

Saving the planet

Saving money

A world of water treatment

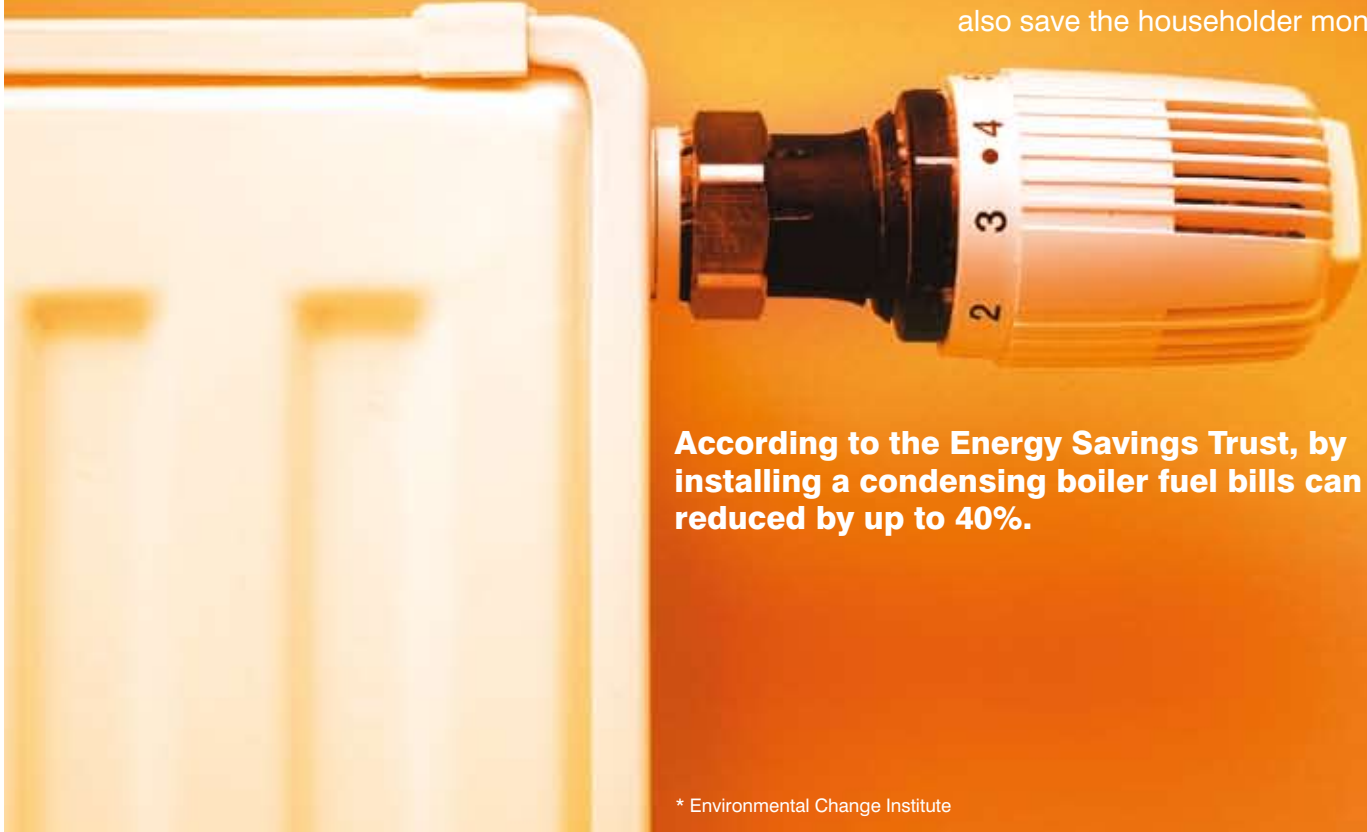
Global warming is a worldwide concern, The Kyoto Protocol, signed by 38 nations in 1997, pledged to make efforts to combat this alarming trend. Legally binding targets were set to reduce the production of greenhouse gases with the UK voluntarily agreeing to exceed recommended targets and achieve a 20% reduction by 2010.

Central heating boilers account for two-thirds of Europe's domestic carbon emissions*.

A move towards high efficiency condensing boilers means this harmful output should significantly reduce over time.

Designed to operate at levels of over 90% efficiency, many condensing boilers efficiency levels are immediately at risk as soon as water enters the system, unless it is correctly treated against corrosion and limescale.

More efficient systems not only help to save the planet but with the continual rise in fuel prices – they also save the householder money.



According to the Energy Savings Trust, by installing a condensing boiler fuel bills can be reduced by up to 40%.

* Environmental Change Institute

The importance of water treatment

With over 40 years experience and continual investment in research and development, Fernox water treatment products are manufactured to the highest quality, reliability and performance. All Fernox products are simple to use and are guaranteed to work effectively. They boost efficiency and play a major part in reducing time spent on site, avoiding costly call backs.



Fernox formulations are EDTA, nitrate and phosphate-free and are accredited with KIWA, Buildcert and Belgaqua approvals.

Fernox products also conform to the Domestic Water Treatment Association (DWTA) standard specifications. By using products that conform to this standard, and treating heating systems in line with BS7593, customers can be assured that a central heating system will maintain its efficiency for the lifetime of the boiler.

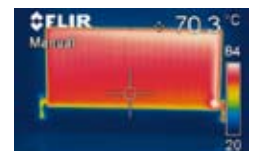
The Importance of Water Treatment

Water in a central heating system needs to be chemically treated otherwise corrosion and limescale will soon affect a boiler's efficiency. Research has shown that a new system can be up to 6% less efficient within a matter of weeks if not correctly treated, impacting on CO₂ emissions and the environment.

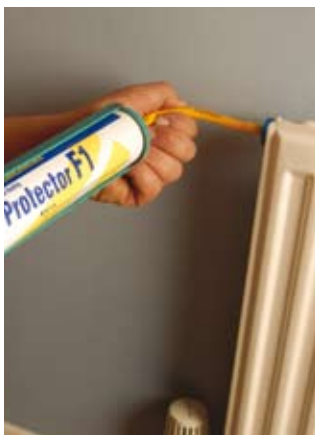
An untreated system can be affected by a variety of problems including radiator cold spots and air pockets, boiler noise, pump seizure or failure, all of which can lead to costly repairs or replacements.



An untreated radiator demonstrating black metal oxide sludge and limescale build up; leading to radiator cold spots and inefficiencies.



Following water treatment, sludge and limescale deposits are removed and the radiator is emitting heat to full capacity.



Water treatment product range

Liquid products	F 500ml range	Protector Boiler Noise Silencer Cleaner Leak Sealer
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Protector F1

- Long term protection against corrosion and limescale
- Stops frequent venting of radiators
- Extends the life of the system



Boiler Noise Silencer F2

- Reduces boiler noise
- Improves heat transfer efficiency
- Saves on repairs and cleaning costs



Cleaner F3

- Removes sludge, scale and debris
- Ideal for combination boilers
- Restores heating efficiency



Leak Sealer F4

- Stops small leaks
- Ideal for reducing pressure loss from sealed systems
- Does not cause pump or air vent blockages

Commercial products	25 litre range	Protector Restorer
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Alpha-11 Protector

- Combined anti-freeze and protector
- Gives long term protection against corrosion and limescale
- Suitable for commercial heating and chilled water systems
- Ideal for use in solar systems
- Also available in 5 litres



Protector CH-3

- Gives long term protection against internal corrosion and limescale formation
- For commercial heating and chilled water systems



Cleaner IC-20

- Multi-purpose cleaner
- For pre-commissioning new systems
- Removes sludge and scale from existing systems
- Ideal for cleaning older installations without exposing leaks
- Non acidic, no neutraliser required

Superconcentrates

F 290ml range

Protector | Boiler Noise Silencer | Cleaner | Leak Sealer



Protector F1

- Long term protection against corrosion and limescale
- Stops frequent venting of radiators
- Extends the life of the system

Boiler Noise Silencer F2

- Reduces boiler noise
- Improves heat transfer efficiency
- Saves on repairs and cleaning costs

Cleaner F3

- Removes sludge, scale and debris
- Ideal for combination boilers
- Restores heating efficiency

Sealer F4

- Stops small leaks
- Ideal for reducing pressure loss from sealed systems
- Does not cause pump or air vent blockages

Easily and quickly added via a radiator. Universal applicator included.

Sludge & limescale remover, external leak sealer

Descaler | Cleaner | Remover | Sealer



MB1 Protector

- Central heating protector for mixed metal systems
- Protects against corrosion and limescale
- Maintains system efficiency

Heavy Duty Restorer

- Removes sludge and scale and restores heating efficiency of existing systems
- Removes flux residues and other debris
- Suitable for use with all known powerflushing machines

DS40 System Cleaner

- Powerful descaler and sludge remover
- Eliminates boiler noise
- Pack includes neutralising agent

DS3

- Powerful acid limescale remover
- Suitable for all types of appliances
- Dissolves up to 50% of its own weight of limescale

LS-X

- Silicone paste for use as an external leak sealer or jointing compound
- Ideal for use on compression joints and screwed fittings
- Ready to use, no mixing

Equipment product range

Equipment & Accessories

Adapters | In-line filters | Pumps | Test Kits | Solder



Boiler Buddy

- Premium quality, in-line, high efficiency magnetic filter
- Removes magnetite and magnetic materials to sub-micron levels
- Causes no pressure or flow drop, even when filter is full
- Clear housing enables build-up of debris to be observed
- Slots into existing circulator position when installing condensing boiler



Powerflow Pump Head Adapter

- For easy connection of power flushing machines to central heating systems via the body of the circulatory pump
- Allows for cleaning of secondary heat exchangers without the need to dismantle the boiler
- Ideal for condensing boilers with in-built circulators



Powerflow Flushing Pump MKII

- Powerful, acid-proof flushing pump
- For effective removal of corrosion debris, sludge and scale
- High temperature operation enables faster cleaning
- Only one visit to site is required to powerflush entire central heating system



Flush Buddy

- Premium quality, magnetic filter for use during powerflushing
- Connects directly on to any powerflushing machine
- Removes magnetite and magnetic materials
- Increases effectiveness of powerflushing
- Clear housing allows the removal of debris to be observed



Quantomat

- In-line dosing unit for effective protection against the build-up of limescale deposits
- Proportional dosing of Quantophos H powder ensures correct treatment for all flow rates
- Protects domestic appliances
- Fits horizontal or vertical pipework
- Refills of Quantophos H powder available



System Health Check

- Analytical water sample testing via postal service
- Confirms a system has been correctly treated with Fernox products
- Fast turnaround time for results
- A premium service is also available which offers comprehensive analysis for problem solving



Protector Test Kit

- Gives rapid on-site analysis of the concentration of all Fernox protectors
- Includes full instructions for simple and accurate testing
- Kit includes sufficient reagents for at least 25 system checks
- Replacement reagents available



Solder

- Available in leaded and lead free
- Available in 250g and 500g reels

Alternative technology

Renewable energy sources

A green future

Part L of the Building Regulations has taken the first step in focusing the building industry's mind on energy efficiency by introducing the requirement that high efficiency condensing boilers must now be fitted as part of any new or replacement central heating installation.

The Government's longer-term energy conservation aim has also moved the concept of renewable energy firmly up the agenda. With the construction sector having to consider alternatives to fossil fuel, such as wind, ground source heat pumps and solar energy, water treatment plays a pivotal role in this initiative.

Understanding the key industry influencers ensures Research and Development stays at the forefront of Fernox's philosophy. The company is continually developing new products and services to meet changing demands. Collaborative working with the leading boiler manufacturers also ensures that every product developed truly benefits the industry and works hand-in-hand with other product innovations within the sector.

