

BioMix™ Compressed Gas Mixing System

AERATED SLUDGE TANKS

BioMix provides uniform mixing of tank contents by firing **programmed, short-duration bursts of compressed air through patented, engineered nozzles** located near the tank floor. The mixing parameters may be adjusted to optimize mixing and power utilization, either through operator input or automated process feedback.



Castle Rock, CO

KEY ADVANTAGES FOR AERATED SLUDGE TANKS:



Energy Efficiency:

- Ability to mix at less than 20% of the energy compared to jet or diffused air mixing
- Comparative energy savings increase with increased depth and solids concentration applications



Unparalleled Flexibility:

- Mixing suitable for uniformly mixing sludge at nearly any concentration
- Ideal for sloped floor or conical tank bottom configuration, thereby eliminating dead zones below aeration system
- No low water level limitations — able to mix at any depth



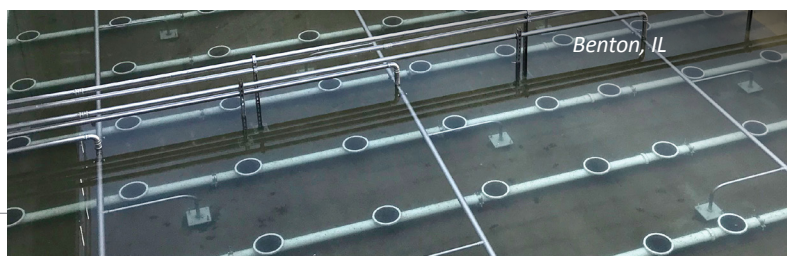
Process Optimization:

- Seamless integration with aeration equipment
- De-coupled aeration from mixing facilitates independent control over oxygen delivery and mixing
- Ability to operate concurrent or independent of aeration for optimized process conditions



Straightforward Operation:

- Non-clogging, maintenance free components in the tank
- Mixing operation that can be manually controlled or initiated by process instrumentation feedback



Benton, IL