

### **Boiler (Hot Water, Natural Gas Fired):**

1. Check entire venting system
2. Visually check main burner flames.
3. Check burners for soot accumulation and clean burner and flue gas passage way.
4. Check heat exchanger surface for soot and clean.
5. Check combustion air fan and oil motor and bearings if required.
6. Check water pump and oil motor and bearings if required.
7. Check area around boiler and clean up all debris.
8. Check combustion air openings in room to verify that the openings are open and unobstructed.
9. Check transformer to insure 24 V control power.
10. Check combustion air fan for proper operation and proper draft.
11. Check gas train and controls.
12. Check gas igniter.
13. Check low water cut-off operation.
14. Check air accumulation in system and vent if required.
15. Check temperature and pressure.
16. Check flame safety control and shutdown.
17. Check operation of unit and operating controls.
18. Check fuel system for leaks.
19. Check high limit safety control.
20. Check low limit control.
21. Check safety relief valve.

**Warning:** Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

**Warning:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to this manual for assistance or for additional information consult a qualified installer, service agency or the gas supplier.

**Warning:** Electrical power supply and control power supply to the boiler and burner unit should be de-energized before servicing this equipment. Follow all local electrical, safety and building codes, the provisions of the national electric code and the occupational safety and health act.

**Caution:** If you smell gas, do not try to light the appliance. Do not touch any electrical switch; do not use any phone in your building. Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions. If you cannot reach your gas supplier, call the fire department.

**Caution:** This appliance does not have a pilot. It is equipped with an ignition device, which automatically lights the burner. Do NOT try to light the burner by hand.

**Caution:** Before operating, smell around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle to the floor.

See Page 2-1-1h6 for additional safety items.

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- Caution:** Use only your hand to turn the gas control lever. Never use tools. If the lever will not turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- Caution:** Do not set fire visually; use instruments. Visual setting may cause serious eye and face burns.
- Caution:** During start-up the operator must be on constant alert for emergency conditions, such as fuel leaks, electrical malfunctions, etc. The locations of all manual shut-off valves and switches should be clearly visualized, so that the burner could be quickly shut down if necessary. Should the burner fail to ignite, never manually manipulate the flame safeguard sequence, which provides for the purging of the combustion chamber.