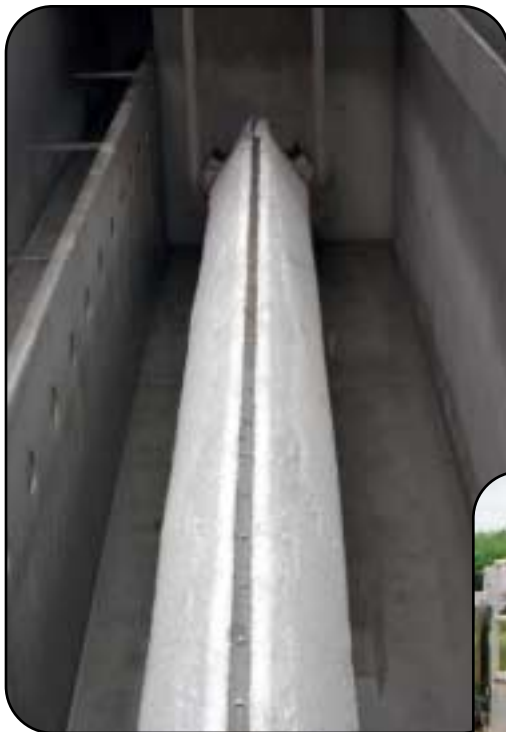


introducing...

the AquaDiamond™

Cloth Media Filter



Applications

- Hydraulic flows over 9 MGD
- Retrofit of existing traveling bridge sand filter basins
- New plants
- Reuse
- Phosphorus removal
- Tertiary filtration



Features

- Patented PA-13 pile cloth filter media
- Unique diamond configuration for maximum filtration surface area in a smaller footprint
- Fewer mechanical components
- Continuous filtration during backwash
- Durable corrosion resistant materials of construction
- Four-wheel drive platform designed for better traction and guidance
- Single pump design
- State-of-the-art control system

Advantages

- Cost-effective for systems over 9.0 mgd
- Significantly increase hydraulic capacity in a smaller footprint
- Reuse quality effluent; proven consistently better effluent quality than sand filters
- Lower backwash rates
- Retrofit existing concrete traveling bridge filters with minimal civil work
- Eliminates sand media and underdrain maintenance
- Expandability

The AquaDiamond™ filter is the latest in filtration from the leaders in cloth media technology, Aqua-Aerobic Systems, Inc. Like its contemporaries, the AquaDisk® filter, Aqua MiniDisk™ filter, and AquaDrum™ filter, this configuration utilizes PA-13 pile cloth filtration media to consistently maximize solids removal while minimizing life cycle costs.

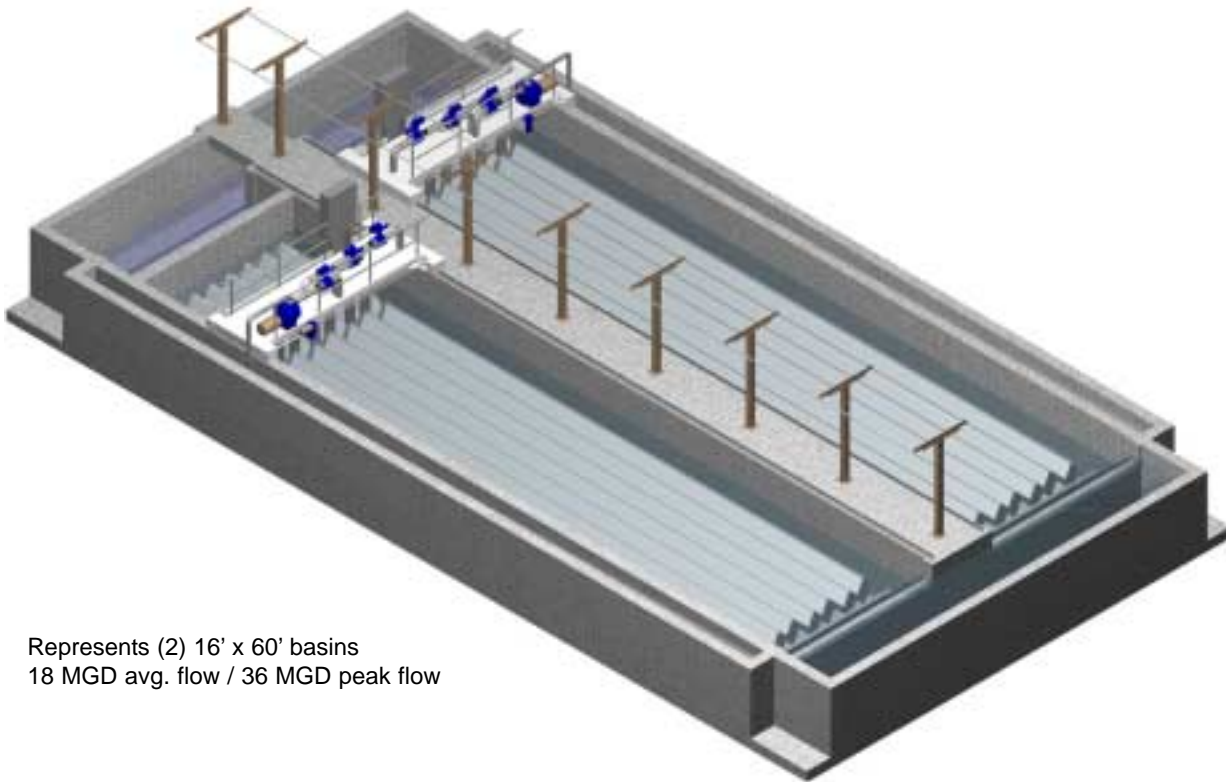
The low profile AquaDiamond™ filter combines cloth media filtration with improved traveling bridge filter design to provide a unique solution for new applications or retrofitting existing filters.

Operation

Inlet wastewater enters the filter basin and flows through the PA-13 pile cloth media from the outside to the inside. Solids are retained on the filter media while filtrate flows from the interior of the diamond to the outlet via the internal conduit formed by the diamond walls. As solids build-up on the filter media, headloss increases and the differential water level between the inlet and outlet also increases. Once the headloss reaches a pre-determined level, a filter cleaning cycle is automatically initiated.

A mobile platform containing the backwash mechanisms slowly moves across the filter basin, removing the solids layer from the filter media through liquid suction on all four sides of each diamond. The diamonds remain stationary and filtration is not interrupted during the cleaning cycle. The solids obtained from the cleaning process are returned to one of the preceding process stages. In addition, any solids which settle in the bottom of the basin will be pumped back to the designated solids collection area.

Typical AquaDiamond™ Filter Model



Represents (2) 16' x 60' basins
18 MGD avg. flow / 36 MGD peak flow

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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. Patents Pending.

