

iller-Leaman's state-of-the-art automatic *Turbo-Disc Filter* sets the standard for water, wastewater, and reuse water applications. The modular design is available in single-pod and multiple pod models. Systems are available with and without pumps, and can be packaged with other filtration products and water treatment equipment. Using a fraction of the backwash water used by other automatic filters, the Turbo-Disc is effective in removing particulate (sand, sediment, etc.) and light fibrous contaminants (i.e. algae) found in surface water and other process water streams.



Typical Filtration Applications:

- Reclaimed Water
- Stormwater Runoff
- Wastewater
- Pre-filtration for Membranes (MF, UF, etc.)
- Well Water
- Surface Water (ponds, lakes, rivers)
- Process Cooling Water
 - (cooling tower and chilled water)



16-Pod, 1,600 GPM Full-Stream System, complete with Booster Pump

Turnkey Systems Include:

- Automatic Filters / Disc Cartridges
- Stainless Steel Inlet / Outlet / Backwash Manifolds
- Automatic Backwash Valves / Solenoids
- Miller-Leaman *Maxim* Backwash Controller, complete with differential-pressure switch-gauge
- Stainless Steel Frame and Skid Assembly
- Available with or without Pump and/or Booster Pump
- Motor Starter(s)– Single Point Electrical Connection
- Outlet Control Valve (on multiple pod systems only)
- Air-Override Feature (air enhances backwash efficiency)

Optional Equipment:

- Isolation Valves
- Pump Pre-Strainer
- Other Filtration Products (i.e. separators, bag/cartridge filters)
- Water Disinfection Equipment (i.e. UV, Ozone)
- SCADA Compatible Controls
- Air Compressor (if compressed air is not available)



Typical Multi-Staged Filtration System. High Efficiency Separators Combined with a Turbo-Disc Filter.



Dunes Utilities – Reclaimed Water Filter Station. Filtering Reclaimed Water used for Irrigation.



Μ N F Π Ε R 0 D Ε R Δ 0

А

Т

FILTRATION MODE

А

U

Т

Ο

BACKWASH MODE

С





Flow Rates for a Single Filter Pod*:

Multiple pods are manifolded for higher flow rates. 2"/70 GPM Max. Per Filter Pod 3"/100 GPM Max. Per Filter Pod * Maximum flow rates vary greatly depending on water quality, solids loading, and micron size of the disc media. De-rate flow to 50 GPM (per pod) with 50-micron disc media.

Micron Options Available*:

50-micron	(≈250 -	mesh)
100-micron	(≈150 -	mesh)
130-micron	(≈120 -	mesh)
200 .	2 00	1 5

200-micron (≈ 80 - mesh)

* Centrifugal spinning action of heavy particles combined with the caking-effect achieved across the three-dimensional disc media, greatly increases the micron efficiency.

Pressure Rating:

All Systems Rated Up to 125 PSI

Temperature Rating:

All Systems Rated Up to 140°F

Materials of Construction / Technical Information:

Filter Housings: Polyamide Filter Disc Media: Polypropylene Gaskets and O-rings: EPDM Filter Pod Clamp: Stainless Steel Inlet / Outlet / Backwash Manifolds; Frame & Skid Assembly: Type 304 Stainless Steel Backwash Valves Bronze (2" filter housings) Cast Iron, Epoxy-Coated (3" filter housings) Solenoids: Plastic / Brass Maxim Backwash Controller - 120-volt/AC Features:

- Backwash based on Differential-Pressure, Elapsed Time or Manually.
- User Adjustment of Critical **Control Functions** (i.e. backwash duration, differential-pressure setting, etc.)

Pump(s) & Motor Starter Relay(s) Electrical:

• 460-volt / 3 Phase (standard) – Single Point Electrical Outlet Control Valve: Cast Iron, Epoxy-Coated (Multiple pod systems only) Air-Override Feature: 1/4" NPT connection for compressed air

• Air compressor is optional if compressed air is not available

800 Orange Avenue • Daytona Beach, FL 32114 phone: 386.248.0500 • toll free: 800.881.0320 fax: 386.248.3033 • www.millerleaman.com





TO MEET

