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ADDENDUM TO PERFECT FIRE OPERATING INSTRUCTIONS

Thank you for purchasing your Evenheat kiln with the Perfect Fire digital controller. Recent advances in technology and manufacturing along with customer feedback has allowed Evenheat Kiln to offer an upgraded version of the Perfect Fire temperature control unit. Some new features have been added which require some further explanation.

Design Changes (thank you for your feedback)

The illuminated display (LED's) has been repositioned to allow for easier viewing. These LED's have also been sized larger for easier identification.

For those users who simply change cone number without changing other firing parameters, the cone selection process has been modified to avoid the redundant questioning.

The power ON / OFF switch has been integrated into the control unit itself.

Programming and Other Changes

Start Up Screen

When power is applied to the Perfect Fire the initial display will read either "CA F" or "CA C". The "CA" tells the user the thermocouple type is "Chromel Alumel" also known as Type K. The "F" or "C" indicate either the Fahrenheit or Celsius scales respectively.

Cone Selection Keystroke Sequence

Keystroke sequence for cone selection has changed slightly from that described in the Perfect Fire Operating Instructions.

If you desire to fire by temperature the programming instructions contained in the Perfect Fire Operating Instructions are correct. However, if you desire to fire by cone number, replace instruction #1 on page 5 of the Perfect Fire Operating Instructions booklet with the following instructions. It should be noted that this new cone number selection sequence is also used for the Sample programs found on pages 7 and 8.

1. Press and release the Cone key. The Temp / Off light will be flashing and the display will read either "C - - -" or previous cone selected. Use the arrow keys to choose the cone # and press enter momentarily to store this in the memory. Press the Cone key again to return to the initial Off state.

At this point you have chosen the cone # at which to fire. If the delay, rate / hr and hold time values have been programmed previously, and are not needing changes, you may simply press the Start key to begin firing.

To examine or change the other firing values press the Select key one time. The equivalent cone temperature will be displayed. If you would like to adjust this temperature feel free to do so using the arrow keys and press Enter. Continue on with the step #2 in the Perfect Fire Operating Instruction booklet.

Minimum and Maximum Parameter Changes

Please note that these changes will mean little, if anything, to most users. However, in the interest of accuracy these are the new parameters!

Previous maximum delay time was 40 hours. This has been increased to 99 hours and 45 minutes maximum.

Previous maximum Rate / Hr was 3999 degree per hour. This has been increased to 4500 degrees per hour maximum. Lowest rate per hour has been changed from 10 degrees to 9 degrees per hour. A ramp may not take longer than 50 hours to complete.

Previous maximum hold time was 40 hours. This has been increased to 99 hours and 45 minutes maximum.

Error Messages

A new feature has been added to the Perfect Fire control unit. The Perfect Fire will now examine the actual temperature increase of the kiln chamber. If the temperature does not rise at a minimum pre-set rate the Perfect Fire will shut off and display the error code "Err1".

The idea behind this feature is the assumption that under normal operating conditions the kiln chamber temperature will be able to increase at least as fast as the pre-set rate. If it cannot, the assumption is made that a problem exists.

Potential problems include, one or more heating elements have failed, power relay failure, low voltage condition.

Keep in mind that the error codes "EEEE" and "Err2" as described in the Perfect Fire Operating Instructions also apply to your controller.

If you have any questions regarding these changes please feel free to call Evenheat Kiln, Inc. at (517) 856-2281