

AUTOMATIC IRON FILTER SYSTEMS

IRON REMOVAL 2850 SERIES



Model 2850TBI700HL

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

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	
2850TBI300HL	2.0	1.06	14" x 65"	5 gpm	2	7	14" x 72"
2850TBI400HL	3.0	1.39	16" x 65"	7 gpm	3	10	16" x 72"
2850TBI500HL	5.0	1.76	18" x 65"	9 gpm	4	20	18" x 72"
2850TBI700HL	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
 Specifications are subject to change without notice.

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.
 psi
 Tank dimensions are based on fiberglass only. Steel tanks dimensions will vary.
 operating
 Pressure drops are based on clean filter bed.

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

Max 100°
 Max 120°
 Max 125 psi
 110V-60Hz primary

Minimum 35°
 Minimum 35°
 Minimum 20 psi
 24v-60hz
 5.0 N.T.U. Max
 1.0 mg/l Max
 >5 mg/l Consult Aqua Systems



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