



# HYDROTECH

World leading  
microscreen filters



Solutions & Technologies

# DRUMFILTERS



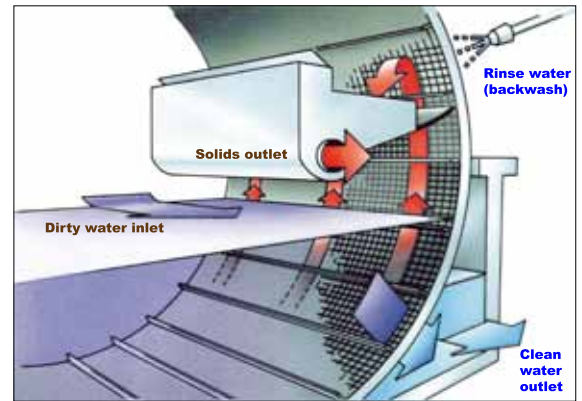
*Hydrotech's patented filter panels give long lifetime and lift even heavy particles gently out of the drum.*



## Hydrotech Microscreen Drum Filters

Hydrotech Microscreens are mechanical, self-cleaning filters designed to achieve high performance in systems where prevention of particle fragmentation is essential. Solids laden water gravity flows through the filter and solids catch on the inside of the screen. Clean water passes through the screen as a backwash rinse system backs the solids off the screen and into a sludge trough. Hydrotech Microscreens work without pressure and are designed with few moving parts to ensure long life and low maintenance costs. (See illustration this page)

WMT outfits Hydrotech Filters with UL approved controls and backwash systems. We use Allen Bradley Industrial Controls and US backwash pumps so servicing is easy and affordable. WMT carries a complete inventory of spare parts. Hydrotech's patented filter elements greatly simplify both the replacement and change out of the filter opening size. Hydrotech has 40 standard sizes of micro-screens with filter openings from 10 microns up.



### Aquaculture Applications

- ▶ Intake water to flow through systems
- ▶ Recycle systems
- ▶ Effluent polishing to remove fish feces and uneaten feed prior to discharge into the environment.
- ▶ Prior to heat exchangers

Over six thousand Hydrotech Microscreens are operating worldwide, over 700 in North America, and 50 state or federal hatcheries have Hydrotech drum or disc filters. Call us for a reference near you.

Government	Commercial	Research	Zoo
AE Wood SFH - Texas	Aquasafra - Florida	U of Florida	Gulf Breeze Zoo - FL
Lake Jackson SFH – Texas	Southern States – NC, GA, DE	U of MD	Columbus Zoo - OH
Booker Fowler SFH - LA	Great Bay Aquaculture - NH	U of Maine	Toronto Zoo
Richloam SFH - Florida	Sable Fish – BC Canada	USDA – Me, WV, FI	Roger Williams Zoo
Alabama DNR	Ewos, Mainstream – BC Canada	Feather River Com College - CA	Virginia Aquarium
Watha SFH - NC	Troutlodge – Wa State	Memorial University - Newfoundland	San Antonio Zoo
Brookneal SFH VA	Red Top - CA	Duke University	
Bear Creek SFH - MD	North Hastings – Ontario Canada	U of PA	
Oden SFH - Michigan	Cooke Aquaculture – New Brunswick, Canada	NCSU - NC	
Embden SFH - Maine	Aquaseed – Seattle Washington	Hawaii Institute of Marine Biology	
Creston NFH - Montana		VIMS - VA	
Sam Adams SFH-Wa State			
Baldwin – Quebec Canada			

## Hydrotech Microscreen Disc Filters

Hydrotech Disc Filters are designed to filter high flows with fine filter element openings and lightly loaded water (<40 mg/l). The Disc functions in a manner similar to the drum but is employed in applications where the costs of drum filters is too high and impractical. A Hydrotech Disc Filter offers 3 times the effective filter area as a drum filter occupying a similar foot print. (See illustration this page).

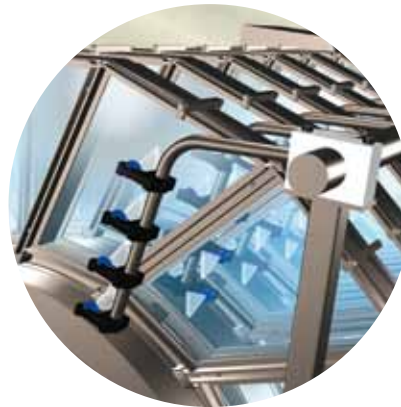
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### Aquaculture Applications

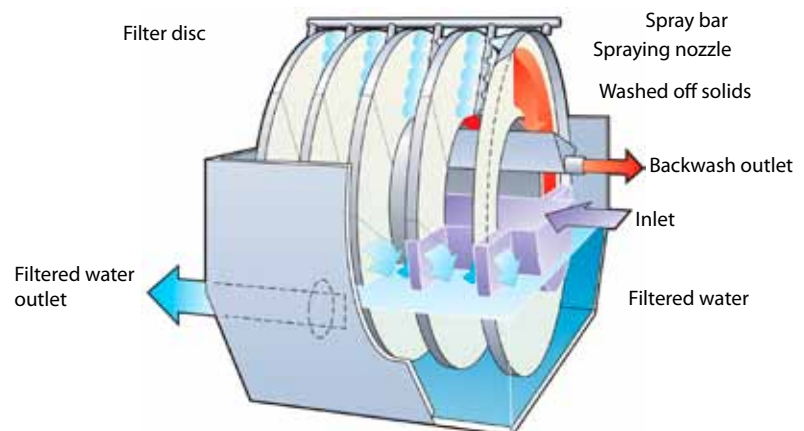
- ▶ Intake water to flow through systems
- ▶ Recycle systems
- ▶ Effluent polishing to remove fish feces and uneaten feed prior to discharge into the environment.
- ▶ Prior to heat exchangers

### North America Aquaculture References

Government	Commercial
Lisboa SFH – New Mexico	Hydromentia - Florida
Durango SFH - Colorado	
Leadville NFH – Colorado	
Tylersville SFH – PA	
Pleasant Gap SFH - PA	
Bellefonte SFH - PA	
Huntsdale SFH - PA	
Benner Springs SFH - PA	
Platte River SFH - Michigan	
Lake Mead SFH - Nevada	



*Hydrotech's patented moving backwash spray system ensures better cleaning with minimal water use and longer life of the filter media.*



*Hydrotech disc- and drumfilters has mostly been used for filtration of the outlet waters improving the environment in our rivers and lakes.*



Concentrated sludge after filtration with the Hydrotech Beltfilter

## Hydrotech Microscreen Belt Filters

Hydrotech Belt Filters are mechanical, self-cleaning filters designed to thicken sludge when used in conjunction with a polymer mixing system. Typically, sludge from a Hydrotech Drum or Disc Filter has a dry matter content of 0.030 – 0.050 % (300-500 mg/litre). After passing through the Hydrotech Belt Filter System, the dry matter content increases to 8-12%. This means the volume of de-watered sludge has been reduced by a factor of 150-250!

Reducing the volume of water in the sludge translates to lower costs for sludge storage, labor and handling.

### Aquaculture Applications

- ▶ Coarse Screening for intake water to flow through systems
- ▶ Sludge Thickening from HydrWotech Drum and Disc Filters

The Hydrotech Belt Filter is offered in 2 styles; with tank HBF 1074 1H and for sump installation; HBF 1074.

### References

Government
Freshwater Institute – WV
USDA – Cold & Coolwater Research - ME
Craig Brook NFH - ME
Baldwin NFH – Quebec Canada
Creston NFH - Montana

## The Hydrotech product family

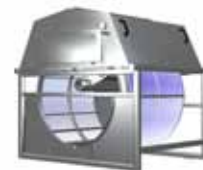
### Facts Discfilter

- ▶ Flow range from 20 to 1000 l/s per filter
- ▶ Filtration is typically 10 to 40 µm



### Facts Drumfilter

- ▶ Flow range from 2 to 1300 l/s per filter
- ▶ Filtration is typically 30 to 500 µm



### Facts Beltfilter

- ▶ Flow range from 1 to 4 l/s per filter
- ▶ Filtration is typically 100 to 3000 µm



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