

## “IMG+ Series” Hydraulic Suction Scanning Filter

Economy and Value with Lower Flush Volumes



The IMG+ Series filters are self-cleaning hydraulic suction scanning screen filters that are powered by source line water pressure. They provide worry free low to medium-flow rate filtration for industrial and municipal water sources.

The IMG+ Series water filters are ideal where large debris from source water is not a concern. The filter's backwashing system produces a concentrated high velocity and low volume reverse water flow to systematically clean the sintered wire mesh screen of any entrapped contaminants. These IMG+ Series filters house a single fine screen, and achieve specified water quality in one step.

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.

### Construction

Rain Bird IMG+ Series filters are built for years of durable, trouble-free service. The bodies of standard IMG+ Series filters are made from high-grade, stainless steel. All wetted components are constructed of either engineered plastics or non-corrosive metals. A standard sintered screen virtually eliminates the possibility of screen collapse.

### Monitoring and Controls

The standard Rain Bird control system consists of a controller, a differential pressure switch and an electrically actuated flush valve. The differential pressure switch monitors inlet and outlet pressures. The flush valve is activated by the controller when the differential pressure exceeds a preset limit. The filtration system is automatically monitored and controlled on elapsed time since the last cleaning cycle or pressure differential (user definable). If timed cleaning cycles are utilized, the system will automatically default to a backwash based on differential pressure, if the pre-set differential pressure is reached before the next timed cleaning cycle. Rain Bird automatic controllers are available for 110/220V AC or 9V DC power.

### Industrial Uses

Rain Bird's Industrial filtration equipment is utilized throughout petrochemical plants, pulp & paper mills, sugar refineries, metal-works, plastics, food processing facilities, power generation, desalination plants, etc. IMG+ Series filters improve water quality, protecting equipment and providing pre-filtration for cooling, rinsing, process and effluent streams across a wide range of industrial facilities.

### Municipal Uses

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

Within each of these categories 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.

### Applications

- Cooling Water
- Drinking Water
- Intake Water
- Reclaimed Water
- Effluent Water
- Well Water
- Waste Water
- Wash Water
- Cooling Towers
- H.V.A.C.
- Pump Seal Protection
- Fire Sprinkler Protection
- I.E. & R.O. Protection
- Nozzle Protection
- Heat Exchange Protection
- Air Compressor Protection

### Features

- Flow Rate: 15 – 1,600 gpm
- Flush cycle duration: 4 – 10 seconds
- Flush valve size: Single 1" Electric
- Screen opening: 5 $\mu$  – 4000 $\mu$
- Maximum Temperature: 210°F
- Flush Volume: 3 – 7 gallons per backwash
- Working pressure: 35 to 150 psi
- Standard Material: Stainless Steel
- Optional: Duplex Alloys

### "IMG+-Series" Suction Scanning Screen Filter Performance Data

Line Size (in.)	Stainless Steel Model Number	Std. Flow Rate (GPM)	Sintered Screen area (ft <sup>2</sup> )	Flush Volume (GPM)	Rinse Duration (seconds)	Flush Line Size (in.)	Minimum Inlet Pressure During Rinse Cycle (PSI)
0.75	IM-G-075-M-S	50	58	1 to 4	2 to 6	1	35
1	IM-G-01-M-S	75	58	1 to 4	2 to 6	1	35
1	IM-G-01-A-S	100	144	1 to 4	2 to 6	1	35
1.5	IM-G-015-M-S	100	58	1 to 4	2 to 6	1	35
1.5	IM-G-015-ML-S	75	144	3 to 5	4 to 8	1	35
1.5	IM-G-015-A-S	150	144	4 to 8	4 to 8	1	35
2	IM-G-02-M-S	200	58	1 to 4	2 to 6	1	35
2	IM-G-02-ML-S	200	144	3 to 5	4 to 8	1	35
2	IM-G-02-A-S	200	144	4 to 8	4 to 8	1	35
2	IM-G-02-B-S	300	288	4 to 8	4 to 8	1	35
2	IM-G-02-C-S	400	432	4 to 8	4 to 8	1	3
3	IM-G-03-ML-S	200	144	3 to 5	4 to 8	1	35
3	IM-G-03-A-S	300	144	4 to 8	4 to 8	1	35
3	IM-G-03-B-S	500	288	4 to 8	4 to 8	1	35
3	IM-G-03-C-S	600	432	4 to 8	4 to 8	1	35
3	IM-G-03-D-S	600	612	4 to 8	4 to 8	1	35
4	IM-G-04-ML-S	500	144	3 to 5	4 to 8	1	35
4	IM-G-04-B-S	800	288	4 to 8	4 to 8	1	35
4	IM-G-04-C-S	500	432	4 to 8	4 to 8	1	35
4	IM-G-04-L-S	1000	576	6 to 10	10 to 16	1.5	35
4	IM-G-04-X-S	1000	720	6 to 10	10 to 16	1.5	35
4	IM-G-04-D-S	300	612	4 to 8	4 to 8	1	35
4	IM-G-04-E-S	500	900	35 to 110	10 to 30	2	35
4	IM-G-04-F-S	850	1152	35 to 110	10 to 30	2	35
6	IM-G-06-C-S	850	432	4 to 8	4 to 8	1	35
6	IM-G-06-L-S	500	576	6 to 10	10 to 16	1.5	35
6	IM-G-06-X-S	1000	720	6 to 10	10 to 16	1.5	35
6	IM-G-06-D-S	1250	612	4 to 8	4 to 8	1	35
6	IM-G-06-E-S	1250	900	35 to 110	10 to 30	2	35
6	IM-G-06-F-S	500	1152	35 to 110	10 to 30	2	35
8	IM-G-08-C-S	1000	432	4 to 8	4 to 8	1	35
8	IM-G-08-X-S	1600	720	6 to 10	10 to 16	1.5	35
8	IM-G-08-D-S	1600	612	4 to 8	4 to 8	1.5	35
8	IM-G-08-E-S	1250	900	35 to 110	10 to 30	2	35
8	IM-G-08-F-S	1600	1152	35 to 110	10 to 30	2	35
10	IM-G-10-X-S	1500	720	6 to 10	10 to 16	1.5	35
10	IM-G-10-E-S	1250	900	35 to 110	10 to 30	2	35
10	IM-G-10-F-S	1600	1152	35 to 110	10 to 30	2	35

Hydraulic Controllers	
Model	Power
F-2-110V	110/220V AC
F-2-9V	9VDC

- The flow rates shown above are based on water quality of 25 PPM or better (good quality water).
- For water with particulate load greater than 25 PPM please consult Rain Bird for appropriate flow de-rating.
- Note: Filters with bypass manifolds quoted upon request.
- Drawings of standard filter models listed above are available on [industrial.rainbird.com](http://industrial.rainbird.com)

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