

Atlas Aire
Advanced Wastewater products

Owners Manual
Atlas Aire

Atlas Aire
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817-638-9053

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Introduction

Thank you for your purchase. You have chosen the very best technology the industry has to offer for individual on-site wastewater treatment applications. The Atlas Aire Wastewater Treatment System is a Class 1, mechanical, aerobic, wastewater treatment plant that will process your household sewage into a clear odorless liquid within 24 hours. The Atlas Aire Treatment System was tested against the NSF Standard No. 40 and certified by the NSF International.

Atlas Aire Operation

The process the Atlas Aire uses to treat common household wastewater is an extended aeration (use of air introduced into the sewage through diffusion), activated sludge process. When air is introduced to the wastewater, it promotes growth of aerobic bacteria and other microorganisms that break down the organic material found in regular household sewage.

Inside the aeration chamber the wastewater should appear to be brown in color. This is caused by the return of sludge from the clarifier. As the wastewater leaves the aeration chamber, it enters this clarifier better known as the "quiet zone". No mixing should occur inside the quiet zone.

In the clarifier, the solids separate from the liquid and settle to the bottom of the clarifier; this solid material is called sludge. Sludge contains dissolved oxygen and the bacteria it contains are activated by oxygen. This activated sludge is returned to the aeration chamber to be mixed and digested again. The sludge mixes with the incoming wastewater and this mixture of returned sludge, wastewater, and dissolved oxygen is referred to as mixed liquor. The mixed liquor flows back into the clarifier, the solids separate and return once again to the aeration chamber. This never-ending cycle produces high quality effluent that is ready to be released to the environment.

As the owner of Atlas Aire, you have power (120 volt) supplied to the unit at all times with the power switch on the aerator's control panel turned to the on position. You must keep pets, livestock, and children away from any components of the system. You are not required to perform maintenance to the unit at any time. However, you will need to monitor wastewater leaving your house going to the Atlas Aire System for items detailed later in this user's manual.

System Startup

Upon completion of the installation of your new system, you will need to fill the unit with water if it has not already been done. Once the unit has been filled with water and all electrical and plumbing connections have been made, you are ready to start using your new system.

In order for your new system to maintain its biological stability and give you years of outstanding performance, there are a few things you should know about your new unit.

Your local regulation authorities have sized your new Atlas Aire Wastewater Treatment System for your house. This means you should try to maintain a certain amount of water flow into the unit per day. You can find the size of our unit at the back of this book. The amount of flow the unit should obtain per day is as follows.

Unit Size	Safe Zone
Atlas Aire 500	350 – 550 gallons per day
Atlas Aire 750	650 – 800 gallons per day
Atlas Aire 1000	800 – 1000 gallons per day

Unlike living inside annexed areas (places where homes are tied to central sewage) the Atlas Aire is designed to handle only regular household sewage. Waste from sources other than organic or human should be deposited into a waste container. Some, but not all of the items are: Rubber products, plastic products, feminine products, large paper products (paper towels, diapers, bags, etc...), harsh detergents and bacterial killing agents (bleach, liquid fabric softeners, grease, oils heavy metals, etc....). Please refer to items that are not safe in this manual.

Note: you can use common cleaners with the Atlas Aire Wastewater Treatment System as long as you follow the manufacture's instructions on the labels of the products. You will also want to monitor your frequency of washing clothes and dishes as this could complicate the treatment process, if most of the wastewater from your house is the level of sewage (gray water). Gray water does not contain enough organic material to help the treatment process at all.

The Atlas Aire Wastewater Treatment System is much like a living organism in that it needs things to work and perform properly. Your new unit can treat most any type of household wastewater you put into it. This includes showers and baths, clothes and

dishes, and toilet water. However, there are also some things that you should try to keep from going down the drain. These items include, but are not limited to grease in any amount, hair in large amounts, and the use of garbage disposal in heavy volumes.

Items that are safe to use

It is acceptable to use household cleaners as long as they are not over used. Following the manufacturers directions of the cleaner's labels on the containers, you should be fine with the amount of chemicals being used in the Atlas Aire Wastewater Treatment System. Other than regular household sewage and minor use of cleaners, any other products should not be introduced to the Atlas Aire System.

Items that are not safe to use

The following is a list of products and items that should never be allowed to flow into the Atlas Aire Wastewater Treatment System:

1. Large amounts of bleach or any other chemical that can kill bacteria.
2. Large amounts of disinfectants
3. Chemicals that have high volumes of bacteria killing agents
4. Cigarette filters, condoms, feminine products, large paper products, and any rubber products
5. Shrimp shells, coffee grounds, or any level of cooking grease and oils
(Chemicals that are designed to clean out drains or correct "septic tank" problems)

Note: the Atlas Aire Wastewater Treatment System is not a "septic tank". Septic tanks use or work by a different form of bacteria and the use of chemicals that correct septic tanks could greatly affect the "aerobic" bacteria in your new unit. In any case, it is a good idea if you have doubts about a certain chemical; call you local authorized Atlas Aire representative or the corporate offices.

The Control Panel

Each Atlas Aire Wastewater Treatment System has its own control panel. This panel is located in the aeration equipment. This control panel is equipped with a complete systems malfunction alarm system. The alarm system allows you to monitor the entire unit without performing a complete systems check. This is how it works – if for any reason the air pressure in the aeration system drops, the alarm will sound. It is that simple. If you should notice your alarm system (internals to the air compressor) sounding, you will know something is not working as it should and you will need to contact either your installer or service provider for maintenance. Should you need a service provider for you system, contact the home office at 940-433-3220.

Pumping and Cleaning

The Atlas Aire Wastewater Treatment System is designed with you in mind meaning we strive to relieve you of the burden of common and troublesome septic problems associated with other systems on the market. However, you will need to have a competent septic tank cleaning service clean your unit every 3 to 7 years depending on your daily loading. You should expect to obtain one inch of sludge at the bottom of your unit every year. If you use more water than what the unit was designed to handle, you will have more build up in less time, this means you will need to have your system pumped and cleaned more frequently.

Homeowner Responsibilities

There are a few things that you will need to do in order for your new Atlas Aire Wastewater Treatment System to work to its full potential. These things include but not limited to:

1. Make sure the aerator is never exposed to water or fire ants. Your warranty does not cover water or fire ant damage.
2. Make sure the unit is not exposed to vehicular traffic. This will cause damage to the tank.
3. Do not attempt to clean the aerator filter (the only filter on the unit) or service any part of the unit yourself. Doing so could result in electrical shock and may cause sever bodily damage or death.
4. Always be sure children are not allowed to play on or around any part of the unit. It is a good idea to teach you child or children about the unit and any other part of you septic system so they will know not to play around it.

Detecting Problems

If you notice the alarm sounding, call your installer or service provider for assistance or possible maintenance. The only thing the alarms system does not detect on its own is the actual treating of the wastewater. If you do ever experience odor problems or notice the units not producing the normal high quality wastewater output (effluent), call your installer or local service provider.

Non-Frequent Use

If you do not think your unit is going to be used on a regular basis, such as in vacation home or an alternative address, you should turn off the toggle switch on the air compressor until someone returns to the address. Pumping the unit is not required on seasonal use of the Atlas Aire. **DO NOT ALLOW THE ATLAS AIRE TANK TO BE EMPTY FOR ANY EXTENDED PERIOD OF TIME.**

Service Data Plates

On every unit installed, you should see data plates on the control panel and on the compressor (aerator). The data plate on the control panel will have information for you for obtaining service. Usually this company or person is the person who installed your

unit. If you need service on the unit or you notice the unit is not working, as it should be, contact the person on the plate.

Warranty

Atlas Aire warrants every new Atlas Aire Wastewater Treatment System to be free of defects in materials and craftsmanship for a period of 24 months after initial installation.

During the warranty period, if any components are found to be faulty, defective, or fail to perform as specified when operating at design conditions, and the equipment has been installed, operated, and maintained as specified in the written instruction supplied by Atlas Aire. Atlas Aire will repair or replace at its sole discretion such defective parts – at no cost. Transportation and shipment of defective components must be handled through an Atlas Aire Representative OEM postage paid if requested by system owner. The cost of labor, shipment, and all other costs associated with replacement of defective components shall be bore by the owner. This warranty does not cover components that have received damage from, but not limited to; flooding, neglect, misuse, abandonment, pest, or pets, heavy equipment, disassembly, or service by unauthorized individuals, improper wiring, electrical and operational over load, and traffic by motor vehicles or livestock. Atlas Aire reserves the right to make modifications and changes without notice to components of the system or the system design without obligation to system owners.

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Atlas Aire Warranty supersedes all other warranties whether expressed or implied by any other third part individuals by law. Only Atlas Aire can amend to or make changes to this warranty. Please register your new Atlas Aire Wastewater Treatment System within 30 days of initial installation.

Service Policy

The local dealer/installer from whom you purchased your Atlas Aire wastewater treatment plant is responsible for routine inspections for the first two years from the original date of installation. The plant will be checked for proper operation at each inspection. If a problem exists, service will be performed at no charge to the owner unless the requited maintenance is not warranty related these service call/inspections shall include at least four inspections over the two year period and shall include the following:

1. Adjustment of the electrical control, if applicable, and servicing of the mechanical component parts to ensure proper function.
2. An effluent quality inspection consisting of a visual check for color, turbidity, scum overflow, and an examination of odors.

3. Immediate notification to the owner/warrantee in writing of any improper observation which cannot readily be reported. This notification will or shall advise said owner of the problem, if it is covered by warranty and estimated date for correction of said problem.
4. Pumping of sludge build up from the treatment plant, if necessary, IS NOT INCLUDED in the initial service policy,

At the end of this initial 2 –year period, you have the option of purchasing an additional service policy much the same as the initial service policy. Some variation in the policy may be added but it's generally the same. We encourage you to purchase this additional policy at that time, as this will help your system performance for many years to come.

Note: In some states, it is a requirement for you to have a continual service agreement make with a licensed service provider who is authorized to service the Atlas Aire Wastewater Treatment System.

MANUFACTURER'S WARRANTY REGISTRATION CERTIFICATE

It is the **authorized dealer/installer's responsibility** to fill out the registration certificate and mail it **within 30 days** of installation to the address below. The owner/purchaser should verify that this is done to insure proper registration for warranty purposes/

THE TURNER COMPANY
P O BOX 885
RHOME, TX 76078
OFFICE: 817-638-9053 FAX: 817-636-2593

PLEASE PRINT
ATLAS AIRE PURCHASER'S RECORD

Serial# _____ Model# _____ Installation _____
Date _____
Installer's Name _____
Mailing Address _____
_____ Phone _____

ATLAS AIRE INSTALLER'S RECORD

Serial# _____ Model# _____ Installation _____
Date _____
Owner's Name _____
Physical Address/City _____
_____ Phone _____

ATLAS AIRE REGISTRATION CERTIFICATE
(Must be returned to manufacturer)

Serial# _____ Model# _____ Installation _____
Date _____
Owner's Name _____
Physical Address/City _____
_____ Phone _____
Dealer's Name _____
Mailing Address _____
_____ Phone _____
Installer's Name _____
Mailing Address _____
_____ Phone _____