



STEFFES CORPORATION

Annual System Check-Out

For use with 8100 and 9100 Series ThermElect Heating Systems



**THIS PROCEDURE MUST BE PERFORMED
BY A QUALIFIED TECHNICIAN.**

1. Verify that all required clearances are maintained. Refer to the system identification label for the system clearance requirements.
2. Verify that the power company's peak control system and/or the building management system are operating properly.
3. Verify that the outdoor temperature information displayed on the heating system's control panel is approximately the same as the current outdoor temperature.



WARNING

HAZARDOUS VOLTAGE: Risk of electric shock. Can cause injury or death. System may be connected to more than one branch circuit. Disconnect power to all circuits before servicing. Equipment must be installed and serviced by a qualified technician.

4. Verify that all heating and/or cooling zones are operating as intended. Initiate a heat call from the room thermostat or building management system and verify that the system recognizes the appropriate heat call. Refer to the Operating Status section of the Owner's and Installer's Manual for information on the various heat call status displays.
5. Verify that all heating zones, forced air or hydronic, are operating with the correct zone valve/damper response.
 - **Hydronic applications:** Verify that water pressure is correct for the application.
 - **Forced air applications:** Verify that all forced air zones are operating with the proper air volume.

NOTE: Steps 6, 7, and 8 are designed to verify that when all heating elements are energized, the system is drawing proper amperage and to verify that when under control, the system is not drawing any amperage. How to perform these system checks may vary depending on the type of building management system being used.

6. Scroll up on the display panel until the targeted brick core charge level is displayed. Using the charge control override or the building management system, initiate a full charge. Once initiated, the heating system will target 100 percent core charge, all elements will be energized, and the control panel should display "tL: F".

NOTE: Initiating a full charge may cause electric company demand charges to accumulate. Check with building system administration before starting this test.

7. With an amp meter, verify that the amperage of the system is correct for the installation. Refer to the System Identification Label and the System Specification's page of the Owner's and Installer's Manual for information regarding the proper amperage.
8. Place the heating system in a controlled state and verify that the targeted brick core charge level changes to "tL: _".
9. With an amp meter, verify that there is no amp draw on the charging circuits.
10. Return the system to normal operating mode.

NOTE: If a more thorough check-out is desired, remove the front painted panel and inspect element connections for signs of overheating and/or loose connections. Check resistance across each element to ensure proper operation.