

Method statement for cleaning and treating new domestic systems

Cleaning and inhibiting a new central heating installation using **Fernox Cleaner F3** and **Fernox Protectors**.

Procedure

1. Fill the system with cold mains water to the recommended pressure and check for leaks, then drain the system thoroughly making sure all drain cocks are fully open and that the system is completely drained.
2. Add **Fernox Cleaner F3** through via a radiator using either a Fernox Injector, Express or Superconcentrate at the recommended dose. One pack must be used as a minimum per dwelling. If you are not sure of the dose rate, then contact Fernox Technical Services on +44 0870 870 0362.
3. Fill the system back up and circulate the **Fernox Cleaner F3** before the boiler is fired up. Then commission the system in the normal way. Cleaner F3 must be in the system for a minimum of 1 hour with the system at normal operating temperature. A longer period of time would be more 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 cleansing process and must be done correctly. Use a rinse test meter such as the **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, then add a **Fernox Protector F1**, to the system. The product must be added as per the manufacturer's instructions. This will protect against the formation of scale, 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. The sticker on the base of the **Fernox Protector F1** back label should be correctly filled in and attached adjacent to the boiler.
7. Please note: we recommend Protector levels are checked on an annual basis (usually during the service) or sooner if the system content is lost. This should be carried out using a **Fernox Protector test kit** or 60 second Protector Check strip.
8. Fernox Technical Services can be contacted on +44 (0) 870 870 0362 for further assistance.

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.