Advantex® is one of the most energy-efficient, sustainable wastewater treatment systems available for household use. The filter unit is flush to the ground and blends into landscaping.

Reliable, Energy-Efficient Treatment For Residential Wastewater

Applications:
- Single-family homes
- Small commercial properties
- New construction, repairs
- Tight lots, other site constraints
- Poor soils, shallow bury
- Stringent permit requirements
- Nitrogen reduction, disinfection
- Surface discharge
A Sustainable Technology

In the patented* AdvanTex Treatment System, household sewage flows into the processing tank, where it separates into scum, sludge, and liquid effluent. Filtered effluent is dosed to the AdvanTex filter pod, where it trickles through sheets of a synthetic textile. There, naturally occurring microorganisms remove impurities from the effluent. After recirculating between the tank and the AdvanTex filter, the effluent is discharged to the soil via irrigation or a drainfield.

The system’s pump runs only a few minutes an hour, using just a few cents worth of electricity a day. Because solids decompose in the tank, the tank requires pumping only every 8–12 years, under normal use. Using little energy, generating a minimum of sludge, and purifying wastewater for beneficial reuse, AdvanTex Systems are one of the most environmentally sustainable technologies for home wastewater treatment.

More than 30,000 of Orenco’s textile filters have been installed at homes, businesses, and community treatment systems throughout the United States, Canada, Europe, and Australasia. Third-party testing shows that AdvanTex Treatment Systems do a better job of treating wastewater than most municipal sewers. And field testing shows that AdvanTex Treatment Systems work under real-world conditions.

“The effluent from the filter units typically was clear with no odor . . . the increased loading rate allows for a decrease in the footprint required by filter units (compared to sand and gravel filters) . . . in an onsite treatment scenario, textile filter effluent could be utilized for landscape irrigation . . .”


Typical backyard configuration of an AdvanTex® Treatment System.
The system has five main functional parts:
1. VeriComm® Web-based monitoring system†
2. Processing tank
3. Biotube® pumping package
4. AdvanTex filter
5. Recirculating splitter valve
† MVP digital programmable panels available as an option in some markets.

Other configurations and models available.

NOTE: * Covered by U.S. patent numbers 6,372,137; 5,980,748; 5,531,894; 5,480,561; 5,360,556; 5,492,635; 4,439,323; D461,870; and D445,476. Additional patents pending.
Orenco’s AdvanTex® Treatment Systems are the ideal solution for environmentally sustainable treatment of residential wastewater flows.

**Outstanding Wastewater Treatment**

Unlike other onsite wastewater treatment technologies, AdvanTex provides consistent, reliable treatment under real-world conditions. Other systems work OK in a controlled testing environment, but don’t hold up to normal household use. AdvanTex does. AdvanTex Treatment Systems process and discharge small amounts of treated wastewater throughout the day. Water so clean it can be reused for drip or subsurface irrigation, or discharged to shallow, inconspicuous trenches.

**Fits Small Yards**

AdvanTex Treatment Systems require very little space. The filter unit is 7.5 ft x 3 ft x 2.5 ft (2286 mm x 914 mm x 762 mm), small enough to fit under a deck or on top of the processing tank. And some jurisdictions allow a reduction in drainfield area with AdvanTex. So AdvanTex is ideal for small sites, or for homeowners who simply want more use of their yard.

**Low Lifetime Cost**

AdvanTex Treatment Systems may cost a little more up front than other systems, but, thanks to low maintenance requirements, they cost much, much less over time. Power costs, pumping costs, and equipment replacement costs are a fraction of those for other technologies. Plus, AdvanTex filters protect your drainfield.
**Round-the-Clock Monitoring**

Your AdvanTex Treatment System may include a control panel with a remote telemetry unit and a round-the-clock, Web-based monitoring system, supervised by your service provider. You’ll have even more peace of mind, knowing that the VeriComm® Monitoring System is continually and automatically verifying the operation of your system. For more information, go to [www.vericomm.net](http://www.vericomm.net) and click on the icon for VeriComm’s “On-Line Demo.” (Non-telemetry control panels also available.)

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**AdvanTex® Gives You Peace of Mind**

Orenco’s AdvanTex Treatment Systems are not just a product. They are part of a comprehensive program, for homeowners’ peace of mind.

**Authorized Dealers and Trained Installers**

AdvanTex Treatment Systems are sold by authorized Dealers, who provide ongoing support and warranty service. Dealers ensure that AdvanTex Treatment Systems are set in place by trained installers, following Orenco’s instructions.

**Trained Service Providers**

Like any onsite technology, your AdvanTex Treatment System benefits from regular maintenance by a trained service provider, following Orenco’s instructions. Field maintenance report forms are digitally archived for future reference.

**Complete, Carefully Engineered Package**

Your AdvanTex Treatment System comes as a totally pre-manufactured package, including AdvanTex textile filter, Biotube® pumping package, and “smart” control panel. AdvanTex can be installed on most lots in less than a day.

**Low Routine Maintenance Costs**

AdvanTex Treatment Systems are easy to service, easy to clean, and generate no troublesome activated sludge. Since maintenance is minimal, so are the long-term costs. Each system comes with a Homeowner’s Manual, with tips for preventive maintenance.

**Low Power Costs**

AdvanTex uses very little power... an average of $1.75–$2.00 per month (based on a national average of ten cents per kilowatt-hour). Compare that to the average power cost of $30.00–$60.00 per month (depending on your area) for many “activated sludge” aerobic treatment units!

**Safe in Emergencies**

AdvanTex Treatment Systems that are equipped with VeriComm® Control Panels automatically notify service providers of irregular conditions. And all systems are sized to allow for a minimum of 24 hours of wastewater storage, at average daily flows. So operators can provide “emergency” service during normal working hours, keeping service costs down.

**Child-Proof**

The lid of the AdvanTex filter is affixed with recessed bolts, making it very tamper-resistant.

**Warrantied**

Orenco Systems®, Inc. provides a limited, multi-year warranty on all materials and workmanship. Length of warranty varies by region but is at least three years.
For Every Residential Site

There's a standard AdvanTex Treatment System model for every site condition, design flow, and regulatory requirement.

AdvanTex Treatment Systems are particularly well suited for . . .

- small sites
- failing systems
- poor soils
- nitrogen reduction
- environmentally sensitive sites
- stringent treatment standards
- pretreatment of moderately high-strength waste

Deschutes County, Oregon

"I specified an AdvanTex Treatment System for a cluster of 12 luxury homes in the Metolius River Resort, along a premier trout stream in eastern Oregon. AdvanTex worked well because the site has an extremely small footprint and the system was easy to install. Also, the treatment unit is right in front of the Resort's office, so it was super important that there be absolutely no smell, and there isn’t. Plus, we didn’t have to search for the right treatment media, since it’s all included. I would use AdvanTex anyplace you’d use a conventional recirculating filter."

Steve Wert, CPSS, WWS
Wert & Associates, Bend, Oregon

Tucson, Arizona

"Nearly 1,000 AdvanTex Treatment Systems have been installed in Arizona, primarily due to poor soils, seasonal high water tables and/or nitrogen in the groundwater. In Tucson, homeowners and their treatment system designers have also had to deal with limiting site constraints, shallow rock shelves, and small building envelopes. The AdvanTex system, followed by a subsurface drip system, was the answer. Plus, the installed systems go almost unnoticed in yards and landscaping."

Todd Christianson,
Premier Environmental Products, LLC

Alberta, Canada

“We’ve installed about 500 AdvanTex Treatment Systems for all sizes of homes, and, typically, the treated wastewater looks just like water. Our winter temperatures can be as low as –38°F (–39°C). In the middle of December, we started up an AdvanTex Treatment System on a 13,000 ft² (1200 m²) home that averages 1200 gpd (4500 L/d). Two weeks after start-up, the owners entertained 30 family members and guests for a full week. It worked great!"

Bruce Silvester, Onsite Specialties, Inc.

“it worked great!”

Newport, Rhode Island

“I spent six years looking for the right wastewater system for my second home, which is on a small island. Even with seasonal flows, our AdvanTex Treatment System is working great . . . so great, I decided to become a dealer! We entertain often, so we use a lot of water, but we’ve never had a problem. And the system was easy to transport and install."

Peter Kent, Atlantic Solutions, Ltd.
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 300 employees and with more than 300 points of distribution in North America, Australasia, Europe, Africa, and Southwest Asia. Our products and technologies have been installed in more than 70 countries around the world.

Orenco maintains an environmental lab and employs dozens of scientists and engineers who collectively have more than 500 years of wastewater experience. 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.

Distributed by:

Orenco Systems, Incorporated
814 Airway Avenue
Sutherlin, OR 97479 USA
T: 800-348-9843
T: 541-459-4449
F: 541-459-2884
www.orenco.com
www.vericomm.net

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