



Scale Block - Whole House Scale Inhibitors



What Is Scale Block?

Scale Block is a scale inhibiting water treatment technology designed to protect plumbing components, pipes, fixtures, valves, fittings, hot tanks etc. from the effects typically caused by limescale. Scale Block is an alternative to traditional water softening, it works by transforming dissolved hardness molecules into harmless, inactive microscopic crystals. The crystals remain suspended in the water and float freely through pipework, without reacting and forming limescale.

How Is It Different From A Water Softener?

Scale Block is specially designed to convert the dissolved primary hardness mineral (calcium carbonate) into relatively insoluble microscopic crystals so that it cannot cause harm downstream. A water softener uses ion exchange to remove calcium and magnesium from water while replacing them with sodium ions. A water softener requires a valve, drain and brine regeneration while Scale Block requires none of these.

Does Scale Block Remove Minerals From The Water?

No, Scale Block does not add or remove any minerals. So you can still enjoy the benefits of drinking mineral rich water without the headache of limescale damage in the home.

Why Is Scale Block More Eco-Friendly Than A Water Softener?

No electricity is required, no salt is required, no waste water is produced and the water retains all of its natural healthy minerals.

Does The Media Need Replacing?

In point of use models like the Single Appliance Scale Block the cartridge should be replaced annually. In point of entry systems (Whole House Scale Block) the cartridge lasts up to three years before it needs replacing.



Scale Block – Proving It Works

At Ultra Soft we like to test our products, so that we can be sure we are selling high quality water treatment solutions that really work.

Test Conditions

For the purposes of this test brand new kitchen boilers (urns) were purchased. We then heated (in batches) 500L of untreated hard water, followed by 500L of softened water and finally 500L of water treated with the Scale Block system.

To determine the amount of scale produced in the boiler in each test, the element was weighed before any tests were carried out and after each test. We also conducted a visual inspection of each element before and after each test.

| Test Type | Element Weight Increase (Limescale) | Observations |
|---|-------------------------------------|---|
| Hard Water (Untreated) | 1.55g/m ³ | Clear scale formation on element, supported by increase in element weight |
| Softened Water (Ion Exchange Water Softener) | 0 | No increase in weight or discolouration on element or in tank |
| Water Treated With Scale Block | 0 | No increase in weight or discolouration on element or in tank |

Findings

Scale Block systems are just as effective at scale prevention as traditional ion exchange water softeners. Both of these technologies offer 100% better results than leaving hard water untreated as shown in the test findings.