Hydrotech™ Discfilter

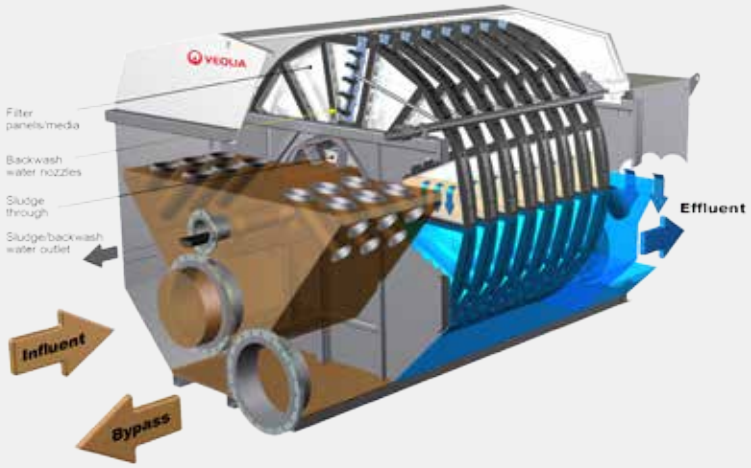
VEOLIA

Filtration Made Simple

WATER TECHNOLOGIES

Hydrotech™ Discfilter Filtration

Hydrotech Discfilters use a woven media filter for fine solids removal and product recovery. This technology offers a large filter area in a small footprint, making it well suited for various industrial processes.



Discfilter filtration is proven for:

- Wastewater effluent polishing
- Primary filtration
- Process water filtration
- Cooling tower side stream filtration
- Intake water
- Cooling tower blowdown treatment
- Membrane pretreatment
- Phosphorus removal

Industries Served:

- CPI
- Food & Beverage
- General Industry
- Mining
- Oil & Gas
- Power
- Primary Metals
- Pulp & Paper

Filtration Made Simple

- The water to be treated flows by gravity into the filter segment from the center drum. Solids accumulate on the inside of the filter panels mounted on the two sides of the disc segments.
- As the solids accumulate on the inside of the filter media, the flow of water through the disc is impeded. The water level inside of the discs begins to rise and a level sensor is triggered to start the drum rotation and backwash cycle.
- A high pressure rinse removes the accumulated solids from the filter media and into the solids collection trough. Typically the backwash requirement is 1 to 2% of the total flow. Solids are intermittently pumped from the bottom of the trough.

Ideal Solution for Water Reuse

- 75% smaller footprint than sand or multi-media filters
- Small footprint results in low installed cost
- Easy maintenance lowers operating cost
- Continuous filtration, even during backwash
- Woven filter media provides an absolute barrier to particulates
- 304 , 316 or duplex stainless steel construction prevents corrosion
- Minimal mechanical parts and ancillary equipment
- Easily expandable to accommodate higher future flow rates
- California DHS Title 22 approved for reuse applications

Expertly Sized for Your Application

Discfilters are available in two package options: tank or frame units. Flow capacity is up to 10,000 gpm per tank unit or up to 14,200 gpm per frame unit. Multiple units are installed to handle high flow rates. Pore sizes of the filter media range from 10 to 1,000 microns. Our application experts will determine the best configuration to meet your needs in the most cost-effective manner. Pilot testing units are available to validate system performance prior to full-scale installation.

80% **Footprint Reduction**

The combination of Veolia's ACTIFLO® and Discfilter technologies provides a very robust and compact solution for high flow and high solids load, while reducing the required footprint by up to 80%.

Key Features

Superior Filtration

- Modular filter panels consist of a precise pore-size, woven polyester filter media.
- Effective for large flows requiring fine particle filtration.
- Available in 10-1,000 micron PE and 15-1,000 micron SS pore sizes.

Filter Expansion

- Modular panels provide a simple means of maintaining and expanding the Discfilter.
- Discs can be added as flow rate or solids load increases.
- Offers flexibility to switch to a different pore size panel if performance needs change.

Moving Backwash Spray Header

- Guarantees efficient cleaning of the filter media.
- Increases filter media life.
- Reduces rinse water consumption.
- Folds out for easy spray nozzle maintenance.

Simple Maintenance

Simple and efficient, the panel's patented design facilitates replacement without the need for specialized service or system downtime. **No tools required** for inspection or replacement of the nozzles. **No need to drain the tank** prior to inspection and maintenance.

The backwash spray header is retractable for easy access.

Only two fasteners have to be removed to release each filter panel. Tools are not needed.

The filter basin does not have to be drained prior to the removal of filter media panels.

Resourcing the world

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