



THE EXPERIENCED LEADER IN SEQUENCING BATCH REACTOR TECHNOLOGY

The Fluidyne ISAM™ SBR system provides the following benefits,

1. Ability to handle highly variable flows and loading associated with the small flow plants. The ISAM™ is more flexible than continuous flow plants. Regardless of flows or loading, aeration and mixing can automatically be adjusted to optimize power and prohibit filamentous growth.
2. At high flows, solids cannot wash out as with extended aeration plants as the ISAM™ system has quiescent settle and decant.
3. ISAM™ facilities are easily expandable by adding a new tank. The additional tank does not require major changes in controls; only a new tank and associated equipment.
4. ISAM™ provides a small footprint with no digesters, secondary clarifiers, RAS piping and pumping.
5. ISAM™ produces the highest quality effluent. Typical Fluidyne ISAM™ facilities are achieving less than 10 mg/l BOD and TSS, less than 1 mg/l NH₃-N, less than 5 mg/l total N, and less than 2 mg/l phosphorous.
6. Easy to operate and maintain as mechanical equipment is minimized with no chasing of sludge associated with extended aeration plants.
7. Use of self-aspirating jet aerators eliminate blowers and blower accessories.
8. Built in sludge reduction system using the Anaerobic Conditioner/Trash Trap significantly reduces sludge handling and hauling costs.
9. 100% stand-by aerator is included with the system to allow continuous operation with one unit out of service.
10. Built in flow equalization is provided in the ISAM™ reactor to handle peak hours.
11. Automatic scum skimming prior to effluent discharge provides highest quality effluent.
12. Exceptional after sales service by Fluidyne technicians. Fluidyne employees have been granted over 40 patents in wastewater and water treatment technology and equipment.
13. Reduced operation and maintenance costs as power usage is controlled through the Fluidyne control panel.
14. Installed cost is lower as the system comes with the in-basin equipment pre-installed
15. The Anaerobic Conditioner/Trash Trap is covered and raw wastewater reacts immediately with mixed liquor in an aerated environment, there are no odor concerns.

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