



# Sentinel

Total solutions for central heating and domestic water

[www.sentinel-solutions.net](http://www.sentinel-solutions.net)

**SENTINEL**  
EXPERTS IN ENERGY EFFICIENCY

# For the answer to all your water treatment needs

Sentinel is a leading and award winning manufacturer of products designed improve system efficiency, reduce energy consumption and carbon dioxide emission and prolong the life of residential heating and other water systems. For more information, please visit [www.sentinel-solutions.net](http://www.sentinel-solutions.net).

## Inhibitors



### X100 Inhibitor

A general purpose treatment for **total protection against scale and corrosion** in all types of indirect central heating systems, including those containing aluminium. **Will extend the life of the system**, and ensure maximum efficiency and minimum fuel usage. Once added, X100 never needs to be replaced unless the system is drained down.

- ENHANCED SCALE & CORROSION PROTECTION
- FOR ALL SYSTEM METALS
- ENSURES OPTIMUM BOILER EFFICIENCY
- PREVENTS PIN-HOLING & BOILER NOISE
- A SIMPLE TEST KIT IS AVAILABLE TO CHECK LEVELS
- HARMLESS TO THE ENVIRONMENT, COMPLETELY NON-TOXIC AND BIODEGRADABLE



### X500 Inhibited Antifreeze

Provides **protection against scale and corrosion** in all types of indirect heating systems, including those containing **aluminium components**, whilst **preventing freezing**. It is effective at preventing **hydrogen gas production**.

- PREVENTS FREEZING
- ENHANCED SCALE & CORROSION PROTECTION
- PROTECTS ALL SYSTEM METALS
- ENSURES OPTIMUM BOILER EFFICIENCY

The dosage of Sentinel X500 Inhibited Antifreeze will depend on the level of **frost protection** required. A dosage of 20% will give protection down to **minus 6°C**, 30% will protect to **minus 11°C**, 35% will protect to **minus 15°C**.

## Noise Reducer



### X200 Noise Reducer

A unique, life-long system treatment for the **elimination** of limescale and boiler noise. Safe to use in all types of indirect central heating systems it will **quickly pay for itself** in reduced fuel usage.

- ELIMINATES BOILER NOISE "KETTILING"
- RESTORES BOILER EFFICIENCY
- SAFE AND NON-CORROSIVE
- NO NEED TO FLUSH - STAYS IN SYSTEM

## Cleaners



### X300 System Cleaner

Sentinel X300 System Cleaner is specifically designed for **new central heating systems**. It flushes out **flux installation debris** from new indirect central heating systems. Helps to maintain **system efficiency** and **conserve fuel**.

- POWERFUL, HEAVY DUTY CLEANING ACTION
- REMOVES INSTALLATION DEBRIS WHICH CAUSE RAPID PIN-HOLING CORROSION
- PREVENTS HARMFUL COPPER DEPOSITS BEING LEFT IN THE SYSTEM
- AN IDEAL PREPARATION FOR X100 INHIBITOR



### X400 System Restorer

Specifically designed for existing systems Sentinel X400 is a **non-acid treatment** for cleaning older heating systems, **restoring circulation** to radiators and pipework. A **ruthlessly efficient** way to eliminate the build-up of magnetite sludge.

- RESTORES PART BLOCKED RADIATORS
- ELIMINATES COLD SPOTS
- RESTORES FULL HEAT EMISSION
- IMPROVES AND MAINTAINS EFFICIENCY
- PREPARES EXISTING SYSTEMS FOR THE INSTALLATION OF NEW PUMPS
- DOES NOT CAUSE PIN-HOLING OR LEAKS



### X800 JetFlo Ultimate Cleaner

X800 Jetflo, voted Corgi Domestic Product of the Year 2006, is a heavy duty, **'one visit'** cleaning formulation designed to **remove corrosion deposits and scale** in domestic central heating systems. **Specially designed** to complement power flushing using a unit such as Sentinel's JetFlush 4.

- POWERFUL REMOVAL OF ALL MAJOR FOULANTS AND DEBRIS
- FOR ALL SYSTEMS, OLD, NEW, HOT AND COLD
- EXCEPTIONAL RESULTS WHEN FLUSHING
- HARMLESS TO THE ENVIRONMENT, NON-TOXIC AND BIODEGRADABLE

## Deposit Remover



### Deposit Remover

Sentinel Deposit Remover is a **powerful, highly active** cleaning agent for use in indirect central heating systems. It is specifically designed to **remove** objectionable **iron oxide deposits** and **limescale** from **heat exchangers, radiators** and **pipework**.

- HEAVY DUTY ACID CLEANER
- POWERFUL MAGNETITE AND LIMESCALE REMOVER
- REMOVES THE TOUGHEST DEPOSITS

## Leak Sealers



### Leak Sealer

Leak Sealer is ideal when **weeping joints** and **small leaks** don't warrant immediate repair. The liquid is easily **added directly** to the central heating system using a by-pass feeder, or through the feed and Sentinel Dosing Vessel expansion cistern.

- EASY TO APPLY
- READILY DISPERSIBLE
- WILL NOT CAUSE BLOCKAGES WITHIN THE SYSTEM
- COMPATIBLE WITH OTHER SENTINEL PRODUCTS
- SUITABLE FOR ALL METALS INCLUDING ALUMINIUM
- COMPATIBLE WITH ELASTOMERS
- NON-TOXIC AND NON-IRRITANT



### Seal X Joint & Leak Sealer

Sentinel's Seal X Joint & Leak Sealer, is a ready to use **moisture curing low modulus** sealant and is applied externally. It is a **powerful, versatile** and **wholly dependable** emergency sealing solution, providing a **fast cure** (tack free in 30 minutes) and a **watertight seal**.

- EXCELLENT ADHESION TO NON-POROUS SURFACES
- EASY TO APPLY ONE COMPONENT SEALANT
- FAST CURE - TACK FREE IN 30 MINUTES
- UNAFFECTED BY EXTREMES IN TEMPERATURE
- NON-STAINING
- WHITE COLOUR AIDS APPLICATION IN POORLY LIT AREAS

## Underfloor Heating



### X700 Sanitiser & Biocide

Designed to **clean** and **protect underfloor heating systems** Sentinel X700 is a solution containing a **stabilised biocide** for use in underfloor heating systems. The growth of **bacteria** and **fungi** in these systems can **cause problems** such as **blockages** of the **pipe work, manifolds, valves** and **heat exchangers**. Systems can also produce **unpleasant smells** or suffer from **corrosion** of the heat exchanger or manifolds. This can severely disrupt the **smooth and efficient operation** of the system. Sentinel X700 is specifically designed to **eliminate these problems** in underfloor heating systems.

- EFFECTIVE BIOCIDES AND FUNGICIDES
- REMOVES BLOCKAGES CAUSED BY SLIMES
- GIVES LONG LASTING PROTECTION
- EASY AND QUICK TO DOSE
- NON CORROSIVE, SAFE TO HANDLE
- SUPPORTED BY BIOCHECK TEST KIT



### BioCheck Test Kit

Used for monitoring the **correct use** of Sentinel X700 in under floor heating systems the **BioCheck Test Kit** is designed to **ensure the correct use** of Sentinel X700 in underfloor heating systems. Use of the BioCheck Test Kit will **establish the correct level** of Sentinel X700 and **confirm** that **bacteria have been eliminated** from the system during commissioning procedure for new systems, ongoing service maintenance or the cleaning of fouled systems.

The BioCheck Test Kit is supplied with a **CD** that contains the **user instructions**, together with a **printable System Service Log**.

The **System Service Log sheet** can be printed, to help **maintain a record of results** and actions taken at times of the annual service visit.

The BioCheck Test Kit is supplied in a **compact, durable plastic case** and contains the following items:

- SENTINEL X700 TEST STRIPS
- DIPSLIDES
- SAMPLE BOTTLE

## Concentrates



### Concentrates & Adaptor Kit

Effective easy application for all heating systems. Sentinel Concentrates provide the customer with a simple range of **easy to use products** for effective cleaning, protection and noise reduction in all types of domestic heating systems, whether open or closed. Sentinel's Concentrate Adaptor Kit provides a **flexible connector tube** and a **range of adaptors** to allow Sentinel Concentrates to be quickly added to central heating systems via a radiator or filling loop.

## Test Kits



### X100 Quick Test Kit

The Sentinel X100 Quick Test has been designed as a **quick and easy** way to check the level of Sentinel X100 inhibitor in a central heating system. This **disposable test kit** contains **sufficient reagents** for **testing the system twice**.

- SIMPLE TEST
- DISPOSABLE PACKAGING
- INEXPENSIVE
- ENSURES CORRECT LEVEL OF SENTINEL X100



### SystemCheck Test Kit

A central heating water analysis service that includes an **independent laboratory report**. Contains sample bottles with unique identification number together with a mailing pack and full instructions. A report is issued directly via e-mail or post.



### X100 Test Kit

Sentinel's **easy to use** X100 Test Kit **allows you to ensure** that Sentinel X100 is dosed to the **correct level**. Each kit allows **10 separate tests** to be performed.

## Dosing Vessel



### Dosing Vessel

The Sentinel Dosing Vessel is **specially designed** for **dosing** the Sentinel range of heating system **additives and conditioners** directly into the central heating circuit, either by **injecting** through a **combination boiler's filling loop**, or **any other convenient point** such as a **radiator air vent**. The dosing rate is **fully controllable** by adjusting the ball valve, and **pressure is maintained during dosing** by a few pump strokes at infrequent intervals.

- COMPACT AND ROBUST
- FULLY ADJUSTABLE OUTPUT
- CORROSION RESISTANT CONSTRUCTION
- INTEGRAL PUMPING SYSTEM
- TAPERED NOZZLES SUPPLIED WILL FIT MOST RADIATOR VENTS
- SUPPLIED COMPLETE WITH BOILER FILL LOOP ADAPTER

## Jet Flushing



### JetFlush 4

Sentinel JetFlush 4 provides you with **faster, easier cleaning** for problematic, dirty heating systems, quickly helping to restore optimum efficiency. Using JetFlush 4 with Sentinel X400 System Restorer or X800 JetFlo can **remove magnetite sludge clearly, safely, rapidly and efficiently** from central heating systems, thus **alleviating problems** of cold radiators, blockages, boiler deposits, boiler noise, corrosion, scale and pump circulation.

Sentinel JetFlush 4 is based on the same powerful, submersible Grundfos pump as before, but now has these **additional key benefits**:

- UNIQUE VALVE COMBINATION
- TEMPERATURE INDICATOR
- AUTOMATED COLD FILL



### JetFlush Survey Kit

The JetFlush Survey Kit is designed for use in conjunction with the Sentinel JetFlush 4/JetFlush Jnr domestic central heating system flushing unit. It will **rapidly identify** where problems exist due to the build up of corrosion and scale debris and allow you to **demonstrate the effectiveness** of the flush once it has been completed.

The Survey Report can be printed and it allows you to record relevant information, both **pre and post** flushing, to show the improvements to the system. The **completed report** can then be left with the customer.



## Filtration



### System Filter

Sentinel System Filter is designed to be used in conjunction with the Sentinel range of **chemical cleaning and inhibitor** products for the control and removal of all types of debris commonly associated with wet central heating systems. It provides **fast and effective** removal of both magnetic and non magnetic debris, helping to maintain **optimum system operation** and efficiency once the flushing and inhibiting process has been performed. The unit does not rely on magnets, but instead utilises a **directed water flow pattern** and a **special gauze arrangement** which together force suspended material down into the bottom of the unit, where it collects ready to be drained away by simply opening the ball valve provided at the base of the unit



### Eliminator

Sentinel Eliminator® is the first filter to use **Quadra-Cyclone® Technology** to eliminate magnetic and non-magnetic debris. Unlike other system filters that rely on magnets alone to remove only magnetic debris, Eliminator removes all types of sludge using four **true cyclones** to separate the debris particles from the system flow. Additionally, four magnets strategically positioned in the collection chamber aid the capture and retention of the separated particles.

- EASY TO FIT TO ANY PIPEWORK ORIENTATION
- REQUIRES NO BESPOKE TOOLS OR COMPLEX O RING ARRANGEMENTS
- ELIMINATES ALL TYPES OF SYSTEM DEBRIS, MAGNETIC AND NON-MAGNETIC
- DUAL SEALS TO ELIMINATE THE RISK OF LEAKS
- MAINTAINS CONTINUAL FLOW EVEN WHEN COLLECTION CHAMBER IS FULL
- SIMPLE TO CLEAN WITH THE OPTION TO DRAIN USING THE VALVE OR DISMANTLE THE DEVICE



### X900 Filter Aid

Sentinel X900 Filter Aid has been formulated to enhance the performance of heating system filters in **all types of indirect heating systems**, including those containing aluminium components. It **penetrates, frees and lifts debris** into circulation where it can then be successfully captured by the in-line filter.

- HELPS FILTERS TO BETTER CAPTURE CIRCULATING SOLIDS
- SUITABLE FOR USE WITH ALL FILTER TYPES
- STAYS IN THE SYSTEM TO PREVENT SLUDGE BUILD UP
- SUITABLE FOR ALL SYSTEM METALS
- EASY TO DOSE

## Scale Inhibitor



### ScalePro

Sentinel ScalePro® is ideal for use in homes or small commercial properties. The unit is a **non-polluting, electrolytic physical water conditioning device** that helps protect a pipe system or appliance from the formation of harmful limescale encrustation.

- A NON-POLLUTING, ENVIRONMENTALLY FRIENDLY WATER CONDITIONER
- PROVEN TO PROVIDE SUPERIOR PERFORMANCE
- PROVIDES LONG TERM PROTECTION AGAINST LIMESCALE ENCRUSTATIONS
- INTEGRATED PERFORMANCE INDICATOR LED
- DESIGNED TO BE EFFECTIVE FOR AT LEAST 10 YEARS
- REQUIRES NO EXTERNAL POWER

## Rapid-Dose



### Rapid-Dose™

RAPID-DOSE is a new system for Sentinel designed to make the addition of water treatment chemicals **quick and easy**. Compressed air in the can discharges the contents of the can into the system in seconds. One 400ml can is **sufficient to treat a normal domestic system**.

- DISCHARGES THE CONTENTS OF THE CAN INTO THE SYSTEM IN SECONDS
- NO NEED TO DRAIN / DEPRESSURISE THE SYSTEM
- PROPELLANT IS SIMPLY COMPRESSED AIR
- THE USED CAN IS ALL FULLY RECYCLABLE USING LOCAL RECYCLING FACILITIES WHERE AVAILABLE

# ALSO AVAILABLE

## Sentinel Solar Range

Bespoke solutions for continued maintenance and thermal efficiency of solar collector heat transfer circuits, including thermal fluid, cleaner, test kit and filling/venting/flushing unit.



## Sentinel Heat Pump Range

Sentinel has created a total solution for the maintenance and protection of Ground Source and Air Source heat pump systems, including thermal fluids, sanitiser and biocide, cleaner, and test kits.



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