

BioMix™ Compressed Gas Mixing System

BNR SELECTORS

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



KEY ADVANTAGES FOR BIOLOGICAL NUTRIENT REMOVAL (BNR):



Energy Efficiency:

- 50-60% or greater energy savings compared to mechanical mixing



Process Optimization:

- Complete mixing with proven negligible oxygen transfer
- Easy integration with aeration equipment for swing zone applications, minimal load stress on other process equipment
- Guaranteed uniform mixing with onsite performance testing



Unparalleled Flexibility:

- Install options for anaerobic, anoxic, swing zone, aerobic, and deoxygenation tanks
- Variable mixing intensity based on process parameters



Straightforward Operation:

- No mechanical or electrical components in the wastewater
- Greatly reduced amount of operating equipment to be maintained
- Non-clogging, self-cleaning components in tank
- 100% redundancy with standby compressor
- Optional PLC backup with Zombie® controller



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TO DISCUSS HOW BIOMIX CAN OPTIMIZE YOUR MIXING SOLUTION FOR BNR.