

# SCHREIBER® FuzzyFilter



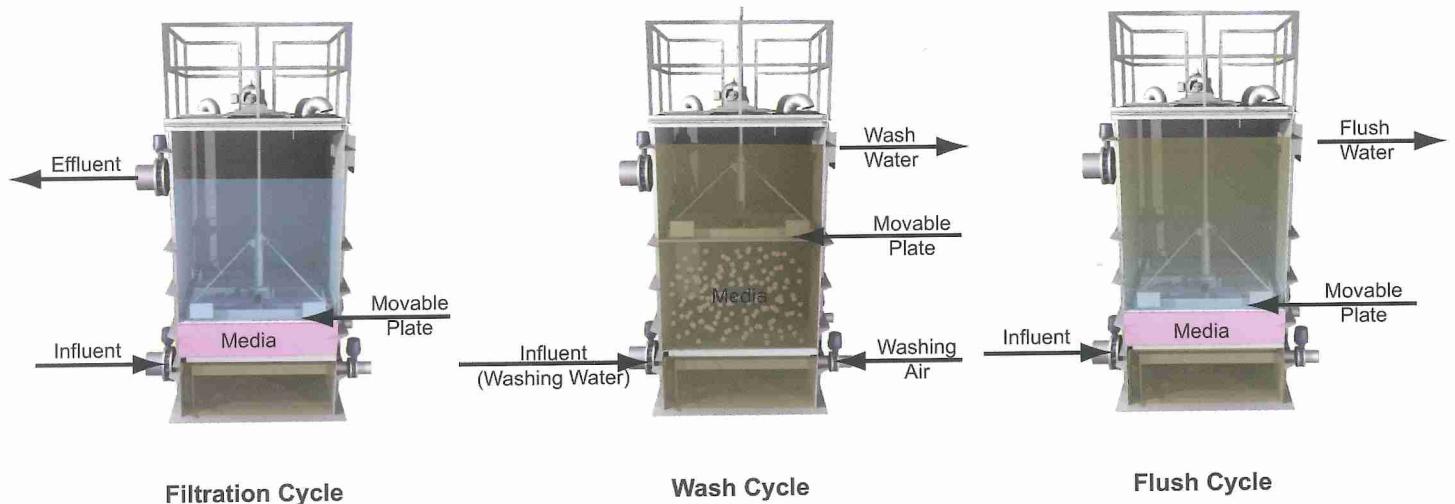
A unique innovative system  
for filtration rates of 30  
gpm/ft<sup>2</sup> and up.

# SCHREIBER FuzzyFilter

The Schreiber *Fuzzy Filter* is an innovative and cost effective compressible media filter for water and wastewater treatment systems. The *Fuzzy Filter* system is compact, modular, and easily adaptable for numerous applications. The square configuration *Fuzzy Filter*, operating in an upflow design, achieves an exceptionally

high rate of solids removal through the use of compressible synthetic fiber spheres. The low density and high porosity of the media result in more solids captured per volume of media. Because the filter media is compressible, the porosity of the filter bed can be altered to suit influent characteristics. The filter media also represents a departure from conventional filter media in that the fluids to be filtered flow through the media as opposed to flowing around the media as in sand and anthracite filters. These innovative features permit dramatically higher hydraulic loadings of 30 GPM/ft<sup>2</sup> of media and greater. Other filtration systems are typically limited to loadings of only 2 to 6 GPM/ft<sup>2</sup>.

The *Fuzzy Filter* utilizes air scouring in the wash cycle to clean the media. During the wash cycle, influent continues to enter the filter (filtered water is not necessary for washing) while an external blower supplies air in the bottom of the chamber to violently agitate the media. The media, which is retained between two perforated plates, is subjected to vigorous air scouring to free captured solids. Freed solids continuously exit the filter by wash water passing through the vessel. After the washing cycle, the media is returned to its compressed state and filtration is resumed.



## PILOT TESTING

Schreiber maintains *Fuzzy Filter* pilot units for testing and demonstration purposes.

## VALIDATION

Accepted for California Water Recycling Criteria (Title 22).

## SIZES

The Fuzzy Filter is available in 18", 2', 3', 4', 5', 6', 7', & 8' square units. Correspondingly, the Fuzzy Filter handles flows ranging from 0.10 MGD (18" filter) to 2.8 MGD (8' filter) at a loading rate of 30 GPM/ft<sup>2</sup>. In addition to upflow filters, the Fuzzy Filter is also available in downflow configurations, both gravity and pressure operation.

## FEATURES

- High flow rate (30 GPM/ft<sup>2</sup> and greater)
- Low operating costs
- Ease of installation
- Dramatic space savings
- Completely enclosed structure
- Low wash water usage (1-2%)
- High solids capacity
- Flexibility through media bed compression
- No media loss
- Media life in excess of 10 years

## APPLICATIONS

- Tertiary treatment
- Pre-filtration for reverse osmosis
- Cooling tower water
- Water reclamation/reuse
- Reclaimed water from food processing
- Pulp and paper process water
- Wet weather flows (CSO/SSO)
- Membrane Backwash Water