

Conditioned Water Does Make A Difference...

NelsenWater Treatment Solution

Iron, tastes and odors, hydrogen sulfide (sulphur), manganese, acid water conditions, etc. all contribute to water quality problems. The modern and efficient Nelsen Water Treatment water filtration equipment described in this brochure eliminate many problem water conditions. Fully automatic, Nelsen Water Treatment water filters feature the very latest "state of the art" technology. The control valve for these systems available from Autotrol, Clack Corporation, or Fleck Controls is designed and engineered to give you years of reliable operation.

Filter Options

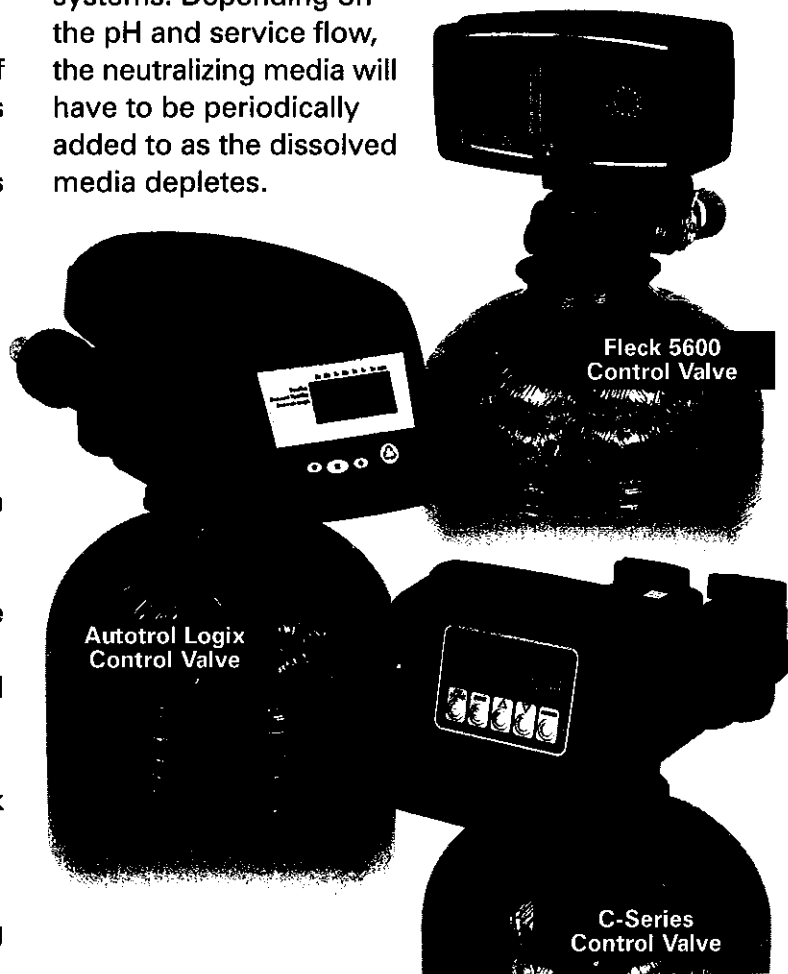
Nelsen Water Treatment Filters include media that is best suited for the application based on the water analysis.

Manganese Greensand is capable of removing iron, manganese and hydrogen sulfide from water through oxidation and filtration. Manganese and soluble iron are oxidized and precipitated by contact with higher oxides of manganese on the greensand granules. The hydrogen sulfide is eliminated by oxidation to sulfate and an insoluble precipitate. Precipitates are then filtered and removed by backwashing. When the oxidizing capacity power of the Manganese Greensand bed is exhausted, the bed has to be regenerated with a weak potassium permanganate ($KMnO_4$) solution thus restoring the oxidizing capacity of the bed.

Birm is an efficient and economical method of removing dissolved iron and manganese compounds where ample dissolved oxygen is present in the water.

Activated Carbon Filters are used to reduce objectionable tastes and odors, chlorine, organics, color and tannin from water. Activated Carbon requires only periodic backwashing to eliminate accumulated suspended matter and to regrade the filter bed.

Neutralizing Filters are used where low pH is a problem. Acidic water on contact with the neutralizing media will raise pH which reduces the potential leaching of copper, lead and other metals found in typical plumbing systems. Depending on the pH and service flow, the neutralizing media will have to be periodically added to as the dissolved media depletes.



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