

AccuDry™ Kiln Operators Reference Guide

Safety



In the interests of safety and the prevention of accidents and injuries it is important for operators to be aware that they are responsible for their own safety. By adhering to the following guidelines operators can avoid potentially dangerous situations.

1. Always wear safety gloves and long sleeve clothing when working with hot plates to prevent burns.
2. Be extremely careful of the edges and corners of the plates as they are sharp and can cause injury.
3. Always maintain a firm grip on the plates to avoid dropping them and causing an injury.

Operation

In order to operate the system the following steps must be followed (details of each step are provided):

- * Insert the stainless steel plates into the stacks.
- * Connect the meters to the stainless steel plates.
- * Watch the computer screen and note the drying process.
- * Disconnect the plates at the end of the run before pushing out from the kiln.
- * Repeat the above steps to start a new run.

1 Insert Plates



1. Plates must be inserted prior to the charge being pushed into the kiln.
2. Stacks consist of four bundles. Normally insert the plates on the second stack from the bottom since this provides the easiest access.
3. Insert so that ...
 - * The position in the stack corresponds to the meter position in the kiln. The meter positions should be painted on the ground outside the kiln where the charges are made up. This will ensure that when the charge is loaded into the kiln the plates are in a position close to the meters for easy connecting up with spring clips.
 - * The two plates are in the center of the stack. Watch out for short boards in the stack.
 - * The plates are vertically aligned.
 - * The bottom plate must be on TOP of the bottom layer of boards.
 - * The top plate must be on the top of the thirteenth layer above the bottom plate.

2 Connect Meter



When the charge has been loaded into the kiln, connect the spring clips to the plates :

- * Ensure that the two cables are not touching against anything as this will give erroneous results.
 - * Ensure that the cables cannot swing and touch against one another.
 - * Ensure that the cables are under tension.
 - * Connect consistently. i.e. top clip to top plate and bottom clip to bottom plate.
 - * Ensure that the clips are making good contact with the plates.
1. Check on the LCD screen in the control room that the system registers that the plates are connected. Look at the corresponding time on the bottom axis - a vertical line should be noticed.
 2. Check that the steel cable operating the top baffle is secured so as not to interfere with the probe cables.
 3. Fire up the boiler. Start the kiln.

3 Watch Computer Screen

1. Watch the screen and monitor the drying process.
2. Stop the kiln when the desired moisture content is reached.

4 Disconnect



1. Disconnect the cables from the plates before pushing the charge out of the kiln.
2. When the charge is out of the kiln, remove the plates and store them so they are ready to be inserted into the next green charge.