

TEX-AIRE
AEROBIC WASTEWATER TREATMENT

Homeowner's Manual
For
Tex-Aire 500 Gallon-Per-Day
Tex-Aire 600 Gallon-Per-Day
Tex-Aire 750 Gallon-Per-Day
Tex-Aire 1000 Gallon-Per-Day

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Tex-Aire Warranty Card

I. Introduction

Thank you for your purchase!

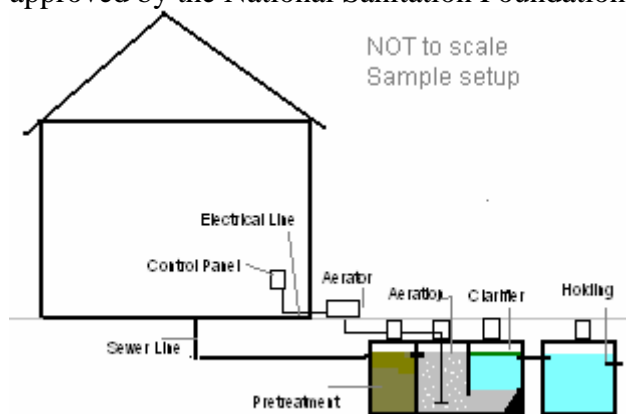
Your new Class I Tex-Aire Aerobic Treatment Plant is a three phase, mechanical, aerobic treatment unit capable of turning regular household sewage into a clear odorless liquid within 24 hours. Your wastewater system has been tested against the NSF Standard No. 40 and has been approved by ANSI/NSF).

Before your Tex-Aire system was installed, your Installer arranged with your county to have the system permitted. In most counties, your street (911) address is submitted to the County Board of Health (or equivalent office) along with the name of the Installer and the person holding your first service contract (in most cases, the same individual). There are certain duties the homeowner accepts responsibility for in order to insure that the permit remains valid. This document, along with any information given to you by your Installer will help you understand those responsibilities.

If you have any questions about your system, please contact your installer or your County Board of Health.

II. About your Tex-Aire System

As was mentioned in the introduction, your Tex-Aire Aerobic Treatment Plant is a Class I, three phase, mechanical, aerobic treatment unit capable of turning regular household sewage into a clear odorless liquid within 24 hours. This liquid is then disposed of in an ecologically friendly manner, generally by evacuation through your lawn sprinklers. The Tex-Aire wastewater treatment system was tested against the NSF Standard No. 40 and approved by the National Sanitation Foundation (NSF).



The Tex-Aire systems use a process referred to as extended aeration to treat common household wastewater by introducing air into the sewage through diffusion. This *activated sludge process* promotes growth of aerobic bacteria and other microorganisms that break down the organic material found in regular household sewage. This activity takes place within the aerator.

In the aerator, the wastewater is brown in color. This is caused by the solids entering from the pretreatment chamber and sludge returning from the clarifier. As the wastewater leaves

the aeration chamber, it enters this clarifier, also referred to as the “quiet zone”. No mixing occurs within the quiet zone.

In the clarifier, the solids separate from the liquid and settle to the bottom of the clarifier; this solid material, called sludge, contains dissolved oxygen and bacteria from the aeration chamber. The sludge returns to the aeration chamber to be mixed and digested again. The sludge mixes with incoming wastewater and this mixture of sludge, wastewater, and dissolved oxygen is referred to as *mixed liquor*. The mixed liquor flows back into the clarifier, the solids separate and return to the clarifier, and liquids continue to the top of the clarifier, where they flow through the outlet into the pump tank. This never ending cycle produces high quality effluent that is ready to be released to the environment.

Before the system can be used, it must be filled with water, which your installation person may do for you. The system can be used as soon as it is filled with water and all electrical and plumbing connections have been made and approved by your County’s health inspector. Your system size has been determined by your local regulating authorities. You should try to stay within the ‘safe zone’ for your unit’s size. The zones are as follows:

<u>Size</u>	<u>Safe Zone</u>
500 Gallons Per Day	350-550 Gallons Per Day
600 Gallons Per Day	425-675 Gallons Per Day
750 Gallons Per Day	550-800 Gallons Per Day
1000 Gallons Per Day	800-1000 Gallons Per Day

III. **Homeowner (System Owner) Responsibilities**

If you have lived with a standard septic system before, most of the requirements for keeping an aerobic system properly maintained should seem familiar. If you have been on City-provided sewage, though, you may need to carefully read through this document to familiarize yourself with the sensitivities of an aerobic system.

The power to your system must remain on at all times. Should you go on vacation, the system should not be turned off! Turning off power to your aerator will eliminate oxygen delivery to the bacteria in your system; without oxygen, the bacteria will die and the system will cease to function. All electrical and plumbing connections must be properly wired and connected. Extension cords and power poles should not be a part of your wiring system!

Never drive anything heavier than a lawn mower over your system! Even small cars and trucks can cause your system to collapse unless it has been specially engineered to go underneath a driveway or road of some sort.

In addition to traffic, fire ant damage to the aeration equipment and/or control panels, water damage to the aeration equipment and/or control panels, misuse or neglect of the system or components, and any level of destruction to the system can render all warranties void. Ant poison should be used to prevent hills from being built around the system. The list of

chemicals and products below should be avoided. Moving components, altering the wiring, or changing any part of your system could result in its damage, and that damage would not be covered by your warranty or service policy. It is important that you allow your service personnel to handle all changes to your system!

The following items should not be introduced into your wastewater:

- Bleach*
- Fabric Softeners
- Disinfectants*
- Toilet Cleaners*
- Sanitizers*
- Plastic and rubber products
- Cigarette butts
- Paper towels/baby wipes/diapers
- Heavy paper products
- Commercial or industrial waste
- Excessive volumes of water
- Ground or rain water
- Shrimp/seafood/egg shells
- Coffee grounds
- Exhaust from water softeners
- Excessive grease/cooking oil
- Toilet chemicals (Tidy Bowl, etc)
- Solvents, paints, drain cleaners
- Home Brewery waste

ANY NON-BIODEGRADABLE ITEMS!

(*Products used in normal amounts as long as manufacturer's labels are followed and amounts are not exceeded are acceptable)

(Despite package directions, condoms/feminine hygiene products should NOT be flushed down the toilet; these items in your system will void its warranty)

Rather than saving laundry to do on one day of the week, it is advised that you distribute laundry and dish washing throughout the week. Many loads on one day can overload your system. Powdered, low-sudsing, phosphate and baking soda based detergents are advised. Biodegradable and non-toxic cleansers and soaps are also suggested; fabric softening sheets instead of liquid additives are strongly advised.

In addition, do not allow surface water to pond around the unit. Do not allow non-sewage water to enter the unit. Do not allow anybody to service or maintain your system unless they have shown you that they are certified to do so.

Chlorine levels should be checked weekly, though on most systems, chlorine will need to be added once or twice a month. Chlorine for Aerobic Systems should be used; though they appear to be similar, chlorine tablets for pools or hot tubs should be avoided. Your installer or service person can direct you to a source of chlorine tablets.

Your system will need to be pumped occasionally, usually every 2-5 years. Your installer or service person can give you information on having your waste pumped and disposed of in an ecologically friendly and legal manner.

In the event that the alarm on your system should sound, you should press the “silencing” button found on the outside of the control panel mounted near the system. Pressing the silence button will not repair the problem; it will merely silence it until your service person comes to your home to determine why the alarm is sounding. Call your service provider and inform them that your alarm is sounding, along with any other information (is your system creating an odor? Are your sprinklers working? Etc).

The aerator on your Tex-Aire system as well as the control panel has data plates that display important contact information. This contact information, displaying the phone numbers and addresses for Tex-Aire, the distributor your system was purchased from, and your installer or service person can help you if your system requires service. We advise that you contact your service person first, but if you have problems contacting them, contact the distributor or Tex-Aire, Inc. for assistance with your system.

If you are gone from your home for extended periods of time, we strongly recommend that you leave the power on to your system and allow it to remain running as normal. If it is positively necessary to turn off the power to your system for more than a few days, the system should be pumped out- with the aerator running- and refilled with clean water. The aerator can then be turned off and power disconnected.

IV. **Installer/Service Person Responsibilities**

It is the Homeowners/Installer’s responsibility to obtain permits on the Tex-Aire system, and the Installer’s responsibility to explain the permits to the homeowner. It is the Installer’s responsibility to make sure the system and all components are installed properly, function properly, and are covered properly.

It is the installer’s responsibility to make sure that the homeowner fully understands their responsibilities. Regardless of whether or not local laws, rules, codes, and regulations are enforced, the service person (in most cases, the installer) is required by Tex-Aire to behave in compliance with those codes.

A two year service policy is included in the price of your system. The unit is to be inspected and assessed for service needs at least every six months (every 3 months in some areas; check with your county for requirements). The first person to hold the service contract- generally, the installer- is responsible for setting this schedule and seeing to its execution in compliance with local and state health department requirements. During the service inspections, electrical connections should be checked for proper function, dirt, and debris. The high-water alarm sensor should be checked. The Aerator should be inspected for proper function and to insure that pests have not begun nesting in or around the aerator.

Strong odors should be investigated. The water in the pump tank should be clear. The point of discharge should be inspected. The homeowner should be notified **IN WRITING** of any problems that need to be addressed and when those problems will be corrected.

Your system components have a 2 year warranty. Should a replacement part be needed after the warranty of the part in question has expired, the service person replacing the part will either give you instructions for obtaining a replacement or provide it himself. The service person is responsible for obtaining the part and providing the labor at a fair price, and dealing with its replacement and any other repairs in a timely manner.

An additional 1 year manufacturers' warranty is available to extend your initial warranty to a total of 3 years at an additional cost. This warranty protects your components for an additional year and details are available only from your initial service provider.

Service personnel are responsible for responding to homeowner's requests for emergency service within 48 hours. This pertains to those events where your alarm is sounding, a part has ceased to function, or the system is odiferous or backing up. Failures to respond to initial contact attempts within 48 hours should be called to the attention of your county board of health.

The name and contact information of your service person is located on a sticker on the control panel of your system, as well as at the end of this document.

V. Appendices

A. Tex-Aire Limited Warranty Policy

Tex-Aire, Inc., warrants the parts in each treatment system to be free from defects in material and workmanship for a period of two years from the date of installation treating residential wastewater. Tex-Aire shall fulfill this warranty by repairing or exchanging any component part that in Tex-Aire's judgment shows evidence of defects, provided said component part has been paid for and is returned through an authorized dealer, transportation prepaid. The warrantee must also specify the nature of the defect to the manufacturer.

The warranty does not cover treatment systems or components that have been flooded by external means or that have been disassembled by unauthorized persons, improperly installed, subjected to external damage, or damage due to altered or improper wiring or overload protection.

This warranty applies only to the treatment system and does not include any of the residential wiring, plumbing, drainage, or disposal system. Tex-Aire is not responsible for any delay or damages caused by defective components or materials, for loss incurred because of interruption of service, or for any other special or consequential damages or incidental expenses arising from the manufacture, sale or use of this system.

Tex-Aire reserves the right to revise, change, or modify the construction and design of the treatment system for residential wastewater or any component part or parts thereof without incurring any obligation to make such changes for modifications in previously sold equipment. Tex-Aire also reserves the right, in making replacements of component parts under this warranty, to furnish a component part which, in its judgment, is equivalent to the company part replaced.

Under no circumstances will Tex-Aire be responsible to the warrantee for any other direct or consequential damages, including but not limited to lost profits, lost income, labor charges, delays in production, and/or idle production, which result from defects in material and/or workmanship of the system in states where such provisions are permissible.

This warranty gives Tex-Aire and the warrantee specific legal rights. Other rights may also be available that vary from state to state.

B. Record of Service

Please keep this with your Home Documents:

Tex-Aire Record of Service:

_____ 500 GPD

_____ 600 GPD

_____ 750 GPD

_____ 1000 GPD

Aerator SN# _____

Installer name and Phone Number: _____

Tex-Aire, Inc.
1824 Profit Lane
Bossier City, LA
71111
877-752-3700

DATE:	SERVICE PERFORMED:	TECHNICIAN:

Warranty Registration Card- Please Return

You have the Tex-Aire:

_____ 500 GPD

_____ 600 GPD

_____ 750 GPD

_____ 1000 GPD

Aerator SN# _____

It is imperative that you send in the warranty registration card below.

-----CUT HERE-----

Please fill out and return within 60 days of installation:

Tex-Aire, Inc.
1824 Profit Lane
Bossier City, LA 71111
318-752-3700

Name _____

Address _____

City _____ ST _____ ZIP _____

Phone number: _____

Installer: _____

Installer's Phone _____

Date of Installation: _____

SN# _____