

NATURECLEAN – EEC CONTAINERIZED WASTEWATER SYSTEMS

- ❖ High Speed Waste Water Systems.
- ❖ Reverse Osmosis Systems for Desalination and Black Water
- ❖ Toxic Waste Cleanup Systems.

- **Self-Cleaning non-clogging media with 20 years warranty**
- **10 Times the Loading in less than 1/5 the time**
- **Easy to Install or Relocate**
- **Water can be used for Irrigation**
- **Fully automatic and easy to operate**
- **World Wide Monitoring Available**
- **Made in USA**



NatureClean



Royal Palace in Dubai

NATURECLEAN OFFERS TOTAL SOLUTIONS - WE KNOW PACKAGE PLANTS

NATURECLEAN - EEC specializes in OWWTP's for the Domestic & Industrial Wastewater market. Containerized Package Plants and Customized Treatment Systems are available. NATURECLEAN - EEC Speed Bio Tec - Moving Bed Bio Reactors (MBBR) are fully automatic and incorporate their control for complete independence from other works. NatureClean can combine "smart Solutions" as a result of our global operation alliances with extensive experience in both production and WWTP operations. This includes water treatment with ultra filtration membranes & Wastewater treatment with MBR (Membrane Bio-Reactor) process for high quality effluent and reuse possibilities on a small footprint.

NATURECLEAN - EEC High-Speed Bio-Tec

Our biodegradation and sedimentation technology is unique due to its compactness and performance in respect to volumetric efficiency. These technologies are combined in a prefabricated, skid mounted and standardized tank system with variable lengths, suitable for overseas transportation in ISO freight containers. The systems are fully automatic, ready to be operated, and no odor.



New Baghdad Airport 2008

Process Description

The treatment plant will take suction from the pump well by its own feed pump. The pump is level controlled and has a capacity, which is 2-3 times the average daily flow. The plant has therefore an intermittent working mode in terms of hydraulic flow, while the air blower supplying air to the bioreactors is continuously running.

The biodegradation reactor comes with various chambers depending on required cleaning efficiency. The bioreactors degrade the dissolved organic matter by oxidation into carbon dioxide, which escapes to the air, and to produce biomass, which acts as, activated sludge.

A suspended, free-floating biofilm carrier medium provides a large, protected biofilm surface and simultaneously accumulates the active bio-sludge inside the reactors.

The biodegraded water flows into a clarification stage where the suspended solids settle by gravity. The water is directed through a skim well to a settler system, which provides the final clarification of the effluent.

For systems with high cleaning efficiency needs, NATURECLEAN - EEC can configure package systems to meet your exact requirements. This can include Ammonia, Nitrates, specific Pharmaceutical and Nutrient removal. Final stage screenings with programmed auto cleaning filters and UV disinfection is available.



Examples of Installations in the USA

| | | | |
|--------------------------------|---------------------------------|------------|-------------|
| West Liberty Food, | Iowa, USA | | |
| | Food Processing | 1x39CON-3 | 79,000 g/d |
| Charlie's Specialties, | Pennsylvania USA | | |
| | Industrial - Meat Processing | 2x39CON-3 | 132,000 g/d |
| Holland America Denali Resort, | Alaska Resort | | |
| | Effluent Discharge to River | 1x21 CON-3 | 39,600 g/d |
| Eagle Creek Marina, | New York USA | | |
| | Homes - Effluent for Irrigation | 1x30CON-3 | 52,800 g/d |
| Cielo Falls Development, | North Carolina USA | | |
| | Homes - Total Denitrification | 1x30CON-6 | 40,000 g/d |
| DuPont - Deliel Plant | Mississippi USA | | |
| | Plant-Factory - BOD removal | 1x39CON-3 | 80,000 g/d |
| Lake Haven Homes | Maryland USA | | |
| | Homes - Total Denitrification | 1x30CON-6 | 40,000 g/d |

NATURECLEAN - EEC has more than 25 systems with the US Military alone and hundreds of systems installed all over the world.

We design our OWWTP so we can meet any effluent requirements including ammonia, nitrates, pharmaceuticals and nutrient removal if required.

With decades of hands on experience, we are considered one of the preferred leaders when it comes to Package Plants for Wastewater; our client list speaks for itself.

NATURECLEAN - EEC offers production from several locations around the world.

WE'RE ON THE WEB!

SEE US AT:

www.natureclean.com

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WE BRING THE WORLD TO YOU

It is time to overcome the challenges with fresh thinking and bold new ideas. We are finding solutions to the environmental crisis. Together we can invest in the future to achieve balance with our Earth. We use technology and nature for a clean environment.

Our business philosophy is one of sustainability and responsibility. It is based upon respect for the natural environment; we are all dependent as well as considerate for human and social factors.

We understand that bacteria and other micro-organisms are the basis for life on this planet and that they have been cleaning up the environment for millennia and will continue to do so. We know that by working with nature instead of against it we can eliminate toxics from our living and working areas and re-claim land taken out of production due to mineral salts and other pollutants.

Celebrate the Resolution of World business. No longer are we bound by borders. We can bring the best to each country for its best interest. Together we can share the knowledge of the World. Stay on the edge of the future with NatureClean.

