

TECHNICAL DATA SHEET

Electrolytic Scale Reducer 15mm Compression



Maximum working Pressure: 10 bar @ 20°C

Why fit an Electrolytic Scale Reducer?

Part L of schedule 1 of the Building Regulations (England & Wales) is concerned with the conservation of fuel and power in buildings. For dwellings, the regulations are supported by approved documents L1A (new dwellings) and L1B (existing dwellings). These documents give minimum provisions for boiler efficiency, system circulation, hot water storage, system preparation and commissioning of gas-fired, oil-fired and solid fuel systems together with electric wet central heating systems.

They state "Where the mains water hardness exceeds 200ppm, provision should be made to treat the feed water to water heaters and the hot water circuit of combination boilers to reduce the rate of accumulation of limescale and the consequent reduction in energy efficiency."

Therefore fitting an Electrolytic Scale Reducer fulfils compliance with the regulations for both new and existing dwellings.

How do Electrolytic Scale Reducers work?

The copper body (cathode) and internal zinc anode which are connected via 'mains' water (electrolyte) work as a small battery to change the structure of hardness salts. As charged zinc ions are emitted from the anode they form a nucleation site for colloidal particles (such as hardness salts) to group around, rather than clinging to heat exchangers or pipe-work.

Electrolytic Scale Reducers are not water softeners; they induce coagulation, but the hardness remains constant.

In areas where irritating hard deposits form in the shower head or on the kettle element, Electrolytic Scale Reducers work as water conditioners. Any scale that does form will be less tenacious and easily removed.

Note: Water Utilities cannot be held responsible for the quality of water passed from this unit.

How to fit you Electrolytic Scale Reducer:

Locate the stop-cock to the incoming mains and close the valve. Check it is closed by attempting to run a cold tap.

The unit may be fitted vertically or horizontally and is not directional. Choose a straight pipe run that's long enough to accommodate the unit, after the stop-cock and before any branches as the product gives whole house protection.

Ensure the unit is installed so as to be readily accessible for examination, test, maintenance or replacement.

An approved single check valve or other, no less effective back-flow prevention device shall be fitted at the point of connection between the supply and the unit.

Cut the pipe with a Pipe Cutter to ensure square ends, even if you first need to break into the pipe run using a hack-saw. Ensure the pipe is free from score marks.

Be ready with a cloth and bowl to collect any back flow.

The pipe stop depth from the end of each compression fitting is 10 mm and the distance between pipe stops is approx. 155 mm.

Place the Electrolytic Scale Reducer into the gap and tighten the compression fittings with a 24mm spanner. Ensure that the joints are firm.

Open stop-cock and check for leaks.

This Electrolytic Scale Reducer has a serviceable life of between two and ten years (subject to local water hardness) after which time the anode will cease to function and the water conditioning effect will subside. You will notice that tenacious scale begins to form on the kettle element and shower head again. It's now time to replace the Electrolytic Scale Reducer with a new unit.