

OptiFiber[®] Cloth Media Filtration

Primary Filtration & Wet Weather Pilot System



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

System Features and Advantages

Technology pilot demonstrations can be beneficial to wastewater treatment plants and wet weather systems by providing a snapshot of essential process operating conditions and allowing the customer to interact with the technology and factory personnel.

Aqua-Aerobic Systems has completed extensive testing in applying Pile Cloth Media Filtration for primary filtration that can also replace primary clarifiers as a wet weather treatment system. This testing has shown substantial TSS and BOD reduction to the secondary process and within a smaller footprint compared to traditional primary clarifiers.

The OptiFiber® Primary Filtration Pilot System is available to demonstrate this technology at treatment facilities across the country that are looking for an efficient and cost-effective solution for primary filtration and wet weather treatment.

Advantages

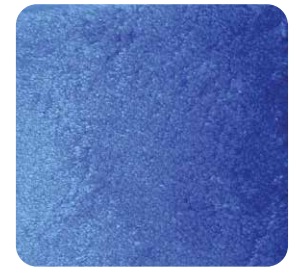
- Totally enclosed, drop-deck trailer housing a full-scale Aqua MiniDisk® cloth media filter with monitoring and analytical equipment
- On-board SCADA system with data logging and remote access
- Customized filter design for primary and wet weather treatment
- Enhanced solids settling zone below cloth media disk
- Flexibility to test pretreatment options including chemical addition and flocculation
- Specialized scum removal system
- Outside-in filtration
- OptiFiber PES-14® (Microfiber) pile cloth filtration media and other application specific media are available for testing

Industry Leading Pilot Services

- Customized Test Protocol: Outlines performance objectives and testing methods
- Services of an experienced Aqua-Aerobic pilot unit technician from start to finish for:
 - Supervised placement of the cloth media pilot trailer and necessary hydraulic and electronic connections
 - Process and mechanical operation of the pilot equipment for the duration of the test
 - Sampling, laboratory testing and analysis
 - Training plant personnel on operation and maintenance of the pilot unit
 - Decommissioning of the pilot unit at the close of testing
- A comprehensive pilot study report which includes:
 - Daily operating conditions
 - Influent and effluent turbidity charts
 - Influent and backwash flow rates
 - Particle size, suspended solids, phosphorus analysis (including speciation)
 - Other specific data, per customer request

Applications

- Primary Filtration
- Primary Effluent Filtration
- Stormwater
- CSO
- SSO
- High Solids Applications (Municipal and Industrial)



OptiFiber PES-14®



A single Aqua MiniDisk® is utilized in the filtration tank.



External view of the compact filter tank using OptiFiber® pile cloth media.



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www.aqua-aerobic.com

6306 N. Alpine Road, Loves Park, IL 61111-7655
p 815.654.2501 | f 815.654.2508 | solutions@aqua-aerobic.com

The information contained herein relative to data, dimensions and recommendations as to size, power and assembly are for purpose of estimation only. These values should not be assumed to be universally applicable to specific design problems. Particular designs, installations and plants may call for specific requirements. Consult Aqua-Aerobic Systems, Inc. for exact recommendations or specific needs. Patents Apply.