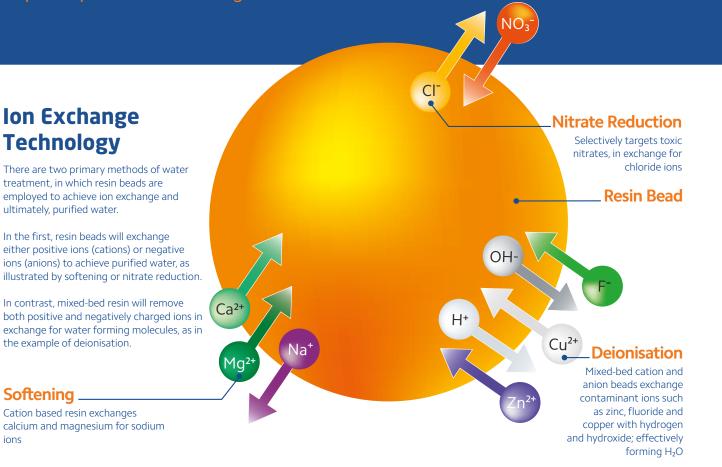
### Water Treatment Cartridge Technology

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.

ions

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

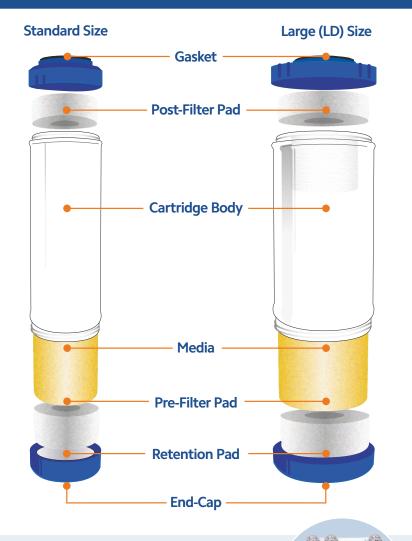
capable of treating more than

# **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.

#### **Deionised Water Production**

# SPECTRUM

### Ion-X Deionising SRDI

The SRDI excels in the production of high purity water with average conductivity levels of  $0.1\mu$ S/cm. The SRDI can be used in conjunction with a sediment pre-filter to deliver small batches of DI water straight from the tap. Where demand increases, the SRDI can be situated post-RO for the polishing of permeate water.

# Key Features

- Produces high purity, silica free water for low volume applications fed directly from mains
- Cost effective solution in batch pure water processes post RO

#### Typical Applications

- Glass wash
- Dental
- Autoclave
- Post RO polishing

# Configurations

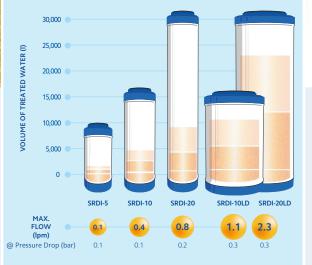
Length (") 5 10 20





#### Media Type

55% Strong acid cation gel-type (H<sup>+</sup> Form) 45% Strong base anion gel-type (OH-Form)



#### **Cartridge Capacity**

Total Dissolved Solids (mg/l)	Volume of Treated Water (I)				
Cartridge Length	5	10	20	10LD	20LD
RO Permeate, 5mg/l	1,200	4,800	9,400	10,600	23,500
RO Permeate, 10mg/l	600	2,400	4,700	5,300	11,750
Mains Water, 300mg/l	20	80	160	180	400



Operating Temperature Range 4-45°C Max. Operating Pressure 5.5 bar Max. Operating Pressure Differential 1.0 bar

Part	Number	

Code	Length
SRDI -	5
	10
	20
	10LD
	20LD
e.g. SRDI-5	