

“E+ Series” Electric Suction Scanning Screen Filters

The standard in High Performance

E+ Series of filters are Rain Bird's high performance Electric Suction Scanning Screen filters. These filters provide worry free high-flow rate filtered water quality. All E+ Series self-cleaning water filters are available in parallel or straight flange configuration to accommodate existing piping and allow for simple installation.

All E+ Series are ideal suited for use in any of the following conditions:

- Heavy debris loads
- Fine filtration levels
- Low pressure applications
- Aggressive water source

All E+ Series automatic water filters utilize an electric motor to assist cleaning during the backwash cycle. Electric filter models make self-cleaning filtration possible at lower pressures. They are necessary where the minimum 35 psi system pressure is not available and can operate at system pressures as low as 15 psi.

These water filters utilize a two-stage screening process powered by source line water pressure and an electrical drive motor, the filter's back-wash system produces a concentrated high velocity reverse water flow to precisely clean the screen of any entrapped contaminants. The filter contains a coarse screen and a fine screen. The coarse screen is responsible for straining out large debris from the water source. The filter's backwashing system produces a concentrated high velocity reverse water flow to systematically clean the fine sintered mesh screen of any entrapped contaminants and purifies water to its specified quality.

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.



Stainless Steel
E+ (parallel flange)
E-0+ (straight flange)



E-0+ (straight flange)



Fiberglass Reinforced Plastic
IMF+ (parallel flange)

Industrial Uses

Rain Bird's Industrial filtration equipment has been used to generate improved water for equipment protection/pre-filtration, cooling, rinsing, process and effluent streams in facilities including: cooling towers, petrochemical plants, pulp & paper mills, sugar refineries, metal-works, plastics, and food processing factories, power generation and desalination plants, and more.

Municipal Uses

In the municipal sector, Rain Bird self-cleaning equipment is utilized for both drinking and wastewater treatment. For drinking water applications Rain Bird equipment offers effective pre-filtration for finer filter elements such as Reverse Osmosis, Ultrafiltration, Microfiltration etc. Filters used in municipal wastewater facilities are generally specified at the secondary or tertiary stage of treatment.

Filter Characteristics:

- Flow Rate: 15 – 7,350 gpm
- Flush cycle: 6 – 20 seconds
- Flush valve size: single 1" or 2"
- Screen opening: 5μ – 4000μ
- Temperature: 210°F
- Flush Volume: 4 – 50 gallons per backwash
- Working pressure: 15 – 150 psi
- Rinse Duration: 10 – 30 seconds
- Material: Stainless Steel, Carbon Steel, Duplex Stainless, or Fiberglass Reinforced Plastic



"E+ Series, E-0+ and IMF+ Series" Electric Suction Scanning Screen Filter Performance Data

Line Size (in.)	E+ Stainless Steel Model Number	E-0+ Stainless Steel Model Number	IMF+ Fiberglass Reinforced Plastic Model Number	IMF-0+ Fiberglass Reinforced Plastic Model Number	Max. Flow Rate (GPM)	Sintered Screen area (ft ²)	Sintered Screen area (in ²)	Rinse Duration (seconds)	Flush Line Size (in.)
2	E-02-A-S	E-0-02-A-S	IM-F-02-A-S	IM-F-02-A-S	200	2.65	382	15 to 50	1.5
3	E-03-A-S	E-0-03-A-S	IM-F-03-A-S	IM-F-03-A-S	300	2.65	382	15 to 50	1.5
4	E-04-A-S	E-0-04-A-S	IM-F-04-A-S	IM-F-04-A-S	500	2.65	382	15 to 50	1.5
4	E-04-B-S	E-0-04-B-S	IM-F-04-B-S	IM-F-04-B-S	500	5.25	756	15 to 50	1.5
4	E-04-C-S	E-0-04-C-S	IM-F-04-C-S	IM-F-04-C-S	500	7.00	1008	15 to 50	1.5
4	E-04-D-S	E-0-04-D-S	IM-F-04-D-S	IM-F-04-D-S	500	9.25	1332	35 to 110	2
6	E-06-A-S	E-0-06-A-S	IM-F-06-A-S	IM-F-06-A-S	650	2.65	382	15 to 50	1.5
6	E-06-B-S	E-0-06-B-S	IM-F-06-B-S	IM-F-06-B-S	1000	5.25	756	15 to 50	1.5
6	E-06-C-S	E-0-06-C-S	IM-F-06-C-S	IM-F-06-C-S	1000	7.00	1008	15 to 50	1.5
6	E-06-D-S	E-0-06-D-S	IM-F-06-D-S	IM-F-06-D-S	1000	9.25	1332	35 to 110	2
8	E-08-B-S	E-0-08-B-S	IM-F-08-B-S	IM-F-08-B-S	1400	5.25	756	15 to 50	1.5
8	E-08-C-S	E-0-08-C-S	IM-F-08-C-S	IM-F-08-C-S	1700	7.00	1008	15 to 50	1.5
8	E-08-D-S	E-0-08-D-S	IM-F-08-D-S	IM-F-08-D-S	2000	9.25	1332	35 to 110	2
10	E-10-C-S	E-0-10-C-S	IM-F-10-C-S	IM-F-10-C-S	1900	7.00	1008	15 to 50	1.5
10	E-10-D-S	E-0-10-D-S	IM-F-10-D-S	IM-F-10-D-S	2000	9.25	1332	35 to 110	2
10	E-10-E-S	E-0-10-E-S	IM-F-10-E-S	IM-F-10-E-S	2700	12.25	1764	35 to 110	2
12	E-12-D-S	E-0-12-D-S	IM-F-12-D-S	IM-F-12-D-S	2000	9.25	1332	35 to 110	2
12	E-12-E-S	E-0-12-E-S	IM-F-12-E-S	IM-F-12-E-S	3100	12.25	1764	35 to 110	2
12	E-12-F-S	E-0-12-F-S	IM-F-12-F-S	IM-F-12-F-S	3800	15.25	2196	35 to 110	2
14	E-14-E-S	E-0-14-E-S	IM-F-14-E-S	IM-F-14-E-S	3100	12.25	1764	35 to 110	2
14	E-14-F-S	E-0-14-F-S	IM-F-14-F-S	IM-F-14-F-S	3800	15.25	2196	35 to 110	2
14	E-14-G-S	E-0-14-G-S	IM-F-14-G-S	IM-F-14-G-S	4500	18.00	2592	35 to 110	2
16	E-16-E-S	E-0-16-E-S	IM-F-16-E-S	IM-F-16-E-S	3100	12.25	1764	35 to 110	2
16	E-16-F-S	E-0-16-F-S	IM-F-16-F-S	IM-F-16-F-S	3800	15.25	2196	35 to 110	2
16	E-16-G-S	E-0-16-G-S	IM-F-16-G-S	IM-F-16-G-S	4500	18.00	2592	35 to 110	2
16	E-16-H-S	E-0-16-H-S	IM-F-16-H-S	IM-F-16-H-S	6125	24.50	3528	35 to 110	2
18	E-18-F-S	E-0-18-F-S	IM-F-18-F-S	IM-F-18-F-S	3800	15.25	2196	35 to 110	2
18	E-18-G-S	E-0-18-G-S	IM-F-18-G-S	IM-F-18-G-S	4500	18.00	2592	35 to 110	2
18	E-18-H-S	E-0-18-H-S	IM-F-18-H-S	IM-F-18-H-S	6125	24.50	3528	35 to 110	2
20	E-20-G-S	E-0-20-G-S	IM-F-20-G-S	IM-F-20-G-S	4500	18.00	2592	35 to 110	2
20	E-20-H-S	E-0-20-H-S	IM-F-20-H-S	IM-F-20-H-S	7350	24.50	3528	35 to 110	2
24	E-24-H-S	E-0-24-H-S	IM-F-24-H-S	IM-F-24-H-S	7350	24.50	3528	35 to 110	2
30	E-30-H-S	E-0-30-H-S	IM-F-30-H-S	IM-F-30-H-S	7350	24.50	3528	35 to 110	2

As a guideline, the downstream nozzles or orifices to be protected will determine the proper filter porosity required (micron level).
 • Inorganic materials (such as sand), require a micron level that is 1/3 the diameter of the nozzle or office.
 • Organic materials (algae) require a micron level that is 1/8 the diameter of the nozzle or office.

Flow de-rating may be required for excessive debris loads, reclaimed water and finer screens. Please contact Rain Bird for further selection assistance. Drawings of standard filter models are available at industrial.Rainbird.com

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