

Precision Electric Products

SUMMARY OF START UP INSTRUCTIONS

1. Make sure there is **NO POWER** to Boiler.
2. Check all Electrical connections-Fuse Block and Contactor screws should be torqued to 50 in. lbs., Phase distribution Block screws should be as tight as possible.
3. Check Phase to Phase and Phase to ground wires and make sure there is nothing grounding out.
4. Check fuses with Ohm meter for continuity. Check resistance of each element. Check Megohm reading of each element (greater than 1 Megohm).
5. If moisture is found in elements, use this moisture removal method.
 - a.) Remove the fuses going to the contactor.
 - b.) Allow hot boiler to drive out moisture from affected element. This will take several hours.
 - c.) Once boiler has operated for several hours, turn main power off and reinstall fuses, then recheck Megohm reading.
6. Make sure Power Switch to Boiler is in the off position
7. Energize Boiler (Turn on High voltage Power).
8. Turn Power switch to Boiler to the on position.

9. Make sure all feed water valves are open and then allow Boiler to fill to operating level. For Steam Vessels, the desired level has been reached when the Feed Pumps shut off. Hot Water Vessels need to be completely full.
10. Set temp controller to desired outlet water temperature or steam pressure (Depending on operating needs).
11. Start heating up Boiler slowly by Energizing KW limit switches two at a time until all KW limit switches are fully on.
12. Adjust Manual and Auto Reset Limits:
 Auto = 10 psi above set point of controller
 Manual = 20 psi
13. At this point, check for proper operation of all limits and low water cut offs.
14. Make sure time in between each step is set at approximately 28 to 30 seconds or more. If less than that amount of time, minimum on delay needs to be adjusted on Step Board. (Call for Tech Support).

BOILER SHOULD BE OPERATIONAL AT THIS POINT.