

## **Water** treatment

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Understanding water  
treatment best practice



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**Approximately 87% of boiler call-outs are to systems without correct water treatment**

Source: major boiler manufacturer testing and research





**From radiator pinholes or cold spots to sticking pumps or blocked heat exchangers, you don't need us to tell you that a whole variety of issues can affect central heating systems.**

Although these symptoms are different and can appear in different types of system (old or new), they have two things in common:

- **they can be caused by corrosion or limescale**
- **they are avoidable with appropriate water treatment**

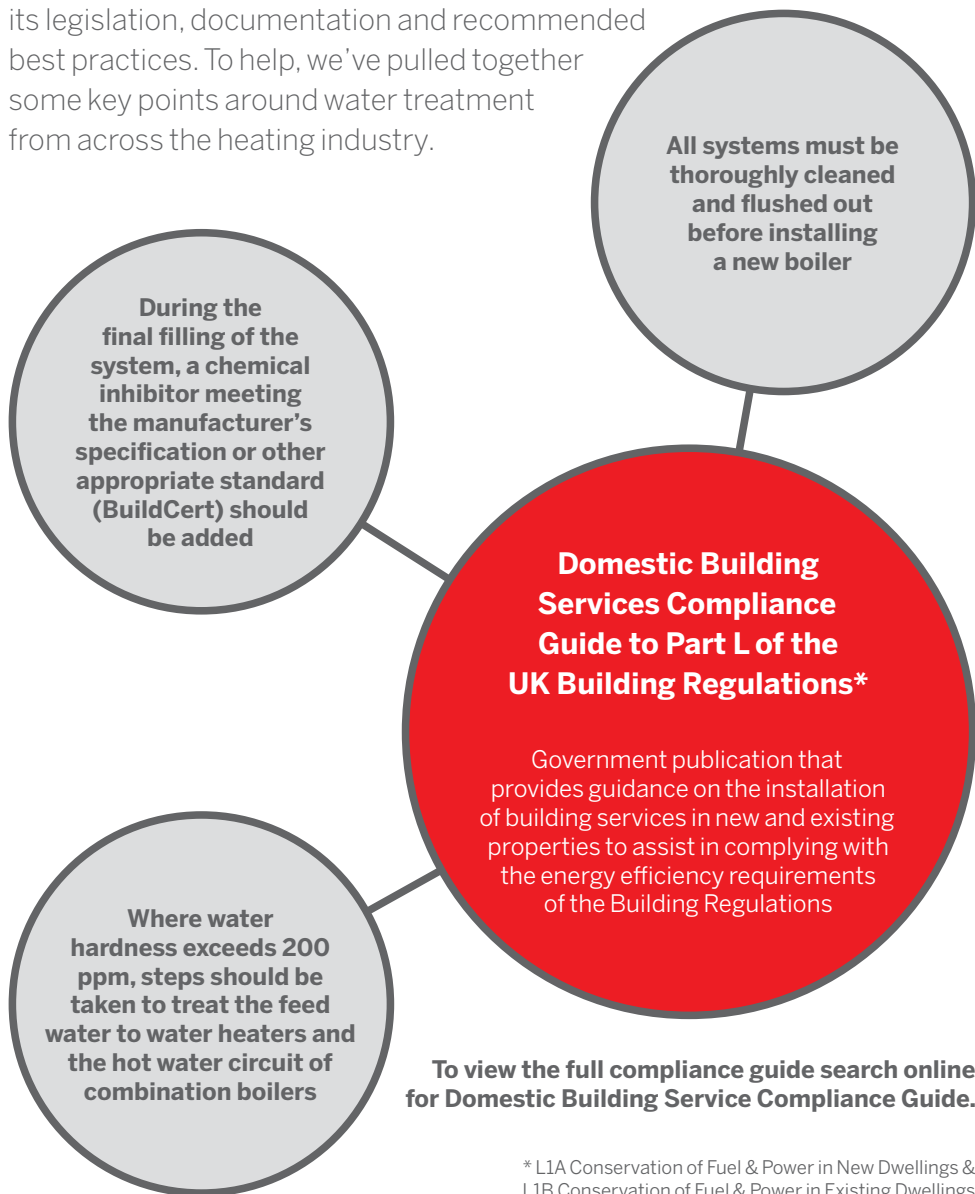
Benefits of quality water treatment for heating engineers:

- **Reduced number of callbacks to failed systems**
- **Reputation for reliable installations**
- **Easily meet criteria for extended warranty provision**
- **Compliance with industry best practice**
- **Add-on sales**



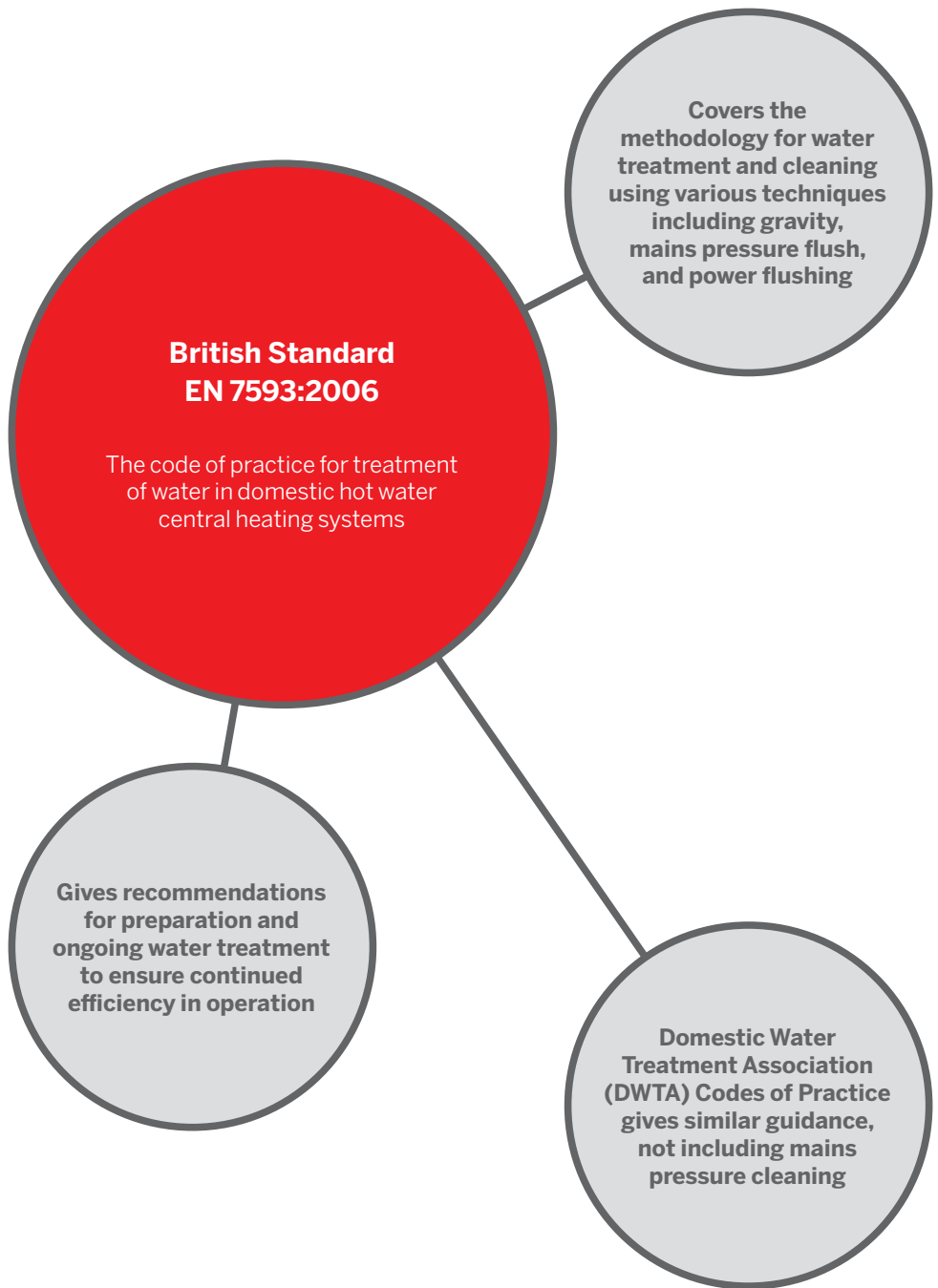
# Legislation and standards

Part and parcel of learning a trade is getting to grips with its legislation, documentation and recommended best practices. To help, we've pulled together some key points around water treatment from across the heating industry.



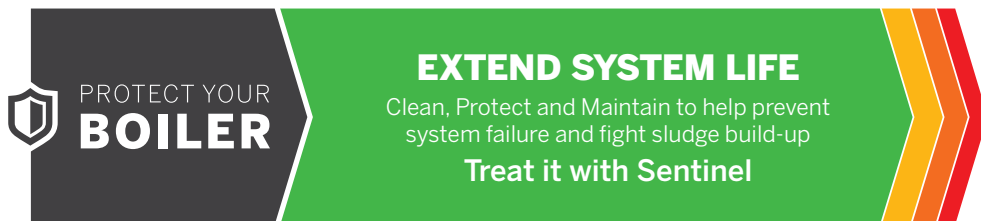
\* L1A Conservation of Fuel & Power in New Dwellings & L1B Conservation of Fuel & Power in Existing Dwellings





# Energy Related Products (ErP)

The Energy Related Products Directive (ErP) supports the Ecodesign Directive that is driving the development of energy efficient components and products. Under the Energy Labelling Directive, certain heating and hot water systems will be required to carry energy labelling.



**PROTECT YOUR BOILER**

**EXTEND SYSTEM LIFE**

Clean, Protect and Maintain to help prevent system failure and fight sludge build-up

**Treat it with Sentinel**

- **Homeowners will be more aware than ever of the energy efficiency of their boiler and heating system components due to the Energy Labelling Directive.**
- **More high efficiency products will be available on the market due to the Ecodesign Directive.**
- **Protecting the high efficiency components of the heating system with quality water treatment will help to maintain the established efficiency of the system.**

For further guidance on ErP many major boiler manufacturers such as Baxi, Ideal, Vaillant and Worcester Bosch have a range of helpful material.



# The Sentinel System

Lifetime protection for heating and hot water systems with the best practice process of Clean, Protect and Maintain.



## **Clean** to prepare for greater performance

Cleaning a new system will remove any installation debris and flux residues which, if left inside the system, will cause corrosion. Cleaning an old system will remove sludge build-up, improving the efficiency of the system and minimising the circulating debris that enters a retrofitted boiler.



## **Protect** to prolong system life and efficiency

After cleaning, it is important to protect your system from returning scale, corrosion and sludge build-up.



## **Maintain** to ensure durable protection

Many factors can reduce the level of protection of a central heating system, for instance system water losses by the removal of a radiator whilst decorating. We therefore advise checking the quality of water and level of protection annually.





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