

CONCEPT BOILER SYSTEMS

BOILER STARTUP PROCEDURE

1. Check that the boiler is in an isolated condition by checking valves and electrical switches and that the burner switch is in the low fire position if fitted. Check that the area around the boiler is clear of any obstacles.
2. Ensure the feedwater tank is full and that mains/makeup supply valve is open and that water is available.
3. Slowly open the gas supply valve if it's not already open.
4. Ensure all valves between the feedwater tank and the boiler are open and between the feedwater pump and the boiler are open.
5. Open the Main Steam Valve on top of the boiler.
6. Turn the Main Isolation Switch to the ON position. It's located on the left side of control panel.
7. Check where the water level is in gauge glasses. If necessary top up the water using the manual fill switch located at top of control panel until the water level is approximately half way in the gauge glass.
8. Turn the switch at the top of the control panel to the RUN position and push the START/LOW WATER RESET button which is located at bottom left side of control panel. The water level will automatically turn off at the correct level and the burner will start.
9. Close the feedwater isolation valve to prevent over filling due to gravity if a solenoid valve or similar is not fitted.
10. When the boiler pressure reaches 100kPa open the feedwater isolation valve.
11. When the boiler reaches 200kPa open the blowdown valve located on the bottom left side of the boiler slowly and fully for 7-10 seconds unless instructed otherwise. The burner switch can be turned to HIGH now if fitted.
12. The boiler is now operating automatically and the water level will fill as required and the burner will operate according to steam demand.
13. Perform blowdown procedure of water gauge glass mounts as instructed every 6-8 hours.
14. Perform regular main blowdowns of boiler as instructed which is located at bottom left side of boiler for 5-8 seconds unless otherwise advised.

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