

Method statement for cleaning and treating existing domestic systems

Cleaning and treating an existing central heating system using **Fernox Cleaner F3** and **Fernox Protector F1** in accordance with Part L of the Building Regulations

Procedure

1. Identify and rectify mechanical faults.
2. Dump system water to a foul drain and refill with fresh plain water.
3. Add **Fernox Cleaner F3** through a radiator using either a Fernox Injector, Express or Superconcentrate at the recommended dose. One 500ml bottle of **Cleaner F3** treats a 100 litre system or up to 10 single radiators. If you are unsure of the dose rate contact Fernox Technical Services on +44 (0) 870 870 0362.
4. Turn on the boiler and **Cleaner F3** for a minimum of one hour, hot or for a longer period of time for heavily sludged systems.
5. Isolate all radiators except that furthest away from the appliance, starting upstairs if applicable. Circulate the product through the radiator until efficiency is restored.
7. Repeat step six on all radiators, boiler and circulator pipes.
8. Re-open all radiators, and circulate for a further 15 minutes and take a further TDS reading.
9. Once the system has been cleaned thoroughly add **Fernox Protector F1** at the recommended dose. **Fernox Protector F1** will protect against the formation of limescale, corrosion and microbiological growths. It is crucial however, for a Protector to work correctly, the system must be properly cleaned and flushed.
10. Fit a **Fernox Total Filter TF1**, a unique hydrocyclonic and magnetic in-line filter for continual long-term protection.
11. The retreatment sticker provided with all **Fernox Protectors** should be correctly completed and applied to the boiler casing.

Repeat step five throughout the system including boiler and circulator pipes.

6. Isolate all radiators except that furthest away from the appliance. Open the full bore drain point; at the same time introduce fresh water via the feed and expansion cistern or via the temporary mains connection if not a system, or combination appliance. Flush through thoroughly until the water runs clear.

Use a **Fernox TDS Meter** to ensure that the total dissolved solids have been satisfactorily removed. **The system can be regarded as being thoroughly flushed when the system water value is within 10% of the mains water value.** Differences over 10% mean that significant cleaner residues have been left in the system and further flushing is required. If not removed cleaner residues will promote corrosion and negate the cleaning process.

Note: For continual protection Fernox recommend Protector levels are checked annually (usually during the service) or sooner if the system content is lost. This should be carried out using a **Fernox Protector Test Kit**.

Fernox Technical Services can be contacted on +44 (0) 870 870 0362 for further advice or please visit www.fernox.com.

NB: Motorised valves should be manually opened during the flushing process and any anti-gravity valves should be by-passed or removed temporarily.

If it is necessary to cap off the open vent during the mains flush to prevent overflow ensure the cap is removed prior to starting the appliance.