



Hydrotech Discfilter Pure Performance

WATER TECHNOLOGIES

The Discfilter Process

The Hydrotech Discfilter provides proven experience for today's demanding wastewater treatment applications through an efficient, yet easy-to-operate design. Influent flows by gravity into the center drum and then passes through the filter media mounted on both sides of the discs. The solids are retained on the media within the discs. Only purified water flows to the collection tank. The inside-out flow path prevents solids accumulation in the tank. As solids collect on the inside of the media the influent water level rises. Maximum head loss through the media is <12 inches. The inlet water level is measured and the control system automatically initiates backwashing. The filtered effluent is pumped to the backwash spray nozzles, washing solids into the sludge trough as the discs rotate. The backwash water is typically 1% to 2% of the total flow to the filter, while the sludge return is typically <1%. Filtration is continuously maintained, even during backwash.



Progressive Innovation

The Hydrotech Discfilter utilizes many patented designs including the oscillating backwash spray header, which provides efficient media cleaning while reducing water consumption by 20 percent. Ongoing research ensures the most cost effective filtration methods available.

The Hydrotech Discfilter is available in a variety of models:

1700 series

- Up to 8 discs
- Up to 1 MGD per unit in effluent polishing
- Ideal for small scale projects



2200 series

- Up to 24 discs
- Up to 9 MGD per unit in effluent polishing
- Excellent for a wide range of project sizes



2600 series

- Up to 30 discs for 15 MGD per unit in effluent polishing
- Provides highest filtration area and most compact footprint
- High flow rates maximize treatment in a given footprint
- Energy reduced 15% and footprint by 25%
- User-friendly design for minimal maintenance



Options are offered to further reduce footprint, maintenance and cost.

- Tank versions with reduced footprint, maintenance and cost
- Flexibility for flange locations
- Automated systems for supplemental chemical cleaning







Mobile automated cleaning system

Proven Performance

The compact Hydrotech Discfilter is used in a wide range of applications:

- Effluent polishing of wastewater
- · Phosphorus removal
- Water reuse (Title 22 approved)
- Retrofit/replacement of existing systems
- CSO, SSO, and primary treatment
- Process water filtration
- Membrane pre-treatment

The Hydrotech Discfilter is ideal for treating effluent from a variety of processes (e.g., activated sludge, fixed film, etc.). Veolia offers full-scale pilots to demonstrate performance.



Designed To Save

Hydrotech Discfilters provide a large filter area in a small footprint; up to 75% smaller than sand filters and up to 20% smaller than other cloth filters.

The discfilter is delivered as an assembled unit, while other cloth filters require more labor for site assembly. The discfilter eliminates these costs. Installation is as simple as off-loading from a trailer, anchoring the unit, and completing mechanical and electrical connections.

O&M is simple and reduces operating costs. Fabrication is in 304 or 316 SSTL for trouble-free operation in the toughest conditions. Durable filter media provides long life without frequent and costly replacement. The efficient backwash process reduces energy costs.



Hydrotech Discfilters are easy to inspect and maintain, saving time and money.

Advanced Treatment

The Hydrotech Discfilter enables facilities to meet stringent performance requirements.

Veolia has pioneered use of the discfilter in combination with coagulation/flocculation as a cost effective means to reduce effluent phosphorus to < 0.1 mg/L.



Experience You Can Trust

Today's demanding applications require proven experience. Hydrotech Discfilters lead the market with over 400 installed units in the United States and over 1,900 worldwide.





Mesquite, TX Effluent polishing 48 MGD



Holly Springs, NC

Water reclaim and phosphorus removal 15 MGD Resourcing the world

Veolia Water Technologies

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