

*MO-DAD SYSTEMS:
WHAT ARE THEY AND HOW DO THY WORK?*

BIOLOGICAL PROCESS DESCRIPTION:

The MO-DAD Wastewater Treatment System is an economical alternative for use in treating domestic wastewater generated by normal household activities. The process is base on a single-tank, dual-chamber, extended aeration activated sludge system, which is capable of producing an effluent, which meets applicable state discharge standards.

Raw wastewater flows first into an aeration zone and, depending on the model, the treated water flows into a clarifier (Two chamber system) or is channeled into a secondary aeration zone (Three chamber system) where the aerobic process is repeated before going to the clarifier. The oxygen supplied by the aeration system, along with the organic matter in the wastewater creates an ideal environment for the growth of aerobic micro-organisms. The organisms convert the waste organic material into gases and additional micro-organism cell material. In addition to supplying oxygen, the aeration system keeps the contents of the aeration zone well mixed to provide optimum exposure of the micro-organisms to the waste material. The action of the beneficial micro-organisms also results in a significant reduction in pathogenic bacteria.

After approximately 24 hours of detainment in the aeration zone, the mixture enters the clarifier where quiescent conditions enable separation of the micro-organisms, which are returned to the aeration zone, and discharge of the treated wastewater through the tee pipe assembly. Effluent may be discharged to a ditch or to a new or existing drain field, whichever is required by the local health official.

TO ENSURE PROPER OPERATION OF SYSTEM:

- 1. Do not add strong detergents, disinfectants, or bleaches (other than very small amounts used in daily household cleaning and laundries) to the system.*
- 2. Do not allow discharge from any type of water softeners or similar equipment into system.*
- 3. Do not allow any disposable items such as: diapers, tampons, sanitary napkins, large quantities of paper products, tobacco products, or similar items in system.*
- 4. Do not allow coffee grounds, chemical waste, oils, or grease (such as cooking grease) into system.*
- 5. Do not allow nests to build up around air pump. This can damage electrical components in the air pump and the alarm panel.*
- 6. To prevent extra maintenance problems maintain grass and shrubs around system.*

RECOMMEND SYSTEM ADDITIVES:

- 1. ClearStrike - can be added to your system once every six months. It will serve as a shock treatment and help to break up greasy build-ups.*
- 2. BluGuard - can be added monthly to your system. It will fortify and stimulate biological growth and help deodorize septic smells.*

TROUBLESHOOTING SYSTEM:

If you notice a strong consistent septic odor from the discharge of your system check the following

- 1. Air Pump: Make certain that the Air Pump is functioning properly (the Air Pump is critical to the proper operation of the system).*
- 2. Alarm Panel: Function check Alarm Panel to make certain that the warning light and the audible alarm are working properly.*

Local installers and service providers for sewer systems:

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