

Sand Media Filter For the Most Challenging Source Water Conditions

Proper filtration and clean water are essential to the efficient operation of today's irrigation systems. Trash, algae, sand, silt and other solid contaminants in source water will lead to plugged nozzles, silt deposition in equipment and on the turf, inoperative valves, and a significant reduction in overall efficiency. Rain Bird filtration technology can resolve these problems in your system. Rain Bird's Sand Media Filters provide reliability, efficiency and long-term economy. Made in the USA, these filters are designed and manufactured to exacting standards, giving you many years of top performance.

Filter Tanks

Rain Bird filter tanks are designed to provide superior safety features. All closures have safety lids that will not pop off if over-pressurized. Rain Bird's 3/16" tank construction is also heavier than average, giving you extra protection against bursting from accidental over-pressurization or surge.

Automatic Valves

Rain Bird cast valves feature a fusion epoxy lining designed for years of trouble-free service. The valve shaft and seal retainers are noncorrosive stainless steel with durable, molded polyurethane seals. Also, the valves are made with Rain Bird's exclusive replaceable brass shaft guides and external grease fittings for easy on-site maintenance.

Stainless Steel Underdrain

Rain Bird's underdrain system features a lateral design of high strength, stainless steel wedgewire. It produces a pressure drop of only 4 PSI and will withstand collapse pressure in excess of 600 PSI. Unlike other manufacturers, Rain Bird does not use plastic underdrain parts or threaded fastener style underdrain assemblies because of limited durability.

Automatic Control

Automatic control makes Rain Bird your most cost-effective choice for your next filtration system. Rain Bird automation packages allow fully unattended operation. All Rain Bird controllers monitor system operation on both pressure differential and elapsed time. Units are available in A/C power, D/C power or solar power for remote application.



Rain Bird sand media filters will protect your irrigation system from solid contaminants including algae, sand and debris.

Fusion Bonded Epoxy Interiors Available

All Rain Bird Sand Media Filter systems are available with optional fusion-epoxy lining. This premium environmental coating system provides excellent protection against aggressive electrolysis and corrosion. The Rain Bird fusion powder coat system is applied to all interior surfaces of the filters and manifolds after sandblasting to white metal. The Rain Bird fusion bonded epoxy system is a true environmental coating providing years of protection for salts, chemicals and other materials found in aggressive water.

Filtration Process

- Uniform 14" media bed depth for optimum particle entrapment
- Filtration achieved through flow from inlet (top) manifold to outlet (bottom) manifold
- 2-stage inlet diffuser
- High strength, hydraulically balanced Type 304 stainless steel underdrains for thorough backwashing
- Low pressure drop and even flow dispersion

Backwashing Process

- Rain Bird underdrains require less water for backwashing and require backwashing less frequently
- Backwashing cleans one tank at a time, so you can continue to irrigate during the backwash cycle
- The system backwashes with clean filtered water

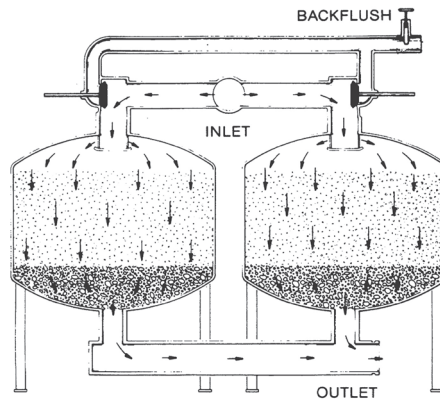
- Single valve operation, either manually, semi-automatically or automatically, assures proper backwashing efficiency and sequence
- Even media bed fluidization ensures total cleaning of the system, while producing a flat, uniform media bed after flushing

Rain Bird filtration technology provides reliability, efficiency and long-term economy.

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

Filtration Process

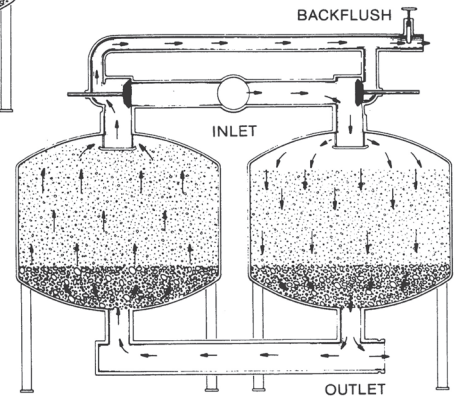
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Filtration Process

Backwashing Process

- Rain Bird underdrains require less water for backwashing and require backwashing less frequently
- Clears one tank at a time, so you can continue to irrigate during the backwash cycle
- The system backwashes with clean, filtered water
- Single valve operation, either manually, semiautomatically or automatically, assures proper backwashing efficiency and sequence
- Evenness of media bed fluidization ensures total cleaning of the system, while producing a flat, uniform media bed after flushing



Backwashing Process

Sand Media Filter Performance Data

Filter Model Number			No. of Tanks	Maximum Pressure (psi)	Irrigation Flow Ranges				Filtration Area (Ft. ²)	Media Requirement (100# Bags)	Backwash Flow Rate (U.S. GPM)
No ID / OD Fusion Bonded Epoxy Coat	ID only Fusion Bonded Epoxy Coat	ID & OD Fusion Bonded Epoxy Coat			Minimum Flow (U.S. GPM)	Maximum Flow (U.S. GPM)	Minimum Flow (m ³ /Hour)	Maximum Flow (m ³ /Hour)			
SM1816-2-M	SM1816-2I-M	SM1816-2B-M	2	150	60	13.6	88	20.0	3.5	4	25
SM2416-2-M	SM2416-2I-M	SM2416-2B-M	2	150	107	24.3	158	35.9	6.3	8	50
SM3016-2-M	SM3016-2I-M	SM3016-2B-M	2	125	170	38.6	250	56.8	10.0	10	80
SM3616-2-M	SM3616-2I-M	SM3616-2B-M	2	125	238	54.1	350	79.5	14.0	16	110
SM4816-2-M	SM4816-2I-M	SM4816-2B-M	2	125	425	96.5	625	142.0	25.0	26	190
SM4816-3-M	SM4816-3I-M	SM4816-3B-M	3	125	638	144.9	938	213.1	37.5	39	190
SM4816-4-M	SM4816-4I-M	SM4816-4B-M	4	125	850	193.1	1250	283.9	50.0	52	190
SM4816-5-M	SM4816-5I-M	SM4816-5B-M	5	125	1063	241.5	1563	355.0	62.5	65	190
SM4816-6-M	SM4816-6I-M	SM4816-6B-M	6	125	1275	289.6	1875	425.9	75.0	78	190
SM4816-7-M	SM4816-7I-M	SM4816-7B-M	7	125	1488	338.0	2188	497.0	87.5	91	190
SM4816-8-M	SM4816-8I-M	SM4816-8B-M	8	125	1700	386.2	2500	567.9	100.0	104	190
SM4816-9-M	SM4816-9I-M	SM4816-9B-M	9	125	1913	434.5	2813	639.0	112.5	117	190
SM4816-10-M	SM4816-10I-M	SM4816-10B-M	10	125	2125	482.7	3125	709.8	125.0	130	190

-M denotes Commercial model number

Contact Rain Bird for drawings or visit www.rainbird.com to download.

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The Intelligent Use of Water™

www.rainbird.com