

OptiFiber®

Cloth Media Filtration

Pilot System



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

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Since the early 1990's, Aqua-Aerobic was first to introduce cloth media filtration technology and continues to lead through innovation and experience. We offer more application and cloth media construction knowledge than any other supplier offering fabric media or microscreens. Technology pilot demonstrations can be beneficial to wastewater treatment plants by providing a snapshot of essential process operating conditions and allowing the customer to interact with the technology and factory personnel. The OptiFiber® Cloth Media Filtration Pilot System provides our customers with the most comprehensive on-site testing and analytical services available. Our unique approach is designed to provide prompt operational feedback, allowing immediate fine tuning of operating parameters for the most effective pilot/demonstration experience.

Features and Advantages

- Totally enclosed, drop-deck trailer housing a full-scale 1-disk Aqua MiniDisk® cloth media filter with monitoring and analyzing equipment
- OptiFiber PA2-13®, OptiFiber PES-13® (chlorine resistant) and OptiFiber PES-14® (Microfiber) pile cloth media available for testing
- Flexible variable speed influent pump for custom influent needs
- Supervisory Control and Data Acquisition (SCADA) system
- Integrated, fully equipped laboratory for on-site analysis
- Industry leading filter pilot services including test protocol, Aqua-Aerobic pilot technician, and comprehensive pilot study report



Controls and monitoring equipment



1-disk Aqua MiniDisk® filter

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 electrical 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

Contact Aqua-Aerobic Systems to design a customized OptiFiber Cloth Media Filtration Pilot Study for your specific application.

Filtration, Monitoring, and Analysis

- Influent and waste flow meters
- Chemical feed and flocculation systems
- Influent pump with VFD control to vary hydraulic loading rates, and pH adjustment prior to the filter
- Influent and effluent online turbidimeters
- Spectrophotometer for phosphorus analysis and speciation
- Phipps and Bird jar tester
- 1-disk Aqua MiniDisk cloth media filter
- Control system with SCADA for continuous monitoring and recording of process data
- Laboratory for on-site analysis of most operating parameters



OptiFiber® cloth media pilot trailer



Fully-equipped laboratory

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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.