

AdvanTex[®] Treatment Systems

AX-Mobile[™]

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



AX-Mobile[™] installation at a mining camp in Carrizo, Texas.

Portable, Fully-Plumbed Wastewater Treatment for Remote Sites

Orenco Systems[®], Inc.

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Serving 3 to 3,000 Persons:

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

AdvanTex® AX-Mobile™ Treatment System

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

Complete, Portable Solution for Wastewater Treatment

The AX-Mobile Treatment System is completely pre-packaged and built inside a durable, insulated fiberglass tank that is easy to ship and set. Ship by truck, rail, cargo container, or aircraft.

Tanks range from 14'-42' (4.3-12.8 m) long and can be installed singly, serving 75-150 people, or in multi-tank arrays serving 3,000 people or more. The system is installed above-ground, so it can be used temporarily and then relocated as needed.

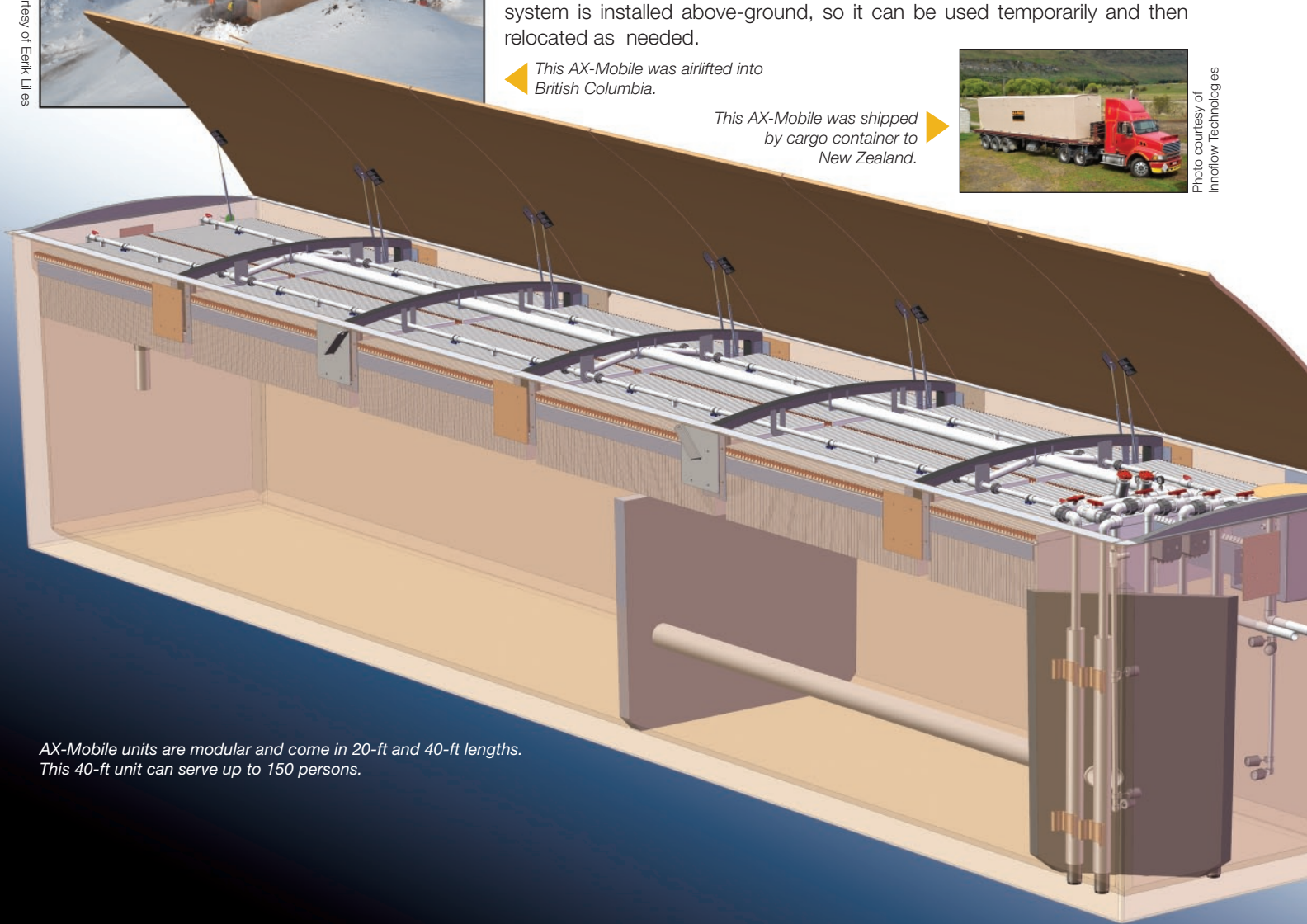
▶ This AX-Mobile was airlifted into British Columbia.

▶ This AX-Mobile was shipped by cargo container to New Zealand.



Photo courtesy of Inndow Technologies

AX-Mobile units are modular and come in 20-ft and 40-ft lengths. This 40-ft unit can serve up to 150 persons.



AdvanTex® AX-Mobile™ Treatment System

Set, Plumb, Wire, and Go

The AX-Mobile is pre-plumbed and easy to install. All the treatment media, pumps, and controls are included. Optional equipment for reducing solids or meeting more stringent permit limits (such as UV disinfection units) can be pre-installed as well. Consequently, AX-Mobile projects can meet the tightest deadlines. For example, an AX-Mobile system was up-and-running on the Caribbean island of St. Lucia four weeks after initial client contact, allowing a hurricane-devastated resort to re-open in time for Christmas holiday bookings (see back).

Tech Support by Orenco

Orenco has been in business for 30 years and the company has earned an industry-wide reputation for outstanding customer support. This always matters, but it's especially important when your wastewater system is in a remote and isolated location.

Applications

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

Benefits

- Self-contained, fully-plumbed
- Portable, versatile
- Durable fiberglass tank
- Easy to set and operate
- Low power uses: 1-2 kWh per 1000 treated gal. (3785 L)
- Meets stringent permit limits
- Re-use quality effluent

Orenco's sales engineers and wastewater specialists provide ...

- Designer, installer, and operator training
- Design assistance, plan reviews
- Technical specs, sample drawings
- Installation, operation, and maintenance manuals
- Post-sales Account Managers
- Lifetime technical support
- Continuing education

"I've always liked the proactive approach that OSI takes. I have two criteria regarding any product specifications: the product does the job and the company provides technical support. OSI excels in both, which makes me look good and my clients happy."

— David Monihan, Jr.
PE, RLS, Arizona

An AX-Mobile was installed at the Jalousie Plantation Resort on the rugged volcanic island of St. Lucia, between two massive pitons.

Photo courtesy of The Jalousie Plantation, Sugar Beach,
www.jalousieplantation.com



Persons Served*

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

* Number of persons served is affected by strength of loading

Dimensions

North America:

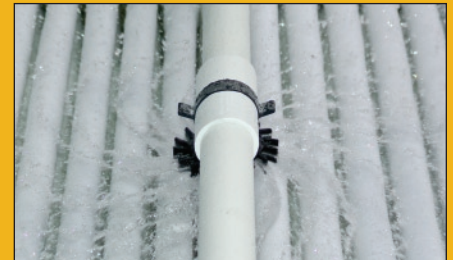
- 14'-42" x 7' x 8'
(4.3-12.8 m x 2.1 m x 2.4 m)

Outside North America:

- 20' x 8' x 10' (6.1 m x 2.4 m x 3.0 m)
- 40' x 8' x 10' (12.2 m x 2.4 m x 3.0 m)



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



High-quality, low horsepower pumps micro-dose the treatment media at regular-intervals, and proprietary spin nozzles efficiently distribute the effluent, optimizing treatment.



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

AdvanTex® AX-Mobile™ Treatment System

Carefully Engineered by Orenco

Orenco Systems has been researching, designing, manufacturing, and selling leading-edge products for small-scale wastewater treatment systems since 1981. The company has grown to become an industry leader, with about 250 employees and more than 500 points of distribution in North America, Australasia, Europe, Africa, and Southwest Asia. Our systems have been installed in more than 60 countries around the world.

Orenco maintains an environmental lab and employs dozens of civil, electrical, mechanical, and manufacturing engineers, as well as wastewater treatment operators. 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.



Orenco Systems®
Incorporated

*Changing the Way the
World Does Wastewater®*

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Project Summaries

Carrizo Springs Mining Camp, Catarina, Texas

An AX-Mobile Treatment System was installed at Carrizo Springs in Texas to serve a 233-person mining camp with bunkhouses and kitchen. The client wanted a completely pre-plumbed, pre-wired, mobile system that could be moved to another mining site in the future. The system includes a controls cabinet at the end of the unit and a fold-up catwalk for operators. It also includes a pre-installed UV disinfection system. The system was commissioned in August 2011 and effluent sampling shows it is producing effluent BOD of 8 mg/L and TSS of 11 mg/L, while running at 100% of daily design capacity.



Alyeska Pump Station, Alaska

An AX-Mobile Treatment System with optional control room was purchased by the Alyeska Pipeline Company for a remote site serving up to 44 pipeline workers in central Alaska, where winter temperatures can be as low as -60° F (-50° C). The system had to be properly designed and insulated to allow the necessary biological treatment processes to function optimally, year-round. In addition, since the system was installed above ground, on permafrost, it had to meet strict NPDES permit requirements for surface discharge, since subsurface discharge was not an option. The system was commissioned in December 2009 and sampling shows that effluent quality is averaging BOD of 6 mg/L, TSS of 5 mg/L, and 5.9 MPN/100 fecal coliform.



Jalousie Plantation Resort, St. Lucia

An AX-Mobile was installed on this award-winning, 60-cottage resort on the island of St. Lucia, in the Caribbean. It replaced an old activated sludge plant that was destroyed by Hurricane Tomas on Oct. 31, 2010. Orenco was brought into the project on Nov. 18 and had the system shipped, installed, and commissioned by the resort's December 20 re-opening date. At only 7' (2.1 m) wide and 12,000 pounds (5443 kg), the units were trucked to the site, down steep narrow roads, on the back of a standard flat-bed and lifted with a crane. Less than two days after reaching the site, the system was up and running, in spite of power fluctuations and other problems. This system includes a UV disinfection unit, and effluent sampling shows it is producing 7 mg/L BOD.



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