

Remove iron and manganese without adding chemicals.



Birm® Filters For Iron and Manganese Reduction, Featuring The GE Autotrol 263 Filter Valve.

Advantages:

- Chemicals normally not required for contaminate removal.
- High efficiency of iron removal.
- Only periodic backwash required.

Physical Properties of Media:

- Color - Black
- Density - 44 lb./cu.ft. 9x35 Mesh
- Size - 0.59 mm
- Capacity - 5000 to 7000 ppm/cu.ft.

Conditions of Operation:

- No hydrogen sulfide present.
- Organic matter not to exceed 4.5 ppm as indicated by the oxygen consumed value.
- A dissolved oxygen content of at least 15% of the iron.
Example: (If Iron = 1 ppm, Dissolved Oxygen should be 0.15 ppm or more)
A Micronizer or air injector can be added to increase the oxygen content.
- A pH of 6.8 or higher. Note: pH correction can be accomplished by using a neutralizing filter or feeding soda ash.
- Service flow rate: 3.5-5 gpm/sq. ft. (Intermittent flows may be higher.)
- Backwash flow rate: 10-12 gpm/sq. ft.

Brief Description:

- Birm® is a granular filter media used for reduction of iron and/or manganese from water supplies.

Filter Controls:

- Autotrol 263 filter valve with 12-volt 740 Logix time
- Programmable days to regenerate.
- 3-cycle regeneration for minimum water usage.
- Durable 263 filter valve with lifetime parts warranty.

Model Number	Birm Cu.Ft.	Tank Size	Service Flow	Backwash Flow
263IF10	1.5	10x54	5.0	6.0
263IF12	1.8	12x48	6.0	8.0
263IF13	2.5	13x54	6.5	10.0

When water containing iron or manganese passes through the filter bed, the active insoluble catalyst which it possesses, causes the iron or manganese to precipitate in the form of the hydroxide. This is a flocculent material which is filtered out by the filter bed. Periodic backwash flushes out the accumulated iron or manganese and the filter bed is again ready to perform its function. The filter media is not consumed during the iron or manganese removal.