



PREFABRICATED, PACKAGED WASTEWATER TREATMENT SYSTEMS



WASTEWATER TREATMENT INDUSTRY

AEROMIX Systems, Inc. is performing a vital role in the wastewater treatment industry. Today this industry is being recognized as crucial to our world in order to maintain our present way of life and improve the environment in which we live. To answer this need, Aeromix Systems, Inc. is backed by decades of experienced corporate personnel and has developed a highly efficient wastewater treatment system that will produce the quality effluent our environment requires.

HOW THEY ARE USED

The Aeromix Systems, Inc. Wastewater Treatment Package Plant is a unique intermediate size biological wastewater treatment system. The system is designed and engineered specifically for those small complexes of people who are temporarily or permanently residing outside the reach of municipal waste disposal systems. Typical applications are for:

- Suburban Subdivisions, Mobile Home Parks, Motels
- Housing Developments and Resort Areas
- Recreational Facilities
- Highway Rest Areas
- Power Stations
- Apartment Complexes
- Military Posts

OUTSTANDING FEATURES

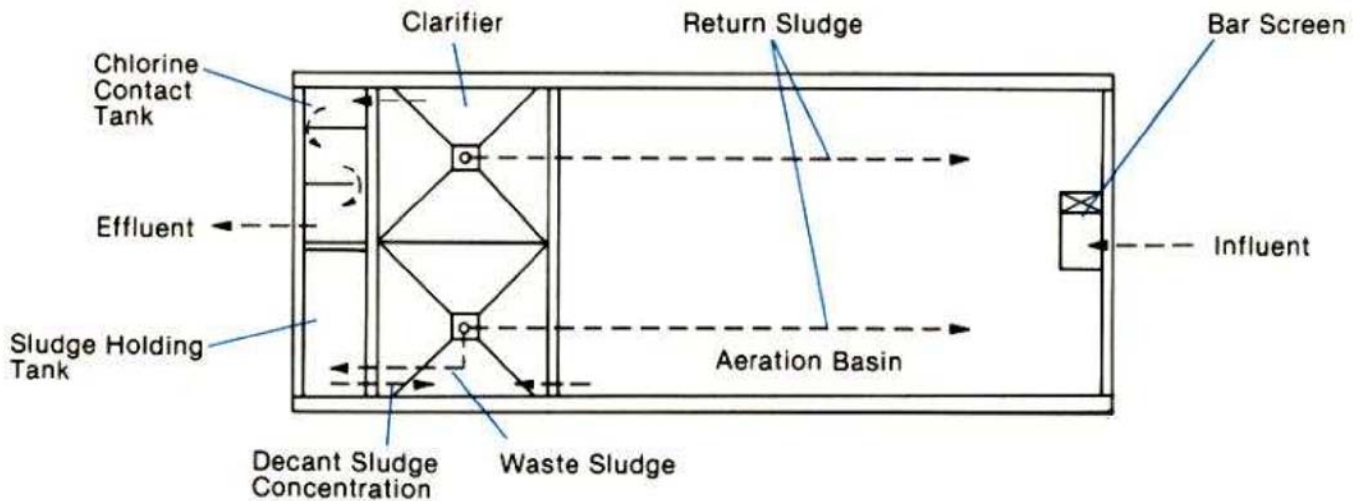
Aeromix Systems, Inc. Package Plants are compact and self contained. They can be installed both below and above grade with a minimum of installation expenses. The facilities are portable and reusable. Since they are relatively small in size (determined by amount of flow) and odor-free, they can be installed at almost any location, and painted or landscaped to match the surrounding area. Several other features of Aeromix Systems, Inc. Package Plants systems are:

- High Degree of Treatment (85-98% + BOD₅ Removal)
- Low Maintenance Cost
- Ease of Installation

FACTS ABOUT THE PROCESS

The Aeromix Systems, Inc. Package Plant System is a type of biological treatment for domestic waste using the extended aeration process. The extended aeration process was devised many years ago by wastewater treatment plant operators responsible for operation of conventional municipal activated sludge type systems under low flow and high BOD₅ loadings. They found that utilizing extended aeration a high quality effluent could be achieved. The basic design included extended aeration (approx. 18-24 hours) in concert with a defined settling period (approx. 4 hours). Theoretically, the extended aeration process purifies the wastewater by consumption of the organic compounds using air to oxidize the volatile material (both solid & liquid) into inert gases, water & sludge. By continued aeration of these concentrated solids, biological organisms are produced and grow in colonies. The colonies will attach themselves to the volatile materials breaking it down into water, carbon dioxide, and ash, the result being a clear and odor free effluent.

FLOW DIAGRAM



AEROMIX Systems, Inc. Package Plant Systems are designed to meet your effluent requirements. They are delivered to our customer as portable packages complete as is practicable in sizes from 1,000 to 150,000 GPD. Standard items include:

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|--------------------------------|---|
| A. Aeration Chamber | F. Effluent Weir |
| B. Clarifier | G. Inlet & Outlet Flanges |
| C. Blower units with Controls | H. Cathodic Corrosion Protection (for below grade plants) |
| D. Air Manifold with Diffusers | I. Scum Skimmers |
| E. Sludge Return System | J. All Necessary Baffling |

