

DEVOUR™ WASTEWATER TREATMENT SYSTEM

Light Environmental's Devour™ System is an exciting state-of-the-art patented wastewater treatment solution that significantly reduces the organic solids generated in the wastewater treatment process.

The key to the technology is the Biomass Tower that utilizes next-generation biological wastewater treatment technology. The process breaks down wastewater using hundreds of suspended biofilm carriers which provide an active surface area sustaining autotrophic and heterotrophic bacteria within secure cells.



This thriving community of bacteria produces a high rate of biodegradation activity inside the biomass tower, while offering process efficiency, automation and a resiliency uncommon in other wastewater treatment systems.

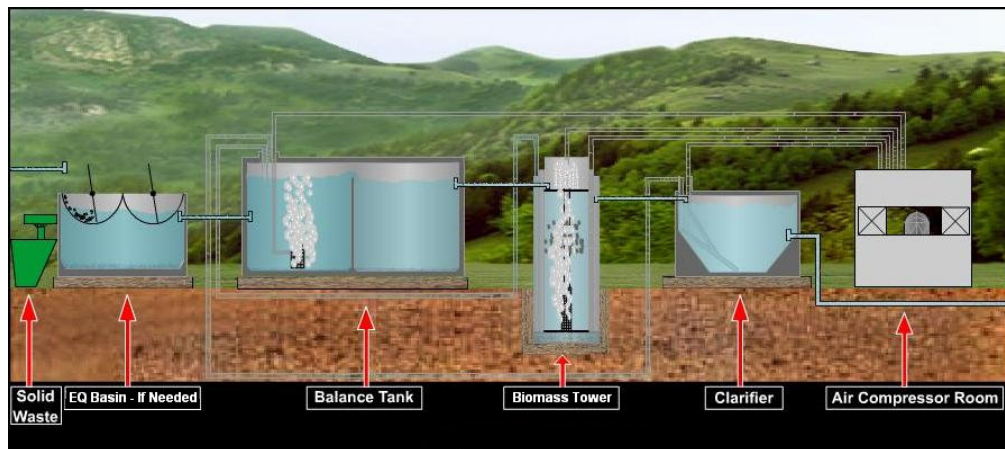
The Devour™ Wastewater Treatment Process is Ideal for:

- New wastewater treatment plants
- Existing plants looking to expand or upgrade
- Plants with high energy costs
- Plants with high operation and maintenance costs

Advantages to our Devour™ System:

- Small surface area required for the plant which lowers acquisition cost for land.
- Very low power consumption.
- Fewer components required to construct the system lowers capital investment.
- **Low operation and maintenance cost**
 - Little or no organic sludge generated unlike 99% of all other wastewater treatment systems. Low biomass production as a result of the biological processing of the influent. This low biomass production yields low cost of biomass disposal.
 - No chemicals for operation required.
 - Our plant requires less than 50% of the “normal testing cycle” in order to operate, as compared to a conventional wastewater treatment plant.
 - Our plant requires less than 75% of the “normal maintenance” due to the significant decrease of activated sludge generated by the wastewater plant.

- **Effectively treated effluent** guaranteed at < 5 mg/l on BOD and TSS.
- **Full automation and monitoring of process parameters**; plant operates without full-time personnel systems.
- **State-of-the-art construction materials**; glass fused metal tanks; HDPE for HBS; HDPE for in-line units.
- **Scalability of the plant capacity**; modular construction eases expansion.
- **Convertibility**; system can be dismantled and re-assembled on new location without damaging the structural elements, providing you with economical alternatives.
- **Odor-free**; odor is eliminated due to high concentration of the dissolved oxygen entering the system. Plant can be built close to the source.
- **Environmental Friendly**; lower power, less land, reduced odor.



Devour™ Wastewater Treatment System Diagram

Learn More

To learn more about our Devour™ System 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.