

**HYDROTECH**

**PAGUS™**   
Technology Inside

**THE NEW STANDARD IN DISC FILTRATION**



# Welcome to the world of filtration

Quality has always been the focus at Swedish-based Hydrotech since the start in 1984. As a key technology provider within the woven media filtration for water applications, we have manufactured and delivered more than 11,000 filter units to improve water quality.

Our filters are used in different applications and market sectors. From municipal water treatment facilities, industrial production, fish farms and any other commercial or public facility that needs water. We make sure you get the water quality you need.

Our first invention was the Triangle filter in the mid-eighties. We introduced the Drum filter in the beginning of the 1990s. It is still sold and copied throughout the world. Our first Disc filter was produced in the mid 1990s.

All these products have revolutionized the woven filtration market.

## **Never compromise on quality**

We focus on uncompromised quality in all stages, from design to manufacturing. Our goal is to deliver the best in water filtration.

We are now introducing a new performance filter equipped with the patented PAGUS™ technology – an innovative Particle Guidance System. This technology along with over 50 product improvements sets a new standard in disc filtration.



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## PAGUS™ Technology

The Hydrotech PAGUS™ Performance Filter series (HPF) is a patented solution for faster particle extraction. The particle guidance system boosts performance and offers a more compact solution. The combination of increased filtration area per filter and PAGUS™ technology reduces the number of units required and offers a smaller physical footprint. The Performance Filter series reduces costs and services times, making it a great choice compared to existing Disc filter solutions.

# Premium is the new standard in Disc filtration technology

## Key advantages

- More than twice as much filtration area per filter unit
- Enhanced extraction of solid particles with PAGUS™ Technology
- Increased filtration capacity with PAGUS™ Technology

## Drum

The new design allows manufacturing in special corrosion-resistant alloys such as Duplex and Super Duplex steel.

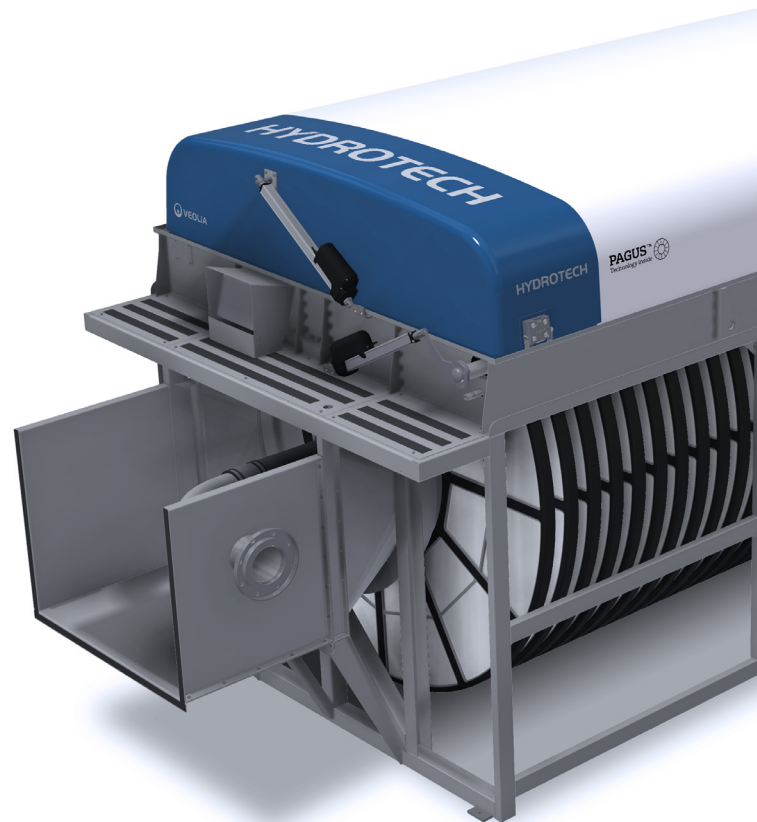
## Disc

A total redesign of the disc offers you better results such as:

- Increased filtration area and smaller footprint per disc
- Parts per disc reduced by 75%, cutting down on maintenance time and cost
- Improved hydraulic design to minimize pressure loss.
- Optimized disc design with PAGUS™ Technology for guidance of backwashed particles
- Simplified process to replace filter panels for easier maintenance
- Enhanced water flow communication between disc segments, between drum and disc and between the disc and the solids trough

## Hydraulic improvements

To minimize undesirable pressure-loss inside the filter unit, the tank/frame, drum and disc have been hydraulically optimized and redesigned.



## PAGUS™

### Particle Guidance system

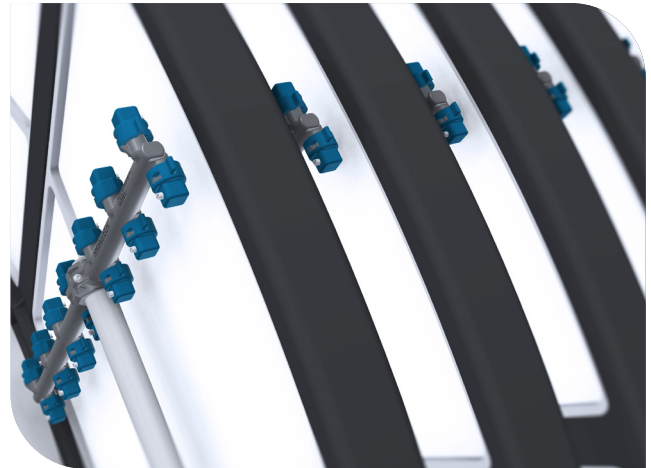
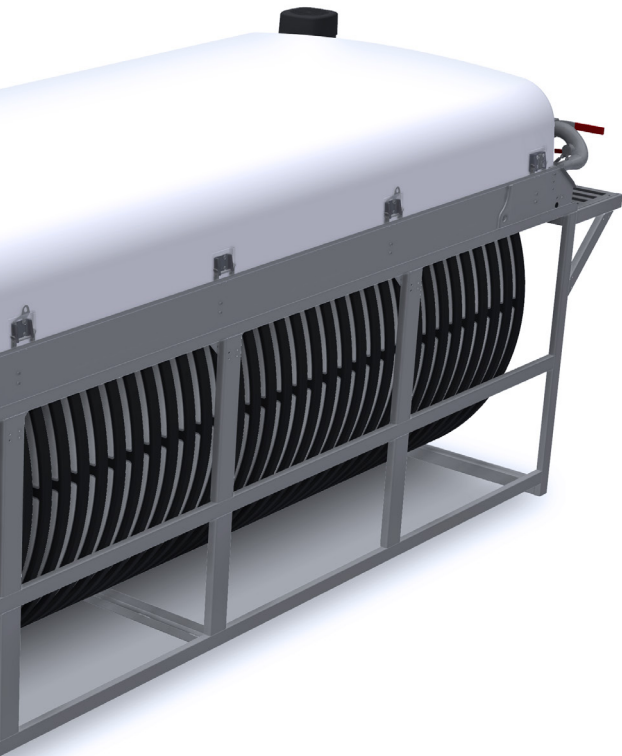
- Optimized disc design for guidance of backwashed particles
- Improved communication between disc segments and drum
- Re-designed and optimized solids trough
- Improved backwash design

## +50 improvements!

Contact your Hydrotech representative to find out more how these new innovations improve your performance.

### Cover

The engineered hinge solution improves installation flexibility and enables the cover to be opened in both directions. This assures full maintenance access on both sides of the filter unit. The new cover is electrically opened and closed, has improved sound isolation, a modern visual design and can be operated manually during a power outage. The one-hood cover removes all possible leakage points. Covers for the HPPF-model selection are made of non-corrosive GRP material.



### Spray bar

The revolutionary redesign of the spray arm includes new benefits:

- Patent pending multiple nozzle holder in lightweight material
- Reduced total spray bar weight
- 50% reduction in the number of parts
- Minimal number of potential leakage points
- Geometrically failsafe design
- Electrically operated spray bar simplifies and minimizes risk during maintenance procedures.
- Manual operation is of course still possible to assure maintenance during a power outage
- Improved cleaning of woven filtration media

### Drive

The remodeled drive system optimizes mechanical operating conditions and reduces chain force – increasing product lifetime. The new, robust, lightweight plastic chain comes with a non-corrosive plastic chain drive, extending product lifetime.

### Solids trough

The new solids trough part of PAGUS™ Technology is specially engineered for enhanced extraction of solids. It is self-supported, has a horizontal top edge and reduced weight. The main part is produced in non-corrosive GRP. Other parts can be made of special corrosion resistant alloys such as Duplex steel.

### Chemical spray bar

The new chemical spray bar is manufactured in a Duplex steel pipe to avoid pipe extension due to temperature variations. It provides increased spray coverage to assure the best possible cleaning of filter media.

### Other improvements

Level transmitters continuously measure level difference, improving performance in larger installations where several filter units are used. A new backwash pressure transmitter is included in projects where the Hydrotech PFLC control cabinet is provided to further enhance filter unit performance.

# Resourcing the world

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