

HYDROTECH



HDF Drumfilters.
Pure filtration in
tough environments.

HDF
GRP

800/
1600

Pure performance



Recirculation of saltwater in fish farms.

Drumfilters reduce both energy and water consumption in pools.

Hydrotech Drumfilters — best filtration performance in corrosive environments

The Hydrotech Drumfilter is a mechanical, self-cleaning filter specially designed for high performance in systems where it is essential to prevent particles from fragmenting.

The Drumfilter uses a unique design of filter panels that ensures careful handling of solids, which is essential in achieving the high filtration efficiency required in many applications. The Glass fibre Reinforced Plastic (GRP) versions are specifically developed for corrosive environments in sectors such as swimming Pools and aquaculture.

Swimming Pools

The majority of organic pollution in indoor pools is made up of human skin cells. Even though sand filters capture fine particles, infrequent backwashing results in degradation of skin cells and formation of chloramines. They cause that typical smell in indoor pools and some of them are carcinogens. They are formed as a product of nitrogen and active chlorine.

The key benefit of Hydrotech Drumfilters is the removal of organic particles on a continuous basis so there is little for the free chlorine to combine with. Hydrotech Drumfilters backwash a few times every hour and the backwash cycle only lasts a few seconds. The chlorinated by-products are thus significantly reduced creating a much better environment in the pool area.



Human skin cells.

Now compare what happens in a sand filter with a typical backwash each week: the chlorine and organic particles are combining constantly, regardless of swimmer load. Thus the pool water treatment system is a chloramine factory! Increasing sand filter backwash intervals is impractical because the volume of water lost to backwash is significant and costly.

Since we still employ chlorine as the primary disinfectant, we will still generate some chloramines; but only a fraction because most of the organic particles are removed on a continuous basis with the drumfilter. And again, compared to traditional technologies, drumfilters reduce both energy and water consumption.

Aquaculture

For many years corrosion of applied equipment in warm saltwater systems has been a problem. With the new series of Hydrotech Drumfilters, these problems are now eliminated.

Inlet filtration on shrimp farms in South East Asia has shown that there are significantly improved production results by installing micro screens. Feeding increased by 253%, final harvest by 300% and feed conversion was improved by 20%, clearly showing the economic potential in shrimp farming if proper inlet filtration is installed.



Supply of clean water for shrimp farming.

Benefit from these advantages:

- Tanks are made of GRP (Glass fibre Reinforced Plastic).
- Covers are made of ABS plastic for the HDF 800 series and glass fibre for the HDF 1600 series.
- Drums and sludge trough etc, may be made of high alloy steel, but these wetted parts are not so exposed to corrosion.
- Patented filter panels are made of corrosion resistant materials such as polyester and polypropylene, these panels have higher capacities than comparable systems.
- Rinse water system must perform 100% otherwise the capacity of the filter will be reduced. Hydrotech only uses corrosion resistant plastic nozzle tips with ceramic inserts, 30 times more resistant to erosion than steel.

The efficient, reliable way to purer water

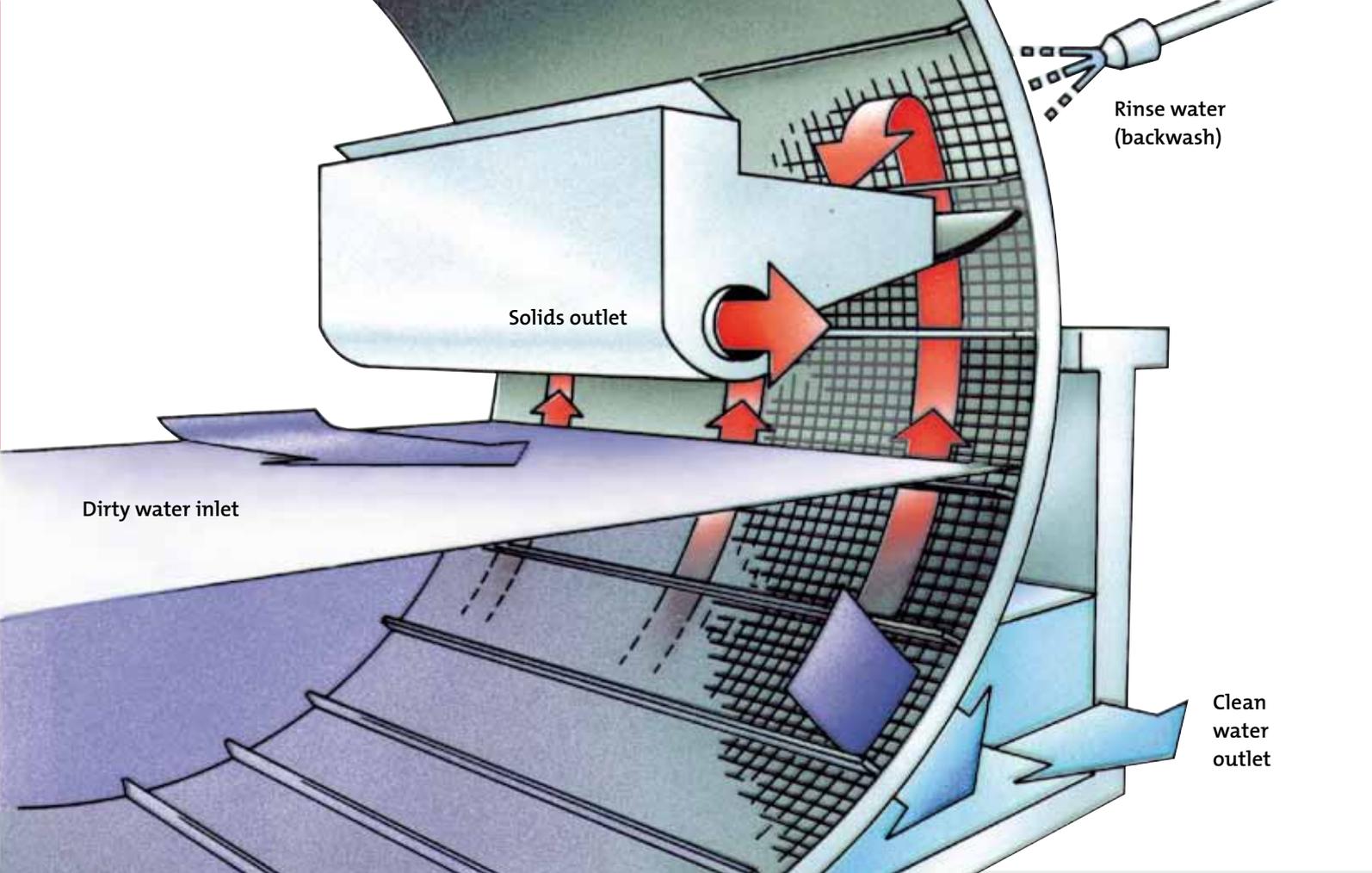
Hydrotech Drumfilters GRP, 1G series

801—803

	HDF 801-1G	HDF 802-1G	HDF 803-1G
Pipe connection Standard, Ø mm	200	250	250
Max flow, standard pipe connection, l/s	30	40	40
Pipe connection Max, Ø mm	250	250	250
Max flow, max pipe connection, l/s	40	40	40
Internal mixed bypass, Standard, Max, l/s	16	16	16
Separate bypass option (extra)	yes	yes	yes
Inlet/outlet flanges (extra)	max DN200	max DN200	max DN200
Flanges, sludge outlet and bypass	NA	NA	NA
Sludge outlet, Ø mm	110	110	110
Bypass, Ø mm	160	160	160

1604—1607

	HDF 1604-1G	HDF 1605-1G	HDF 1606-1G	HDF 1607-1G
Pipe connection Standard Ø, mm	400	400	400	400
Max flow, standard pipe connection, l/s	125	125	125	125
Pipe connection Max Ø, mm	500	500	500	500
Max flow, max pipe connection, l/s	180	180	180	180
Internal mixed bypass, Standard, Max l/s	100	100	100	100
Separate bypass	NA	NA	NA	NA
Max flange connection, Inlet/outlet	DN400	DN400	DN400	DN400
Sludge outlet, Ø mm	110	110	110	110
Flange, sludge outlet (extra)	DN100	DN100	DN100	DN100



Function of Hydrotech Drumfilters

Water to be filtered enters the inside of the drum, and the water is filtered through the drum's filter elements. The difference in water level inside/outside the drum is the deciding factor for the sieving.

Solids are trapped on the filter elements and the cellular structure ensures gentle lifting of the particles

to the backwash area by the rotation of the drum. The backwash is automatically controlled for minimum power and water consumption.

Water from rinse nozzles is sprayed from the outside of the filter elements. The rejected material is washed out of the filter elements into the sludge tray. Sludge leaves the tray by gravity.



HDF 801 IG—803 IG

HDF 1604 IG—1607 IG

Hydrotech

Providing purer water

Pure innovation

Pure performance

Pure savings

Pure reliability

Swedish based Hydrotech is the market leader in microscreening technologies. Microscreening is used as a technique for removing particles from all types of liquid flows. Since its start in 1984, the company has manufactured and delivered around 7,000 microscreening filters worldwide.

Hydrotech recently completed the world's largest installation anywhere in the world, at Gryaab in Gothenburg Sweden.



Hydrotech is 100% focused on filter development and production. Our close co-operation with universities and institutions helps drive forward technological advancements in the area of water filtration.

We are part of Veolia Water Solutions & Technologies, one of the world's leading companies in the area of water purification. The group has more than 338,000 employees worldwide.



We offer Discfilters, Drumfilters and Beltfilters for water filtration. Waterworks, process plants and sewage treatment plants are just some of the areas using Hydrotech's water purification filters.



By building machines with a larger capacity that take up a smaller area, our filters reduce the total installation costs and more water can be filtrated using fewer machines. Our filters also filter during the backwash cycle and are self-cleaning.

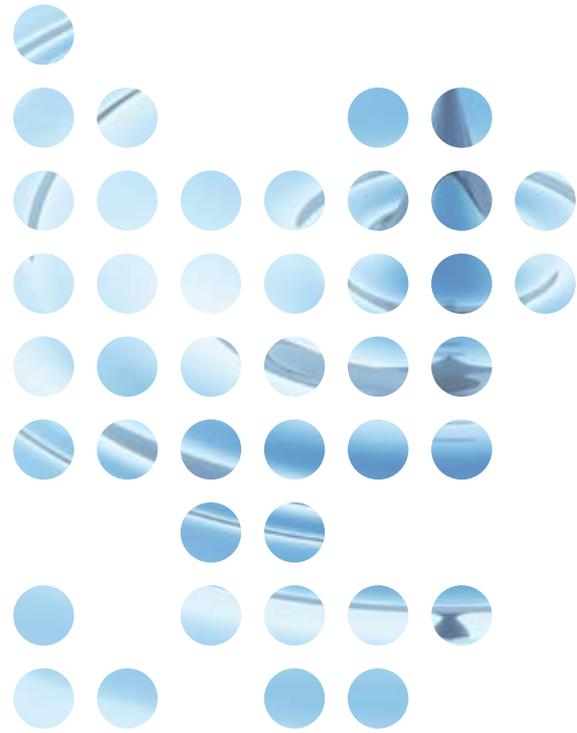
We have researched into how to reduce the carbon footprint of our water treatment processes to make them as sustainable as possible. We consider the emissions related to the materials we use, including construction as well as emissions from operations over a period of 25 years. From this we can calculate how best to reduce carbon footprint to provide our customers with the most environmentally friendly water treatment solution possible.

We always strive to offer a microscreen filter that is more cost efficient than competing systems and with a smaller carbon footprint.



Our filters are built on a proven modular build-on-demand system with short lead-times. We offer a turn-key operation that is easy to transport and assemble in-situ, meaning our filters can be operational extremely quickly. Using mechanical parts and patented processes we have managed to reduce maintenance to an absolute minimum, ensuring a quick return on investment. Our company and its processes are certified according to ISO 9001:2008, assuring the quality you would expect from us.

With over 25 years of offering service to satisfied customers we will gladly supply testimonials from satisfied customers around the world.



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