



Tent Heater – 85,000 BTU

Operating Instructions & Trouble Shooting Guideline

**This unit is designed to be used on a single dedicated 20amp circuit.*

615.822.4392

THC-85

Operating Instructions

TO START UP:

1. Connect the POL inlet on the regulator of the heater to the propane cylinder.
2. Open the cylinder valve.
3. Leak test the cylinder connection.
4. Depress the fan switch to the “ON” position. The fan motor will start and air will be pushed through the outlet of the heater.
5. Depress the heat switch to the “ON” position. The burner should ignite and hot air will be pushed through the outlet of the heater.
6. Set the Thermostat (if provided) to desired temperature.
7. If heater fails to ignite after 3 attempts call Liberty Party Rental for service.

TO SHUT DOWN:

1. Close the cylinder valve on the propane cylinder.
2. Move both the “FAN” and “BURNER” switches to the “OFF” position.
3. Disconnect heater from the cylinder.

Troubleshooting Guidelines

NO HEAT, FAN OPERATES

*Rear of heater is blocked. Ensure rear of heater is unobstructed and proper rear clearances are maintained.

*If the rear of the heater is obstructed, the snap disc manual reset limit may trip and must be reset manually before the fan can operate. The high temperature limit switch reset button is found behind the louvers on the rear of the heater, **DISCONNECT THE POWER TO THE HEATER**. Use a non-metallic slim tool, insert carefully through louver opening and push the “red” button to reset the switch OR remove the louvered rear panel door and push the “red” reset button. Make certain to re-close the panel before operating the appliance.

HEATER WILL NOT LIGHT

*Check the Gas Supply. Ensure required gas supply pressures are available to the heater.

*Check Gas Valve / Solenoid. Ensure solenoid is energized. (Use volt meter). Ensure plunger in solenoid is being activated. (Use manometer at test point after solenoid).

*Check Igniter / Flame Sensor. Ensure the gap between the igniter and sensor is approximately 1/8” – 3/16”. DO NOT adjust the porcelain side of the igniter as permanent damage may result. Check igniter wire connections. Ensure igniter spark is strong.

*Check Ignition Board. Ensure electrical signals for igniter and gas valve/solenoid are present. Ensure ignition board is properly grounded.

*Check Thermostat. Ensure that the thermostat is calling for heat (if it is, the fan will start). Please note that as a safety measure the thermostat is equipped with a 10 second delay. If your heater is equipped with an optional external thermostat, check that connections are secure and restart the heater. If the heater fails to restart, remove the optional line thermostat and restart the heater to confirm operational status. If the heater starts, replace the thermostat.

HEATER WILL NOT REMAIN LIT AFTER START UP

*Faulty igniter wire. Check igniter wire for any damage.

*Faulty igniter / flame sensor. Ensure connections are secure.

*Check ignition board. Check ground wire for proper connection. Check polarity of extension cord compared to polarity of plug on the heater. Replace faulty ignition board.

*Thermostat. Ensure thermostat is calling for heat. NOTE: If the thermostat is not calling for heat, the heater will not operate.

ELECTRICAL

*Any point in the circuit where 120v is not achieved indicates location of problem and/or possible faulty component. NOTE: Everything downstream of the transformer is 24v (ex. all switches and sensors).

PIPING

*Check all pipe fittings. When loosened, tightened or replaced, the complete fitting should be removed and approved pipe sealant applied to all male threads before reconnection.