

### I+ Series Automatic Hydraulic Suction Scanning Screen Filter The High Performance Standard

Rain Bird's I+ Series Hydraulic Suction Scanning Screen Filters provide worry free high-flow filtration. I+ Series self-cleaning water filters are offered in both horizontal (parallel flanged) and Vertical (90° flanged) configurations. 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.

I+ Series water filters utilize a two-stage screening process. The initial stage consists of a screen for the removal of oversized contaminants, while the second stage removes the remaining particles, achieving filtration to your specified level. The filter's backwashing system produces a concentrated high velocity flow to systematically clean the fine sintered screen of any entrapped contaminants. (Note: I+ series vertical filters only have the fine sintered screen to fit in tight spaces).

The I+ Series automatic water filters are used in a wide variety of irrigation applications.

#### Irrigation Uses

Rain Bird's well-established irrigation department provides self-cleaning water filters for turf, landscape, agriculture, greenhouse, golf course and nursery applications.

Rain Bird self-cleaning water filters are also applicable in emerging green and blue industries like Aquaculture.

#### Typical Micron Sizing:

- Drip 80-100 micron (200-150 mesh)
- Micro sprinklers (jets) 150-200 micron (100- 80 mesh)
- Impact sprinklers and rotors 200-400 micron (40-80 mesh)

There are limitless variations of water sources, filtration applications, and end uses of filtered water. Rain Bird answers the needs of each with equipment uniquely suited to new design or to accommodate existing pipelines, operating pressures, flow rates and water qualities.



Horizontal Model

#### Features

- Flow Rate: 15 – 7,350 gpm
- Flush cycle duration: 4 – 30 seconds
- Single electric ball valve for flushing operations
- Screen opening: 5µ – 4000µ
- Max Temperature: 210° F
- Flush Volume: 4 – 110 gallons per backwash
- Working pressure: 35 – 150 psi
- Material: Stainless Steel or optional Duplex Stainless
- Standard Rain Bird controllers: F-2-110V AC and F-2-9V DC (I+ Series filters integrated with a Rain Bird Pump are controlled by pump station PLC)
- Available as filter only, or as a complete assembly with bypass manifold and valves



Vertical Model

#### Hydraulic Filter Controllers

Model	Power
F-2-110V	110VAC
F-2-9V	9V DC

#### Water Quality

Good: TSS ≤ 20 mg/L (ppm)  
 Fair: TSS ≤ 40 mg/L (ppm)  
 Poor: TSS ≤ 80 mg/L (ppm)  
 Bad: TSS ≤ 110 mg/L (ppm)



## IRRIGATION

### I+ Series Suction Scanning Screen Filter Performance Data

Line Size (in)	Stainless Steel Model Number	Flow Rate (GPM)				Sintered Screen Area		Rinse Duration (Seconds)	Flush Volume (Gallons)	Flush Line Size (in)	Minimum Inlet Pressure During Rinse Cycle (PSI)
		300	200	120	100	Micron	in <sup>2</sup>				
		50	75	125	140	Mesh					
<b>Horizontal Models</b>											
2	HS-I-02-A-S	200	200	200	200	2.65	382	10 to 30	15 to 50	1.5	35
3	HS-I-03-A-S	300	300	300	300	2.65	382	10 to 30	15 to 50	1.5	35
4	HS-I-04-A-S	500	500	500	500	2.65	382	10 to 30	15 to 50	1.5	35
4	HS-I-04-B-S ★	500	500	500	500	5.25	756	10 to 30	15 to 50	1.5	35
4	HS-I-04-C-S	500	500	500	500	7.00	1008	10 to 30	15 to 50	1.5	35
4	HS-I-04-D-S ★	500	500	500	500	9.25	1332	10 to 30	35 to 110	2	35
6	HS-I-06-A-S	650	630	555	530	2.65	382	10 to 30	15 to 50	1.5	35
6	HS-I-06-B-S ★	1000	1000	1000	1000	5.25	756	10 to 30	15 to 50	1.5	35
6	HS-I-06-C-S	1000	1000	1000	1000	7.00	1008	10 to 30	15 to 50	1.5	35
6	HS-I-06-D-S ★	1000	1000	1000	1000	9.25	1332	10 to 30	35 to 110	2	35
8	HS-I-08-B-S ★	1400	1260	1100	1050	5.25	756	10 to 30	15 to 50	1.5	35
8	HS-I-08-C-S	1700	1680	1470	1400	7.00	1008	10 to 30	15 to 50	1.5	35
8	HS-I-08-D-S ★	2000	2000	1943	1850	9.25	1332	10 to 30	35 to 110	2	35
10	HS-I-10-C-S	1900	1680	1470	1400	7.00	1008	10 to 30	15 to 50	1.5	35
10	HS-I-10-E-S	2700	2700	2573	2450	12.25	1764	10 to 30	35 to 110	2	35
12	HS-I-12-D-S	2000	2000	1943	1850	9.25	1332	10 to 30	35 to 110	2	35
12	HS-I-12-E-S	3100	2940	2573	2450	12.25	1764	10 to 30	35 to 110	2	35
12	HS-I-12-F-S	3800	3660	3200	3050	15.25	2196	10 to 30	35 to 110	2	35
14	HS-I-14-E-S	3100	2940	2573	2450	12.25	1764	10 to 30	35 to 110	2	35
14	HS-I-14-F-S	3800	3660	3200	3050	15.25	2196	10 to 30	35 to 110	2	35
14	HS-I-14-G-S	4500	4320	3780	3600	18.00	2592	10 to 30	35 to 110	2	35
16	HS-I-16-E-S	3100	2940	2573	2450	12.25	1764	10 to 30	35 to 110	2	35
16	HS-I-16-F-S	3800	3660	3200	3050	15.25	2196	10 to 30	35 to 110	2	35
16	HS-I-16-G-S	4500	4320	3780	3600	18.00	2592	10 to 30	35 to 110	2	35
16	HS-I-16-H-S	6125	5880	5145	4900	24.50	3528	10 to 30	35 to 110	2	35
18	HS-I-18-F-S	3800	3660	3200	3050	15.25	2196	10 to 30	35 to 110	2	35
18	HS-I-18-G-S	4500	4320	3780	3600	18.00	2592	10 to 30	35 to 110	2	35
18	HS-I-18-H-S	6125	5880	5145	4900	24.50	3528	10 to 30	35 to 110	2	35
20	HS-I-20-G-S	4500	4320	3780	3600	18.00	2592	10 to 30	35 to 110	2	35
20	HS-I-20-H-S	7350	5880	5145	4900	24.50	3528	10 to 30	35 to 110	2	35
24	HS-I-24-H-S	7350	5880	5145	4900	24.50	3528	10 to 30	35 to 110	2	35
30	HS-I-30-H-S	7350	5880	5145	4900	24.50	3528	10 to 30	35 to 110	2	35
<b>Vertical Models</b>											
4	HS-G-04-D-S	500	500	500	500	4.25	612	4 to 8	4 to 8	1	35
4	HS-G-04-E-S	500	500	500	500	6.25	900	10 to 30	35 to 110	2	35
4	HS-G-04-F-S	500	500	500	500	8	1152	10 to 30	35 to 110	2	35
6	HS-G-06-D-S	850	850	850	850	4.25	612	4 to 8	4 to 8	1	35
6	HS-G-06-E-S	1000	1000	1000	1000	6.25	900	10 to 30	35 to 110	2	35
6	HS-G-06-F-S	1000	1000	1000	1000	8	1152	10 to 30	35 to 110	2	35
8	HS-G-08-D-S	850	850	850	850	4.25	612	4 to 8	4 to 8	1	35
8	HS-G-08-E-S	1250	1250	1250	1250	6.25	900	10 to 30	35 to 110	2	35
8	HS-G-08-F-S	1600	1600	1600	1600	8	1152	10 to 30	35 to 110	2	35
10	HS-G-10-E-S	1250	1250	1250	1250	6.25	900	10 to 30	35 to 110	2	35
10	HS-G-10-F-S	1600	1600	1600	1600	8	1152	10 to 30	35 to 110	2	35

★ Quick Ship Model

Flow rates shown above are based on water quality of 25 PPM or better (good water quality). For water with particulate load greater than 25 PPM please consult Rain Bird for appropriate flow de-rating.

Note: Filter with Bypass Manifolds available upon request.

Drawings of standard filter models are available at [www.rainbird.com](http://www.rainbird.com)

**Rain Bird Corporation**

6991 E. Southpoint Road  
Tucson, AZ 85756  
Phone: (520) 741-6100  
Fax: (520) 741-6522

**Rain Bird Corporation**

970 West Sierra Madre Avenue  
Azusa, CA 91702  
Phone: (626) 812-3400  
Fax: (626) 812-3411

**Rain Bird International, Inc.**

1000 West Sierra Madre Ave.  
Azusa, CA 91702  
Phone: (626) 963-9311  
Fax: (626) 852-7343

**Rain Bird Filtration Support**

877-648-9532  
filters@rainbird.com

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[www.rainbird.com](http://www.rainbird.com)