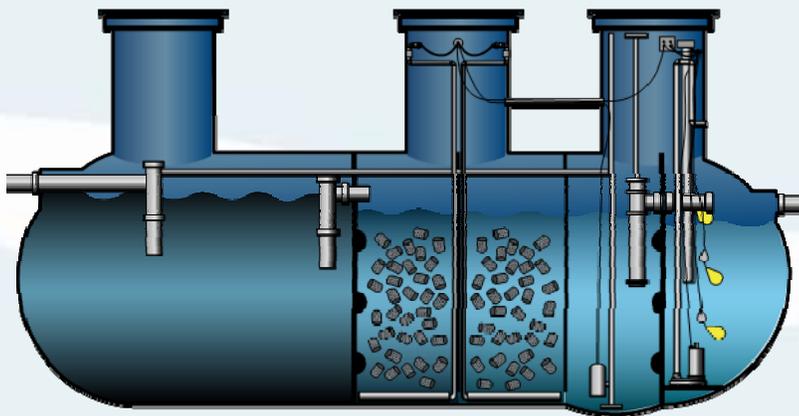




# *MicroSepTec*

## **EnviroServer** *ES Series*



## **Owner's Manual**

**MicroSepTec**  
877 473-7842  
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Distributed by:

# Congratulations!!!!

And thank you for selecting the EnviroServer® ES Series Wastewater Treatment System. Sometimes the simplest solution is the best; that's the case with the EnviroServer®. Simple, because the entire treatment system is in one tank. Simple, because the only moving part is the compressor. Simple, because there is minimal intrusion to the landscape. Simple, because the process is accomplished with aeration and agitation, the same as sewer treatment plants. Simply simple!

The system employs a naturally-occurring biological process and, although it is robust, certain care must be taken. This manual will let you know what the EnviroServer® ES Series is, how it works and what is needed to keep it operational and healthy for as long as you own it. **Please read through the entire manual.** Familiarize yourself with all maintenance recommendations, safeguards and care instructions. Don't forget to educate members of your household and guests about the system, paying particular attention to the Safeguards.

## What is the MicroSepTec EnviroServer® System?

The EnviroServer® ES is a pre-engineered, pre-fabricated onsite wastewater treatment system that is typically used in areas where sewer is not available and septic systems are not permissible due to environmental concerns. The system uses an accelerated natural biological process for wastewater treatment in a single tank design without employing any chemical or biological additives. The EnviroServer® ES is engineered for dependability and proven reliability. It uses a heavy-duty fiberglass tank, which is the preferred method of storage for volatile fluids like gas and oil, and it employs industrial compressors and pumps (when needed) that function reliably for many years. The system is based on simple “plug and play” concepts to allow for quick installation and maintenance, with a minimum of moving parts.

The EnviroServer® ES is the only product available that is self-contained in a single tank. As a result, it requires minimal excavation which reduces installation costs, and it can be installed in lots with space constraints. The tank leaves a very small footprint, which can be covered with flagstone, fake rocks, etc.; there are no large, unsightly boxes or lids visible in the landscape. The tank can also be installed in traffic-rated situations with minimal special requirements.

Because the compressor is the only moving part, minimal upkeep is required. Semi-annual maintenance and inspections are mandatory to meet warranty requirements, but this can be completed on the EnviroServer® in about an hour, keeping operational costs low. When properly designed, installed and maintained, there are no sewer gas smells with the EnviroServer® ES. This is because it uses high-efficiency, low-flow compressors that run continuously and with no noticeable noise.

Optional equipment includes effluent pumps, electric recirculation pump, ultra-violet disinfection and telemetry. The system can be configured to meet the needs of each specific site, depending on the options required and the location of the components.

The EnviroServer® ES is designed and manufactured for quality and reliability. Periodic inspections and preventative maintenance is required in order to maintain the warranty. Regulatory agencies may have additional requirements. Only MicroSepTec **TRAINED AND AUTHORIZED** personnel must complete all inspections, service and maintenance.

## Safety

### **The EnviroServer® System must be installed and serviced by MicroSepTec trained representatives.**

Proper tools must be used in the installation process to ensure assembly to manufacturer's specifications and to prevent damage and injuries.

### **To reduce the risk of fire, electrical shock, or injury:**

- Do not use any flammable liquids near any portion of the EnviroServer®
- Keep flammable materials and vapors, such as gasoline, away from the EnviroServer®
- Never operate the system with any of the covers opened or removed
- Do not attempt to open manhole covers
- NEVER, under ANY circumstances, enter the tank
- There are no owner-serviceable parts on the EnviroServer® System.....ALL SERVICE MUST BE PERFORMED BY A MICROSEPTEC AUTHORIZED PROVIDER.

## Materials Supplied by MicroSepTec

The following items are supplied by MicroSepTec as part of the EnviroServer® ES System:

### 1. Water Processing Tank Assembly to include:

#### Fiberglass Tank

- ES6 – 2,493 gallon tank
- ES12 – 3,634 gallon tank
- ES25 – 7,540 gallon tank

#### Access Man-ways with Adjustable Risers

#### Air Diffuser Assembly

#### Air Compressor(s)

- ES6 - One HiBlow Compressor HP-120 or equal
- ES12 - Two HiBlow Compressors HP-120 or equal
- ES25 - Two HiBlow Compressors HP-200 or equal

#### Recirculation Air-Lift Pump Assembly

#### Effluent Filter

#### High Level Alarm Float Assembly

#### Compressor Pressure Switch

#### Tank Plumbing & Electrical fittings

#### Optional UV Disinfection Assembly with Alarm Sensor

#### Optional Effluent Discharge Pump Assembly (low or high pressure)

### 2. Alarm & Control Panel to include:

#### Alarms

- Audible and Visual Alarm for High Water Level
- Visual Alarm for Air Compressor Failure (audible alarm is optional)
- Visual Alarm for Optional UV Light Failure (audible alarm is optional)

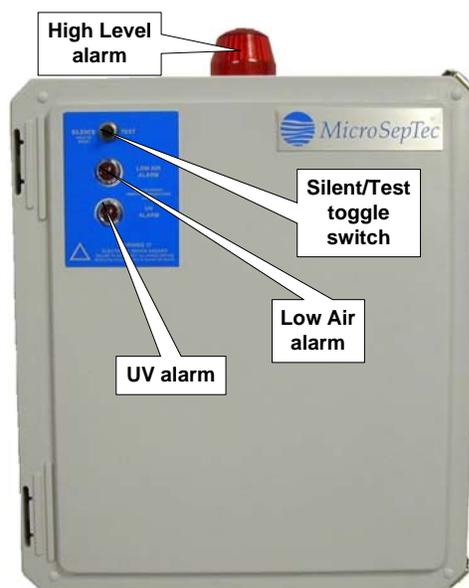
Timer controls for optional effluent pump & solenoid valve for automatic back-flush filter

Optional Telemetry Panel that connects to the Alarm Board and telephone line

## Air Compressor Location

- Compressors should be located in a well-ventilated, shady place. An indoor location like a shed or garage is ideal.
- Compressors must be elevated off the ground so that surface water cannot enter the electrical terminals within the compressor.
- Compressors should be located as close to the tank as possible; do not exceed 50' distance from tank.
- 1" Schedule 80 PVC pipe is required for plumbing the compressors to the middle riser, one pipe per compressor. The pipe must fall toward the tank with no low points.
- Compressors must be located at the same elevation or higher than the lid of the middle riser.

## Audible and Visual Alarms & Controller



### System Alarms

If you see any red lights on the door of the controller, please call your Service Provider immediately.

If you need to silence the alarm, simply press the toggle switch on the door to the “Silence” position.

The following is a list of possible alarms:

- **Dome light steady** (top light) – High water level in tank
- **Dome light blinking** – Spare alarm input activated (e.g. lift station)
- **UV alarm light steady** – UV light malfunctioning (UV option)
- **Low Air alarm light steady** – Air compressor malfunctioning or piping/tubing leaks
- **Low Air alarm light blinking** – Power Failure
- **Both UV alarm & Low Air alarm lights blinking** – Communication Failure (telemetry option)

The High Level alarm will cause the audible alarm to buzz steadily; if used, the spare input alarm will cause the audible alarm to buzz intermittently. The audible alarm can also be configured to buzz with UV alarms and/or Low Air alarms.

All alarms can be cleared by holding the “Silence” switch (front of panel) for 3 seconds, which will reset the panel. If the alarm comes back, call your Service Provider immediately.

# IMPORTANT SAFEGUARDS

## Range of Operating Conditions

In order for the system to perform as intended, the EnviroServer® must be properly installed and maintained by a MicroSepTec Authorized service provider. The EnviroServer® ES6, ES12 and ES25 are designed to process up to 600, 1,200 and 2,500 GPD (gallons per day), respectively, of residential strength\* wastewater. The design flow is based on an average throughout the day; as such, high peak flows can adversely affect the treatment process. Peak flows of greater than 4 gallons per minute, 10% of the design flow per hour, and 50% of the design flow over 6 hours will increase the likelihood of poor performance of the system, and should therefore be avoided.

\*The system is designed to treat typical residential strength wastewater. Typical properties of residential wastewater are: 150-200 mg/l CBOD<sub>5</sub>, 150-250 mg/l TSS and 40-60 mg/l Total Nitrogen. Influent strengths greater than the properties stated above will decrease the treatment capacity per day.

## Water conservation

Conserving water will reduce hydraulic loading of the system and disposal field, thereby minimizing maintenance and waste. A few tips that will go a long way to limit water use:

- Turn off the water when it isn't needed (e.g. when washing food, dishes, hands; brushing teeth, etc).
- Wipe dishes in trash prior to washing
- Take shorter showers. When bathing, don't fill the tub all the way.
- Use water-saving devices, including faucets, shower heads, washing machines, dishwashers and toilets.
- Only run washing machine and dishwasher with full loads.
- Spread out laundry chores throughout the week, rather than multiple loads in a day.
- Repair any leaking fixtures. A leaky toilet can waste as much as 2,000 gallons per day!!

## Do Not Flush List

The EnviroServer® employs a natural biological process. As such, it is critical that certain items not be introduced to the system. The items below constitute a representative example of items that should never be poured down a drain or flushed down a toilet. These items can overtax or destroy the natural biological digestion taking place within the system or clog pumps and pipes.

**NOTE:** These items are broad categories that are intended to serve as examples and are by no means all-inclusive.

- Toxic chemicals, such as: paints, varnishes, thinners, waste oils, photographic solutions, pesticides, herbicides, fertilizers, acids, bleaches
- Gasoline in any form
- Fat, greases and oils, including cooking refuse and large amounts of bath salts/oils
- Food by-products, including coffee grounds, tea bags, fruit seeds, gum, egg shells, etc.
- Cigarette butts
- Kitty litter
- Paper products, including non septic-safe toilet paper, paper towels, Kleenex, disposable diapers, feminine hygiene products, Gauze bandages, etc.
- Condoms
- Dental floss, hair or lint, including from dryer and/or washing machine
- Construction debris
- Cleaning supplies, including disinfectants, detergents, rug cleaners, polishing wax, etc.
- Septic additive products
- Prescription medicines
- Water softener backflush

**NOTE:** Garbage disposals should never be used with any septic system because they overtax the system.

## Extended Periods of Non-Use

If the EnviroServer® System is used intermittently and/or if extended periods of non-use are anticipated, no special actions are required as long as the power is on and the system continues to operate. Due to the nature of the EnviroServer®, the system will adjust itself as the need requires.

## Maintenance Policy

All MicroSepTec systems must be covered by an onsite parts and labor maintenance agreement with a local MicroSepTec authorized service provider.

This maintenance agreement should provide:

- 24 hour per day onsite service response for emergency system problems.
- Periodic onsite service inspections by MicroSepTec Authorized Service Technicians.
- Any required reporting to local regulatory agencies, in accordance to the permit.

### **Monitoring agreement (optional)**

- If the telemetry option is selected, MicroSepTec offers remote monitoring of the EnviroServer® for an annual fee. This system will automatically alert the authorized service provider of any equipment malfunctions.

### **Ordering replacement parts**

- Replacement parts are available from your local MicroSepTec distributor/dealer.

### **Warranty**

- All MicroSepTec systems come with a 2-year limited warranty. Copies of the warranty are available from your local MicroSepTec distributor/dealer. The warranty document is also shipped with each system inside the Owner's Manual that should have been provided to the property owner.

**NOTE: The MicroSepTec Installation Sign-Off Form and Start-Up Form must be completed upon installation and submitted to MicroSepTec to validate manufacturer's warranty. A copy of this form is shipped with each system. Additionally, inspections must be completed bi-annually and Inspection Forms submitted to MicroSepTec in order to continue validation of warranty.**

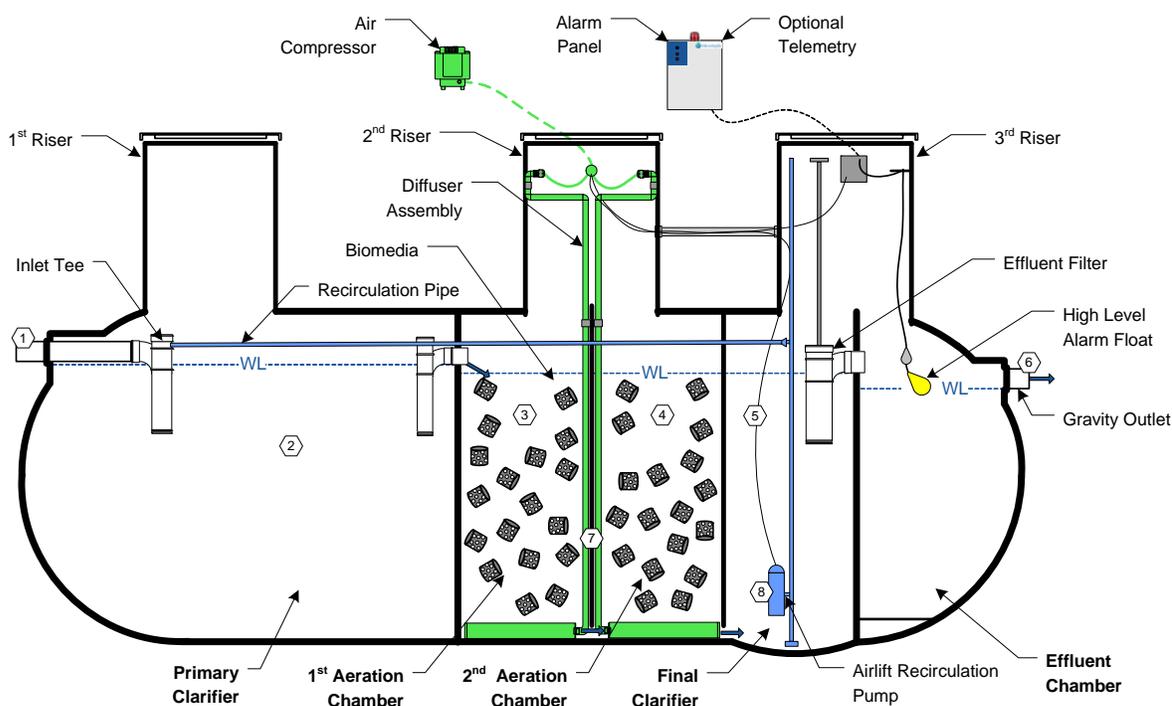
## Recommended Maintenance

The following is a list of recommended maintenance to ensure the high quality of treatment in the EnviroServer® ES System:

Item	Frequency	Maintenance
Air Compressor	6-month or as required 12-month or as needed	Inspect/Clean filter – rebuild as needed Replace filter
Sludge/Scum Level 1 <sup>st</sup> Compartment	6-month or as required	Inspect/Pump as needed
Sludge/Scum Level 4 <sup>th</sup> Compartment	6-month or as required	Inspect/Pump as needed
Airlift Recirculation Pump	6-month or as required	Inspect/Clean if needed
Effluent Filter	6-month or as required	Inspect/Clean if needed
Controller & Sensors	6-month or as required	Inspect/Test
Effluent Pump (option)	6-month or as required	Inspect and clean
UV Disinfection (option)	6-month or as required	Inspect and Clean. Replace bulb every 2 years, even if still working, or as needed.
Diffusers	6-month or as required	Inspect and clean

**NOTE:** There are no user-serviceable parts on the EnviroServer® System. All service must be performed by MicroSepTec Authorized Personnel.

## How the System Works



### Stage 1 – Primary Clarification

The figure above shows a process flow diagram of the EnviroServer® ES Model. Wastewater influent (1) from the house is gravity fed into the first compartment (2) (Primary Clarifier) of the system. In the first compartment, settling of the sludge and solids occurs. The primary clarified wastewater overflows into the second compartment of the system (First Aeration Chamber) (3) through sanitary tees.

### Stage 2 – Biological Organic Removal

In the second compartment, the wastewater is aerated using a high-efficiency low-pressure air compressor and a fine-bubble membrane air diffuser assembly (7). The diffuser assembly is custom designed to ensure maximum oxygen transfer and optimum mixing of dissolved substrates and oxygen. Furthermore, the mixing ensures that the solids remain suspended within the reactor and that the biomedia does not clog. The aeration promotes the growth of aerobic microorganisms, which convert and remove biodegradable organic matter. (The organics removed by the aerobic process are the constituents that are measured in the CBOD<sub>5</sub> test.)

To optimize the contact time and the mean cell residence time, the EnviroServer® utilizes a biomedia in the aerobic sections. This plastic media is used to supply a support structure for the establishment of a resident biofilm and is specifically developed for optimized biological growth without clogging. The design allows the biomass to attach to the biomedia and not flush out during high flow rates. The biomedia also enhances the nitrification process, which requires a larger population of organisms due to the lower metabolic rate of the nitrifying bacteria.

### Stage 3 – Biological Ammonia Conversion (Nitrification)

The partially treated wastewater, now low in carbon but high in ammonia, flows into the third compartment (Second Aeration Chamber) (4) of the system and is aerated in the same manner as the second compartment. The combination of low carbon content, high ammonia, and high oxygen levels in this chamber promotes the growth of nitrifying microorganisms (Nitrosomonas and Nitrobacter). The nitrifying microorganisms convert ammonia to nitrates utilizing the oxygen in the wastewater.

## Stage 4 – Clarification

The two-stage aerobically treated wastewater, which is now high in nitrates but low in carbon (BOD), flows into the fourth compartment (Final Clarifier)<sup>(5)</sup> of the system where clarification and settling of suspended solids occurs.

## Stage 5 – Nitrate Removal

To promote denitrification, the wastewater is recirculated<sup>(8)</sup> from the final clarifier back to the primary clarifier, which contains sufficient carbon to promote denitrification. Denitrification occurs because the bacteria in the primary (anoxic) clarifier use the oxygen from the nitrate molecules in their metabolic process; the nitrogen left over from this reaction is then released as a gas.

## Stage 6 – Solids Removal

The recirculation also helps prevent accumulation of biomass in the final clarifier, decreasing the need for periodic removal. Removing the accumulated biomass helps ensure optimum clarifier performance, resulting in an effluent with low suspended solids. The transfer of the biomass to the primary clarifier ensures a large vital population of microorganisms for the organic and nitrogen removal processes in the aeration compartments. When the water is recirculated, it carries nutrients from the primary clarifier into the aeration compartments. Thus, the available nutrients are utilized to sustain the population as long as possible, particularly in times of low loading such as vacation periods. In normal operation, this keeps sludge build-up to a minimum by helping break up and dissolve the solids, thereby making the nutrients available for the microorganisms.

Because of the recirculation, the sludge is accumulated and stored in the primary clarifier. The primary clarifier is sized to hold sludge for one to three years, depending on the usage of the system, and will need to be pumped as needed. The first baffle is reinforced to be able to withstand the hydraulic pressure of the first compartment being empty and the second full.

## Stage 7 - Effluent Filtration and Disinfection (optional)

The clarified water leaves the treatment compartments through an effluent filter into the final storage compartment (Effluent Chamber). The effluent filter protects the effluent chamber and subsequent dispersal field from solids carry-over during upset conditions. It is designed to remove all particles larger than 1/16".

A UV-disinfection unit is offered as an option to eliminate remaining pathogens, including fecal coliform. When selected, the clarified water passes through a disinfection unit after it leaves the effluent filter. The effluent is now ready for subsurface discharge<sup>(6)</sup>.

## Alarm and Control Panel

The EnviroServer® ES System is equipped with a local audible and visual alarm for detecting high water level, air compressor failure, and optional UV disinfection failure. The panel is also capable of time dosing an effluent pump.

## Telemetry (optional)

The EnviroServer® System is offered with an optional telemetry panel, which will send the alarms via a modem connection to the MicroSepTec eConnect Server. The eConnect Server will automatically notify the assigned Service Provider about the malfunction.

## Major Component Functions

- 1. Aeration Diffusers** – The two membrane air diffusers are located in the bottom of the second and third compartments and are supplied air from external air compressors. The diffusers transfer dissolved oxygen to the chamber and agitate the biomedium and suspended solids for rapid bacterial digestion of organic matter.
- 2. Airlift Pump** – This pump resides in the fourth compartment; it recirculates water and biomass back to the first compartment. The pump has no moving parts and uses air to lift the water and siphon it through piping back to the first chamber. The rate of recirculation is controlled by a needle valve that controls the volume of air provided to the pump. The pump should recirculate 8% of the system capacity per hour, but it may be adjusted depending on actual system loading.
- 3. Alarms** – The EnviroServer® is equipped with a series of alarms. These alarms are:
  - High-Level alarm** – The alarm is activated by a float switch mounted in the fifth compartment that monitors the water level. When the high-level float switch is tipped, an audible alarm will be heard and the red dome light will be lit on top of the controller. If the system contains a telemetry monitoring system, the service provider will automatically be notified when the condition exists for more than 5 minutes.
  - Low Air alarm** – The alarm is activated by pressure switches that monitor air pressure from the compressors to the internal components. The Low Air Alarm light on the door of the controller will be lit when low air pressure is sensed; the controller may be programmed to sound an audible buzzer. If the system contains a telemetry monitoring system, the service provider will automatically be notified when the condition exists for more than 5 minutes.
  - UV alarm (optional)** – The alarm is activated by the UV system circuitry that monitors continuity across the UV bulb. The UV Alarm light on the door of the controller will be lit when a UV failure is sensed; the controller may be programmed to sound an audible buzzer. If the system contains a telemetry monitoring system, the service provider will automatically be notified when the condition exists for more than 5 minutes.
  - Spare alarms** – The system contains two spare alarms. The first spare alarm requires a Normally Closed input circuit and it activates a flashing dome light and an intermittent buzzer. The second spare alarm circuit requires a Normally Open input circuit and provides no audible or visual indication. If the system contains a telemetry monitoring system, the service provider will automatically be notified when either condition exists for more than 5 minutes.
  - Communication Failure alarm (optional)** – The alarm is activated by circuitry in the telemetry board. It causes both alarm lights on the controller door to blink when communication fails.
- 4. Compressors** – Air compressors provide air to the diffusers and the airlift recirculation pump. The ES6 uses one compressor and both the ES12 and ES25 use two compressors. Since airflow is the key to the proper function of the system, the compressors run continuously. Compressors must be serviced about every 3-4 years, or as needed.
- 5. Electric Effluent Pump (optional)** – An effluent pump is used when gravity flow from the system is not adequate. These pumps are powered through a relay controlled by the controller and/or float switches. The relay may be mounted in either the controller or a remote relay box, depending on system configuration. Inside the controller, DIPswitches control the pump cycle and run times. Additionally, high-level override and low-level cutout floats monitor the final compartment water level and override timer settings. If the water level becomes too high, the high-level override float switch will turn the pump on; if the level is low, the low-level cutout float will turn the pump off. When the system is first powered on, the pump will immediately run based on the settings of the DIPswitches. The system can also be configured to operate duplex effluent pumps. If so equipped, the timer and low-level cutout float operate one pump, while the high-level override float operates the other pump.
- 6. Electric Recirculation Pump (optional)** – The electric recirculation pump can be used instead of the airlift pump. It is installed in the fourth compartment and recirculates water and biomass back to the first compartment. This pump is controlled by a timer relay that may be mounted in either the controller or a remote relay box, depending on system configuration. The relay contains two knobs that are used to set the system recirculation frequency and cycle time.

7. **High-Level Override (optional)** – When the system includes an optional effluent pump, the EnviroServer® is equipped with a high-level override (HLO) float. When the water level in the fifth compartment becomes high enough to tip the HLO float, the electric effluent pump is activated regardless of timer settings. If duplex effluent pumps are required, this float operates the second pump rather than overriding the timer on the first pump.
8. **Low-Level Cutout (optional)** – When the system includes an optional effluent pump, the EnviroServer® is equipped with a low-level cutout (LLC) float. When the water level in the fifth compartment drops below a minimum level this float switch will turn off the effluent pump relay, to prevent the pump from running dry, regardless of timer settings.
9. **Pressure Switches** –The EnviroServer® is equipped with one or two pressure switches that monitor the air pressure from the compressors to the air diffusers and airlift pump. The pressure switches may be mounted in one of three locations in the system, depending on system configuration. The switches may be mounted in (1) an internal junction box in the 3rd riser of the tank, (2) in an external relay box, or (3) in the controller.
10. **Silent/Test Switch** – This switch is mounted on the exterior of the controller door and is used to test the alarms, to silence an audible alarm, and to reset the system. Moving the switch to the 'Test' position will turn on the audible alarm and alarm lights. Moving the switch to the 'Silent' position will turn off the audible alarm when buzzing. Holding the switch in the 'Silent' position for 3 seconds will reset the system, which will turn off the alarms and reset any internal timers.
11. **Telemetry (optional)** – The telemetry system monitors all alarm conditions in addition to system power outages. If any alarm condition continues for more than 5 minutes, the telemetry system will dial a remote monitoring computer. The remote computer will log the alarms and alert the service provider with phone and email messages.

**UV disinfection (optional)** – The UV disinfection system contains an Ultraviolet light, placed in the path of the effluent water, which kills pathogens as they pass by the bulb. The UV system contains a circuit that monitors current flow to the UV light. If this current flow drops below a minimum, the UV alarm will be triggered. Regardless of an alarm condition, the UV bulb must be replaced every two years because it loses its intensity and therefore its effectiveness.

## LIMITED WARRANTY

### MicroSepTec EnviroServer® ES Series

*What is covered:* MST Manufacturing, LLC (“MST”) warrants the parts in each *EnviroServer*® Advanced Treatment System to be free from defects in material and workmanship for a period of two years from the date of initial installation as evidenced by the installer’s Installation Sign-Off Form, or three years from date of sale, whichever occurs first.

*What MST Will Do To Correct Problems:* MST’s sole obligation under this warranty is to fulfill this warranty by repairing or exchanging, at the sole discretion of MST, any component part, F.O.B. factory, that in MST’s judgment shows evidence of defects, provided said component part has been paid for and is returned through an authorized dealer or distributor, delivery charges prepaid, along with proof of the date of original purchase, date of installation sign-off and a written statement from the warrantee specifying the nature of the defect.

*What This Warranty Does Not Cover:* This warranty covers only normal residential use within the United States. MST cannot warranty the treatment performance of the system since it cannot predict or control the nature of the influent and the effect of the influent on the biological process. MST is not responsible for warranty service should the MST label, the rating label, or serial number be removed or should the product fail to be properly maintained or fail to function properly as a result of misuse, abuse, improper installation, neglect, improper shipping, damage caused by disasters such as fire, flooding by external means, lightning, improper wiring or electrical current, interaction with non-MST products, service other than by a MST authorized service provider or the introduction of hazardous or harmful materials into the system.

This warranty applies only to the *EnviroServer*® and does not include the chlorine tablets or UV lamp, if applicable, or any of the existing on-site wiring, plumbing, venting, drainage, or additional disposal system components. In addition to, and not in limitation of anything else contained in this warranty, MST is not responsible for any delay or damages caused by defective components or material, or 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 the *EnviroServer*®.

The *EnviroServer*® wastewater treatment system is based on a biological process using natural bacteria and oxygen to efficiently digest the waste in the water. The following items are examples of substances that should never be introduced into an onsite system because they can overtax or destroy the biological digestion or clog pumps and pipes and constitute misuse and/or abuse of the system: excessive amounts of fat, grease or oil; coffee grounds; disposable diapers; feminine hygiene products; condoms; cigarette butts; gauze or adhesive bandages; Q-tips; dental floss; cat litter; excessive amounts of disinfectants, detergents & cleaning supplies; chemicals such as paints, varnishes, thinners, oils, photographic solutions, pesticides; construction debris; and prescription medicines.

MST reserves the rights to revise, change, or modify the construction and design of the *EnviroServer*® or any component part or parts thereof without incurring any obligation to make such changes or modifications in previously manufactured equipment. MST 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 part being replaced.

In addition to and not in limitation of anything else contained in this warranty, under no circumstances will MST be responsible 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 *EnviroServer*®.

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This warranty gives you specific legal rights. You may also have other rights which vary from state to state. Some states do not allow limitations on the duration of an implied warranty and some states do not allow the exclusion or limitation of incidental or consequential damages, therefore the above limitations may not apply.