

AdvanTex[®]

AX-Mobile[™]

Manufactured by **Orenco Systems[®], Inc.**

**Portable, Fully-Plumbed Wastewater Treatment System
for Remote Sites Serving 3-3,000 Persons**



Applications

- Remote sanitation facilities, work camps
- Military installations
- Emergency sanitation, disaster relief
- Temporary flow diversion, off-line situations
- Seasonal flow increases

Orenco Systems[®], Inc.

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Get reliable, energy-efficient wastewater treatment. **Anywhere.**

Mining camps in Alberta and Texas. A pipeline response station in the Yukon. An oil drilling platform in Cook's Inlet. A hurricane-devastated resort in St. Lucia.

For more than a decade, Orenco's AdvanTex® Technology has provided reliable, energy-efficient wastewater treatment in some of the world's most remote places.



An AX-Mobile™ Treatment System was installed in St. Lucia, between two rugged pitons. At only 8' wide, the AX-Mobile's tanks could be trucked to the site, down steep narrow roads, on the back of a standard flatbed.

Now, the AdvanTex **AX-Mobile™** is Orenco's most fully-optimized portable treatment plant yet.

The **AX-Mobile** Treatment System is built inside an insulated fiberglass tank that is durable, watertight, and lighter than steel. Tanks range from 14'-42' long (4.3-12.8 m), including standard international shipping sizes of 20' and 40' (6.1 m and 12.2 m), and they're easy to ship and set. Ship by truck, rail, cargo container, or helicopter.

The **AX-Mobile** can be installed singly or in multi-tank arrays. It can also be completely enclosed in a building for operator comfort.



In 2002, the Osprey Oil Platform in Cook Inlet, Alaska replaced an extended aeration plant that couldn't meet permit limits with Orenco's AdvanTex® Treatment System, installed onto a mezzanine.

Persons Served

- AX-Mobile-20: up to 75 persons
- AX-Mobile-40: up to 150 persons
- Multi-unit arrays: up to 3,000 persons



This AX-Mobile was installed on an award-winning, 60-room resort on the island of St. Lucia, in the Caribbean. The AX-Mobile replaced an old activated sludge plant that was destroyed by Hurricane Tomas on Oct. 31, 2010. Orenco was brought into the project on November 18 and had the AX-Mobile wastewater treatment system shipped, installed, and commissioned by the resort's December 20 re-opening date, in time for holiday bookings. The lighter weight of the fiberglass AX-Mobile was important for this island installation, where the equipment to lift a heavy metal package plant wasn't available or feasible for this hilly, volcanic site.

Ship by truck, rail, cargo container, or helicopter. *Pre-Packaged.*

Applications

- Remote sanitation facilities, work camps
- Military installations
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Benefits

- Self-contained, fully-plumbed
- Portable, versatile
- Fiberglass construction, lighter than steel
- Easy to set and operate
- Low power use (1-2 kWh/1000 treated gal.)
- Meets stringent permit limits
- Re-use quality effluent

Tech Support

- Design assistance, tech specs
- Installation, start-up
- Lifetime phone support



▲ The largest AX-Mobile™ unit weighs 10,000 lbs (4,536 kg), and can be transported by truck, rail, cargo container, or helicopter.



◀ This unit was installed at a state park in LaPine, Oregon. While AX-Mobile units are typically installed above ground, they can also be bermed or buried to grade.



▲ The AX-Mobile uses textile sheets in a packed bed media filter. It can treat blackwater and grey-water to a level where effluent can be reused for surface or subsurface irrigation or dust control (as regulations permit).



▲ The remote telemetry control panel for an AX-Mobile Treatment System is typically installed at the end of the unit and pre-wired.

◀ An AX-Mobile Wastewater Treatment System with an optional control room, above, was purchased by the Alyeska Pipeline Company for a remote site serving pipeline workers in central Alaska. Installed in 2009, the fiberglass tank of this first generation AX-Mobile was built in a metal frame. In 2010, the AX-Mobile was redesigned to stand alone, reducing weight and, therefore, shipping costs.



Orenco Systems is owned and managed by engineers who develop wastewater systems that work — systems based on sound science.

*Clockwise from left:
Eric Ball, P.E., Jeff Ball, P.E., Hal Ball, P.E.,
(front) Terry Bounds, P.E.*

Carefully Engineered by Orenco

Orenco Systems has been researching, designing, manufacturing, and selling leading-edge products for decentralized commercial wastewater systems since

1981. The company has become an industry leader, with nearly 250 employees and with more than 150 points of distribution in North America, Australasia, Europe, Africa, and Southwest Asia. Our products and technologies have been installed in 60 countries, all over the world.

Orenco has a maintenance division, an environmental lab, and employs dozens of scientists, along with civil, structural, agricultural, electrical, mechanical, and manufacturing engineers. Orenco's systems are based on sound scientific principles of chemistry, biology, mechanical structure, and hydraulics. As a result, our research appears in numerous publications, and our engineers are regularly asked to give workshops and offer trainings.



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*Changing the Way the
World Does Wastewater®*

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