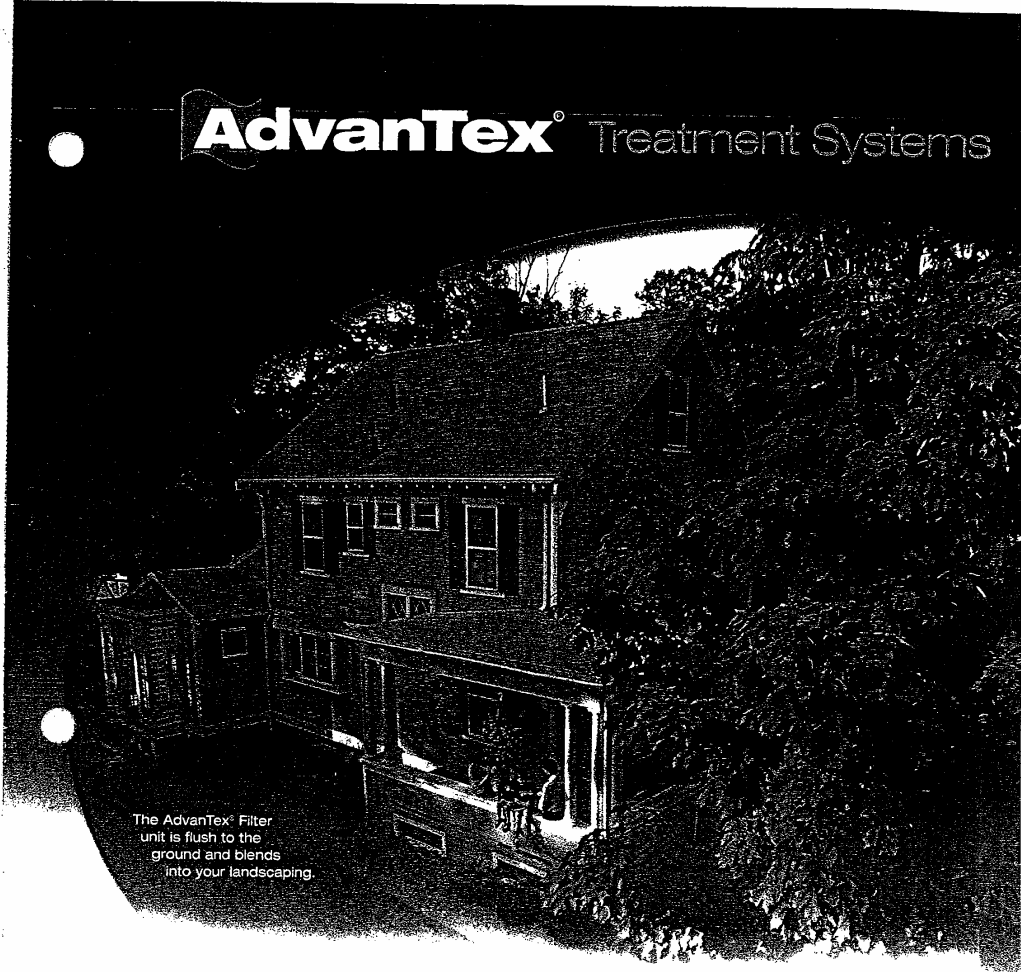


# AdvanTex<sup>®</sup> Treatment Systems



The AdvanTex<sup>®</sup> Filter unit is flush to the ground and blends into your landscaping.

Affordable, Reliable,  
Onsite Treatment of  
Residential Wastewater



ANSI/NSF • STANDARD 40 • CLASS 1

NSF  
Orange  
Institutional  
Care  
1-800-  
orange  
water

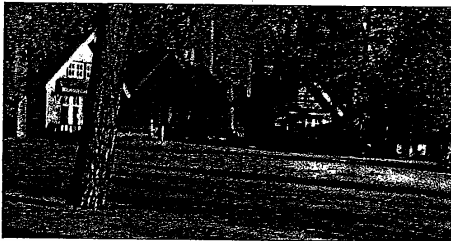
# Onsite Treatment of Residential Wastewater

## 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 any place you'd use a conventional recirculating filter."

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

### Mountainaire, Arizona

"Over 450 AdvanTex Treatment Systems have been installed in Arizona, primarily due to concerns about poor soils (heavy clay or rock), seasonal high water tables, and/or nitrogen in the groundwater. In Mountainaire, south of Flagstaff, homeowners and their treatment system designers have also had to deal with small, 50' x 100' lots. The AdvanTex Treatment System, followed by a subsurface drip system, was the answer. Lab samples of effluent are showing BOD and TSS averaging less than 10 mg/L."

Colin Bishop, REITS, Inc.  
Regional Sales & Technical  
Service Representative  
Orlando Systems, Inc.



### Alberta, Canada

"We've installed about 175 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 below zero. In the middle of December, we started up an AdvanTex System on a 13,000 sq. ft. home that averages 1,200 gpd. 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.

### 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.



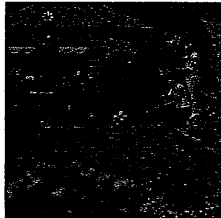
# AdvanTex® – Treatment Systems

## Finally! Affordable Wastewater Treatment – That Works!

Orengo's AdvanTex Treatment Systems are the ideal solution for onsite treatment of residential wastewater flows.

### Outstanding Wastewater Treatment

Unlike other onsite wastewater treatment technologies, AdvanTex provides consistent, reliable treatment, even during "peak flow" conditions. Your AdvanTex Treatment System processes and discharges small amounts of treated wastewater throughout the day. Water so clean it can be used for drip or subsurface irrigation, or discharged to shallow, inconspicuous trenches.

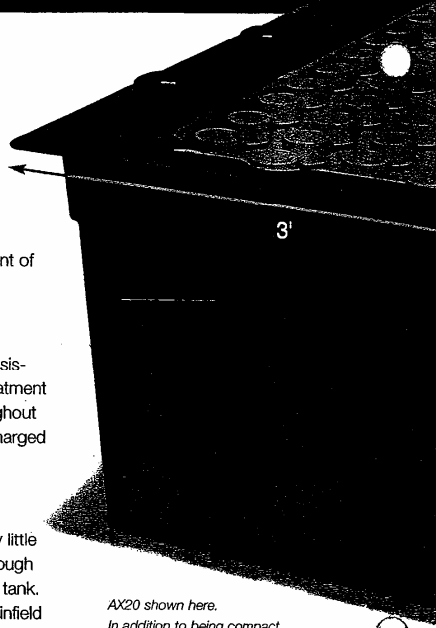


### Fits Small Yards

Your AdvanTex Treatment System requires very little space. Its filter unit is 7.5' x 3' x 2.5', 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, for homes that require additional pretreatment of wastewater, or for homeowners who simply want use of more of their yard.

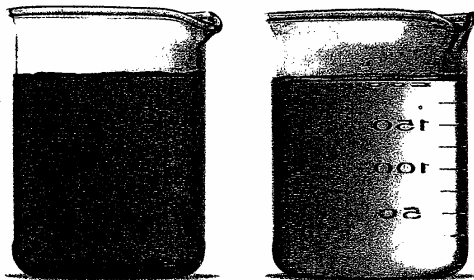
### Low Installed Cost, Low Lifetime Cost

Best of all, the AdvanTex Treatment System is one of the most affordable wastewater treatment products currently on the market. And thanks to easy installation and low maintenance, installed costs and lifetime costs are kind to your pocketbook, too. Plus, AdvanTex filters protect and preserve your drainfield.

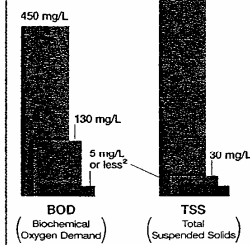


AX20 shown here. In addition to being compact, AdvanTex® Treatment Systems are easier to operate and maintain than other wastewater technologies. No odors. No power-hungry, noisy blowers. No activated sludge to manage or pump. No discharge of untreated sewage during peak flows or emergencies.

AdvanTex turns household wastewater into clear, effluent you can use for subsurface irrigation.



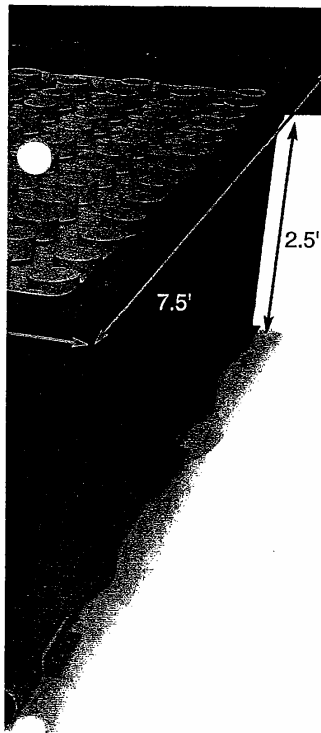
### AdvanTex® Makes Raw Waste<sup>1</sup> up to 99% Cleaner



Typical Household Raw Waste  
 Typical Filtered Septic Tank Effluent  
 Typical AdvanTex® Effluent

<sup>1</sup> Source: Derived from Small and Decentralized Wastewater Management Systems, Critos & Tchobanoglous, McGraw-Hill, 1998, p. 183.  
<sup>2</sup> Actual performance results, based on a six-month accumulative average from NSF (National Sanitation Foundation) testing on the AX20N at 500 gpd, using composite sampling.

AdvanTex® – Affordable, Reliable,



## AdvanTex® Gives You Peace of Mind

Orenco's AdvanTex Treatment Systems are a program, not a product:

### Authorized Dealers and Installers

AdvanTex Treatment Systems are sold through a network of trained Dealers, who provide ongoing support and warranty service. Dealers ensure that AdvanTex Treatment Systems are set in place and plumbed by trained, authorized installers, following manufacturer's instructions.

### Authorized Service Providers

Like any onsite technology, your AdvanTex Treatment System benefits from periodic maintenance. AdvanTex Dealers ensure that systems are routinely maintained by a trained and authorized service provider, following manufacturer's instructions.

### 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 costs. Your system comes with a Homeowner's Manual, with tips for preventive maintenance.

### Low Power Costs

AdvanTex uses very little power . . . an average of \$1.25 - \$2.50 per month (based on the national average of eight cents per kilowatt hour). Compare that to power costs ranging from \$10-50 per month for many "activated sludge" aerobic treatment units!

### Safe in Emergencies

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

### Child-Proof

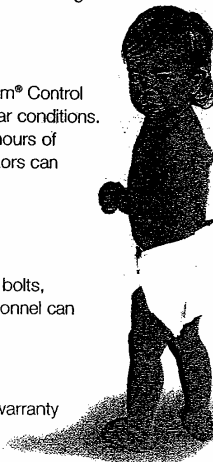
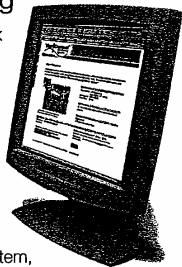
The lid of your AdvanTex filter is affixed with recessed bolts, making it very tamper-resistant. Yet maintenance personnel can access the filter, when needed.

### 3-Year Warranty

Orenco Systems®, Inc. provides a limited, three-year warranty on all materials and workmanship.

### Round-the-Clock Monitoring

Your AdvanTex Treatment System may include a remote telemetry unit with 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.orenco.com](http://www.orenco.com) or [www.vericomm.net](http://www.vericomm.net) and click on the icon for VeriComm's "On-Line Demo."



## AdvanTex® – Treatment Systems

### An Advanced Technology

The patented\* AdvanTex Treatment System is a significant improvement on a proven method. AdvanTex works just like a recirculating sand filter (RSF), a reliable technology that Orenco has helped to perfect over the past 20 years.

Just like an RSF, your AdvanTex system includes a processing tank and a control panel with a programmable timer for even, steady wastewater treatment, even under peak conditions — such as parties and weekend clothes washing.

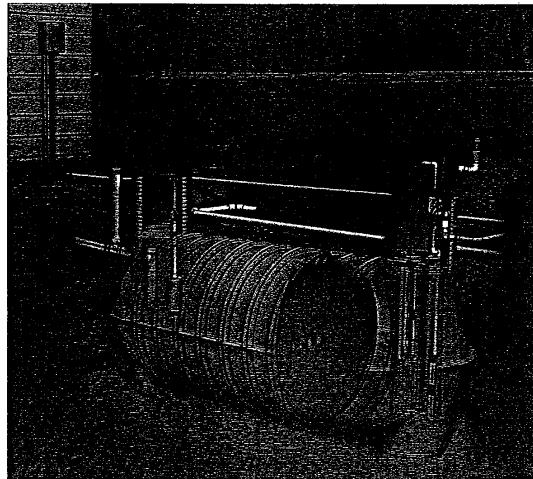
The system also includes the AdvanTex textile filter, a sturdy, watertight fiberglass basin filled with an engineered textile material. This lightweight, highly absorbent material treats a tremendous amount of wastewater in a small space.

About 3,000 of Orenco's textile filters have been installed throughout the United States on sites ranging from federal demonstration projects to university testing facilities, single-family homes, commercial properties, and community systems. Third-party testing shows that AdvanTex Treatment Systems do a better job of treating wastewater than most municipal sewers.

*"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 . . ."*

Leverenz, Darby, and Tchobanoglous,  
"Evaluation of Textile Filters for the  
Treatment of Septic Tank Effluent,"  
University of California at Davis,  
October 2000.

*This 3D illustration  
shows a representative  
back-yard configuration  
for the key elements of an  
AdvanTex® Treatment System.*



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.

# AdvanTex® – Treatment Systems



Orenco Systems, Inc. is a leading manufacturer of small-scale wastewater treatment systems. Our systems are designed to meet the needs of a wide range of applications, from residential to industrial. We are committed to providing high-quality, reliable, and cost-effective solutions for our customers.



AdvanTex® Treatment System AXN Models meet the requirements of ANSI/NSF Standard 40 for Class I Systems.



**Orenco Systems®**  
Incorporated  
*Changing the Way the World Does Wastewater®*

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Sutherlin, OR 97479

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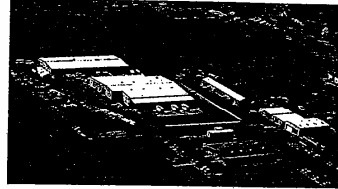
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[www.vericomm.net](http://www.vericomm.net)

ABR-ATX-1  
Rev. 2.2, © 02/03  
Orenco Systems®, Inc.

## 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 more than 180 employees and with distributors representing most of the United States, Canada, parts of Europe, New Zealand, Australia, and Chile. Our systems have been installed all over the world.



*Your health is our priority. At Orenco Systems, we are committed to "Changing the Way the World Does Wastewater®."*



Orenco maintains an environmental lab and employs more than a dozen civil, 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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