

SESI - Sentinel Electrolytic Scale Inhibitor

Features and Benefits

- Non-polluting, environmentally friendly water conditioner
- Protects against lime scale encrustations
- No electricity needed
- Pressure and flow tested
- WRAS approved
- Designed to last 10 years
- Chosen in commercial, industrial and domestic applications



Problem

The municipal water supplied to approximately 65% of the UK population is hard water, containing natural calcium and magnesium mineral salts. Although these minerals are not harmful when we drink them, they can cause harmful scale and deposits in pipes and appliances.

When hard water is heated, these dissolved salts can separate out, clinging to the nearby surfaces and forming a hard layer of scale. In pipes, this layer of lime scale slows down the flow of water and may eventually block the pipe completely.

In boilers, washing machines, kettles and other appliances, it builds up on the heating elements or heat exchangers, reducing efficiency and shortening the useful life of the equipment.

Also, lime scale settling out from the hard water will often lead to unsightly deposits around taps and showers which can be difficult to remove.

Description and Use

SESI is ideal for use in homes or small commercial properties. Sesi is a non-polluting electrolytic physical water conditioning process that protects a pipe system from the formation of lime scale encrustation with a "fit and forget" unit that does not need an electrical power supply.

SESI works by a natural electrolytic process using a zinc electrode, and begins working immediately after the unit has been installed. Hardness salts are held in solution or suspension rather than adhering to pipe work, heating elements etc. The process is not sensitive to low water flow. Sesi provides long-term protection from lime scale and can be used to protect water that is to be stored in a tank.

Location

The unit should be installed in the rising main of the municipal water supply, but after the water meter and primary filter units (if fitted), so that the whole property is protected. If the device is fitted to protect only a single appliance, there should be at least three metres of water pipe between the Sesi unit and the appliance. The unit must be installed in accordance with WRAS installation requirements.

SESI Scale Inhibitor – Domestic Versions

Connection: 15mm compression / 22mm compression*

Design flow: 0-20l/min (1.2m³/hr)

Length: 195mm / 190mm

Diameter: 35mm / 35mm

Weight: 0.35kg / 0.40kg

Test regulations: (UK) WRAS Certification 0706038

**Removal of compression fittings converts unit to ½" BSP*

Materials used

Outer body: copper

Anode material: Bespoke zinc alloy