

# MEDIA RETENTION SCREEN

## TECHNICAL SPECIFICATIONS

AquaPoint media retention screens are designed to retain AquaCELL™ biofilm carriers in the appropriate reactor basin and allow for the passage of effluent and suspended solids to the next stage of the treatment process. Media screens are cylindrical or flat plate and are provided as flange mounted units or housed in an effluent tee for easy removal.

As biofilm carriers move throughout the water column in an aerated or mixed basin they regularly contact the media retention screen(s) and scour the surface to prevent biomass accumulation in the screen orifices. Thus the screens do not typically require manual cleaning.

### MATERIALS OF CONSTRUCTION

AquaPoint media retention screens and support brackets are manufactured of AISI 304L stainless steel. Removable screens are housed in stainless steel or PVC effluent tees.

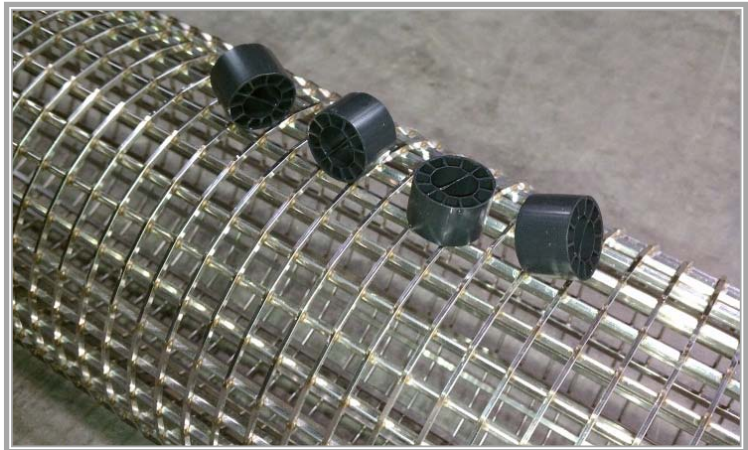
### SCREEN CHARACTERISTICS

Screens shall be all welded, continuous slot profile 93V wedge wire. Inlet slots shall widen inward from the screen surface so as to minimize the entrapment of debris in the openings.

- Maximum Screen Head Loss: < 1"
- Design Capacity: Site Specific
- Minimum Open Space: > 70%
- Maximum Loading Rate: < 35 gal/min/sqft
- Maximum Screen Slot Opening: 0.375" sq
- Minimum Free Board: 18"
- Maximum Length to Diameter Ratio: 10:1
- Minimum Distance from Tank Wall: 1 dia



*Flange Mounted Media Retention Screens*



*Biofilm Carriers & Media Retention Screen*



*Removable Media Retention Screen*