

HEPAD Quick Operation Guide

PLEASE REFER TO YOUR HEPAD MANUAL FOR ADDITIONAL DETAILS

1.1 STARTUP PROCEDURE

- 1) Turn ON breaker at Main Electrical Panel
- 2) Turn ON Gas Valve at main gas service. (Propane Tank or Gas Service)
- 3) Turn ON gas valve on HEPAD located next to regulator inlet and verify gas pressure on main gauge is at least 5 psi.
- 4) Set temperature control for the desired set temperature. Refer to 4.5 Temperature Controller Operation
- 5) Turn on Aeration Fan switch and wait for fan to start.
- 6) Turn on burner switch located on main control panel. If the set temperature is greater than the discharge temperature, the burner will attempt to light. If the set temperature is lower than discharge temperature, the burner will not light until the set temperature is greater than the discharge temperature.

THE BURNER WILL NOT IGNITE IF THE MAIN AERATION BLOWER FAN IS NOT RUNNING.

1.2 BURNER STARTING SEQUENCE OF OPERATION

- 1) When the thermostat calls for heat, the blower motor will energize.
- 2) When the motor approaches nominal running RPM, the air-proving switch closes and activates the ignition module.
- 3) The ignition module, after a pre-purge period of approximately 30 seconds, energizes the igniter. Additionally, the gas valve is energized for this ignition trial period of 15 seconds. If a flame is detected, the ignition sensing rod "reads" a rectification signal and the gas valve remains open. The sparking stops when the flame signal is established.
- 4) If no flame is detected, the gas valve closes and a 30 sec inter-purge period begins. After the inter-purge, the module repeats the trial for ignition period. If flame is still not established, a second and final inter-purge followed by a final ignition trial cycle begins. After three trials, the module will lockout for a period of approximately 1 hour or until reset. (Reset is accomplished by removing power from the module for at least 5 seconds.) After this 1-hour period, the module re-attempts the full ignition sequence.
- 5) When the heat requirement has been met and the thermostat opens, the burner and fan shut off with no post purge.

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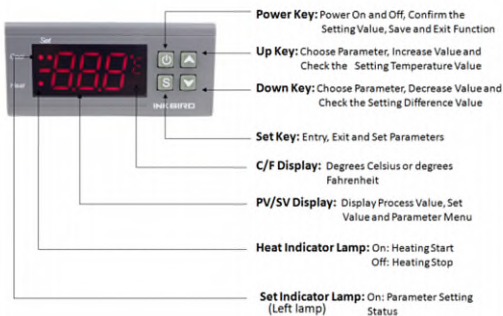
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1.3 SHUTDOWN PROCEDURE

- 1) Turn off burner switch.
- 2) Turn off Fan Switch if required. It may be desirable to continue running the aeration fan to cool the grain and continue drying for a couple hours after removing the heat.
- 3) Close Gas Valves when burner is not in use.
- 4) Disconnect Power to HEPAD when main fan is not being used.

1.4 TEMPERATURE CONTROLLER OPERATION

Main Panel Layout



o Key Operations Instruction

a. Check Heat Setpoint:

In normal working status, press “▲” key once, it will display the setting temperature value; press “▼” key once, it will display the difference value;

b. Change Heat Set Point:

In normal working status, press and hold “S” for more than 3s to enter set mode, set indicator lamp is on, screen displays the first menu code “E5”. If “E5” is not displayed, press the “▲” key or the “▼” key to move up or down the menu item and display the menu code until “E5” is displayed

- Press the “S” key to enter the parameter setting of Temperature Set menu, the parameter value starts to flash.

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o KEY OPERATIONS INSTRUCTION CONT.

- Press “▲” key or “▼” key to adjust the parameter value of current menu.
- After the value is set, press “⏻” key to save the parameter modified value, and return to the normal temperature value.
- If no operation within 10s, the display will exit the menu automatically and return to normal temperature display status, it will not save any parameter modification.

c. Change the Heat differential temperature

- After the burner reaches setpoint and turns off, it will not re-ignite until temperature falls below setpoint – differential temperature.
- In normal working status, press and hold “**S**” for more than 3s to enter set mode, set indicator lamp is on, screen displays the first menu code “ ”. Press the “▲” key or the “▼” key to move up or down the menu item and display the menu code until “ ” is displayed
- Press the “**S**” key to enter the parameter setting of Differential Set menu, the parameter value starts to flash.
- Press “▲” key or “▼” key to adjust the parameter value of current menu.
- After the value is set, press “ ” key to save the parameter modified value, and return to the normal temperature value.
- If no operation within 10s, the display will exit the menu automatically and return to normal temperature display status, it will not save any parameter modification.

Should you require additional assistance please contact us at 780-871-4800.