



# BIO-PAC<sup>®</sup> SF30

Media for Trickling Filters, Submerged Beds  
and Anaerobic Reactors

- ▶ Preferred media for replacing rock media in existing trickling filters
- ▶ Manufactured of reprocessed UV stabilized polypropylene for long life
- ▶ Used extensively in anaerobic and aerobic submerged attached growth reactors
- ▶ Low installation costs

We are **Raschig USA** and we supply media for biological treatment systems for industrial and municipal water and wastewater treatment facilities around the world.

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Fixed Film Technology  
for Wastewater Treatment

## BIO-PAC® SF30

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and Anaerobic Reactors

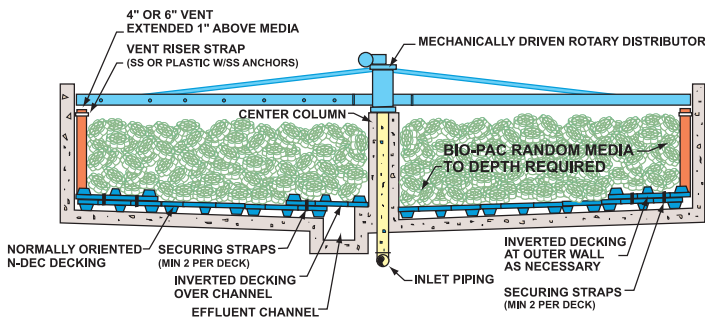
### PRODUCT APPLICATION

#### Trickling Filters

Bio-Pac SF30 is ideally suited for either replacing rock in existing trickling filters to improve treatment plant performance or for installation in new trickling filters.

With over 300 mixing and redistribution points for both air and water per cubic foot of media, Bio-Pac SF30 is capable of redistributing wastewater every 2" of media depth. This feature makes Bio-Pac SF30 ideal for shallow trickling filters.

*Typical Bio-Pac SF30 Trickling Filter Section*



### PRODUCT APPLICATION

#### Anaerobic and Aerobic Submerged Bed Reactors

Bio-Pac SF30 has been used extensively in upflow anaerobic and aerobic submerged bed reactors. Since the media floats, use of an underdrain support is eliminated. Furthermore, Bio-Pac's unique shape serves as a foam breaker when installed in anaerobic reactors.



*Adding media to shallow trickling filter (N-Dec 330 shown here.)*

### SUPPORT SYSTEM

#### N-Dec Random Media Underdrain

N-Dec is manufactured of HDPE including carbon black to minimize ultra-violet degradation. The panels are strong and light weight, but flexible enough to allow self contouring to variations in the trickling filter floor.



*N-Dec 110*

N-Dec provides unimpeded passage of air, wastewater, biomass and solids, virtually eliminating the risk of ponding or blockage.

Each panel includes 9 intrinsic equally spaced legs. Each leg measures 5½ inches high, allowing space for treated effluent and air.

### MEDIA CHARACTERISTICS & ADVANTAGES:

- ▶ 30 ft<sup>2</sup>/ft<sup>3</sup> surface area
- ▶ 95% void ratio
- ▶ Manufactured of reprocessed UV stabilized polypropylene
- ▶ Low installation cost
- ▶ Excellent for BOD reduction or nitrification
- ▶ Low minimum wetting rate, 150 gpd/ft<sup>2</sup>
- ▶ For bed depths up to 30 ft.

**Contact us today to review your project  
application and find out how we can  
be of service to you.**

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