

Water & Wastewater

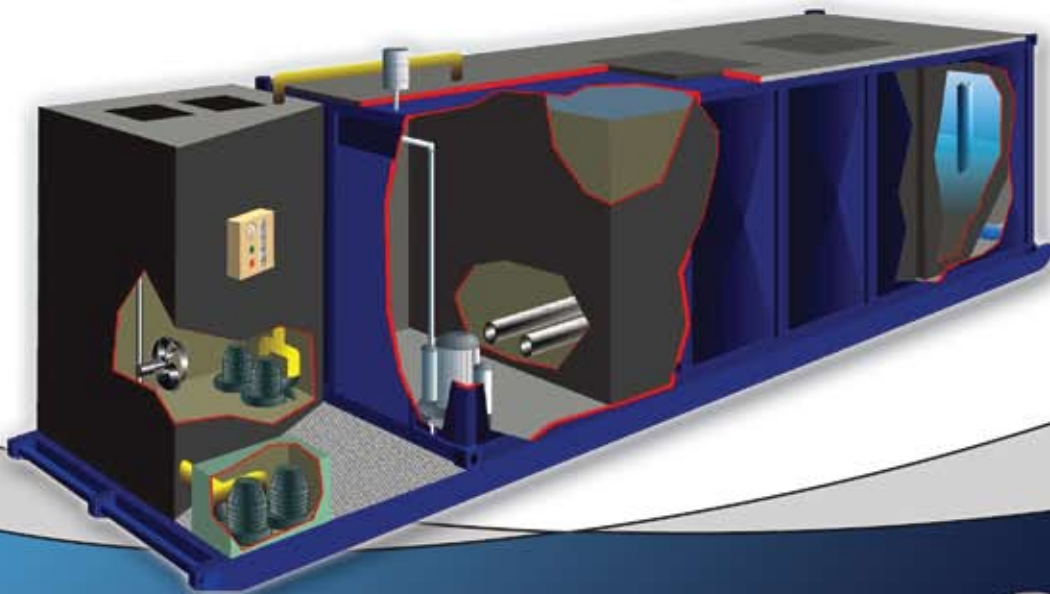
When it comes to Modular Water & Wastewater systems; EMS's designs and protocols have been accepted and adopted for applications where other manufacturers could not do so with their own resources.

The engineers at EMS have led the way forward with the development of biological treatment systems to exceed the toughest standards, all the while operating under the most adverse conditions, in the world's oil fields, offshore and remote locations, as well as developed areas.

The Land Based System meets the high standards of the various governing bodies from around the world, and is available in a complete range of capacities for use in motels, hotels, processing plants and other applications where sewage collection is currently not available.

The EMS Treatment System offers unequalled quality in the units, returning a high resale value when the municipal sewer systems are expanded. The design is simple, the operation is easy, and maintenance is minimal, with any minor adjustments and repairs being made with everyday tools.

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The EMS Wastewater Treatment System is shipped in such a way that it actually minimizes field deployment, resulting in installation time at an all time minimum.

The treatment process is primarily comprised of the following stages:

Pre-treatment

This commences when the sewage passes through one of three proprietary devices, comprising of a bar screen, comminutors and trash traps. These physically break down the sewage and isolate the non-treatable objects before they reach the aeration compartment.

Aeration

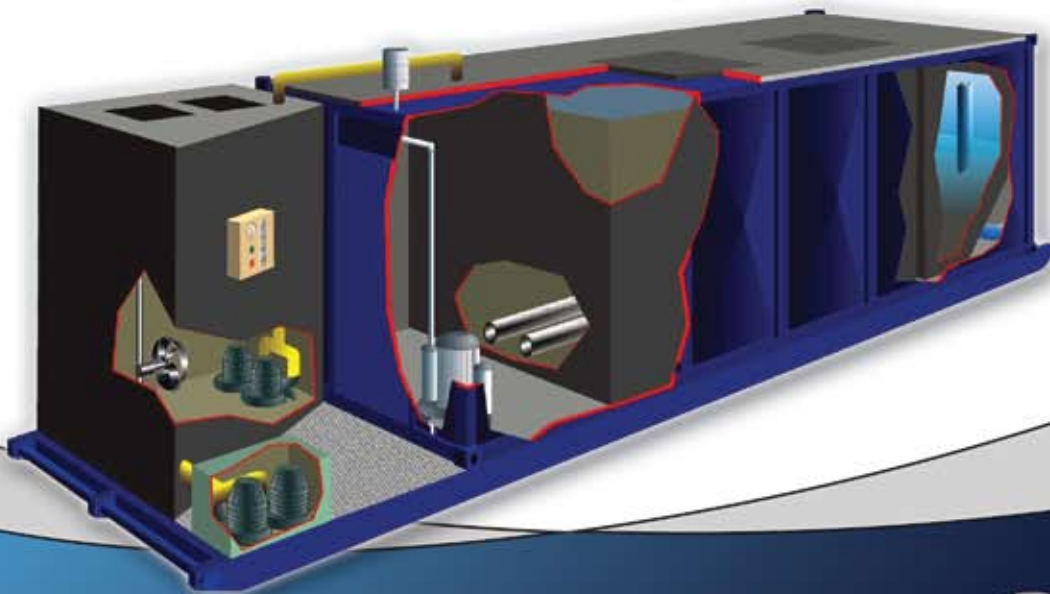
Following the pre-treatment process, the treatable sewage transfers to the aeration chamber where it is infused with air for two purposes, firstly to meet the oxygen demand of the aerobic digestion process, which allows the bacteria to rapidly multiply. Secondly, the oxygen enables the tank contents to thoroughly mix with the bacteria, assuring complete treatment.

Setting/Clarification

After the contents are thoroughly blended, the liquids are then kept perfectly sedentary, allowing the suspended particles to settle to the bottom. They are then lifted back into the aeration chamber for further treatment, while the top of this chamber is left with clear, odorless and highly treated water which is then discharged back into the environment.

Disinfection

Utilizing Ultraviolet Light Assemblies or Chlorination, disease carrying micro-organisms are destroyed by disinfection. In some instances and locations do not require disinfection, and EMS can manufacture customized applications to meet and exceed all requirements.



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