

Product facts

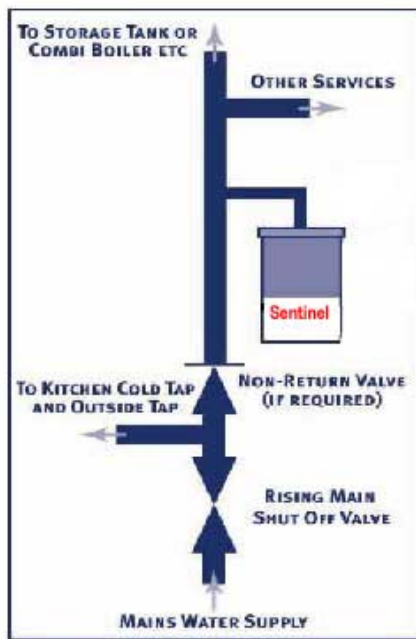


Sentinel Combiguard Scale Inhibitor

Scale Prevention for Domestic Mains Water

Introduction

The Sentinel Combiguard Scale Inhibitor is designed to prevent scale build up in domestic potable water systems caused by hard water. It works by proportionally blending a tiny amount of food-grade polyphosphate into the water.



The Sentinel Combiguard maintains the hardness salts in solution which prevents them from forming scale deposits in pipes, storage tanks, cylinders, etc. There are two sizes of cartridge – 15 mm and 22 mm. Sentinel Combiguard can also be used in areas supplied with soft water as a corrosion inhibitor.

Important

To ensure safe, on-going scale protection, the cartridge must be replaced yearly or sooner if the annual usage of water exceeds 120,000 litres.

Location

Sentinel Combiguard Scale Inhibitor is a food grade product and is approved by the Water Regulations Advisory Scheme (WRAS) for use on potable water pipes. Water treated with Combiguard is perfectly safe to drink.

Sentinel Combiguard can be simply installed into any angle copper pipe. There must be a minimum of 450 mm of pipe between the outlet of the Sentinel Combiguard and the inlet of a boiler/heat source. The cartridge must always be in the vertical position. Adapters are available to join to other types of tubing. If in doubt consult your supplier. The water flow must be in the direction of the arrow embossed on the body of the tee piece.

A wall bracket plate is built in and should be used where pipe work will not adequately support the unit.

Operating Parameters

Maximum Working Pressure	10 Bar
Maximum Inlet Water Temperature	30°C
Maximum Ambient Temperature	40°C
Maximum Flow Rates (15mm unit)	30 ltrs/min
Maximum Flow Rates (22mm unit)	54 ltrs/min
Av. Litres treated /cartridge	120,000
Maximum treated water temp	95°C



Procedure

Choose the location of the unit, turn off the water and drain down. Cut out the section of pipe ensuring that swarf or debris does not enter the system.

Insert the tee piece and tighten the compression nuts. Ensure that the two “O” Rings (see diagram on panel) are in position. Tighten the locking nut ensuring that the cartridge remains in the vertical position.

If the pipework will not support the unit, screw the supplied back plate to a supporting surface.

Important

New system installations are particularly prone to fouling with foreign matter. It is essential that any foreign matter such as swarf, wire wool, flux or debris is flushed clear of the system prior to connecting the control head and cartridge.

A 20 mm BSP brass cap (available at good hardware and plumbing retailers) can be tightened onto the 20 mm centre thread of the tee piece to assist in flushing the system. After flushing, reconnect the control head and cartridge. Ensure that the cartridge is fully held in the bayonet holder and that the cartridge-locking pin is screwed down.

Turn on the water and test for any leaks. Set the cartridge change indicator ring to the appropriate month.

Check for Safe Installation and Operation

1. Read the installation information carefully and follow all the instructions.

2. Check all local plumbing codes and comply with their rules.
3. Protect the Sentinel Combiguard from freezing temperatures. Water freezing in the unit may damage it.
4. Install the Sentinel Combiguard on a cold water pipe only.
5. Be sure all packaging is removed from the cartridge.
6. Check inlet and outlet are correctly piped in the direction of arrows.
7. Dial the month change indicator and complete the cartridge reminder form.

