



# hard water, easy solution.

## The ScaleStop Bypass Range

For greater ease and reduced costs of both installation and servicing, We offer an integral 3 way valve in head option in our range of cartridge systems. The valve has 3 positions which are easily adjusted between Filter - Off - Bypass positions with a single turn of the black valve control using the key provided.

The NSS bypass range use high performance TAC scale protection technology providing the highest level of protection against lime scale available. ScaleStop TAC has drinking water certifications NSF/ANSI 61 - BS 6920

The housings are manufactured in Europe to ISO 9001:2008 standards, they are NSF 42 certified and comply with all EU regulations for drinking water under CE 764/2008. The cartridges are also NSF 42.

Scale Stop TAC media has an efficiency rating of 99.6% at 180 ppm CaCO3 under the German DVGW-W512 testing protocol (twice as efficient as electro/magnetic). Cartridge changes are recommended after 1 year in food services applications, and after 2 years in domestic applications.

Scale Stop TAC has the highest efficiency rating of any cartridge system currently on the market and a much longer life in service, compared to ion exchange resin or polyphosphate.



### The Bypass range is available as:

Size	Flow Rate	Model
10 inch standard	4 lpm	NSS-110
10 inch BB	10 lpm (*12 lpm)	NSS-110B
20 inch standard	10 lpm (*12 lpm)	NSS-120
20 inch BB	16 lpm (*20 lpm)	NSS-120B
Inlet/Outlet connection	3/4" ~ 1" ~ BSP	
Maximum Pressure	6 Bar (90 psi)	

Flow rates recommended are for continuous flow 24/7. Flow rates with \* are for intermittent flow (on and off) found in typical commercial or domestic applications. Higher flow rates can be achieved when used with a single dedicated appliance...please ask for information.





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# The Ultimate Scale Protection for Boilers & Water Heaters

## ● Maintains Efficiency

Maintains maximum output capabilities and efficiency of all types of instant water heaters and boilers, tank water heaters and downstream plumbing components, valves and solenoids.

## The Most Efficient Available...

Why install a high efficiency boiler or water heater and use a low efficiency device to protect it? In independent evaluations ScaleStop had double the efficiency of electro/magnetic systems. Efficient scale control means energy efficient water heating.

## ● Saves Energy

Keeping boilers free of scale maintains efficiency, saves energy and keeps costs down. Scale build up will eventually cause failures, but before that happens, it's insulating effect on heat exchangers and heating elements significantly reduces heat transfer efficiency needing more energy to reach temperature.

## Temperature Control...

Reduced heat transfer is one issue, but energy is also wasted when heat sensors are coated with limescale. The insulating effect prevents the sensor from accurately measuring water temperature and gives false low readings. The boiler "thinks" the water is not hot enough (even though it actually is) and keeps running, when an accurate sensor reading would shut it down.

## ● Low Maintenance

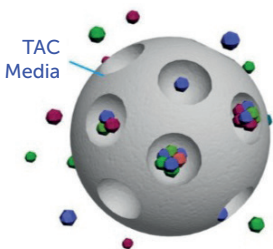
Virtually maintenance free. No topping up. Easy cartridge replacement. Extends life of heating system components. Reverses existing scale problems.

## Features

- ScaleStop needs no salt or chemicals to add or maintain & no discharge.
- Compact design allows for installation in tight areas.
- Economical and efficient. Very low maintenance.
- Retains beneficial minerals in water and produces no waste water.

## ● Easy Installation

Only IN and OUT connections. No electrical connection and no secondary plumbing.



## How does ScaleStop Work?

Microscopic CaCO<sub>3</sub> crystals form on nucleation points.

Formed crystals breakaway and travel harmlessly through the water system preventing the formation of limescale deposits.

As incoming water passes through the TAC media, dissolved calcium and magnesium ions are converted into harmless microscopic CaCO<sub>3</sub> crystals which do not form as limescale as they travel through the water system.

**SALT FREE  
SCALE PROTECTION**

**BS6920  
CERTIFIED**



**SCALESTOP  
ACHIEVED A  
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EFFICIENCY RATING  
IN INDEPENDENT  
SCALE PREVENTION  
EVALUATIONS UNDER  
THE GERMAN DVGW  
TESTING PROTOCOL.**

