sterilizer. See the Technical Assistance section for information about contacting Millipore. You can also buy Millipore products on-line at www.millipore.com/purecommerce.

Replacement Parts	Catalogue Number
UV lamps	XX63 700 07
Cartridge fuses (5/pk)	XX63 000 54

Technical Assistance

For more information, contact the Millipore office nearest you. In the U.S., call **1-800-MILLIPORE** (1-800-645-5476). Outside the U.S., see your Millipore laboratory catalogue for the phone number of the office nearest you. You can reach us by e-mail at tech_service@millipore.com or visit our web site (www.millipore.com).

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