

Irrigation

“G+ Series” Hydraulic Suction Scanning Screen Filter

The High Performance Standard

The G+ Series is a self-cleaning hydraulic suction scanning screen filters that is powered by source line water pressure. They provide worry free medium-flow rate filtration for irrigation, industrial and municipal water sources.

G+ Series self-cleaning water filters have a compact right angle flange configuration (90°). The G+ Series automatic water filter is much smaller than its I+ Series counterpart and provides a space-saving alternative.

The G+ 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 filtration systems 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.

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.

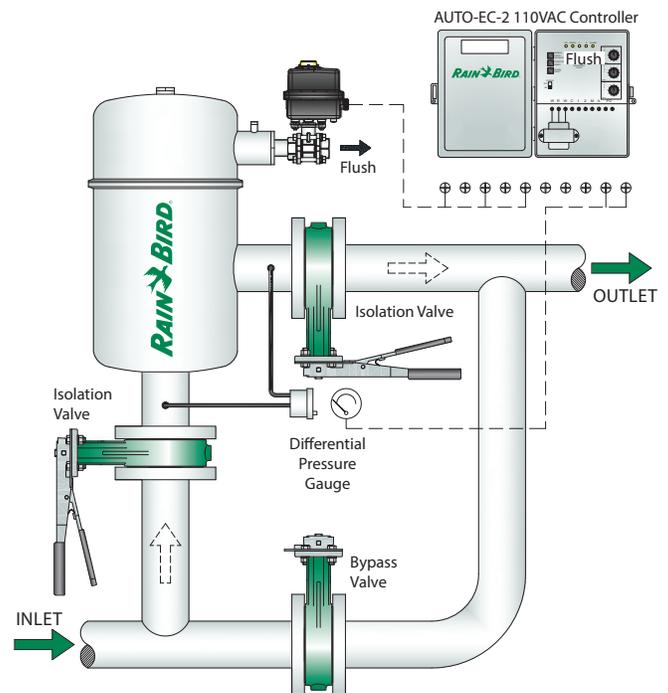
As a guideline, downstream orifices will determine the pore (i.e. micron) size and the proper filter porosity should maintain a ratio of 1:5 for drip irrigation and 1:3 for sprinklers.

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)

Industrial Uses

Rain Bird's Industrial filtration equipment is utilized throughout petrochemical plants, pulp & paper mills, sugar refineries, metal-works, plas-



tics, food processing facilities, power generation, desalination plants, and more. The typical application improves 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 equipment offers effective prefiltration 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 applica-

tions, 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.

Features

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



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"G+ Series" Suction Scanning Screen Filter Performance Data

| Line Size (in.) | Stainless Steel Model Number | Sintered Screen area (ft ²) | Micron | 300 | 200 | 120 | 100 | Flush Volume (GPM) | Rinse Duration (seconds) | Flush Line Size (in.) | Inlet Pressure During Rinse Cycle (PSI) |
|-----------------|------------------------------|---|--------|------|------|------|------|--------------------|--------------------------|-----------------------|---|
| | | | Mesh | 50 | 80 | 125 | 140 | | | | |
| 0.75 | HS-G-075-M-S | 58 | | 50 | 50 | 50 | 50 | 1 to 4 | 2 to 6 | 1 | 35 |
| 1 | HS-G-01-M-S | 58 | | 75 | 75 | 75 | 75 | 1 to 4 | 2 to 6 | 1 | 35 |
| 1 | HS-G-01-A-S | 144 | | 75 | 75 | 75 | 75 | 1 to 4 | 2 to 6 | 1 | 35 |
| 1.5 | HS-G-015-M-S | 58 | | 100 | 96 | 85 | 80 | 1 to 4 | 2 to 6 | 1 | 35 |
| 1.5 | HS-G-015-ML-S | 144 | | 150 | 150 | 150 | 150 | 3 to 5 | 4 to 8 | 1 | 35 |
| 1.5 | HS-G-015-A-S | 144 | | 150 | 150 | 150 | 150 | 4 to 8 | 4 to 8 | 1 | 35 |
| 2 | HS-G-02-M-S | 58 | | 100 | 96 | 85 | 80 | 1 to 4 | 2 to 6 | 1 | 35 |
| 2 | HS-G-02-ML-S | 144 | | 200 | 200 | 200 | 200 | 3 to 5 | 4 to 8 | 1 | 35 |
| 2 | HS-G-02-A-S | 144 | | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | 35 |
| 2 | HS-G-02-B-S | 288 | | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | 35 |
| 2 | HS-G-02-C-S | 432 | | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | 35 |
| 3 | HS-G-03-ML-S | 144 | | 300 | 275 | 240 | 230 | 3 to 5 | 4 to 8 | 1 | 35 |
| 3 | HS-G-03-A-S | 144 | | 200 | 200 | 200 | 200 | 4 to 8 | 4 to 8 | 1 | 35 |
| 3 | HS-G-03-B-S | 288 | | 300 | 300 | 300 | 300 | 4 to 8 | 4 to 8 | 1 | 35 |
| 3 | HS-G-03-C-S | 432 | | 300 | 300 | 300 | 300 | 4 to 8 | 4 to 8 | 1 | 35 |
| 3 | HS-G-03-D-S | 612 | | 300 | 300 | 300 | 300 | 4 to 8 | 4 to 8 | 1 | 35 |
| 4 | HS-G-04-ML-S | 144 | | 300 | 275 | 240 | 230 | 3 to 5 | 4 to 8 | 1 | 35 |
| 4 | HS-G-04-B-S | 288 | | 400 | 400 | 400 | 400 | 4 to 8 | 4 to 8 | 1 | 35 |
| 4 | HS-G-04-C-S | 432 | | 500 | 500 | 500 | 500 | 4 to 8 | 4 to 8 | 1 | 35 |
| 4 | HS-G-04-L-S | 576 | | 500 | 500 | 500 | 500 | 6 to 10 | 10 to 16 | 1.5 | 35 |
| 4 | HS-G-04-X-S | 720 | | 500 | 500 | 500 | 500 | 6 to 10 | 10 to 16 | 1.5 | 35 |
| 4 | HS-G-04-D-S | 612 | | 500 | 500 | 500 | 500 | 4 to 8 | 4 to 8 | 1 | 35 |
| 4 | HS-G-04-E-S | 900 | | 500 | 500 | 500 | 500 | 35 to 110 | 10 to 30 | 2 | 35 |
| 4 | HS-G-04-F-S | 1152 | | 500 | 500 | 500 | 500 | 35 to 110 | 10 to 30 | 2 | 35 |
| 6 | HS-G-06-C-S | 432 | | 600 | 600 | 600 | 600 | 4 to 8 | 4 to 8 | 1 | 35 |
| 6 | HS-G-06-L-S | 576 | | 1000 | 1000 | 960 | 920 | 6 to 10 | 10 to 16 | 1.5 | 35 |
| 6 | HS-G-06-X-S | 720 | | 1000 | 1000 | 1000 | 1000 | 6 to 10 | 10 to 16 | 1.5 | 35 |
| 6 | HS-G-06-D-S | 612 | | 850 | 850 | 850 | 850 | 4 to 8 | 4 to 8 | 1 | 35 |
| 6 | HS-G-06-E-S | 900 | | 1000 | 1000 | 1000 | 1000 | 35 to 110 | 10 to 30 | 2 | 35 |
| 6 | HS-G-06-F-S | 1152 | | 1000 | 1000 | 1000 | 1000 | 35 to 110 | 10 to 30 | 2 | 35 |
| 8 | HS-G-08-C-S | 432 | | 600 | 600 | 600 | 600 | 4 to 8 | 4 to 8 | 1 | 35 |
| 8 | HS-G-08-X-S | 720 | | 1500 | 1375 | 1200 | 1150 | 6 to 10 | 10 to 16 | 1.5 | 35 |
| 8 | HS-G-08-D-S | 612 | | 850 | 850 | 850 | 850 | 4 to 8 | 4 to 8 | 1.5 | 35 |
| 8 | HS-G-08-E-S | 900 | | 1250 | 1250 | 1250 | 1250 | 35 to 110 | 10 to 30 | 2 | 35 |
| 8 | HS-G-08-F-S | 1152 | | 1600 | 1600 | 1600 | 1600 | 35 to 110 | 10 to 30 | 2 | 35 |
| 10 | HS-G-10-X-S | 720 | | 1500 | 1375 | 1200 | 1150 | 6 to 10 | 10 to 16 | 1.5 | 35 |
| 10 | HS-G-10-E-S | 900 | | 1250 | 1250 | 1250 | 1250 | 35 to 110 | 10 to 30 | 2 | 35 |
| 10 | HS-G-10-F-S | 1152 | | 1600 | 1600 | 1600 | 1600 | 35 to 110 | 10 to 30 | 2 | 35 |

** The above calculated flow rates are based on good quality water. For fair, poor or bad water derate using the multiplier below for your water quality.

| Hydraulic Filter Controllers | | Water Quality | De-rating Multiplier | Note: Filter with Bypass Manifolds available upon request. Drawings of standard filter models are available at www.rainbird.com |
|------------------------------|--------------|---------------------------|----------------------|--|
| Model | Power | Good: TSS ≤ 20 mg/L (ppm) | NA | |
| Auto EC-2-110V | 110VAC | Fair: TSS ≤ 40 mg/L (ppm) | 0.85 | |
| Auto EC-2-9V | 9VDC | Poor: TSS ≤ 80 mg/L (ppm) | 0.50 | |
| | | Bad: TSS ≤ 110 mg/L (ppm) | 0.35 | |

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