

EXTENDED AERATION PACKAGE PLANTS

‘For Economy, Ease of Installation and Simplicity of Operation’

A Prefabricated Plant Adapted to Your Needs

Extended Aeration plants provide a low cost, odor and nuisance-free Sewage Treatment Plant that produces a high degree of treatment. Extended aeration treatment plants are used across Canada, the US and around the world to provide simple and effective wastewater treatment.

Please call us for details on how we can build, install, and/or operate a package plant that is tailored to your needs and budget.

Key Features

- Economy
- Ease of Installation
- Simplicity of Operation ÿ Proven Reliability
- Fulfils Regulatory Requirements

The Package Treatment Plant is ideal for any location unable to connect to municipal sewer systems.

Sample Applications

- Small Communities
- Mining Construction Camps
- Pulp & Paper Construction Camps
- Schools
- Motels and Resorts
- Golf Courses
- Housing Developments
- Mobile Home Communities ÿ Trailer Camps
- Recreational Camps
- Hospitals
- Shopping Malls
- Industrial Parks & Factories
- High Strength Industrial Waste
- Municipal Sewer Pre-treatment

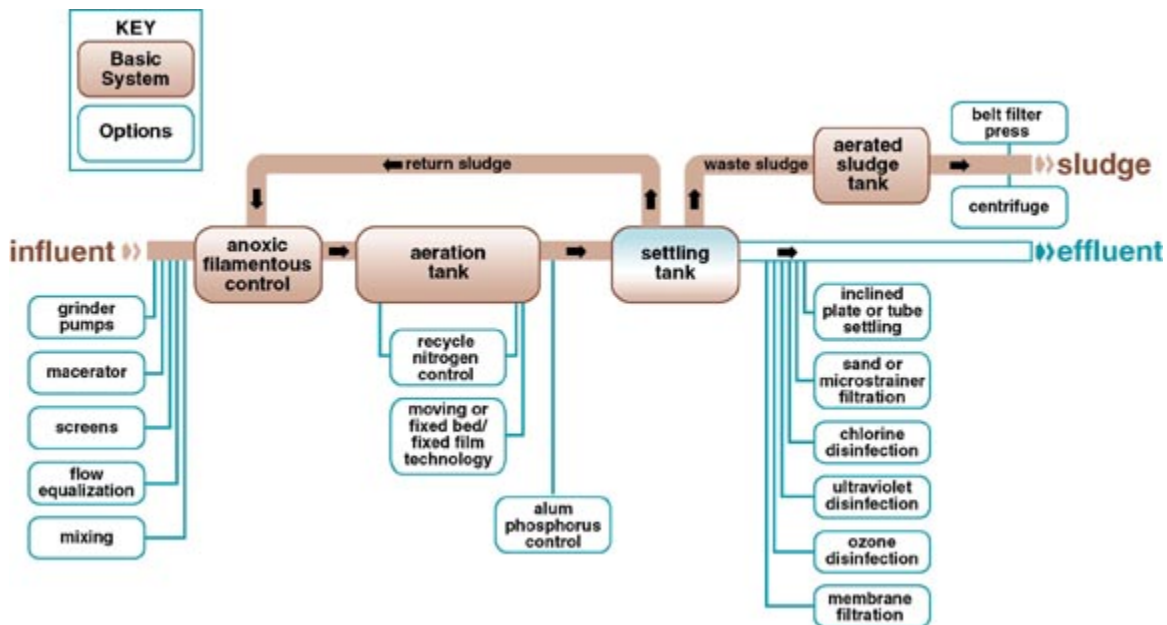
Prefabricated Steel Package Sewage Treatment Plants are available in capacity ranges from 19,000 L/day (5,000 USGPD) to 200,000 L/day (53,000 USGPD). This

prefabricated unit includes an anoxic zone, an aeration basin and the final clarifier in a single tank. It can be economically shipped to its destination by truck or ship.

Larger units are custom designed to suit individual needs. The design can be modular and will cut costs to a minimum when future expansion of the facility is being contemplated. Options are available to meet any possible regulatory standard.

Ease of Installation

- Excavate if/as required
- Pour a suitable foundation pad
- Anchor the unit in place ÿ Connect inlet and outlet sewer lines
- Bring in the power
- You have a WWTP ready to go!



Our Extended Aeration Package Plants combine simplicity with the flexibility to add more sophisticated process options, if required.

How the Process Works

The Extended Aeration Process, a modification of the Activated Sludge Process, effectively treats the contaminants in wastewaters. The standard basis of design includes an aeration system, providing a 24-hour detention time and a final settling tank, with an effective 4-hour detention time.

Diffused air is introduced into the aeration tank. This provides the proper environment for the development of aerobic bacteria. These bacteria thrive on the materials contained in the wastewater. The prolonged period of aeration, in addition, oxidizes a portion of the

solids in the system. Oxygenation by diffused aeration provides operating flexibility and standby reserve to meet the demanding requirements of the varied package plant applications.

Separation of the solids from the mixed liquor developed in the aeration tank takes place in the settling compartment. The clarified effluent is withdrawn for reuse or discharged into a receiving stream from the top of the settling tank. The settled solids are rapidly pumped from the bottom of the settling tank back to the aeration system. These Extended Aeration Plants are proven workhorses, providing excellent Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS) removal efficiencies. Only minimal routine housekeeping and operational tasks are required of the plant operator.

Customize With These Options

- Screening
- Pumping: non-clog or grinders
- Flow equalization
- Biological nutrient removal
- Filtration, microstrainer or sand type
- Membrane technology
- Sludge dewatering
- 10/10 effluent
- Water reuse quality available
- Disinfection: Cl₂, ultraviolet, or ozone
- Modular design for future expansion
- Odor Control Systems

Features and Benefits

Economy

- Low initial cost & low operating costs
- Maximum treatment efficiencies
- Variable blower operation for seasonal load adjustments
- Full concrete pad not required, small pads are suitable, except when the tank is buried in high water table area

Proven Reliability

- Over 200 installations of equipment worldwide. Installations in Russia, Korea, Indonesia, USA and Canada
- Over 50 years experience in treatment of wastewater

Fulfillment of Regulatory Requirements

- Options are available to meet any possible standard

Ease of Installation

- Minimum field assembly

Simplicity of Operation

- Easy access to all parts of the plant for cleaning and adjustments

- Minimum maintenance
- Multiple sludge returns for flexibility of operation
- Operator training by factory personnel available

For more information please click "[Contact Us](#)" or phone (604) 986-9168.