MycoFog® is an easy-to-use biodecontamination system designed to eliminate biocontaminants from incubators, gloveboxes and workstations used in cell culture and microbiology laboratories. The *MycoFog*® System comprises an instrument *(MycoFog*® or *MycoFog® 500+* biodecontamination fogger) and *MycoFog*® reagent bottles with our proprietary H_2O_2 formulation. The biodecontamination fogger, MF-500+ is designed for incubators/BSCs/workstations that are larger than 500 L in volume. MF-500+ requires *MycoFog*® MFR-4Bx (500L-700L), MFR-5Bx (700L-1000L) or MFR-6Bx (1000L-1200L) reagents to operate.

Carefully read these operation and care instructions prior to first use.

Items required but not supplied: USB charger, 5V

Caution

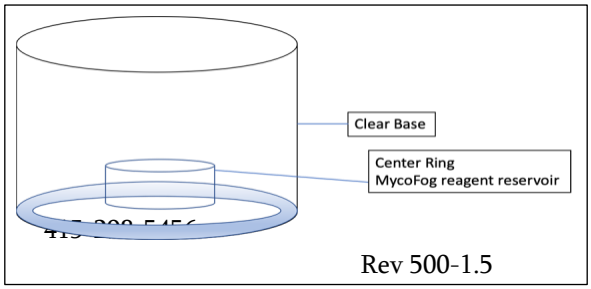
Ensure incubator is clean* and in good working order, able to evenly achieve 37°C-45°C (this temperature range has been validated by *MycoFog*® and partners, the *MycoFog*® process may be effective at other temperatures but not yet validated by us)
* *The MycoFog® biodecontamination process complements cleaning but does not replace cleaning. Please consult your incubator operating manual for the manufacturer's cleaning protocol.*

Operation

1. Charge *MycoFog*® 500+ biodecontamination fogger overnight using the provided USB cable (USB charger not supplied). Charge indicator light is on when charging, off when charge is complete.
2. Prepare incubator/workstation as noted in "Incubator Preparation" below.
3. Open *MycoFog® 500+* biodecontamination fogger by twisting the upper cylinder counterclockwise and pulling it away from the clear base.
4. Pour contents of appropriate *MycoFog*® Reagent bottle (https://mycofog.com/product/mycofog-biodecontamination-reagent/) into the center ring (reservoir) of the lower cylinder. Place the wick into the wick receptacle as noted in "Wick Replacement" below. Replace the wick holder.
5. Carefully place upper cylinder back onto lower cylinder of the *MycoFog*® biodecontamination fogger and twist clockwise to lock, taking care not to let reagent spill from center ring.
6. Place *MycoFog® 500+* biodecontamination fogger in upper 1/3 of chamber as shown in "Incubator Preparation" below. Wait 5 minutes for wick to wet completely.
7. Press function button once. Observe fog emitted by device from MycoFog® biodecontamination fogger mist port (see diagram below).
8. Close and lock incubator, glovebox or workstation and place lab tape over door lock.
9. Set lab timer for 240 (45°C) or 300 (37°C) minutes or use an overnight procedure. MycoFog® 500+ biodecontamination fogger will shut off automatically at the end of the vapor exposure cycle.
10. After 300 minutes or overnight, the cycle is complete. Remove MycoFog® 500+ biodecontamination fogger. Open the MycoFog® *500+* biodecontamination fogger and remove the used wick, as noted below, and discard. Rinse the reagent reservoir with distilled or laboratory DI water. Let dry before storing.
11. Incubator/glovebox/workstation is now ready to use, restart according to your laboratory procedure or instrument manual.

CAUTION

Use only MycoFog reagents in the *MycoFog*® biodecontamination fogger. Use of other reagents may harm device or result in inadequate decontamination.



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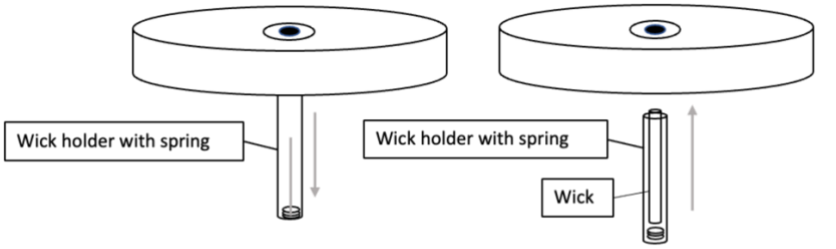
Function Button Operation

Use a short press on function button once to start the *MycoFog*® biodecontamination fogger. Short press 2nd time pulses fog, 3rd time turns off. The light will blink and turn off automatically when *MycoFog*® reagent is used up, indicating the end of the first step in the disinfection cycle. Long press turns light on, 2nd long press dims, 3rd long press turns light off.

WICK REPLACEMENT (cut-away view)

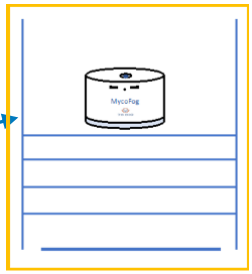


1. Remove opaque cylinder
2. Pull down on wick holder
3. Remove wick from holder

1. Place new wick into holder
2. Re-insert wick holder

INCUBATOR PREPARATION:

1. Remove all cultures & labware from incubator/isolator.
2. Remove water from water pan.
3. Set incubator temperature to 37°C or 45°C.
4. Disable gas control.
5. Arrange shelves so that all shelves are in the lower ½ to 2/3 of the incubator.
    a. If the incubator has a fan inside the chamber that does not use a HEPA filter, all shelves should be in the bottom 1/3 of the chamber
6. Place *MycoFog*® biodecontamination fogger on uppermost shelf.



TROUBLESHOOTING

1. If there is no spray emitted from the *MycoFog*® biodecontamination fogger spray port, turn off unit and wait 10 min for wick to completely wet with reagent.
2. *MycoFog*® biodecontamination fogger only operates right-side up. Keep level.
3. If the volume of spray is low (refer to www.mycofog.com/troubleshooting), the fogger element may be cleaned with vinegar and cotton swab.
4. If the volume of spray is low, the battery may be low. Recharge

Product Name	*MycoFog*® Biodecontamination Fogger
Product Number	MF-500+
Dimensions	130 diameter x 100 mm high
Materials	ABS+Polycarbonate
Power	2W
Battery Capacity	2000 mAh
Input/Output	DC 5F/0.8 A
Battery Type	Lithium Ion
Charger type	Micro USB
Device Standard	GB4706.1-2005/GB4706.48-2009

Items included

MycoFog® Biodecontamination Fogger
Manual
Additional wick
USB cable

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Warning: Use only *MycoFog®* reagents in this instrument. Use only as described in the user's manual. For Resarch Use Only, not for Diagnostic or Therapeutic Use. Use caution when using and storing lithium batteries.

Assembled in USA

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