

Iron Filtration Plant

Envirogen supply an extensive and comprehensive range of Iron Removal Plants for use across a variety of markets and applications.

Iron is a natural substance typically found in water. Filtration plants are used when a relatively high concentration of inorganic iron is present. They are similar in appearance and size to water softeners but contain beds of media that have oxidising capabilities.

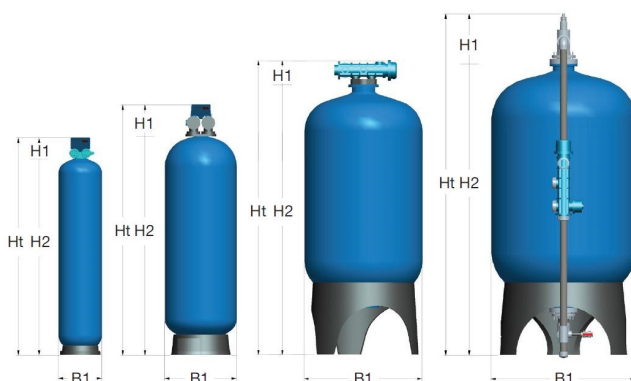


How does an Iron filtration plant work?

Cylinders are filled with filter media, which have mild oxidising properties. The media ranges from Manganese greensand, Birm, MTM, multi-media, sand and other materials. Iron - bearing water is passed through the bed, any soluble ferrous iron is converted into an insoluble ferric state and then filtered from the water.

Periodic backwashing is required to remove the iron precipitate from the bed and some media types require periodic regeneration to restore the oxidising capability. With those types of media this is achieved by passing a solution through the bed and then rinsing. The process is similar to the regeneration of water softeners.

Range of Iron Filtration Plant

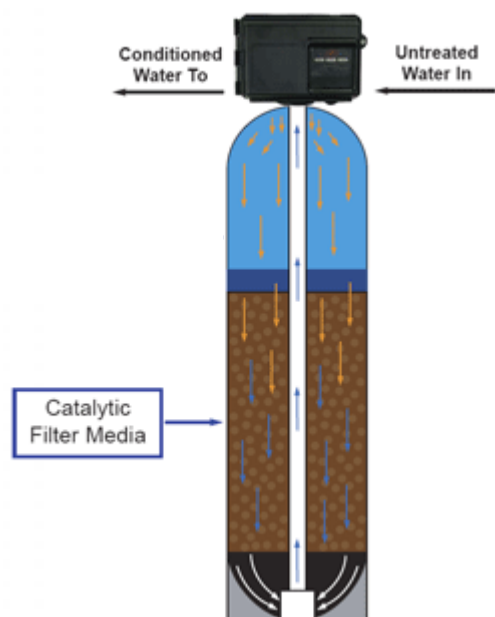


The standard Envirogen range of Iron Filtration vessels range in service flow rates from 0.9 m³/hr to 14.5m³/hr.

These units are easily scalable and as volumes increase multiple units can work together to delivery the required volume of water.

Custom designed units using large steel vessels accommodate much higher flows. These are easily available.

Process diagram



Benefits of Envirogen Iron Removal Solutions

- Proven effective technology
- Fully automated process
- Programmable regeneration time and day interval
- Easily scalable
- Consistent and high quality output
- Lower costs
- Flexible



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