

## Automatic Backwashing Screen Filter

### High Performance with Fewer Moving Parts

Rain Bird's Automatic Backwashing Screen Filter provides worry free high-flow rate filtered water. Powered by source line water pressure, the filter's patented backwashing valve system produces a reverse flow to flush the system of entrapped contaminants. During the brief backwashing cycle, a portion of the clean water produced by the system is diverted to the filter unit undergoing backwashing. This reverse flow of filtered water frees contaminants from the wedge-wire filter screens. Each filter canister is sequentially backwashed until the entire system is cleaned, allowing irrigation continue through the backwash cycle. Models are available as a filter unit only, or as a filter assembly including bypass plumbing and valves for fast and easy installation on site.

### Automatic Monitoring

This filtration system is automatically monitored either on elapsed time since the last backwashing or pressure differential. This dual monitoring offers the user the flexibility to assure that filter operation is maintained with high efficiency, low pressure drop and consistent high quality water production. Rain Bird automatic controls are available for A/C power, D/C power and solar power applications.

### Long-Lasting Construction

The Automatic Backwashing Screen Filter is built for years of durable, trouble-free service. The filter canisters are constructed of carbon steel, which is fusion epoxy lined as a standard feature. The carbon steel manifolds and the cast iron backwash valve are also fusion epoxy lined. The stainless steel filter screens are of a low maintenance design and require only periodic maintenance to maintain the filter element. In addition to the automatic backwashing cycle, the filter canisters and screens have no internal moving parts to wear out, break down or replace. And, the high strength stainless steel canisters are constructed with a 400 PSI burst strength. A patented backwash valve features stainless steel valve trim and a field replaceable polyurethane valve sealing element. The backwash valves also feature external lubrication fittings for easy field service.



Rain Bird's automatic dual-monitoring system triggers the backwashing cycle, which quickly clears contaminants from the filter screens and maintains peak operating efficiency

### Basic Specifications

- Available as filter only (no bypass plumbing) or as a complete assembly with bypass plumbing and valves for easy installation
- Heavy-duty, durable, wedge-wire screen filtration element.
- Flow rates from 250 to 4,000 GPM.
- Standard maximum operating pressure: 150 PSI (higher pressures optionally available).
- Standard, stainless steel wedgewire screens.
- Screen sizes available for 40, 80, 100, 150 or 200 mesh.
- Vertical configuration designed for limited space applications.
- Large screen area provides long runs between backwash cycles.
- Filtered, clean water backwashing automatically initiated by time or pressure differential.
- Flanged inlet and outlet standard. Grooved inlet and outlet configuration optionally available.
- Optional solar package and DC latching solenoid available. Solar package includes a solar panel, battery pack, metering system, wiring harness and enclosure box.
- No moving parts inside the filter canister to wear out.

## Automatic Backwashing Screen Filter Performance Data

Model Number	Maximum Flow US GPM	m <sup>3</sup> /Hour	Max Pressure (PSI)	Inlet / Outlet Flange Size (in)	Flush Line Size (in)
<b>Filter Only</b>					
BSF6-2-A	250	56.8	150	4	2
BSF8-2-A	500	113.6	150	6	2
BSF8-3-A	750	170.4	150	6	2
BSF10-2-A	1000	227.2	150	8	4
BSF10-3-A	1500	340.7	150	8	4
BSF10-4-A	2000	454.3	150	10	4
BSF10-5-A	2500	567.9	150	10	4
BSF10-6-A	3000	681.5	150	12	4
BSF10-7-A	3500	567.9	150	12	4
BSF10-8-A	4000	908.6	150	14	4
<b>Filter Assembly with Bypass Manifold</b>					
BSF6-2-B-A	250	56.8	150	4	2
BSF8-2-B-A	500	113.6	150	6	2
BSF8-3-B-A	750	170.4	150	6	2
BSF10-2-B-A	1000	227.2	150	8	4
BSF10-3-B-A	1500	340.7	150	8	4
BSF10-4-B-A	2000	454.3	150	10	4
BSF10-5-B-A	2500	567.9	150	10	4
BSF10-6-B-A	3000	681.5	150	12	4
BSF10-7-B-A	3500	567.9	150	12	4
BSF10-8-B-A	4000	908.6	150	14	4

Contact Rain Bird for filter selection assistance for applications with excessive debris loads (silt, organics, algae, etc.)

Contact Rain Bird for drawings or visit [www.rainbird.com](http://www.rainbird.com) to download.



Rain Bird's cast valves feature durable fusion epoxy lining, stainless steel trim and molded polyurethane seals



The stainless steel filter cartridge requires limited seasonal maintenance

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