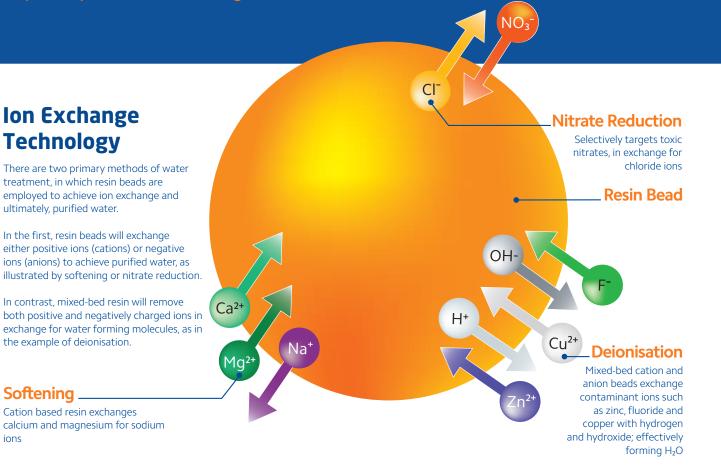
Water Treatment Cartridge Technology

The control of specific dissolved contaminants is essential in a range of applications, from manufacturing make-up water to point of use. Fileder has a variety of technologies which together protect processes, equipment and improve personal wellbeing.



Water Treatment Solutions

Softening Resin has been developed to reduce depositforming minerals, such as calcium and magnesium, protecting varied equipment including steam ovens, commercial boilers and reverse osmosis systems. Deionisation (DI) is the process typically employed as the final polishing stage in a water treatment system. DI resin reduces dissolved ions, thus creating a source of pure deionised water suitable pharmaceutical, for printed circuit board and other critical

applications. Heavy Metals can have harmful effects on health as well as interfering with sensitive manufacturing processes. Heavy metal reduction resin specifically targets these contaminants, effectively reducing levels to meet drinking water standards. Nitrate Removal is essential in rural or agricultural areas, and considered a serious health problem for infants and the elderly. The selective anion resin reduces nitrate levels by exchanging them for harmless chloride ions, meeting drinking water standards. Iron Reduction can be applied to drinking water applications. The proprietary media used specifically targets dissolved iron to improve taste and prevent orange-brown stains in sinks, toilets and other plumbing fixtures. Scale Inhibiting crystals are an alternative solution to ionexchange treatment, preventing hardness forming ions from precipitating and the build-up of deposits on sanitary ware, food service equipment and drink vending machines.

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Fileder sells over **1,000 tons** of resin per annum

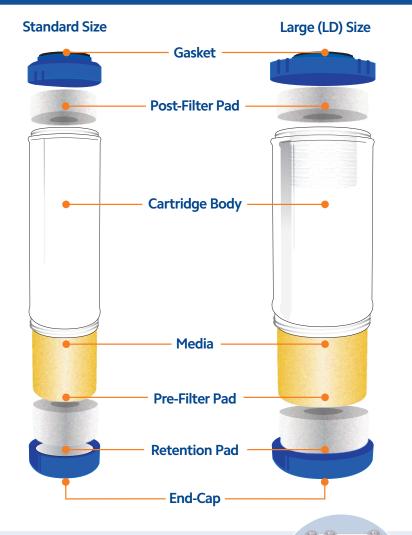
capable of treating more than

1 billion litres of water.

SPECTRUM Resin Cartridge Construction

The range of SPECTRUM water treatment cartridges use a specially designed shell, which both integrates the necessary pre-filtration and maximises fluid distribution through the resin bed by using longitudinal flow to increase contact time.





Flexible Configurations

Designed predominantly to be used within plastic filter housings, water treatment cartridges can be combined with SPECTRUM EFHS housing

systems to provide a comprehensive solution to varying water challenges. Options range from single to triple housing systems and size options from 10" regular to 20"LD. When using colour change SRDI-IND cartridges, SPECTRUM clear plastic housings (EFH-SC) should be used.

Acidic Water Neutralising

SPECTRUM

pH Correction SRCA

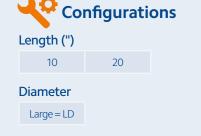
Slowly dissolving on contact with acidic water, the SRCA helps to reduce the potential leaching of copper, lead and other metals found in typical plumbing systems. Producing pH neutral water, the SRCA ensures effective pH control for post RO permeate treatment, private water supplies and general remineralisation.

Key Features

- Effectively neutralises acidic feed waters
- Uniform media ensures maximum contact and even distribution
- Up-flow flow pattern agitates media, keeping the bed free from contaminant

Typical Applications

- Post RO permeate
- Borehole water
- Remineralisation



Media Type

Calcium Carbonate (CaCO₃) 95-97% Magnesium Carbonate (MgCO₃) 3-5%

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Cartridge Capacity

Free CO ₂ (mg/l)	Volume of Treated Water (I)	
Cartridge Length	10LD	20LD
10	100,000	240,000
30	33,500	80,500
50	20,000	48,000



Operating Temperature 4-38°C

Max. Operating Pressure 6.9 bar

Max. Operating Pressure Differential 1.0 bar @ 21°C

Feedwater pH Range 5-6.5

Part Number

Code	Length
SRCA -	10LD
SRCA	20LD

e.g. SRCA-10LD