

## Why choose an AST Filter?



*AST Filters provide over 99% net water production.*

- ✓ **Greatest Treatment Capability:** The AST Filter is unique as it provides both TSS removal and biological treatment in the same vessel.
- ✓ **Greatest Value:** AST Filters are the least expensive, simplest way to move a wastewater treatment facility from out-of-compliance into compliance. They also allow for an economical expansion of existing facilities.
- ✓ **Highly Efficient Solids Capture:** They have a superior solids capture ability with nearly 100% of particles 50 microns or larger removed, and they remove 30% of particles in the 5-10 micron range.
- ✓ **Very Simple and Inexpensive to Operate:** Low startup and O&M costs, and no controls. The only adjustment is a knob to adjust the air supply.
- ✓ **Very Small Footprint:** AST Filters have the footprint of a disk filter, but also accomplish biological treatment.
- ✓ **It's Proven:** There are 1000's of installations throughout North America.

### Special Features

- Backwashes without a pump
- High Ammonia conversion rates
- Can handle very high influent TSS (>1000 mg/l)
- Can remove TSS, BOD, COD, heavy metals, and provide nitrification and denitrification
- Resistant to biofouling, LDPE media lasts decades
- Low headloss
- Can run unattended by operators for days/weeks

### AST Filter Applications

- Secondary clarification
- Tertiary filtration
- Ammonia polishing
- Denitrification
- Reuse
- Phosphorus polishing



*Individual filtration units handle flows up to 2 MGD.*



*The specially designed plastic beads allow for excellent biofilm growth, low headloss and never need replacing.*

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