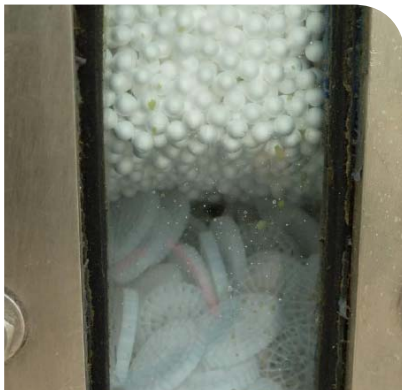


BIOSTYR® DUO

The powerful combination of MBBR and BIOSTYR®



Benefits

- More treatment in the same footprint
- Minimal change in headloss
- Less stringent primary removal required upstream
- MBBR media provides an additional barrier to retain BIOSTYRENE™ media



Adding More Surface Area

In BIOSTYR® DUO, MBBR media is added in series with the BIOSTYRENE™ beads. These two stages of treatment in a single reactor provide for additional loading and removal than the traditional BIOSTYR. In the traditional BIOSTYR system, there is a 5-foot expansion zone below the buoyant BIOSTYRENE media. By filling this zone with AnoxKaldnes K5 media, the combined BIOSTYR DUO system can be loaded at higher rates for NH₄-N, COD, and TSS removal. The BIOSTYR DUO system can therefore treat more wastewater in a smaller footprint and saves on the total constructed cost of the treatment system.



Easy, Energy-Efficient Operation

BIOSTYR DUO has all the all the operational advantages of traditional BIOSTYR:

- Fully automated operation
- System is simple to run
- Little to no operator intervention is required
- Gravity-driven backwash saves energy

PRIMARY SETTLER WITH CHEMICALS

PRIMARY SETTLER
+ CHEMICALS

+ BIOSTYR C&N 10 cells Reference

PRIMARY SETTLER
+ CHEMICALS

+ BIOSTYR DUO C&N 6 cells More compact

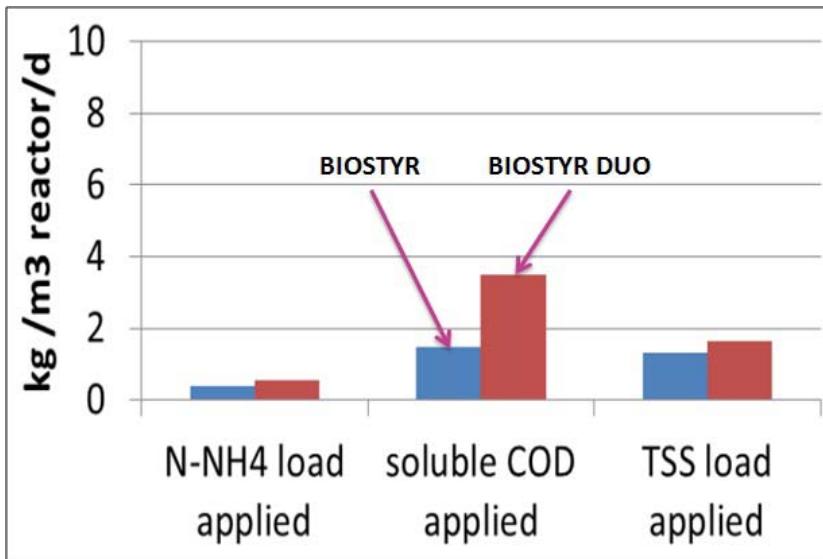
PRIMARY WITHOUT CHEMICALS

PRIMARY SETTLER

+ BIOSTYR DUO C&N 8 cells Lower OPEX

DRUMFILTER

+ BIOSTYR DUO C&N 8 cells Lower OPEX



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