

# BIRM IRON FILTER SYSTEMS

## 2850 1.5" SERIES



Model 700 Filter Shown

### Standard Features:

- Time Clock Control
- 1 1/2" Female Inlet/Outlet Connections
- Fleck 2850 Lead-Free Brass Valve
- Motor-Driven Piston-Operated
- Fiberglass Resin Tank (s)
- Ports for Pressure Gauges & Sample Valves

**Birm Systems** provide an effective method of removing dissolved iron and manganese from water supplies. It performs best when there is a sufficient amount of dissolved oxygen in the feed water supply.

### Physical Properties

- Color: Black
- Mesh Size: 10 x 40
- Bulk Density: 40 - 45 lbs/cf

### Operating Considerations

- Feed Water pH Range: 6.8 – 9.0
- Free Chlorine: Less than 0.5 ppm
- Dissolved Oxygen must equal 15% of iron content.
- Alkalinity must be greater than 2x the combined sulfate and chloride concentration

### Custom Configurations Built to User Requirements

Systems can be built to fit a wide range of user applications  
ASME tanks available on request

## PRODUCT SPECIFICATIONS

Model Series	Media Qty Cubic Feet	Sq. Ft. Bed Area	Media Tank Dia. X Ht	Service Operating Conditions			Tank and Valve Dimension Diameter x Height
				Continuous Service Flow	PSI Drop	Max Drain Flow	
300	2.0	1.06	14" x 65"	5 gpm	2	7	14" x 72"
400	3.0	1.39	16" x 65"	7 gpm	3	10	16" x 72"
500	5.0	1.76	18" x 65"	9 gpm	4	20	18" x 72"
700	7.0	2.40	21" x 62"	12 gpm	5	25	21" x 72"

Service flow rate is 3.5 to 5 gpm/sq.ft. Intermittent flow rates and /or favorable local conditions may allow higher flow rates

### ADDITIONAL OPERATING INFORMATION

For use on potable water only.  
Not intended to be used to treat water that is micro biologically unsafe or of unknown quality.  
Installation must comply with all state and local codes.  
Tank dimensions are based on fiberglass only. Steel tanks dimensions will vary.  
Pressure drops are based on clean filter bed.  
Specifications subject to change without notice.

Operating Water Temperature Range  
Operating Ambient Temperature Range  
Operating Pressure Range  
Electrical Requirements  
Feedwater Turbidity

Max 100°  
Max 120°  
Max 125 psi  
110V-60Hz primary  
5.0 N.T.U. Max

Minimum 35°  
Minimum 35°  
Minimum 20 psi



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