

FIBRE DISCFILTER

advanced filtration technology



FILTRATION AND BACKWASH OF THE DYNACLOTH

Filtration process

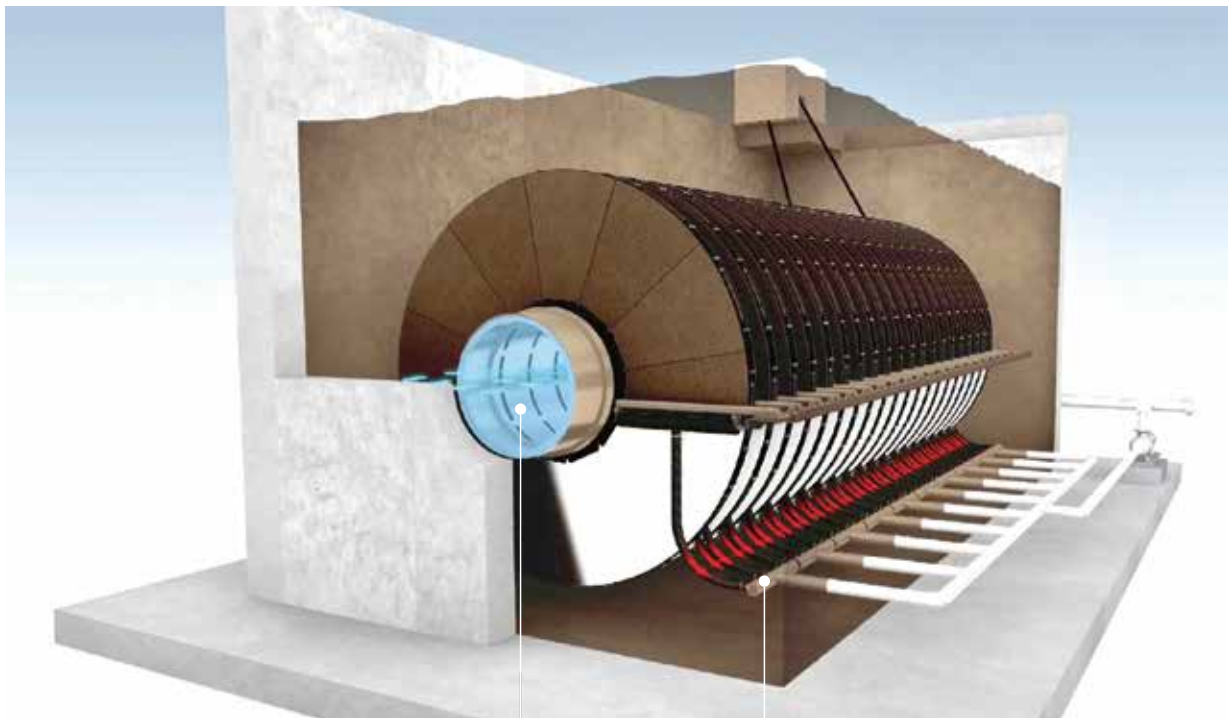
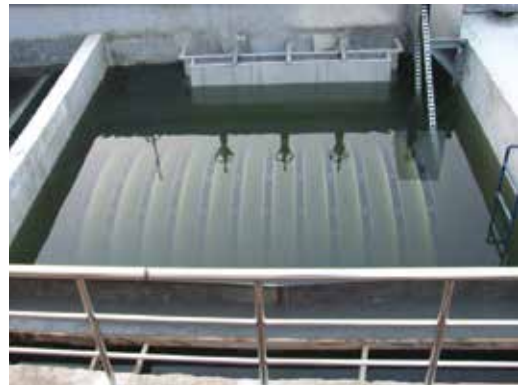
Water to be filtered flows by gravity into the filter passing from the outside to the inside through the pile cloth fibre media. Suspended solids and other contaminants in the water are accumulated on the outside of the fibre media and the water level inside the filter begins to rise.

Backwash process

The backwash process is started by the water level sensor or timer. During the backwash process, the disc rotates and the solids are removed by spray and or suction cleaning. The collected solids are discharged through the solid collection system. During the backwash process, the DynaCloth operates without stopping the filtration.

Discharge of sludge

The solids that settle at the bottom of the tank are accumulated and discharged by pump at preset cycles. During the discharge process, the DynaCloth operates without stopping the filtration.



Discharge of treated water
(final effluent)

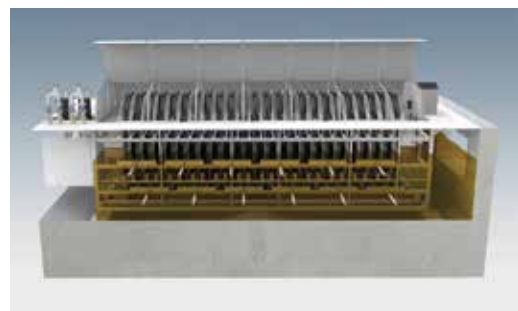
Discharge of backwash water
suction cleaning

ADVANTAGES OF THE DYNACLOTH

- Efficient removal of SS, BOD, P, etc. by a combination of sieve filtration and depth filtration.
- Produces high quality final effluent less than 10 mg/l SS.
- A wide range of models is available to meet all customers' needs.
- The fibre media is very easy to inspect and replace.
- More than 10 years of R&D on the fibre media cloth ensures efficient and reliable filtration.
- Stable and continuous operation due to the cleaning of the fibre media with a specialized cleaning device and an automatic self-cleaning nozzles.
- A continuous filtration process reduces the need for standby units.
- Compact design – reduced footprint.
- Gravity flow through the filter.
- Low head loss (50-250 mm).
- Low volumes of reject backwash water, typically 1-3 %.

MAIN APPLICATIONS

- Tertiary treatment, removal of SS and BOD from waste water.
- Filtration for reuse of water etc.
- Pre-treatment of river and lake water and algae removal.
- Industrial filtration water, cooling water, agriculture, cooling water for power plants and steel manufacturing plants, etc.
- Pre-treatment for advanced processes (activated carbon, ion tower, ozone, UV) and R/O, N/F.
- Primary treatment of wastewater in place of clarifiers.
- CSO applications.
- P removal in combination with co-precipitation
- P removal with one or two stage chemical pre-treatment.



55 % submerged



100 % submerged

LOOK TO US FOR SETTLING, SCREENING AND FILTRATION SOLUTIONS

As pioneers of inclined plate settling, continuous backwash filtration and microscreening, Nordic Water, is a leader in providing proven filtration solutions for water and wastewater treatment industries. Through

intelligent engineering and advanced technology, our single components and packaged systems deliver a reliable filtration and superior separation that will meet or exceed your expectations.

OTHER PRODUCTS FROM NORDIC WATER:

- DynaSand™ Filters
- DynaDisc™ Disc Filters
- Lamella™ Separator Compact Plate Settlers
- Zickert™ Sludge Scrapers and basin equipment
- Meva™ Screens and screenings treatment equipment
- Sobyte TD Belt Filters

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