

**TEMPLATE**  
**Standard Operational Guideline**  
**Heat Wave III Portable Decontamination Water Heater**

**PURPOSE:**

Purpose of Guideline: Safe operation and scheduled preventive maintenance of the Heat Wave III decontamination portable water heater.

Purpose of Equipment: The Heat Wave III is a portable, diesel-fired water heater. It provides temperature-controlled non-potable water for the decontamination tent.

**EQUIPMENT LOCATION: (REMAIN BLANK FOR EACH HOSPITAL TO FILL IN)**

**OPERATIONAL INSTRUCTION GUIDELINES:**

**Start up Procedure**

1. Uncouple both fuel lines from the fuel tank cap and fill fuel tank with fuel (US#2 or #1 automotive diesel, home heating oil, kerosene, JP4 or equivalent).
2. Re-couple the fuel lines and strap fuel tank back onto water heater.
3. Loosen fuel cap 1/8 turn so as to open breather port on fuel cap neck.
4. Make sure the main on/off switch is in the off position.
5. Connect power supply cable to suitable power supply.
6. Connect a 3/4" or larger supply hose to the inlet port on the water heater.
7. Connect the delivery hose/s to the outlet ports on the water heater.
8. Open both delivery shutoff valves
9. Turn on water supply.
10. Allow water heater and connected equipment to flush out.
11. Make sure the heater is clear of all combustible materials and properly vented.
12. Turn on the main on/off switch to the "on" position.
13. The temperature controller display will now show the incoming water temperature and the burner will fire.
14. As the burner continues to fire, the water temperature will increase. The display on the digital temperature controller will show the increasing delivery water temperature. When the heater reaches the desired set temperature, the burner will begin to cycle so as to maintain the set temperature.
15. The controller is programmed from the factory (approximately 85 degrees Fahrenheit) for optimal temperature. The settings can be modified in the field, but require familiarization with the operating instructions for the temperature controller. A pass code can be assigned to the settings so as to prevent tampering.

**Shut-down Procedure**

1. Turn the main on/off switch to the "off" position.
2. Allow unit to cool down.
3. Disconnect power supply cable.
4. Turn off the water supply.

5. Disconnect the water supply and delivery hoses from all discharge ports.
6. Water heater will gravity-drain completely.
7. In cold climates additional protection from freezing can be accomplished by “blowing” the unit down using a pressurized air source.

Cleaning of equipment: Clean the equipment using a general purpose cleaner. To sanitize the water lines, use a 1:10 solution of bleach.

#### MAINTENANCE

Storage of equipment: Store equipment in an upright position, protected from direct exposure to the elements such as sun, rain or snow. Do not store this equipment near sources of combustion.

Preventative maintenance for equipment: Perform Annually.

1. Inspect fuel tanks, piping, lines, and connectors for leaks, cracks, or signs of corrosion. Replace as needed.
2. Inspect power cord for cracks in insulation and damaged prongs. Replace as needed.
3. Inspect and clean fuel filter. Check for leaks.
4. Inspect supporting frame for damage.
5. Inspect wheels and lube axle.
6. Start unit according to procedure. Verify accuracy of temperature controller with secondary thermometer. Temperature should not exceed 92 degrees F.
7. Test primary temperature controller failure and manual reset.
8. Shutdown and drain water lines according to procedure. Before disconnection, run a 1:10 bleach solution through the water lines and piping. Use compressed air to remove residual water.
9. Wipe unit down with general purpose cleaner
10. Cover and store unit.

