

# pH correction



Water in which the pH is below 7 is acidic. Acidic water accelerates corrosion in pipe work, causes staining of baths, sinks and other appliances and can leave a distinctive 'metallic' taste to the water.



## pH correction media

Water with a pH below 7 is acidic and has a corrosive nature. Acidic water corrodes the copper pipe-work and heating systems found in domestic and industrial plumbing systems. The copper dissolves out and is deposited on fixtures and fittings leaving unsightly green stains. Raising the pH will neutralise the water stopping the corrosivity, removing the metallic taste and can also reduce any iron or manganese contamination.

The simplest way to raise the pH of water is to pass the water through a vessel containing slowly dissolving calcium and magnesium salts. These salts slowly dissolve into the water 're-mineralising' the water and naturally raising the pH. The water can be simply passed through the media through an in/out head or through an automatic backwashing filter head. The backwashing head has the advantage of remixing the media and also removing any debris or iron or manganese which may have been oxidised out of solution as the pH increases.

There are vessel dome holes options in which the pH media can be topped up without having to take off the valve.

### Juaperle

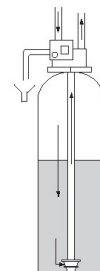
Juraperle is a granular media made up of 99.4% calcium carbonate. It has a superior performance to limestone due to its micro-crystalline structure. It dissolves very slowly, is free from soluble constituents and has a low silica content. Juraperle is consumed and from time to time new media should be added.

### Corrosex

Corrosex is a highly reactive magnesium oxide salt and is used most effectively where the pH correction is substantial or the flow rate is high. In reality for a pH of less than 6 a 25% Corrosex, 75% Juraperle mix is ideal.

## How does it work?

Water flows into the valve at the top, down through the media and then up through the 'riser' tube in the middle of the vessel. As the water travels through the media the calcium and magnesium salts slowly dissolve into the water raising the pH. Any iron or manganese contaminants in the water will also drop out of solution and are trapped in the vessel. There are timer options that can be set to automatically self clean (backwash) and wash away any of the accumulated iron and manganese.



## pH correction unit with auto back- washing filter valve

Kit Number	20.0509	20.0510	20.0501	20.0502	20.0503	20.0504	20.0505	20.0506	20.0507	20.0508
Vessel size	<b>C1054</b>	<b>C1248</b>	<b>C1354</b>	<b>C1465</b>	<b>C1665</b>	<b>C1865</b>	<b>C2160</b>	<b>C2469</b>	<b>C3072</b>	<b>C3672</b>
Valve Type	263-740	263-740	263-740	263-740	273-742	273-742	Mag 942	Mag 942	Mag 942	Mag 942
Service flow rate - m3/hr	0.7	1.1	1.3	1.5	1.9	2.4	3.3	4.3	6.7	9.6
Backwash flowrate m3/hr	1.6	2.0	2.3	2.8	3.4	4.6	6.8	9.0	11.4	17.1
Inlet & outlet connections	1"	1"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Drain connection	3/4" hose con.	3/4" hose con.	3/4" hose con.	3/4" hose con.	1" hose con	1" hose con	1 1/2"	1 1/2"	1 1/2"	1 1/2"

## Dome hole version – for easy refilling

Kit Number	20.0511	20.0512
Vessel size	<b>C1054</b>	<b>C1354</b>



All units contain Juraperle. For waters with a pH of less than 6 a 25% mix of Corrosex is added. Please specify at time of order.

PROSEP FILTER SYSTEMS LTD  
Unit G19  
River Bank Way  
Lowfields Business Park  
Elland  
West Yorkshire  
HX5 9DN

**Tel: 01422 377367**

**Fax: 01422 377369**

Email: [enquiries@prosep.co.uk](mailto:enquiries@prosep.co.uk)

[www.prosep.co.uk](http://www.prosep.co.uk)

**Map and Directions to Prosep Filters Limited**



Leave M62 at Junction 24.

At roundabout adjacent to Cedar Court Hotel take 2nd exit onto dual carriageway (A629), signposted Halifax.

Take 1st exit slip road.

At roundabout at end of sliproad, take 3rd exit off.

This is the entrance to Lowfields Business Park.

Proceed straight over 1st roundabout.

At next roundabout take 2nd exit onto River Bank Way - Prosep Filters can be found on the left after the S-bend.

[Link to Google Maps](#)