

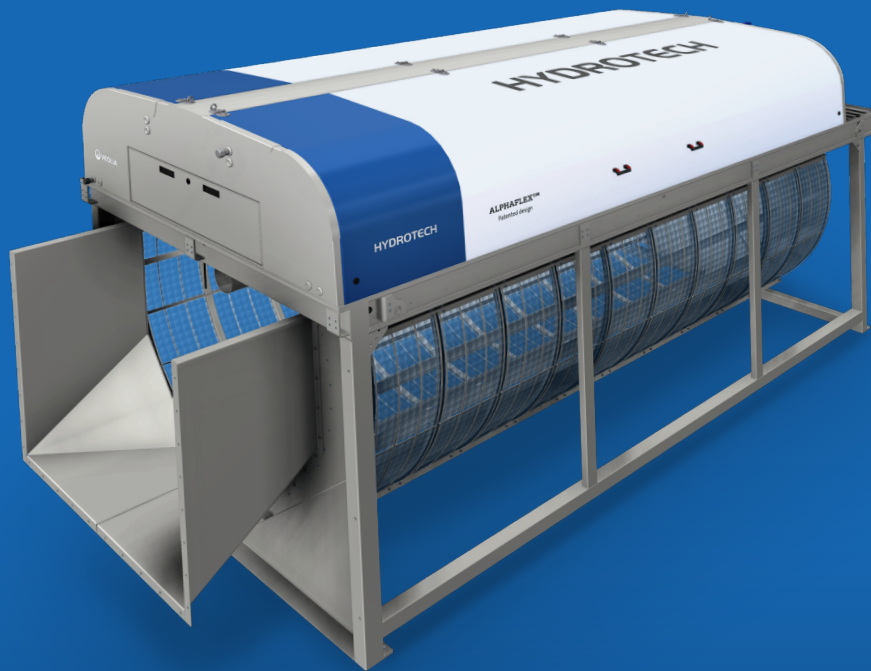
## HYDROTECH VALUE SERIES

**ALPHAFLEX™**  
Patented design

**HYDROTECH**

A NEW GENERATION OF  
COST-EFFICIENT DRUM FILTERS

# Smarter, stronger, more economical drum filters



## More than 50 improvements

The way to become market leader in any industry is to give customers a quality product that fits their exact requirements at the best possible price. That's why we have developed the Hydrotech Value series of drum filters.

The Hydrotech Value drum filter series focuses on reduced maintenance, increased component quality and simplified operation – all to give your plant maximum filtration performance at a minimum operational cost.

Hydrotech Value drum filters offer you features such as brackets, cable ducts and more to make installation and operation as cost-efficient and user-friendly as possible. They are delivered ready for upgrades such as high-pressure washing, chemical pipes, etc., to make customization easy, efficient and cost-effective. There are more than 50 technological improvements on the new Value series, compared to the previous series, that make these filters excellent value for money.

It's never been so economical to produce clean water – something the world will thank you for.

# Water filtration has never been so easy

## Key advantages

- **Unique solids extraction** with patented Hydrotech ALPHAFLEX™ panels combined with improved solids trough design
- Enhanced solids trough design providing **up to 50% larger collection area** and integrated front splash protection
- Communication between ALPHAFLEX™ panels and solids trough enables **faster and more efficient collection of particles** from the water
- **Improved hydraulic design** minimizes undesirable pressure losses
- Custom-made profiles enable manufacturing in **special alloys** such as Duplex and Super Duplex steel
- **New drive arrangement** with less components means a simpler construction that eliminates corrosion problems, reduces maintenance and offers safer operation
- **Automatic lubrication** of main bearing and support wheels for almost maintenance-free operation and greater efficiency

## Hydraulic improvements

To minimize undesirable pressure-loss inside the filter unit, the filter inlet is completely open without any hydraulically interfering objects providing a smooth optimized inlet flow.

## Cover

Developed for better operator access and easier maintenance with large hinged hatches equipped with gas springs on both sides of the filter unit. The cover frame design provides unique protection of gas springs when cover is closed.

## High pressure cleaning system

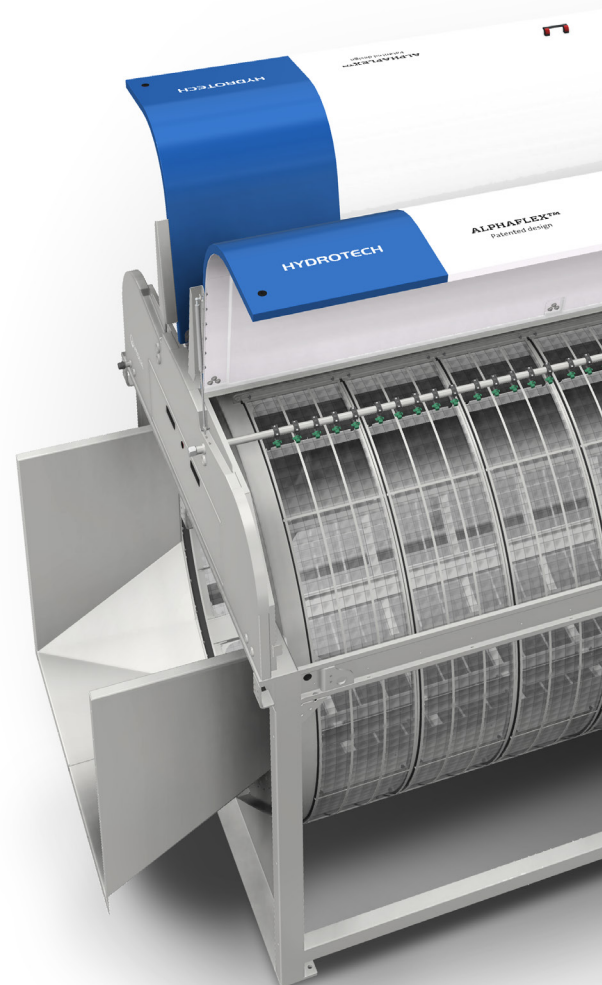
Filter prepared for the improved high pressure cleaning system that ensures the filter cloth is clean, works with maximum capacity and reduces the need for chemical rinsing.

## Solids trough

More efficient sludge collection catching particles faster and more efficiently with up to 50% larger collection area. The self-supported solids trough eliminates need for support struts placed in the filter inlet, providing more optimized hydraulic design and minimizing accumulation of sludge/particles.

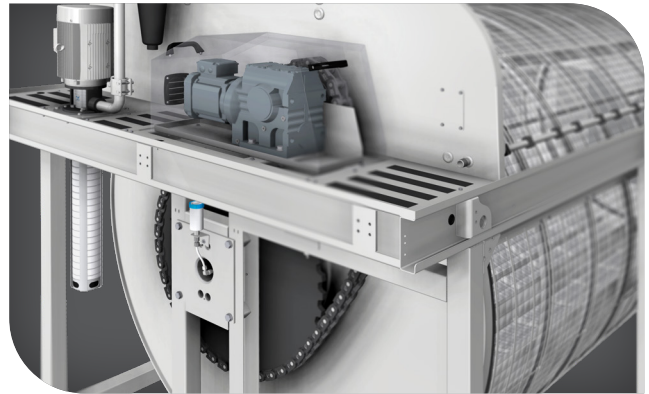
## Splash protection

Prepared for installing protective splash guards to prevent leakage and splashes for easier maintenance.



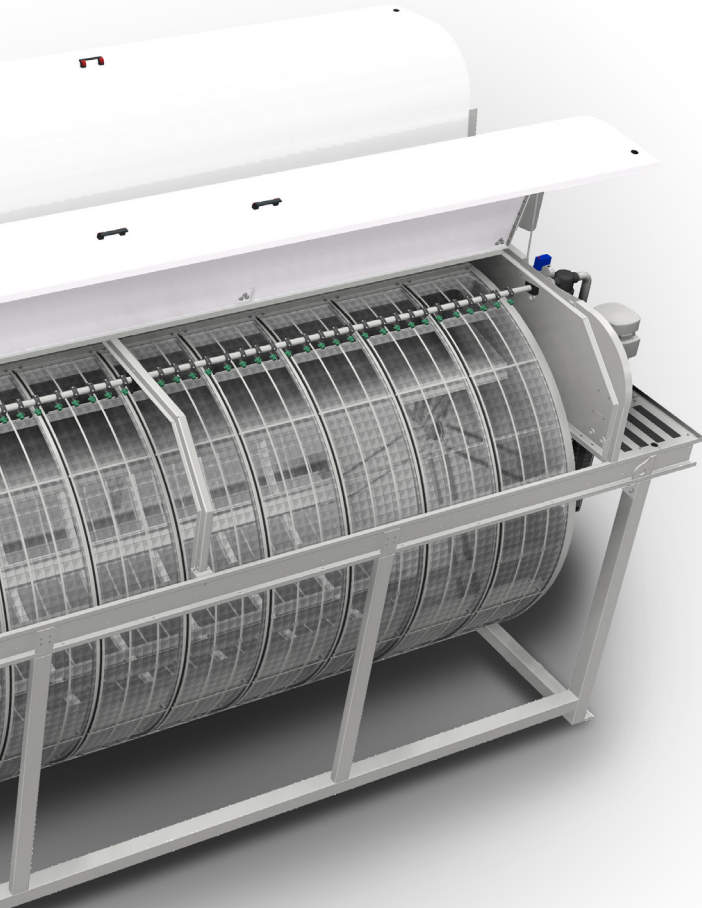
## Drive

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



## Filter panels with integrated gasket

Filter panel equipped with integrated gasket for easy, fast assembly and replacement. Together with the stronger filter panel fastening strap it minimizes the risk of leakage between drum and filter panel and increases panel durability.



## Chemical spray bar

Improved chemical cleaning by using a new cleaning sequence to prevent water from being contaminated by chemical cleaning agents. The new chemical spray bar is also manufactured in a Duplex steel pipe to avoid pipe extension due to temperature variations.



## Self cleaning spray nozzles

Patented self-cleaning, corrosion resistant nozzles for more flexible installation and reduced maintenance.

## Frame/Level tank

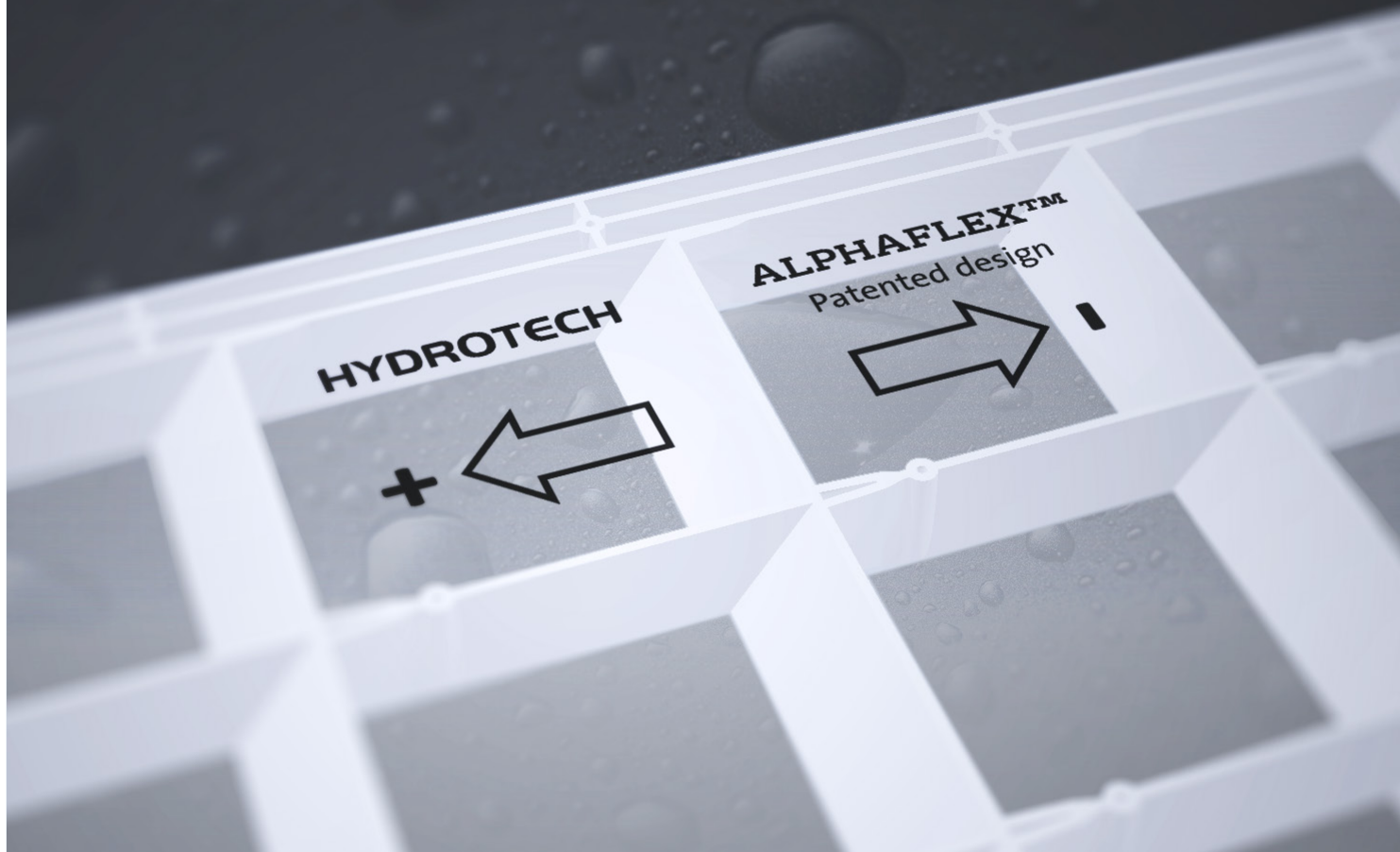
Innovative design for increased quality and durability, lower installation costs and higher hydraulic capacity. The filter unit is engineered to eliminate dead zones to minimize risk of sludge accumulation.



## Influent connection

Filter unit prepared for either: open inlet, inlet channel or flexible docking inlet (more forgiving to concrete deviations)

# The ALPHAFLEX™ Filter Panel



## Increasing drum filter capacity by up to 20%

The Hydrotech ALPHAFLEX™ panel is a breakthrough in designing filter panels. It increases the capacity of existing drum filters by up to 20% and saves up to 95% of the water in the solids trough picked up by traditional filter panels.

### **More filtration – less energy**

The combination of having some panels lifting and some releasing saves energy and water. This is achieved by angling the horizontal walls, making it easy to determine how much water the ALPHAFLEX™ filter panel should lift into the solids trough. The panel can be oriented to lifting or dropping, depending on the type of application you are using. By using angled walls the ALPHAFLEX™ filter panel quickly picks up undissolved particles that may be left inside the drum filter. This flexibility means it can be easily adapted to your current system needs.

### **Fast, easy assembly and replacement**

The ALPHAFLEX™ filter panel is equipped with an integrated rubber gasket for fast, easy assembly and replacement, minimizing the risk of leakage between the drum and filter panel.

Backward compatible with most drum filters, and fitting existing Hydrotech type drum filter panels, ALPHAFLEX™ has a larger filtration area and absorbs more particles than other alternatives on the market, and a given retrofit opportunity for already installed filters.

# Hydrotech Process Engineering Team

## Solving your filter and environmental challenges

The Hydrotech Process Engineering Team consists of skilled scientists with the estimation tools and experience to assess the specific requirements of your plant and suggest the appropriate technical solution to keep it working at optimum capacity. We even test the latest media in our filters to ensure they filter more solids or treat more flow with less footprint.

In addition, we offer digital monitoring and control systems to ensure your plant operates at maximum efficiency – where you can check performance on your phone and take informed actions from anywhere and at any time.

We offer service and quality parts on demand through our local offices and partners worldwide. All to make sure your operation runs productively and efficiently.

For more information contact your Hydrotech representative or go to [hydrotech.se](http://hydrotech.se)

## Resourcing the world

Hydrotech • Veolia Water Technologies  
Mejselgatan 6 • 235 32 Vellinge  
Office: +46 (0)40 42 95 30  
[www.hydrotech.se](http://www.hydrotech.se)