

# The Best in Phosphorus Removal.

## Using Two Proven Technologies

### AquaSBR® Sequencing Batch Reactor



### AquaDisk® Cloth Media Filter



Discharge limits for phosphorus removal are more stringent than ever and pose a definite challenge for treatment plants. The degree of removal required by

a facility is determined by the quality of the receiving stream. Although a high degree of phosphorus removal can be achieved with a more sophisticated secondary treatment process such as an AquaSBR system, some plants require phosphorus levels to be less than 1.0 mg/l. In this case, tertiary treatment is essential and even lower levels can be achieved with the AquaDisk cloth media filter.

## Significant Nutrient Reduction



The AquaSBR sequencing batch reactor is an activated sludge process in which all phases of treatment are accomplished within a single reactor.

This true-batch system is proven to be an efficient, reliable means of wastewater treatment, capable of producing a high quality effluent with respect to BOD, TSS, Total Nitrogen and Phosphorus. In typical municipal wastewater, a limit of 1.0 mg/l of phosphorus can be accomplished.

## Exceptional Effluent Polishing



The AquaDisk filter uses pile cloth media consisting of abundant individual fibers that provide solids storage depth. The pile media permits clarified influent to

pass through each stationary hollow disk while solids collect on the surface of the media. The filter is typically used in conjunction with chemical addition to the SBR system to easily achieve phosphorus levels of less than 1.0 mg/l, and has consistently met effluent as low as 0.1 mg/l. This unique cloth media filter has been shown to produce higher quality effluent with respect to TSS, Turbidity and Phosphorus.

## Optimum Phosphorus Removal

When used in combination, the AquaSBR system and AquaDisk filter offer optimum phosphorus removal. In addition significant benefits of space savings, less operator attention, less maintenance requirements, and low lifecycle cost can be provided compared to other treatment methods. For existing wastewater plants that currently operate a less efficient secondary treatment process where achieving low levels of phosphorus is a challenge, the AquaDisk filter can simply be integrated into the existing treatment scheme.



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