

**STANDARD OPERATING PROCEDURES**  
**DIVISION OF COMPARATIVE MEDICINE**  
**UNIVERSITY OF SOUTH FLORIDA**

SOP#: 1159.1

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<b>TITLE:</b>	<b>SurgiVet Hot Line Fluid Warmer®</b>
<b>SCOPE:</b>	Research and Animal Care Personnel
<b>RESPONSIBILITY:</b>	Facility Manager, Professional and Administrative Staff
<b>PURPOSE:</b>	To Outline the Proper Procedures for Fluid Line Warmer Use and Maintenance.

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**I. PURPOSE**

1. This procedure outlines the use and maintenance of the SurgiVet Hot Line Fluid Warmer to maintain body temperature in research animals during procedures and post-procedurally, when loss of body temperature may be a concern.

**II. RESPONSIBILITY**

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- a. Clamp the warmer at or below 42 inches from the floor to an intravenous (IV) pole, ensuring the air vents on the back and bottom of the warmer are clear.
  - b. Remove the L-70 port connector plug from the socket on the warmer, and the fill port plug on the water tank. Fill water tank with 1.4 liters of 0.3% hydrogen peroxide solution: mix 140 mL of 3% hydrogen peroxide and 1,260 mL of distilled water.
  - c. Do not fill the water tank with a warming set in place, or an air lock may occur.
  - d. Replace fill port plug.
  - e. Plug the warmer into the outlet.
2. Instructions for use:
- a. Supplies: fluid warming set (L-Series Hotline Fluid Warming Set), IV fluids, IV administration set, extension set (optional).
  - b. Check that the fluid level is above the minimum level mark on the tank. Add solution to the tank through the fill port if required. Plug into power outlet.
  - c. Set-up of fluid warming set:
    1. Plug the twin-tube connector into the socket on the right side of the warmer.
    2. Activate the power switch on the left side of the warmer. The green light on the display panel will illuminate, and the circulating water bath temperature display will begin to increase.
    3. The circulating fluid path will automatically prime when the unit is turned on. Inspect the animal end of the tubing for leaks to confirm the integrity of the IV pathway.
  - d. Connection of IV administration set:
    1. Connect the IV fluid bag and the IV administration set to the Hotline warming set.
    2. Fully prime the IV administration set, the Hotline warming set, and the extension set if used.
    3. Connect to the animal's IV access site without entrapping air.
  - e. The unit is ready for use when the recirculating fluid temperature reaches 41<sup>o</sup>

3. Lubricate O-ring seals as needed Using a cotton swab apply a small amount of silicone lubricant to the O-rings.
4. Replace O-ring seals as needed when unit is in-service according to manufacturer's operation manual.
5. Perform disinfection procedure every 12 months when unit is in-service and before/after long-term storage:
  - a. Unplug the unit before servicing.
  - b. Remove the fill port cap.
    1. Empty all water from the reservoir tank and fill the water tank with 1.4 L of 0.3% hydrogen peroxide/distilled water solution: mix 140 mL of 3% hydrogen peroxide and 1,260 mL of distilled water.
  - c. Insert a warming set into the machine.
  - d. Turn the unit on and let the solution circulate for 30 minutes.
  - e. Switch the unit off and empty.
  - f. Thoroughly rinse the unit with distilled water.
  - g. Refill the reservoir tank with 10% hydrogen peroxide solution unless storing.
6. Storage
  - a. Store in a cool dry place. Do not expose to extreme temperatures.
  - b. Short-term – unplug warmer, and coil power cord.
  - c. Long-term – unplug warmer, coil power cord, and perform disinfection procedure; do not refill the reservoir tank. Repeat disinfection procedure prior