



Owner's Manual



Sure Heat 900

Advanced Containment Systems Inc.
8720 Lambright Road Houston, TX 77075
Phone 800-927-2271 Fax 713-987-0355

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Sure Heat 900 Operating Instructions (Diesel Fired Unit)

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 the 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.

Sure Heat 900 requires 7.3 amperes (876 Watts) of 120 VAC. 60Hz electrical supply to function.

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 (re-circulation) 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

Sure Heat 900's safety controls will end the burner cycle if the air delivery is obstructed.

9. Make sure the heater is far from any combustible materials and properly vented.

Sure Heat 900 should only be operated in areas where combustion is permitted (open flame areas). Sure Heat 900 produces combustion byproducts and requires the unit to be placed in well-ventilated areas where there is no chance for accumulation of exhaust gases. Sure Heat should never be operated in enclosed and/or inhabited areas or up wind of areas in which people will be present. Sure Heat 900 requires ample fresh air for combustion.

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.

Sure Heat 900 is now in full operational mode and will require a minimum amount of monitoring. It will continuously deliver warm air as long as the fuel, and power supplies are maintained.

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.

Note: If the unit remains plugged in to power and there is sufficient latent heat in the exchanger the main fan may cycle a few more times before the unit is completely cooled down.

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Unit Specifications

Length	39"
Width (including wheels)	22"
Height	39"
Weight	170 lbs.
Voltage	120 vac
Amperage	7.3 amps
Wattage	876 Watts
Max. Fuel Consumption	.64 gal/hr.
Btu/h	90,000
Temperature Control	Electronic
Max. Outlet Temperature (high limit)	160° F
Fuel Tank Capacity	5 gallons
Warm Air Outlet Connection	8" J-lock
Return Air Connection	8" J-lock

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