

TEMPLATE
Standard Operational Guideline
Sure Heat 900 Portable Fresh Air Heater

PURPOSE:

Purpose of Guideline: Safe operation and scheduled preventive maintenance of Sure Heat 900 portable fresh air heater.

Purpose of Equipment: The Sure Heat 900 is a portable, diesel-fired air heater. It maintains a comfortable working temperature inside the decontamination tent by generating temperature-controlled air.

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

OPERATIONAL INSTRUCTION GUIDELINES:

Operation of equipment

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 air 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 an 8" delivery hose to the outlet (bottom) port on the heater.
7. Connect the other end of the delivery hose to the shelter or tent system making sure the flow of air is unhindered.
8. If desired, an 8" return hose can be connected to the intake (upper) port and to a suitable (typically diametrically opposed side) location in the shelter or tent system to increase the heater's efficiency.
9. Make sure the heater is away from any combustibles materials and properly vented.
10. Turn the main on/off switch to the "on" position.
11. The temperature controller display will now show the incoming air temperature and after a few seconds the burner will fire.
12. As the burner continues to fire, the air temperature will increase. The display on the digital temperature controller will show the increasing delivery air temperature. When the heater reaches the desired set temperature, the burner will begin to cycle so as to maintain the set temperature.

Shut-down procedure

1. Turn the main on/off switch to the "off" position.
2. The burner will turn off but the main fan will continue to allow the heat exchanger unit to cool down.

3. The main fan will turn completely off when the heat exchanger temperature reaches 130 degrees Fahrenheit.
4. If the unit remains plugged in to power and there is sufficient latent heat in the exchange the main fan may cycle a few more times before the unit is completely cooled down.

Cleaning of equipment

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 supporting frame for damage.
4. Inspect wheels and lube axle.
5. Start unit according to procedure. Verify accuracy of temperature controller with secondary thermometer. Temperature should not exceed 130 degrees F.
6. Test temperature controller cycles burner when desired set temperature is reached.
7. Test burner safety shutdown, by obstructing the incoming air supply.
8. Shutdown according to procedure.
9. Wipe unit down with general purpose cleaner
10. Cover and store unit.

