

# Boiler Check

## Domestic Central Heating Boilers

1. Inspect the general conditions of the boiler, reporting any compliance or apparent faults including the presence of water leaks on the boiler and/ or associated connections.
2. Conduct a tightness test of the gas installation
3. Electrical safety checks for earth continuity, polarity, and correct fuse rating.
4. Inspect and clean (as necessary) the main burner and /or pilot burner assemblies.
5. Check, clean, and adjust (as necessary) boiler ignition system.
6. Inspect and clean (as necessary) the main heat exchanger, including inspection of all associated gaskets and seals.
7. Check and clean (as necessary) any flue fan unit and associated components i.e. Venturi and impulse tubes.
8. Check and clean (as necessary) any condensate trap.
9. For pressurised boilers check that any internal expansion vessel is adequately charged.
10. The boiler will be subsequently re-assembled, adjusted in accordance with the manufacturer's instructions, and full functional checks completed i.e. response to controls, sensors, and temperature turn-off.
11. Check and adjust (as required) all associated gas controls, including flame failure system, pressure regulator, gas pressure switch, pilot solenoids etc.
12. Conduct an integrity test on the safety shut off valve (gas valve), in order to ensure effective closure and operation. The internal gas components will be checked for any gas leakage during boiler operation.
13. Check the operation of boiler mounted electrical controls (i.e. thermostats, temperature indicators etc).
14. Check the performance and condition of the flue including inspection of the complete route and terminal position. Check for adequate ventilation.
15. Check the condition and integrity of any casing seals.
16. Check gas inlet pressure, working pressure, high & low flame operation and adjust as necessary.
17. Conduct flue gas analysis to determine final CO/CO<sub>2</sub> ratio and boiler efficiency
18. Provide a report including advising the customer of any remedial work that may be necessary.