AQUA-AEROBIC SYSTEMS, INC.

Aqua MegaDisk™

CLOTH MEDIA FILTER

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The Aqua MegaDisk™ tertiary filter "expands" on the reliability and exceptional performance of the original AquaDisk® filter, but on a larger scale. The Aqua MegaDisk offers larger diameter disks and fewer mechanical components than the AquaDisk filter. The result is the smallest footprint available, operating in 80% less space than sand filters with comparable hydraulic capacity.

Features and Advantages

- Utilizes OptiFiber® cloth filtration media
- Each disk is approx. 10' in diameter, the largest cloth disk available
- Up to 24 disks in a single filter, capable of treating 24 MGD
- Fewer filters required; resulting in lower capital and operating costs
- Low energy consumption with no moving parts, except during the backwash mode
- Fewer pumps and valves required means lower maintenance costs
- PLC based control system for automatic operation
- Ideal for deep bed filter retrofits, new plants and expansions

Aqua MegaDisk™ filter (left) next to an AquaDisk® filter (right).

Typical Applications

- Tertiary treatment
- Reuse/recycle
- Phosphorus removal
- Stormwater

Modes of Operation

Filtration Mode

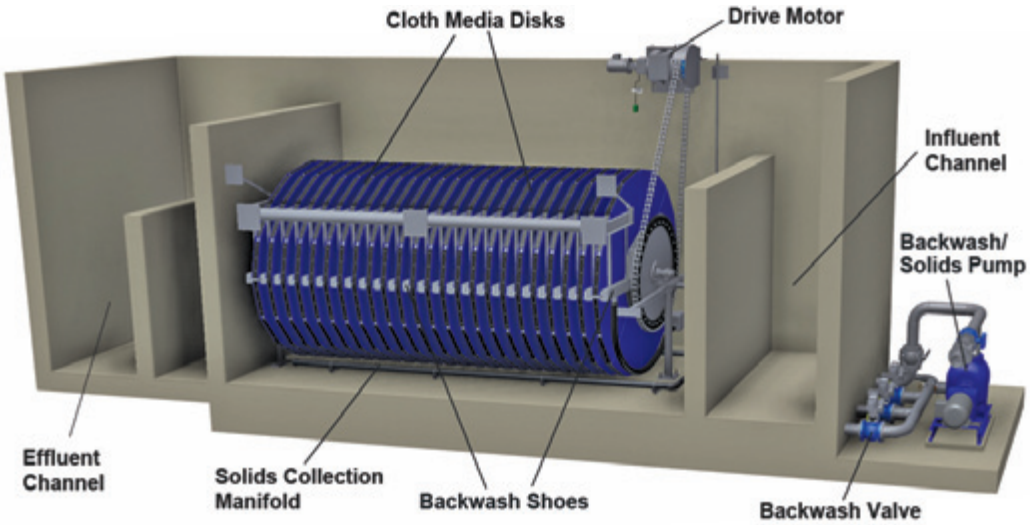
- Inlet wastewater enters the filter by gravity via the Influent Channel
- Stationary Cloth Media Disks are completely submerged
- Wastewater flows through the Cloth Media Disks as solids are retained and stored within the depth of the pile cloth
- Gravity conveys the filtrate, collected in the hollow center tube, to the Effluent Channel
- Heavier solids settle to the tank bottom

Backwash Mode

- Cloth Media Disks are automatically backwashed clean
- Disks rotate slowly for cleaning as filtration continues uninterrupted
- Backwash Shoes contact the cloth media directly and solids are removed by vacuum pressure from the Backwash/Solids Pump
- Backwash water is directed to the headworks

Solids Wasting Mode

- Backwash/Solids Pump provides suction to the Solids Collection Manifold for wasting of settled solids



Visit our website to learn more about the Aqua MegaDisk™ Cloth Media Filter and our complete line of products and services.

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