



COMPARISON OF

Halcyan Water Conditioners with Salt Softeners

2018



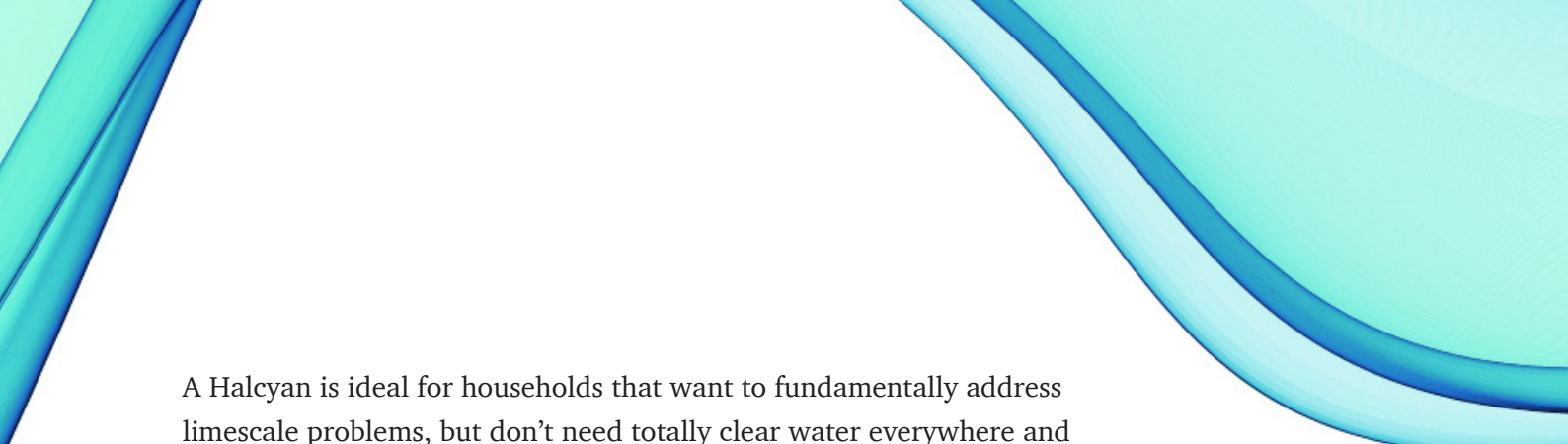
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So let's look at the differences between a salt softening system and a Halcyan water conditioner, in regard to how they work and the results they deliver.

Salt softeners operate on the principal that the '**salt**' or resin in their reservoir attract the minerals in the water which attach to the salt/resin and these molecules are exchanged in the treated water with the sodium molecules. The unit will purge its salt/resin of these mineral molecules on a regular basis when it regenerates, sending them down the drain. In this way, few minerals remain present in the water so there are fewer mineral molecules to create layers of scale. Whilst this is an effective solution it has a range of negative side effects which we'll touch on later.

Halcyan water conditioners are not softeners, which means that they don't use any chemicals or salts in exchange for the minerals in the water. Instead they seek to tamper with the water as little as possible but simply alter the structure of the minerals, by bringing them in repeated contact with the alloy core inside the stainless steel housing. This change in shape of the minerals changes their properties, or behaviour, just enough that they no longer have the ability to precipitate (**chemically bond**) to surfaces. Instead the minerals stay in solution and pass through the system without adhering. As such, any conditioner or inhibitor does not create 'soft' water but does create the effects of '**softened**' water.

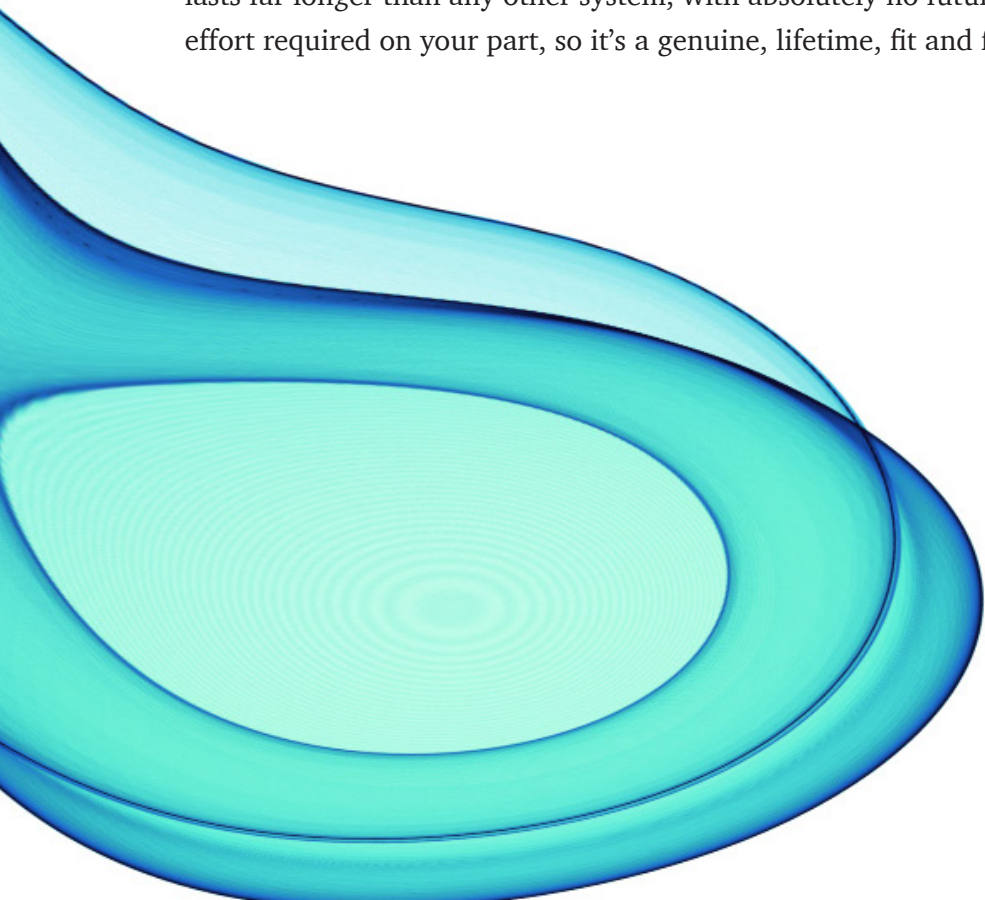


A Halcyan is ideal for households that want to fundamentally address limescale problems, but don't need totally clear water everywhere and equally don't want the hassle of ongoing maintenance, costs and environmental impacts.

Salt softeners are good where there is zero tolerance for any visible residue or there are additional reasons for removing all minerals from the water.

The Halcyan provides excellent results which make cleaning easier, keeps equipment in great condition (**especially as everything you can't see which is in constant contact with treated water, inside your system, is being permanently protected with no risk of evaporation**) and often provides the luxury softer water benefits.

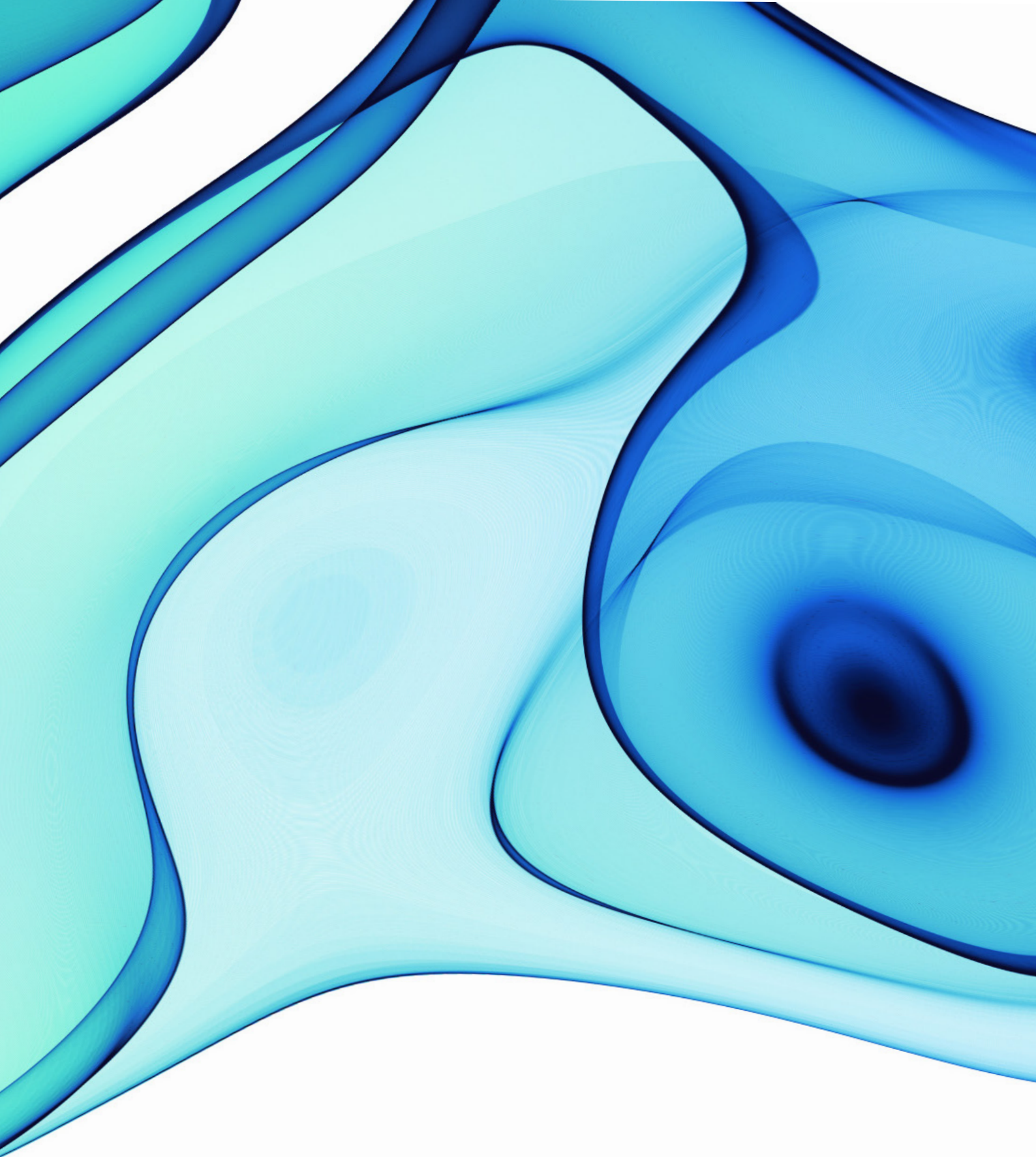
Halcyan's performance is there with the very best options, and it simply lasts far longer than any other system, with absolutely no future costs or effort required on your part, so it's a genuine, lifetime, fit and forget system.



Halcyan Water Conditioners with Salt Softeners

	Feature	Halcyan Water Conditioner	Salt/Resin Softener
What does it cost	New limescale	Prevented	Prevented
	Existing limescale	Removed over a period of time	Removed over a period of time
How does it work	Treatment Method	Solid state unique alloy core	Salt/resin beads in reservoir
	Water Quality/contents	Unchanged, all minerals still in the water	Minerals removed, salt substituted for the minerals
	Calcium carbonate (limescale mineral)	Altered mineral structure = total change in molecules behaviour. Well behaved hard water supplied.	No minerals = no possibility of limescale. Soft water supplied.
What it needs	Water consumption	None	1/3 again of water provided to household is required for daily backwashing and is flushed down the drain
	Power requirement	None	240 V supply
	Space requirement	Inline fitting: allow 200/250mm of pipe (post stop tap) for the unit and connectors. No cupboard space sacrificed.	Undercounter unit = half a cupboard required. Routing for drinking water pipework and waste water pipework. Plus space for storing salts.
	Installation time	Quick inline installation - usually 1 hour, more if plumbing is complex or inaccessible.	Half day minimum fitting. Connection to mains, plus additional pipework for drinking water and waste pipes for backwash effluent.
	External maintenance	No servicing	Annual servicing recommended
	Ongoing maintenance	No salts or chemicals required. Nothing to monitor.	Monitoring of levels and topping up with salts.

	Feature	Halcyan Water Conditioner	Salt/Resin Softener
What does it cost	Purchase costs	£770 inc VAT	£1200 inc VAT (approx. for equivalent system)
	Ongoing costs	None	Annual service (replacement parts) Bags or blocks of salt, the quantity depending on the hardness of the water.
What's protected	System longevity	30+ years	10-20 years
	Warranty	30 years plus 12 month results guarantee	Average 10 year warranty
	Whole House protection	Yes and good for the garden and car washing	Yes, not good for watering plants, good for car washing.
	Internal protection	All parts of internal systems are protected.	All parts of internal systems are protected. Some boiler manufacturers warranties void if supplied by salt softened water.
Benefits	Drinking water?	WRAS approved = drinking water safe	Separate drinking water supply recommended due to slight increase in salt content of the water
	Health properties	Minerals in hard water are proven to be good for human health	Minerals are removed. Low salt levels in water, not recommended for people with heart conditions and small babies
	Equipment	All equipment protected from hard scale, some soft scale may be visible but does not affect efficiency. Saves energy.	All equipment protected from hard scale. Saves energy
	Cleaning	Easy wipe down of surfaces as calcium is resting on the surfaces as non-bonded 'soft' scale	Easy clean as no trace of minerals
	Personal	Gentler on skin. Will be able to use less products. May see more foaming with detergents	Gentler on skin. Will be able to use less products. Will see more foaming with detergents



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