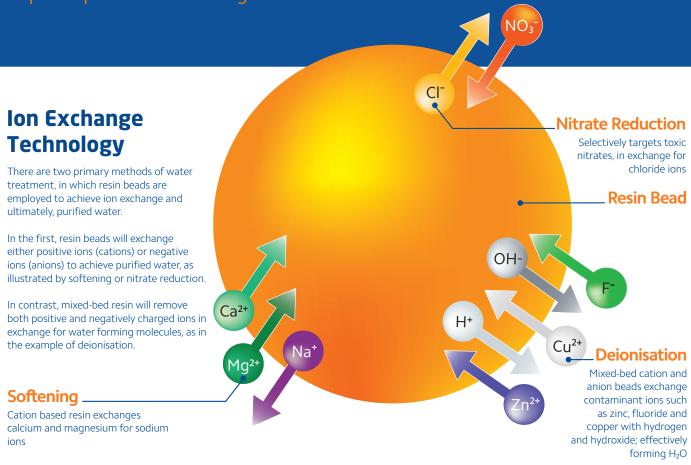
## **Water Treatment Cartridge Technology**

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, 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.



## 1,000 tons of resin per annum

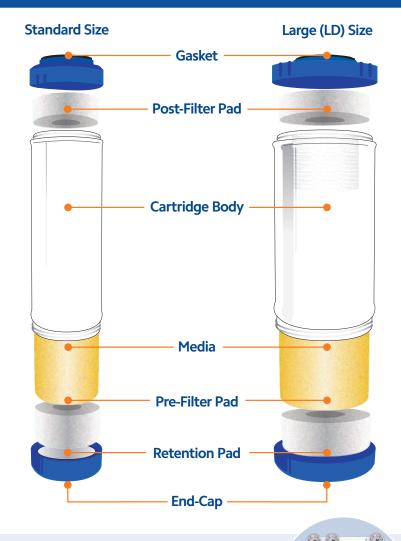
capable of treating more than

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

SPECTRUM clear plastic housings (EFH-SC) should be used.

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,



## **Water Treatment Cartridge Range**

Fileder's range of water treatment cartridges provide a simple solution to the complex process of reducing dissolved contaminants. With flow rates from 0.1 to 23 litres per minute across the range and intended for use in single round plastic housings, this range offers simple yet effective solutions to common water quality issues; including protecting equipment from hardness scaling, extending service life, enhancing the aesthetics of incoming water or removing harmful nitrates.



10,000

5,000

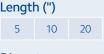
MAX. FLOW

@ Pressure Drop (bar)

# Ion-X DI Colour Change SRDI-IND

The SRDI-IND offers exactly the same performance as the SRDI with added benefit of colour change indication to highlight resin exhaustion. Used as a standalone system to produce small batches of pure water, the SRDI is also the perfect performance indicator when used post large volume pressure vessels.





 Provides water with a typical conductivity of 0.1µS/cm
Diameter
Regular



60% Strong acid cation gel-type (H+ Form) 40% Strong base anion gel-type (OH-Form)

Large = LD

# RO Permeate, 3 mg/l 1,200 4,800 9,400 10,800 RO Permeate, 10 mg/l 600 2,400 4,700 5,300 Mains Water, 300 mg/l 20 80 160 180

Total Dissolved Solids (mg/l)

Cartridge Length

**Cartridge Capacity** 

RDI-IND10LD SRDI-IND20LD

## Specification

Operating Temperature 4-45°C

Max. Operating Pressure 5.5 bar

Max. Operating Pressure Differential 1.0 bar @ 21°C



**Key Features** 

 Resin changes from blue to brown to indicate exhaustion

- Pharmaceutical
- Laboratory
- Dental
- Autoclave
- Post RO polishing

### Part Number

Code	Length
SRDI-IND	5
	10
	20
	10LD
	20LD

e.g. SRDI-IND-20