



Resin cartridges

Treating water using resin cartridges targets unwanted elements and removes or prevents them from causing process issues.

Some elements found in water cause issues in the application process, whereas others will directly affect the water system itself, for example:

- Ions such as calcium, magnesium and iron coat the surfaces they come into contact with, forming scale and causing discolouration, which damages pipework and stains equipment.
- Certain contaminants, including lead, mercury and other heavy metals, have been found to cause health issues, particularly to infants, and therefore nitrate should be controlled below the advised limits.
- The pH of water plays an important part in any process where low pH or acidic water leads to increased corrosion within a system.
- High TDS (Total Dissolved Solids) will cause streaks and spots on glass and windows.

There are different solutions for treating various elements in water, each using a different process to achieve the desired result.

Water treatment processes

Ion exchange – Attracts the targeted elements and releases selected ions into the water stream e.g. softening, nitrate removal, de-ionisation.

Catalysis – Reacts with the targeted elements to change their physical properties e.g. treatment of dissolved iron to precipitate from solution.

Dosing – Slowly dissolves into the filtrate to continually feed the required treatment.

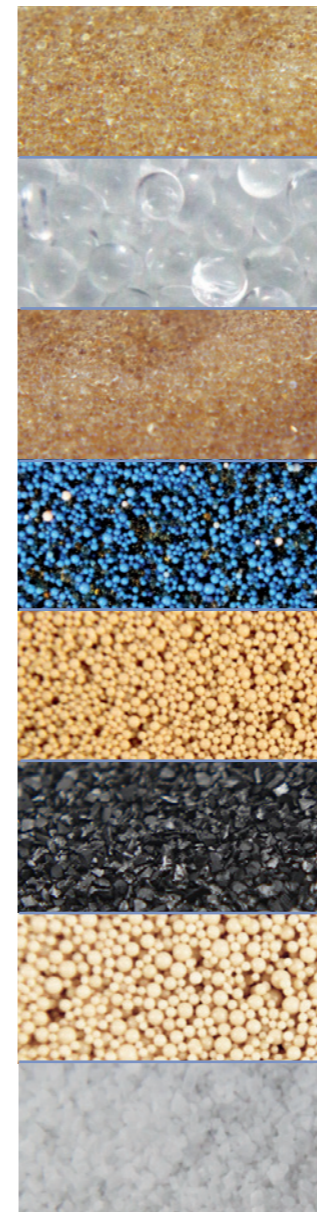
Refillable or disposable resin cartridges, including filtration to prevent resin release

37°C

5 10 20

Standard = Blank Large Diameter = BB

Product information						Notes
Product Code	Capacity CaCO ₃ (mg TDS)	Flow (lpm)	Length (")	Box Quantity	Weight (kg)	
SRSO-10	48,000	1.9	10	6	5	
SRSO-20	97,000	2.8	20	6	10	
SRSO-20BB	292,000	8.5	20	4	20	
PCC-106	-	4-6	6	24	5	
PCC-2-18	-	6-10	10	6	4	
PCC-1	-	4-19	10	6	5	



SRSO - Softening

- Bed of resin that reduces hardness by replacing calcium and magnesium ions with sodium ions in point-of-use applications.

PCC - Scale inhibiting

- FDA compliant hexametaphosphate crystals dissolve to dose water systems, coating calcium and magnesium ions and pipework to prevent scale and corrosion. Available in 10" cartridges or as a cartridge insert (PCC-106).

SRDI - Deionising

- Mixed bed of cation and anion resins attract all positive and negative ions to the beads and exchange for hydrogen and hydroxide ions, creating pure deionised water.

PRDI - Colour change deionising

- Same action as SRDI deionising resin with added feature of colour change within the resin to indicate cartridge life used and remaining. To be used in conjunction with clear housings.

SRNI - Nitrate removal

- Acts in a similar way to SRSO softening resin, targeting toxic Nitrate specifically and replacing with chloride ions. Used for creating potable water within national health limits.

RFFE - Iron removal

- The action of RFFE forces dissolved iron and manganese to drop out of the flow, holding these elements in the matrix to vastly improve taste and reduce staining of surfaces.

SRHM - Heavy metal removal

- This resin targets elements known as Heavy Metals such as lead, zinc, mercury, copper, chromium and removes them from the water, exchanging these ions for hydrogen.

SRCA - pH correction

- Used where water has a low pH meaning it is acidic and will attack pipework, components and equipment. These crystals dose the water with calcium to bring pH to a neutral level.

Product information						Notes
Product Code	Capacity CaCO ₃ (mg TDS)	Flow (lpm)	Length (")	Box Quantity	Weight (kg)	
SRDI-5	6,000	0.1	5	18	8	
SRDI-10	24,000	0.4	10	9	8	
SRDI-20	47,000	0.8	20	12	20	
SRDI-20BB	120,000	4.7	20	4	15	
PRDI-10	24,000	0.4	10	9	8	
PRDI-20	47,000	0.7	20	12	20	
SRNI-10	19,000	0.4	10	9	8	
SRNI-20	38,000	0.8	20	12	20	
SRNI-10BB	56,000	1	10	6	15	
SRNI-20BB	106,000	2.3	20	6	30	
RFFE10-BB	150,000	12	10	8	20	
RFFE20-BB	300,000	23	20	4	20	
SRHM-10	34,000	0.4	10	9	8	
SRHM-20	70,000	0.8	20	12	20	
SRHM-10BB	98,000	1	10	6	15	
SRHM-20BB	190,000	2.3	20	6	30	
SRCA-10BB	pH correction calcite cartridge	1.2	1.5	6	9	
SRCA-20BB	pH correction calcite cartridge	2.8	3.6	6	18	