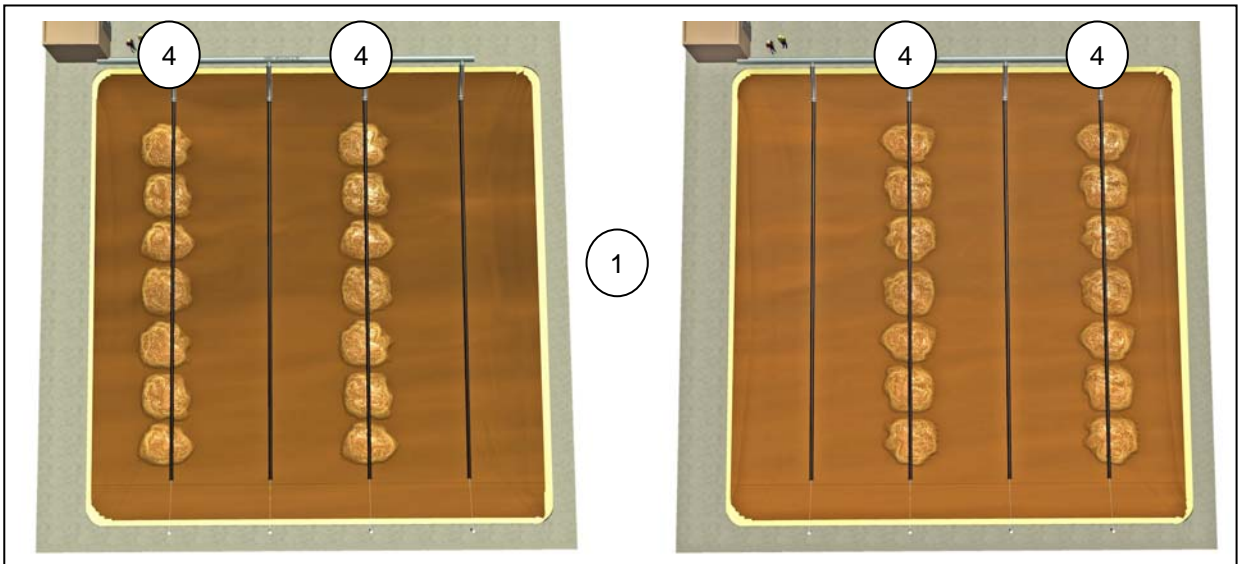


EDI BioMizer™ System

Innovative Sequencing Aeration for Maximum Energy Efficiency

- Reduce operating energy requirements up to 75% in mixing limited applications
- Enhance total nitrogen removal in nitrifying systems
- High degree of process flexibility with field adjustable mixing zones
- User friendly PLC interface
- Low maintenance reliable electrical motor actuated valves
- Mixing limited aeration application



1. Complete Mix Basin
2. Electrical Motor Actuated Valves
3. BioMizer™ Programmable Logic Controller
4. Adjustable Mixing Zones



PRODUCT SPECIFICATION SHEET

Environmental Dynamics Inc. offers the patented BioMizer™ sequencing aeration system for optimizing the operating efficiency and performance of biological treatment systems. Ideal applications for the BioMizer technology include the following applications:

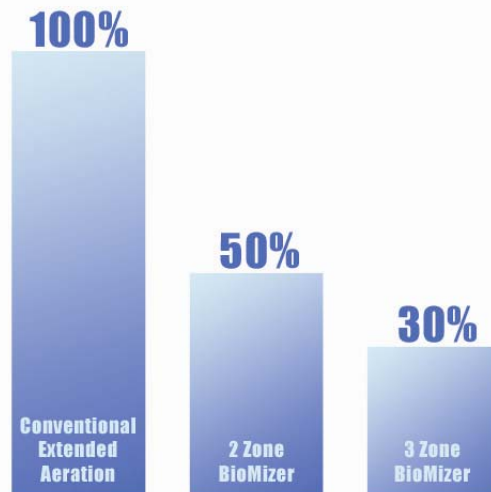
- Extended aeration or other low f/m activated sludge systems
- Nitrification systems
- Denitrification systems
- Aerobic digesters
- Equalization basins
- Complete mix aerated lagoons

The BioMizer technology is an innovative concept emphasizing the use of high efficiency diffuser systems in a broad range of applications including mixing limited applications and nutrient reduction systems.

Total system process control is achieved through the use of a programmable BioMizer sequencing controller and multiple aeration zones within the system.

Unlike conventional aeration systems that continuously aerate the entire reactor volume, the BioMizer system sequentially operates defined zones within the system. This allows the aeration and mixing intensity in the active zone to be adjusted to satisfy the specific requirements of process independent.

EDI Patent # 5,133,876



Process Energy Requirements

By decoupling aeration and mixing, the system air requirement may now be adjusted based on oxygenation requirements only. For mixing limited applications including complete mix aerated lagoons and extended aeration activated sludge plants, the BioMizer system has the potential to reduce the overall operating energy requirement for the system by as much as 75 percent.

The BioMizer technology also has applications in nitrifying plants where supplemental control of nutrients is desired. Operating the system at a low dissolved oxygen condition in combination with sequential operation of aeration zones provides for full nitrification and substantial denitrification with no additional reactors or process equipment. Optimizing process conditions for denitrification provides numerous benefits in addition to nutrient control including alkalinity recovery and lower operating energy requirements.



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