

SEQUENCING BATCH REACTORS WASTEWATER TREATMENT SYSTEMS

Light Environmental's sequencing batch reactor engineered wastewater treatment systems are many in number and process configurations. The engineered sequencing batch reactor process is highly efficient with wide ranges of wastewater characteristics that can be treated.

The activated sludge sequencing batch reactor (SBR) process performs the same treatment steps as a conventional activated sludge process. They both accomplish aeration, sedimentation, and clarification; however, a sequencing batch reactor system does not utilize continuous flow.



The sequencing batch reactor process of activated sludge treatment is accomplished in a single tank, through sequencing stages. This eliminates additional tanks and the need to waste and/or return sludge. The processes which the wastewater undergoes in sequencing order are: fill, react (aeration), settle, decant (removal of the clarified effluent), and idle. The complete cycle most usually occurs two to six times a day in each SBR tank.

Advantages to our Sequencing Batch Reactor Process:

- Lower costs than conventional methods
- Less land space required
- Consistent high quality effluent
- High tolerance for wide swings in flow and organic loading
- No separate clarifier required
- Controls filamentous growth
- Nutrient removal without chemicals
- Simple sludge process management
- Less equipment to maintain
- Less operator attention required

Benefits of our Sequencing Batch Reactor Solution:

- Light Environmental custom designed packages
- All aeration and mixing equipment is removable without dewatering reactor
- Variable power level control for both aeration and mixing functions
- No scheduled maintenance for any underwater equipment items
- Standard hardware parts used to build and drive process equipment
- Nearly unlimited flexibility and adjustment, manual or automatic
- Simple and easy to understand control functions make operator training easy

Learn More

To learn more about our Sequencing Batch Reactor Solution or any of our other wastewater solutions, please visit our web site at www.lightenvironmental.com or call our Corporate Sales Office at: 1-816-537-9190.

We look forward to providing your next wastewater solution.

LIGHT ENVIRONMENTAL, INC.

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