

SCALEOUT XP

permanent limescale protection



Introducing Scaleout XP Monarch's ultimate in permanent limescale protection



- ✓ Removes existing scale
- ✓ Prevents new scale forming
- ✓ Whole house protection
- ✓ Compact and easy to install
- ✓ 15, 22, 28mm supplies
- ✓ UV resistant finish
- ✓ Environmentally friendly



WATER HARDNESS - THE ORIGIN

As rain falls to earth, it dissolves the carbon dioxide within the atmosphere. This carbon dioxide (CO₂) enriched water passes through many different layers of soil, rock, stones etc and absorbs calcium, magnesium and many other minerals to become 'hard' water.

It is the 'hard' water within over 60% of the UK's water supplies that causes so much trouble as scale within peoples' water systems.

Limescale increases energy bills and cleaning costs, and leads to damage to heat exchangers!



Comparing the Monarch Scaleout XP with a Monarch water softener:

A Monarch water softener would enjoy a 5 star approval rating, as they produce every possible soft water benefit.

However, Monarch recognises that there is a sector of the public who are simply looking for protection against the damage caused by hard water scale.

The Scaleout XP range is perfect for those who are seeking an alternative solution to hard water problems.

The Monarch Scaleout XP offers extensive protection against limescale 24 hours a day, 7 days a week. It is one of the most significant advancements in scale prevention and removal in over 100 years!

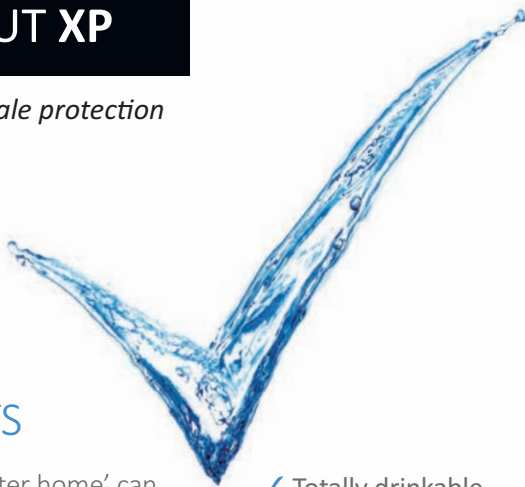
Permanent limescale protection

Every household in the UK has a form of stored water, be it tanks in the roof, the heat exchanger in your combi-boiler or an unvented/pressurised system. Other limescale control devices (LCDs) offer a temporary relief to the effects of hard water, lasting only a few hours.

Once water has passed through the Scaleout XP it will not revert back to scale forming water again. The Monarch Scaleout XP is the only limescale control device that gives permanent protection to your water system for both scale prevention and removal too.

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LOWER COSTS

The average 'hard water home' can spend between £200 & £240 a year to overcome the effects of hard water. The harder the water, the more cleaning agents and laundry detergents are required. Appliances' life expectancy is significantly reduced. The life expectancy of a boiler's heat exchanger is reduced by up to 80% with a hard water supply!

A Monarch Scaleout XP will immediately target your existing scale, returning your boiler and appliances to maximum efficiency and lower running costs.

Additionally, unnecessary scale related costs for the repair and maintenance of appliances can be prevented. Remember, with a scaled boiler, you have to heat the scale before you can heat the water. Just 2mm of scale will increase your hot water bills by 12%. 3mm and it rises to nearly 25%!

- ✓ Totally drinkable
- ✓ No electricity required
- ✓ Low maintenance
- ✓ Reduces your carbon footprint
- ✓ Significantly reduces repair costs due to scale damage
- ✓ Targets existing scale
- ✓ Prevents new hard scale forming
- ✓ Easy to install - full installation kit provided
- ✓ Compact - from only 525mm high
- ✓ pH stability - suitable for all metals
- ✓ Food grade materials throughout
- ✓ Suitable for 'whole house' protection
- ✓ Reduces hot water bills by 12-25%
- ✓ Can help improve certain skin conditions*

*Anecdotal evidence suggests that CO₂ enriched water can in some circumstances help improve certain skin conditions¹



FEATURES & BENEFITS

PROTECTED APPLIANCES

Times when your washing machine / dishwashers' performance is affected by hard scale lie in the past.

In future, with Scaleout XP water, your appliances will no longer have an unsightly hard scale residue.

You will also notice a marked improvement to their efficiency.



PEACE OF MIND

You can have improved peace of mind knowing that with Scaleout XP you have...

- ✓ Lower hot water bills
- ✓ Lower household bills
- ✓ An efficient boiler
- ✓ Protected appliances
- ✓ Drinking water rich in vital minerals
- ✓ Permanent whole house protection



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MODEL SCALEOUT XP

How it works

Water contains many different types of hardness ions that cause scale. Monarch's CBT resin is the only one that treats both Cations and Anions in the water.

The scale causing ions (dissolved limescale) pass through a bed of food grade ceramic beads within the unit, and are transformed into non-scale causing crystals. The crystals attach themselves to the beads. When they reach a certain size, they release themselves from the beads back into the water, where they pass through the post filter.

As a result of this physical change (permanent), scale no longer has the possibility of forming on surfaces including heating coils and elements, fittings, or the inside of pipes etc.



Ceramic Beads (CBT)

The water becomes both non-scale forming and also descaling, offering many benefits to the homeowner in its performance.

Crystals, a by-product of Scaleout XP's operation, will be reduced by the post filter. However in areas with high levels of water hardness, they may sometimes show themselves after water has evaporated. We recommend this harmless white residue is simply wiped away before it is allowed to accumulate.

Additionally, Monarch's unique CBT ensures pH stability and corrosion control in all types of water. It is the only one available to give this guarantee.

Suitable for 15, 22 and 28mm supplies

Pearlescent UV finish

Robust design with CBT



Post Filter

HOW IT WORKS

ADDITIONAL INFORMATION

The beads have a life expectancy of 3 years as determined by the cleanliness of the incoming water supply (not water hardness).

Replacement packs can be supplied for easy DIY changing, or alternatively Monarch can offer a full exchange service.

All models recommended for use on mains water supplies only.

All SXP models incorporate a post filter. The post filter has a low cost internal cartridge that is to be changed annually.

MODEL SELECTION GUIDE SPECIFICATION

Min – Max Operating water pressure	1.5 - 5 bar
Min – Max Operating water temperature	4 - 50°C
pH	6.5 - 8.5
Max Iron content	0.3 mg/l
Max Manganese content	0.05 mg/l
Max Copper content	0.3 mg/l

APPROVALS AND COMPLIANCES

NSF/ANSI- 61: Drinking Water System Components

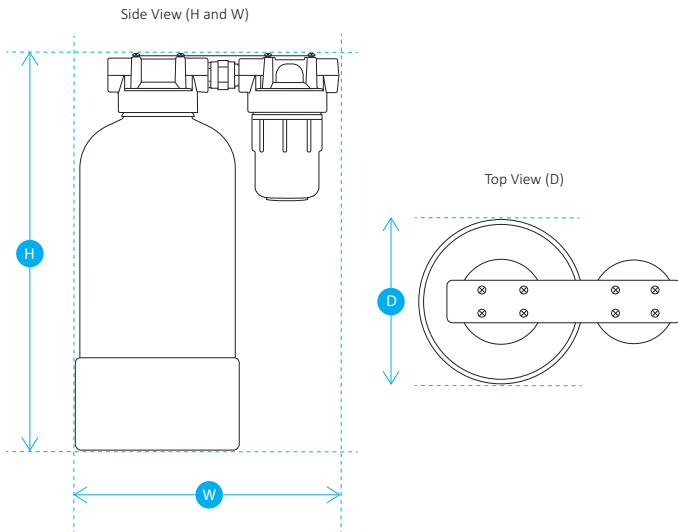
BS6920 Material Compatibility

ACS Certified

TECHNICAL SPECIFICATIONS

Applications	Rec Model up to 500 ppm	Max rec. Flow (lpm)	Standard Connections	1" Upgrade Available	Dimension D x H x W (mm)	Post Filter Ref.
15mm supplies	SXP15	30	¾" MBSP	-	195 x 525 x 450	SXPF5
22mm supplies	SXP22	45	¾" MBSP	-	220 x 525 x 450	SXPF5
28mm supplies	SXP28	60	1" MBSP	Standard	220 x 660 x 450	SXPF10
Light Commercial	SXPLC	75	¾" MBSP	Yes	270 x 1110 x 480	SXPF10

Pressure drops at maximum flow rates: SXP15 at 0.3 bar. SXP22/28 at 0.4 bar. SXPLC at 0.9 bar.
 For extreme water hardness over 500ppm please contact Monarch Water for further advice.
 All dimensions include connected hoses.



¹ references

1998 study into 'Positive effects of topically applied CO₂ impregnated water' by M Bock & H.J. Schwanitz, Dept of Dermatology, University of Osnabruck, Germany.

2004 study into 'Effects of CO₂ enriched water on barrier recovery' by M Boch, N.Y. Schurer and H.J. Schwanitz, Dept of Dermatology, University of Osnabruck, Germany.

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