

Method statement for cleaning and treating new domestic systems

Cleaning and treating a new central heating system using **Fernox Cleaner F3** and **Fernox Protector F1** in accordance with Part L of the building regulations.

Procedure

1. Fill the system with cold mains water to the recommended pressure and check for leaks. Drain the system thoroughly making sure all drain cocks are fully open and that the system is completely drained.
2. Add **Fernox Cleaner F3** via 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.
3. Refill the system and circulate **Fernox Cleaner F3** before the boiler is fired up. Then commission the system in the normal way. **Cleaner F3** must be left in the system for a minimum of **one hour** with the system running at normal operating temperature. A longer period of time is beneficial to the cleaning process especially if excess flux was used.
4. Drain and flush the system thoroughly to remove the cleaning chemical and debris present. This is a crucial part of the cleaning process and **must** be done correctly. 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.
5. Once the system has been cleaned thoroughly add **Fernox Protector F1** to the system at the recommended dose. **Fernox Protector F1** will protect against the formation of limescale, corrosion and microbiological growths. It is crucial, however, that for a **Protector F1** to work correctly, the system must be properly cleaned and flushed.
6. Fit a **Fernox Total Filter TF1**, a unique hydrocyclonic and magnetic in-line filter for continual long-term protection.
7. The retreatment sticker provided with all **Fernox Protectors** should be correctly completed and applied to the boiler casing.

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.