



MycoFog® Biodecontamination System Model MF-500D Instrument User Manual

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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® 500D biodecontamination fogger) and MycoFog® reagent bottles with our proprietary H₂O₂ formulation. The biodecontamination fogger, MF-500D, is designed for incubators/BSCs/workstations that are larger than 500 L in volume. MF-500D 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

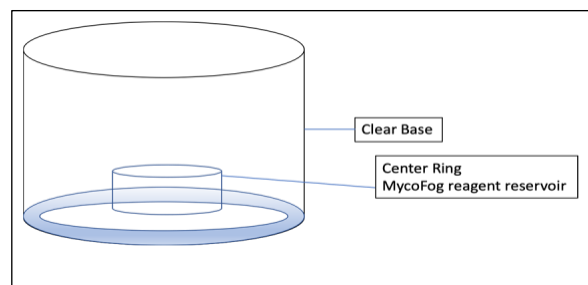
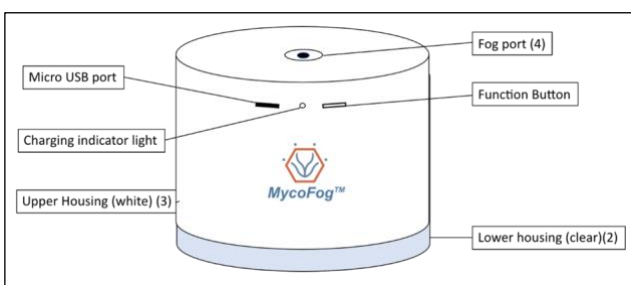
Ensure incubator is clean* and in good working order, able to evenly achieve 37°C-45°C (this temperature range has been validated by MycoFog® and partners, the MycoFog® process may be effective at other temperatures but not yet validated by us) *The MycoFog® biodecontamination process complements cleaning 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. For users of MycoFog® approved 3rd party or in-house reagents, measure and pour the appropriate amount of reagent into the reagent reservoir. (68ml for >500 < 700L, 95 ml for >700L <1000 L, 120 ml for >1000 L <1200L)
5. Place the wick into the wick receptacle as noted in "Wick Replacement" below. Replace the wick holder.
6. 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.
7. Place MycoFog® 500+ biodecontamination fogger in upper 1/2 of chamber as shown in "Incubator Preparation" below. Wait 5 minutes for wick to wet completely.
8. Press function button for two seconds, release and close the inner incubator door. Indicator light will blink slowly for 7 sec, rapidly for 5 seconds then the fog will be emitted by device from MycoFog® biodecontamination fogger **fog port** (see diagram below).
9. Close and lock incubator, glovebox or workstation and place lab tape over door lock.
10. 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.
11. 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.
12. 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.



Function Button Operation

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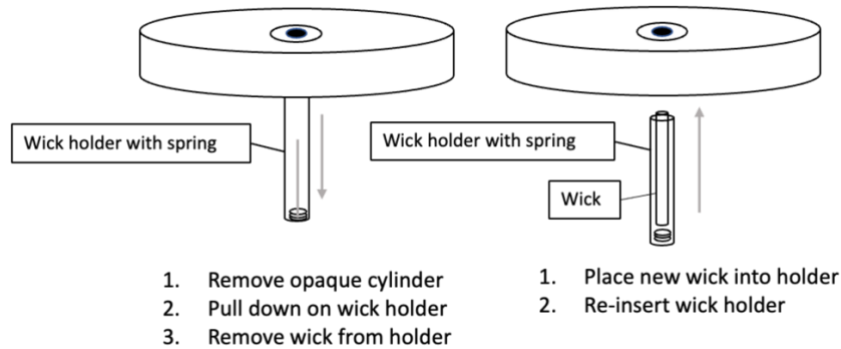
Rev 500D-1.4



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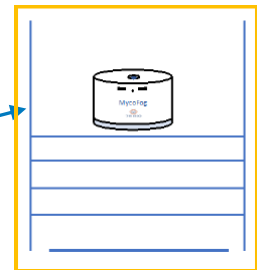
Press the function button for 2 seconds, then release. Indicator light will flash slowly for 7 seconds, then rapidly for 5 seconds before device begins emitting vapor. The bright system light will blink, and device will turn off automatically when *MycoFog*® reagent is used up. Short press during emission phase will abort the cycle

WICK REPLACEMENT (cut-away view)



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	<i>MycoFog</i> ® Biodecontamination Fogger	Items included
Product Number	MF-500+	<i>MycoFog</i> ® Biodecontamination Fogger
Dimensions	130 diameter x 100 mm high	Manual
Materials	ABS+Polycarbonate	Additional wick
Power	2W	USB cable
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	

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

Assembled in USA
www.mycofog.com

