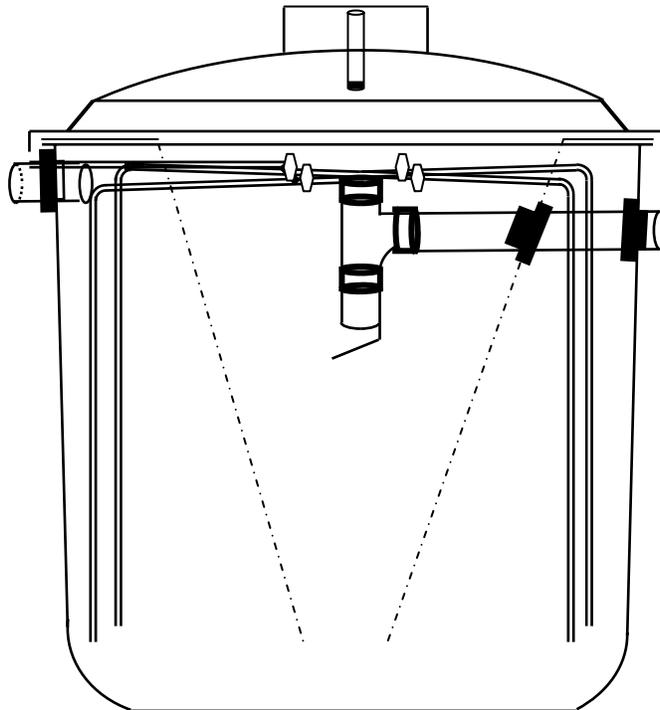




CLASS I  
ANSI/NSF 40

<i>MODEL SM500 - F,C</i>	<i>500 G.P.D.</i>
<i>MODEL SM500 5X5 - F</i>	<i>500 G.P.D.</i>
<i>MODEL SM500 5X8 - F</i>	<i>500 G.P.D.</i>
<i>MODEL SM600 - F</i>	<i>600 G.P.D.</i>
<i>MODEL SM750 - F</i>	<i>750 G.P.D.</i>
<i>MODEL SM1000 - F</i>	<i>1000 G.P.D.</i>
<i>MODEL SM1500 - F</i>	<i>1500 G.P.D.</i>

## OWNER'S MANUAL



**SOUTHERN MFG. CO., PO BOX 790, GROVES, TX. 77619**  
**PHONE 409 962-4501 FAX 409 962-4544**

# **INTRODUCTION**

## To Your New On-Site Wastewater Sewage Facility

The purpose of your aerobic treatment plant is to provide your family and the environment with an effective, reliable and efficient treatment of the domestic wastewater from your home or business.

Aerobic bacteria live in nature (streams, rivers, lakes etc.) consuming feces from aquatic life, people and other decaying organic matter, keeping the worlds water clean. A similar process is what's taking place inside the Southern Aerobic System. Mother nature, created these tiny bugs and where giving them the perfect environment to perform at an accelerated rate.

Approximately one third of the United State total population use some form of on-site sewage facility and this number continues to increase rapidly. Most people don't want to know about or deal with what happens to domestic wastewater from individual homes and business's (out of site out of mind). With the ever shrinking supply of water for use and consumption the importance of treating and recycling the worlds wastewater is becoming ever more important. That is why it's very important you read this owners manual in it's entirety and follow all instructions.

Today an aerobic treatment plant is in the back yards of many homes and business outside the reach of municipal wastewater treatment systems. With several environmentally safe ways to recycle and dispose of the effluent by surface spray, subsurface drip emitter and conventional drain field. The responsibility of protecting human health and the environment is becoming more and more the responsibility of the property owner to provide treatment to the domestic wastewater prior to it's release back into the environment. Treated domestic wastewater is a valuable commodity that has not received the attention it deserves but with your purchase of the Southern Aerobic System you have made the first step in a vital contribution in protecting your family's health and the future of our environment.

Your Southern Aerobic System is one of the finest designed systems on the market and will last for many years without failure, if serviced regularly by a trained Authorized Dealer's service personnel to maintain proper operation and a high degree of treatment to the wastewater.

## PROCESS DESCRIPTION

The Southern Aerobic System On-Site sewage facility is a extended activated sludge plant in miniature that uses a small remote air compressor and a single tank with two compartments to achieve a high degree of treatment.

Wastewater enters through a 4" inlet pipe into the outer aeration chamber and is mixed with air brought in by an aerator. Four critically spaced air lines with a small orifice in each line are located near the bottom outer perimeter of the aeration chamber. The orifice creates thousands of tiny bubbles that supply oxygen for the activated sludge process. As these bubbles are rising a transfer of oxygen to the wastewater is accomplished and the activated sludge stays in suspension.

This allows microorganisms to remove soluble contaminates from the wastewater utilizing them as a source of energy for growth and production of new microorganisms. The organisms tend form clumps that physically entrap particulate organic matter. The organic matter is attacked by millions of enzymes that solublize (easily dissolve) the solids to make the organic matter consumable for millions of aerobic microorganisms which ultimately convert the wastewater to a clear, odorless liquid.

The conversion of the organic matter from soluble to biological solids (secondary sludge) allows for removal of the organic matter by settling of the solids in the inner cone-shaped clarifier where conditions are calm. Each time wastewater enters the plant the mixed liquor is forced upward through the hole at the bottom of the clarifier. Shortly after the solids settle and re-enter the aeration chamber through the same hole at the bottom of the clarifier for further treatment. The clear water in the mid to upper zone of the clarifier is discharged into the lower 4" inch tee as it up flows through the 4" inch pipe to the upper 4" inch tee into the final outlet pipe.

Southern Aerobic Systems Model SM500 large one thousand and twenty gallon capacity plant is capable of holding a larger volume of activated sludge than any other 500 gallon per day system on the market, therefore providing you with a longer duration between pumping of sludge. Our 870 gallon aeration chamber (where the actual treatment takes place) can retain the activated sludge longer and produce a high quality effluent even during peak flow periods.

With proper use and preventive maintenance, the Southern Aerobic System will be an economical asset and an environmentally friendly wastewater treatment system for many years.

The Southern Aerobic Systems Model SM500 was tested to the ANSI/NSF Standard 40 - 2000 testing protocol and designated a class I residential wastewater treatment system. The test result average reductions of 98.6 30-Day (%) CBOD and 98.5 30-Day (%) TSS reduction, with an average effluent pH of 7.87, easily exceeding the EPA Secondary Treatment Guidelines.

# START UP PROCEDURES

## Initial Start up

1. Please read all instructions in this owner's manual prior to use of your Southern Aerobic System. Please call your dealer for specific information concerning your complete on-site wastewater system. Should you have any questions please call, fax or write Southern Manufacturing Company?
2. Before using any plumbing (toilet, dishwasher, faucets etc...) you should locate the electrical breaker in the main breaker box that provides power to the Southern Aerobic System control panel. Move it in to the on position if it is off. A gravity flow model control panel has a on/off switch on the left side, it must be in the on position. A pressure flow control panel has two breakers inside that must be in the on position. With a pressure flow panel, if the system does not come when the main breaker is turned on DO NOT open the Southern Aerobic System control panel. Electrical shock hazard which could result in serious injury or death, call your dealer to inspect panel.
3. The air compressor is designed to operate continuously. Please make a visual inspection to insure that the air compressor is operating this is done by inspecting control panel for air compressor fail light and horn. Compressor is not running when light is illuminated.
4. The treatment plant should be filled with tap water prior to use. Your Dealer ordinarily performs this task during installation. When the power is turned on initially you may get a high water level alarm consisting of a light and horn. To silence this alarm simply trip the silence switch at the control panel, the light will remain on until the water returns to a normal level.
5. Your on-site sewage facility has a particular type of disposal field depending on your local and state code. As the operator of your system you should know somewhat of how this part of your on-site wastewater system will do its job. There are four basic methods of disposal of the final effluent, which will be briefly explained as follows:
  - **Overland discharge**, a pipe laying on the surface with holes drilled in a pattern to allow the clear odorless liquid to be disposed of. The overland discharge system is gravity flow.
  - **Surface spray application**, a small number of sprinkler heads located on the property. Depending on your specific system it may spray on demand (each time you run water) or only during late night if a timer is used. The surface spray system is controlled by use of a pump and float switch.
  - **Subsurface drainfield**, a perforated PVC pipe 4 inch diameter, perforated 8 inch sock pipe or some other form of leaching chamber. The subsurface drainfield is gravity flow.
  - **Subsurface drip emitter**, several hundred feet of small diameter pipe with small orifices to equally distribute the effluent it is under low pressure on a demand basis. The subsurface drip emitter system is controlled by use of a pump and float switch.
6. To insure proper disinfection please contact your dealer to inspect the chlorination device for chlorine tablets and or purchase of chlorine tablets.

WARNING: Chlorine is very corrosive to moist tissue and has a very irritating effect on the lungs and mucous membranes of the nose and throat. Inhalation of chlorine gas can cause edema (swelling) of the lungs and respiratory stoppage.

**YOUR SOUTHERN AEROBIC SYSTEM SHOULD NOW BE IN OPERATION**

# RE-START UP PROCEDURES

## Causes of Anaerobic Conditions

When the Southern Aerobic System is shut down for an extended period of three weeks or more the aerobic system will turn anaerobic (become septic). Typical causes of anaerobic conditions are homeowners moving, foreclosures, beach cabins left until next summer etc...

Other causes are airline leaks from settling of the soil around the tanks that can shift and cause breakage of PVC fittings and pipes that are external and internal of the plant. Accidents from children playing and lawn equipment bumping the air airline at the compressor are reasons for an aerobic system to become septic.

The usual scenario is the installer gets a call after the fact that the system has failed and the owner is experiencing odor problems from the spray field or the ground around the system.

## Public Health Threat

All aerobic systems re-started after an anaerobic (septic) condition has persisted for an extended period are potentially a public health threat. That threat is from possible water born diseases being spray irrigated onto lawns and the possibility of human contact and environmental pollution, therefore the trash tank, treatment plant and pump tank should be pumped out by a licensed liquid waste Hauling company (pumper).

## Maintenance Company Qualifications

A State septic system installer license or wastewater treatment plant operator license must be held by at least one person in the maintenance company, and certified by Southern Manufacturing as an authorized service company to perform any required service your Southern Aerobic System shall need. Steps 1 through 9 below should be performed by a Southern Mfg. Co. authorized company please call Southern Mfg. Co. at (409)962-4501 for the nearest authorized service provider to you.

## Re-Start Up Procedures

1. Inspect the control panel and main power supply for condition and proper electrical connections. Use of a lockout tag out procedure is highly recommended during inspection of components, don't assume no one will turn the system on, you may be in for a shocking experience.
2. Aerator inspections, most situations where the aerobic system has set idle for a long period of time (months or years) the aerator needs to be thoroughly inspected. The aerator has an intake filter and therefore needs to be checked for dirty air filters or missing felts that must be on the filter body to operate properly. Our rotary vane compressor has two end caps these end caps are sealed with o-rings and hold a muffler on each end cap. At this time make a visual inspection to the o-rings for cracks and signs of air leaks and replace them if necessary. These mufflers may be plugged or deteriorated and may need replacement.

## RE-START UP PROCEDURES (Continued)

3. If the air compressor has set idle for several months the motor may hum for a moment when power is first turned on and then trip the breaker, if this happens (Make certain that electrical power to the system is turned off) place a medium size screwdriver through the ventilation grill and gently attempt to rotate the motor before electrical power is turned on. Carbon vanes occasionally get stuck in the rotor when set up for extended periods, a small shot of the lubricating spray through the air filter inlet hole should free them up.
4. Proper airflow is crucial to the operation of your Southern Aerobic system therefore an inspection by visual and audible means for the airflow properly activating (bubbling action) the aeration chamber is a must. Early models had diffusers your model may have diffusers, these diffusers can get plugged when not in used for extended periods. During normal operation the diffusers have air rushing through their tiny holes which keep the bacteria from attacking and plugging them, but once the system is shut down they quickly get plugged. Replacing or removing the diffusers speeds up the return of aerobic bacteria that treats the wastewater from the home.
5. Have all tanks completely pumped out and immediately start refilling through trash tank until the treatment plant is flowing into the pump tank. Allow enough water to enter the pump tank so that you can operate the pump float switch to inspect the pump in normal operation.
6. Power up control panel and observe aerator for proper audible condition. All systems vary, but the motor may sound overloaded for a few seconds until the water is pushed out of the lines and the aerobic system is operating properly. Inspect the alarm systems, aerator electrical power failure alarm or loss of air flow alarm, high water level alarms and all pump tanks. All visual and audible devices for each of these conditions should be in working order.
8. Disinfection device inspection, clean and re-stock tablet style stack tube chlorinators with 70% available calcium hypochlorite tablets labeled for use with wastewater.
9. Inspect the disposal system for proper operation. If you did not install this system you should get a copy of the permitted design to insure that the system is operating as permitted.
10. Your Southern Aerobic System is now ready for prime time action! If you have not read the operating instructions please do so before proceeding

# OPERATING INSTRUCTIONS

The Southern Aerobic Systems design provides an efficient reliable service. Yet as with all on-site wastewater treatment systems, it will require routine periodic preventive maintenance. Your wastewater system will function correctly for many years with proper use and care by following the operating instructions listed below:

After the Dealer has started the plant the treatment process is started by using your kitchen, washroom and toilet facilities. The microorganisms in the wastewater from your home will start the aerobic treatment process. **No** yeast cakes or over the counter septic products should be used on your Southern Aerobic System without consulting a Southern Mfg. Co. representative.

1. Your on-site wastewater system should only receive typical domestic wastewater.
2. Do **not** allow inorganic materials (plastics, condoms, cigarette butts, feminine napkins or tampons, cloth diapers etc.) to enter system.
3. Do **not** pour cooking oil, grease, paint or chemicals down drains or toilets that can kill bacteria.
4. Routinely apply ant killer around compressor base and the tanks access ports as necessary.
5. Only small amounts of bleaches and cleaning detergents for washing clothes maybe disposed of into system. Wash loads should be spread out over the day to prevent peak overloading.
6. The system will **not** operate to it's maximum ability if volumetric overloading occurs, for instance leaking toilets, faucets or excessive water usage may cause discharge of untreated wastewater.
7. Air-conditioning or refrigerator/freezer condensate drains should not be allowed into the plant as the additional amount of water may cause hydraulic overloading to the plant. The condensate drains may enter at the pump tank or disposal field if the spray area or field is sized appropriately.
8. Lint from screens of clothing dryer's and washing machine's should be disposed of in trash.
9. Use of a garbage disposal should be kept to a minimum. Undigested food is very slow to degrade. A trash tank should be installed on any system with a garbage disposal.
10. Use of a water softener is allowed on your home or business, however you should not allow the backwash water to enter the aerobic treatment plant. This backwash water has a high salt content and may cause your aerobic system to become septic and the treatment process could fail. Please contact your dealer for information regarding state or local rules and your options.
11. Proper use of this or any other on-site wastewater system depends upon the proper organic loading and the life of the microorganisms. Southern Mfg. Co. **is not** responsible for in-field operation of the system, other than structural and mechanical workings of the system. Overloading and/or abuse of the system can only be corrected by the user.
12. It is best to leave the systems power supply on and the aerator operational for summer/winter homes or camps with intermittent or weekend use, as this will keep the system from becoming septic and needing to be pumped and re-started each season.

## ROUTINE SERVICE

In the event the control panel alarm light and/or buzzer are activated, call your local dealer. The name, address, and phone number should be attached to front cover of the control panel. If dealer information is not readable or missing, call Southern Mfg. Co. for the your nearest service dealer.

Routine on-site inspections for proper operation during the first (2) years from the date of initial operation shall be performed by the dealer whom installed your Southern Aerobic System. The dealer will inspect and service the system at no charge unless additional service is required that is not warranty related. Between 45 and 30 days prior to the first (2) years ending the dealer will offer a continuing service policy for a nominal annual fee.

Both initial and extended service policy's are requirements of the NSF/ANSI 40 and the NSF International Certification Policies for Wastewater Treatment Devices. Some local or State regulations may require greater service or monitoring requirements. Consult with your local or State regulating authority for current site specific laws that apply to your system.

Each routine on-site inspection the system should be examined for proper operation by an authorized service provider. The predicted service associated with the system includes:

### Treatment Plant

- |  |                |
|--|----------------|
| 1. Clean intake felts on top of air compressor           | 4 to 6 months. |
| 2. Replace muffler stem O-rings on end of air compressor | 2 to 3 years   |
| 3. Replace intake felts on top of air compressor         | 3 to 4 years.  |
| 4. Pump sludge from plant (middle tank)                  | 6 to 8 years.* |
| 5. Rebuild or replace air compressor                     | 5 to 10 years. |

### Accessory Equipment

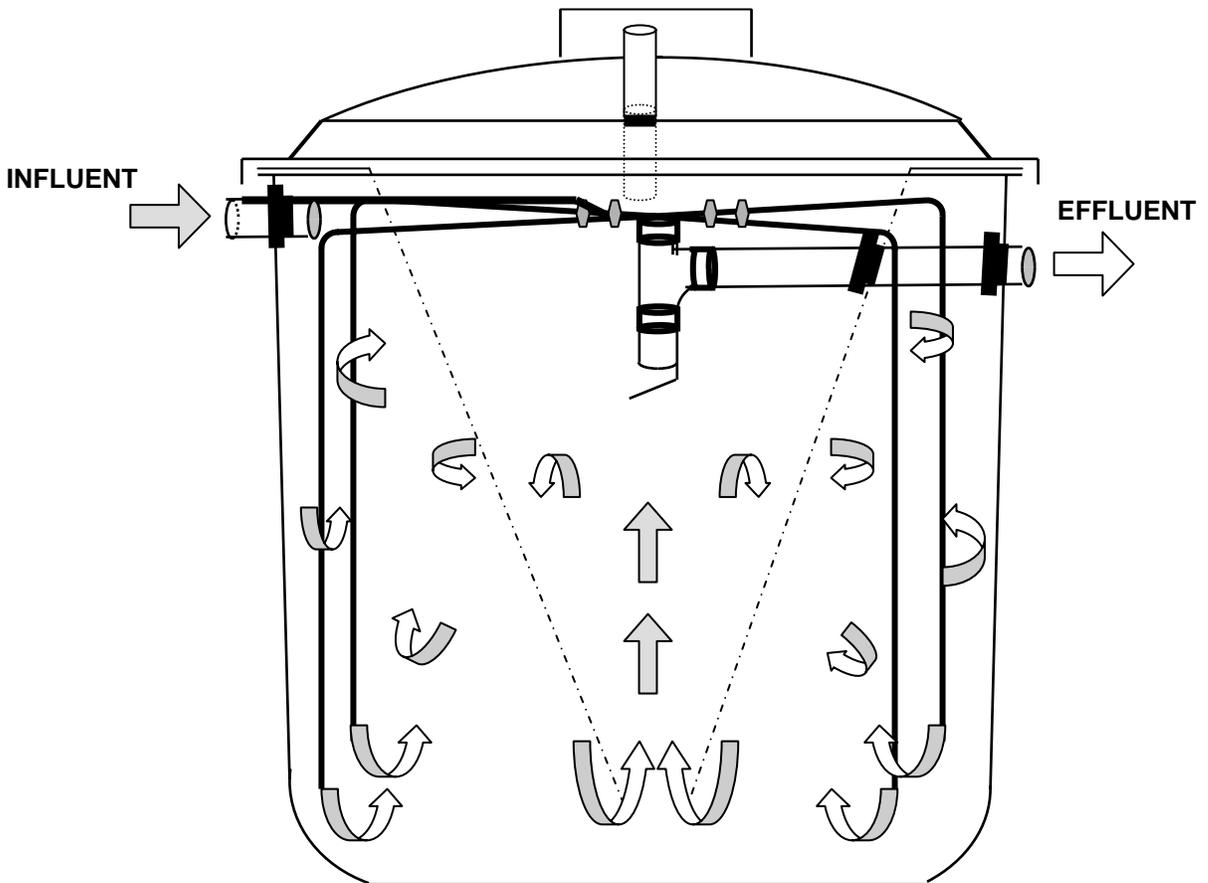
- |  |                |
|--|----------------|
| 1. Check amount of chlorine tablets in chlorinator | 3 to 6 months. |
| 2. Pump sludge from trash tank (first tank)        | 2 to 4 years.* |
| 3. Pump sludge from pump tank (last tank)          | 6 to 8 years.* |

*Note:* Chlorine tablets are at owners expense. Sludge removed from any part of the system shall be at owners expense when necessary.

\*Sludge removed from any part of the system must be disposed of in accordance to all State and Federal regulatory requirements.

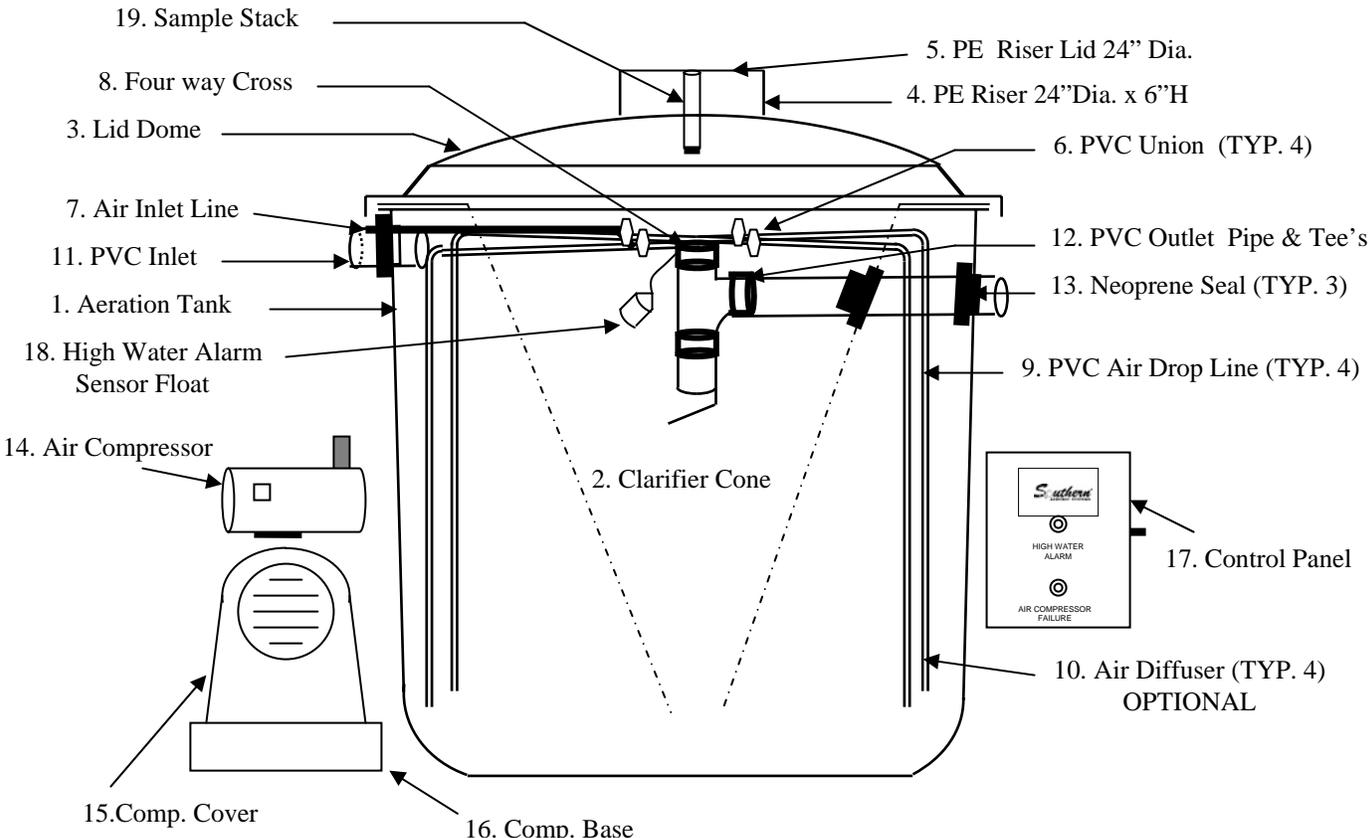
Shutting down your system for summer/winter homes or selling your home should be performed by the dealer shortly after house is vacated. The dealer or contracted pumper shall pump the effluent from all tanks. Dealer will need tap water available to refill the tanks. Filling the tanks with water will insure that the tanks do not float or collapse while not in use and will be necessary for the re-start next summer/winter or for new owners.

FLOW DIAGRAM



# PARTS LIST & DIAGRAM

SM500	SM600	SM750	SM1000	SM1500	MODEL NO.'S	
PART NO.	DIAGRAM NUMBER	DESCRIPTION				
SM-501	SM-601	SM-701	SM-1001	SM-1501	1.	FIBERGLASS AERATION TANK
SM-502	SM-602	SM-702	SM-1002	SM-1502	2.	P. E. or F. G. CLARIFIER CONE
SM-503	SM-603	SM-703	SM-1003	SM-1503	3.	FIBERGLASS DOME LID
SM-504	SM-604	SM-704	SM-1004	SM-1504	4.	P. E. RISER 24"X6"
SM-505	SM-605	SM-705	SM-1005	SM-1505	5.	P. E. RISER LID 24"
SM-506	SM-606	SM-706	SM-1006	SM-1506	6.	PVC Union (TYP. 4)
SM-507	SM-607	SM-707	SM-1007	SM-1507	7.	PVC AIR INLET LINE
SM-508	SM-608	SM-708	SM-1008	SM-1508	8.	PVC FOUR WAY CROSS
SM-509	SM-609	SM-709	SM-1009	SM-1509	9.	PVC AIR DROP LINE (TYP. 4)
SM-510	SM-610	SM-710	SM-1010	SM-1510	10.	PVC AIR DIFFUSER (TYP. 4) Optional
SM-511	SM-611	SM-711	SM-1011	SM-1511	11.	4" SCH 40 PVC INLET
SM-512	SM-612	SM-712	SM-1012	SM-1512	12.	4" SCH 40 PVC OUTLET ASSEMBLY
SM-513	SM-613	SM-713	SM-1013	SM-1513	13.	NEOPRENE SEAL (TYP. 3)
SM-514	SM-614	SM-714	SM-1014	SM-1514	14.	AIR COMPRESSOR
SM-515	SM-615	SM-715	SM-1015	SM-1515	15.	COMPRESSOR COVER
SM-516	SM-616	SM-716	SM-1016	SM-1516	16.	COMPRESSOR BASE
SM-517	SM-617	SM-717	SM-1017	SM-1517	17.	CONTROL PANEL
SM-518	SM-618	SM-718	SM-1018	SM-1518	18.	SENSOR FLOAT
SM-519	SM-619	SM-719	SM-1019	SM-1519	19.	SAMPLE STACK



Note: Sensor float is located in pump tank on all spray irrigation disposal systems

## DIMENSIONAL DRAWING

Model Number		SM500-F	SM600-F	SM750-F	SM1000-F	SM1500-F
Treatment Capacity		500gpd	600gpd	750gpd	1000gpd	1500gpd
INLET	A	4' 9"	5' 3"	6' 5"	6' 10"	10'
OUTLET	B	4' 7"	5' 1"	6' 3"	6' 8"	9' 10"
TOP O.D.	C	6' 11"	7' 5"	7' 5"	8'	8'
BOTTOM O.D.	D	6'	6' 4"	6' 4"	6' 10"	6' 10"
GRADE LEVEL	E	6'	6' 11"	8' 1"	8' 6"	11' 6"
TOTAL HEIGHT	F	6' 6"	7' 5"	8' 7"	9'	12'

## REMOVAL EFFICIENCIES

Parameter	Influent Mean	Effluent Mean	Reduction	% Reduction
5 Day BOD	169.82	2.24	167.58	98.7
Suspended Solids	183.95	3.33	180.62	98.1

## LOADING RATES

### Model SM500

500GPD

Design Loading 1.11 GPM

Max Loading 1.67 GPM

BOD Loading 1.25 LBS

### Model SM600

600 GPD

Design Loading 1.33 GPM

Max Loading 2.00 GPM

BOD Loading 1.5 LBS

### Model SM750

750 GPD

Design Loading 1.67 GPM

Max Loading 2.50 GPM

BOD Loading 1.85 LBS

### Model SM1000

1000GPD

Design Loading 2.22 GPM

Max Loading 3.33 GPM

BOD Loading 2.5 LBS

### Model SM1500

1500GPD

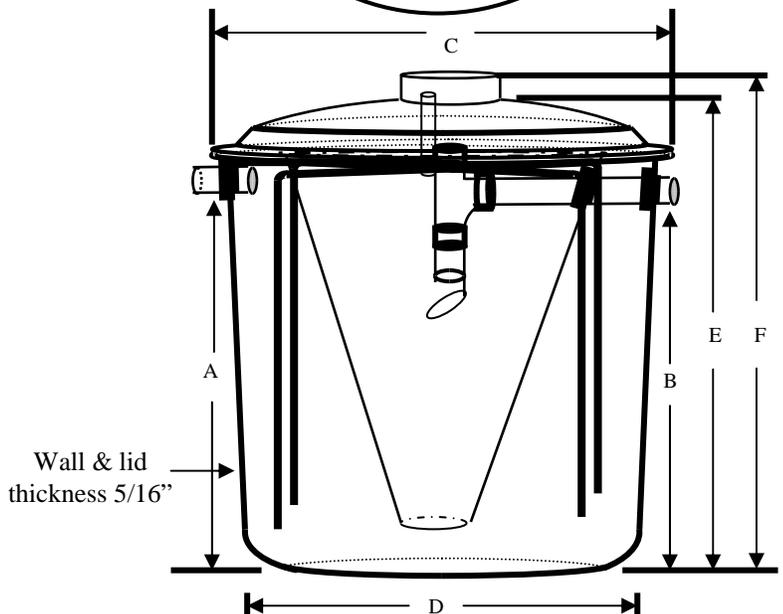
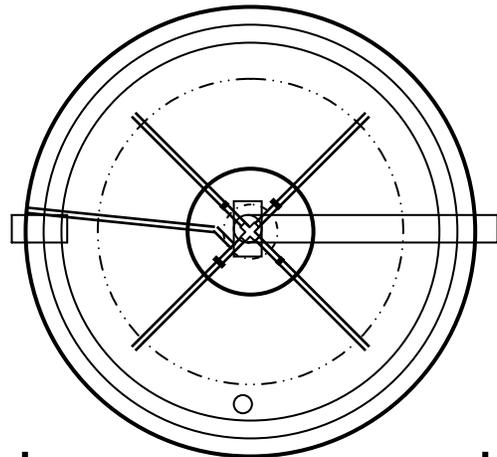
Design Loading 3.33 GPM

Max Loading 5.00 GPM

BOD Loading 3.75 LBS

When a lift station is used we recommend dosing the plant 4 to 5 gal. per min. for 4 to 5 minutes per dose at either one or two hour intervals during any 24 hours. Not to exceed 500 gal per day.

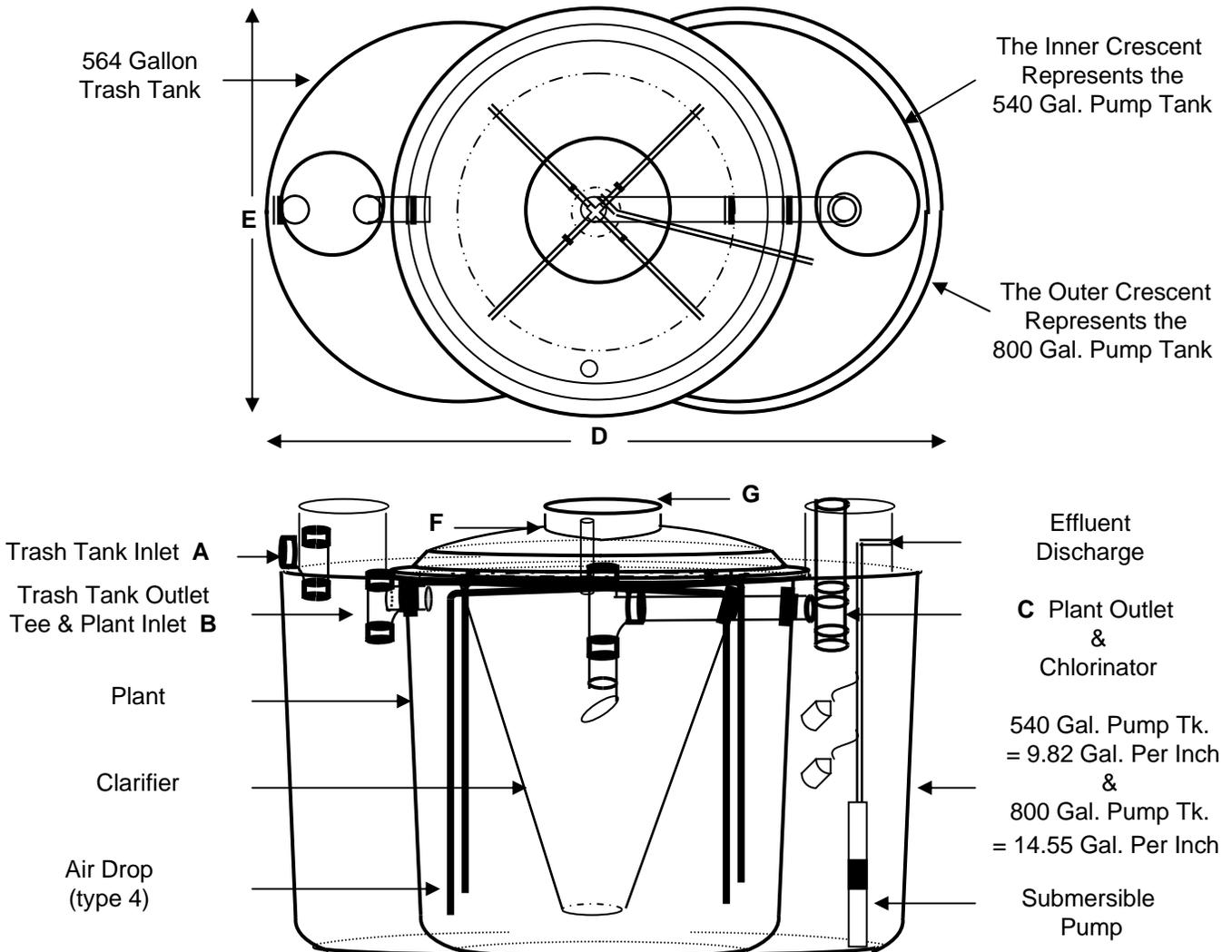
For larger models, increase gallons & minutes by the appropriate up-scaled size percentage.



## QUICK & EASY DIMENSIONAL DRAWING

### Model's SM500 5X5 - F & SM500 5X8 - F

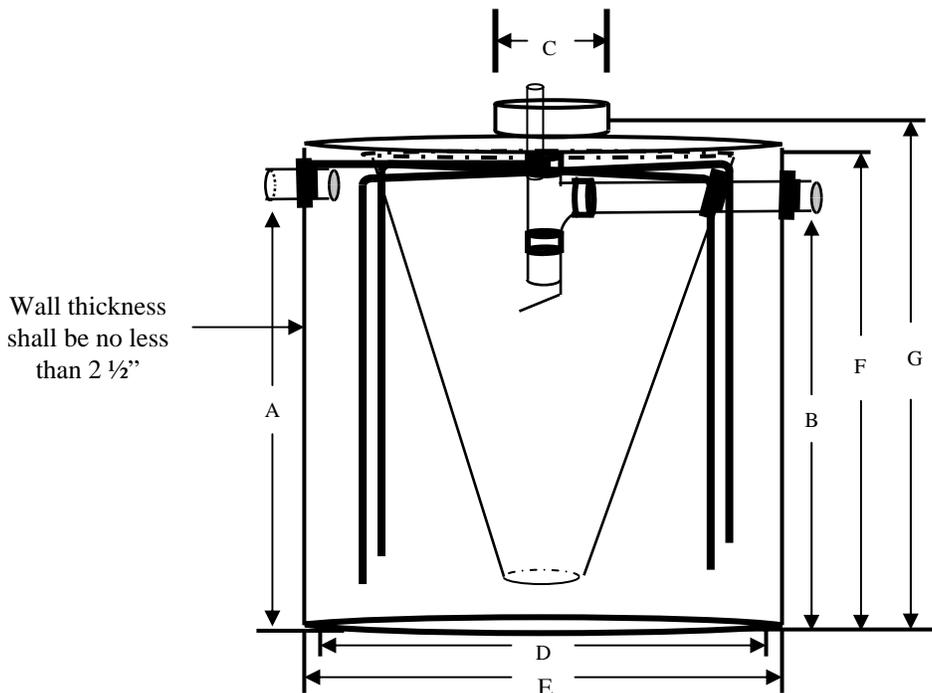
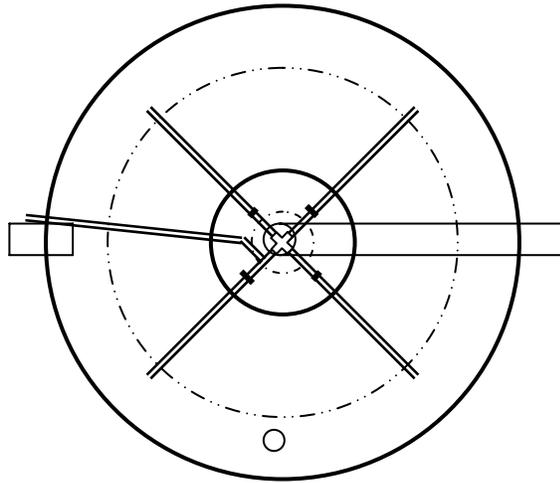
DIMENSIONAL DATA		5x5 - F	5x8 - F
TRASH TANK INLET	A	5' 4"	5' 4"
PLANT INLET	B	4' 9"	4' 9"
PLANT OUTLET	C	4' 7"	4' 7"
LENGTH	D	12' 4"	12' 11"
WIDTH	E	6' 11"	6' 11"
LOW LID AT GRADE	F	6'	6'
LOW LID TOTAL HEIGHT	G	6' 6"	6' 6"
HIGH LID AT GRADE	F	6' 8"	6' 8"
HIGH LID TOTAL HEIGHT	G	7' 2"	7' 2"





**DIMENSIONAL DRAWING OF CONCRETE MODEL**

Model Number		SM500 - C	SM600 - C	SM750 - C	SM1000 - C	SM1500 - C
Treatment Capacity		500gpd	600gpd	750gpd	1000gpd	1500gpd
INLET	A	4' 9"	5' 3"	6' 5"	6' 10"	10'
OUTLET	B	4' 7"	5' 1"	6' 3"	6' 8"	9' 10"
RISER I.D.	C	1' 8"	1' 8"	1' 8"	1' 8"	1' 8"
TANK I.D.	D	6' 2"	6' 6"	6' 8"	7' 2"	7' 3"
TANK O.D.	E	6' 7"	6' 11"	6' 11"	7' 7"	7' 8"
TANK HEIGHT I.D.	F	5' 5"	5' 11"	7' 1"	7' 6"	10' 8"
GRADE LEVEL	G	5' 10"	6' 4"	7' 6"	7' 11"	11' 3"



Tank shall conform to ASTM standard C 1227-93a, or state and local regulation.

## LIMITED WARRANTY

Southern Manufacturing Company warrants the parts in each on-site wastewater system to be free from defects in material and workmanship for a period of two years from the date of installation treating domestic wastewater. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply. Sole obligation under this warranty is as follows: Southern Manufacturing Company shall fulfill this warranty by repairing or exchanging any component part, F.O.B. factory, that in Southern Manufacturing Company'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 manufacturer.

The warranty does not cover treatment processes 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 process and does not include any of the residential wiring, plumbing, drainage, or disposal system. Southern Manufacturing Company is not responsible for any delay or damages caused by defective components or material, or 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.

Southern Manufacturing Company reserves the right to revise, change, or modify the construction and design of the system for domestic wastewater or any component part or parts thereof without incurring any obligation to make such changes for modifications in previously sold equipment. Southern Manufacturing Company 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 Southern Manufacturing Company be responsible to the warrantee for any other direct or consequential damages, including but not limited to profits, lost income, labor charges, delays in production, and/or idle production, which result from defects in material and/or workmanship of the system. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty is expressly in lieu of any other expressed or implied warranty, excluding any warranty of merchantability or fitness, and of any other obligation on the part of Southern Manufacturing Company.

This warranty gives you specific legal rights. You may also have other rights, which vary, from state to state.

# **Southern Aerobic Systems**

## **TWO YEAR INITIAL SERVICE POLICY**

Date: \_\_\_\_\_

Our firm, \_\_\_\_\_,  
Will inspect and service your Southern Aerobic System for the first two years from date of initial operation. For a new single family dwelling, this date is the date of sale by the builder. For an existing single family dwelling, this date is the date the notice of approval is issued by the permitting authority. A total of four inspection visits (scheduled once every 6 months over the initial two year period) during which the electrical, mechanical and other applicable components are inspected, adjusted and serviced. An effluent quality inspection consisting of a visual assessment for color, turbidity, and scum overflow, and an odor assessment for proper operation as per NSF/ANSI requirements.

State or local regulations may require more frequent inspection visits. Our firm will list below the required number and frequency of visits that this system will receive if state or local regulations are more stringent than stated above.

Number of inspections for the initial (2) year period \_\_\_\_\_. Frequency of inspections will be every \_\_\_\_\_ month's).

Upon each inspection a testing and reporting record shall be completed signed and dated. The original shall be retained by the service provider a second copy shall be sent to the local permitting authority and a third copy shall be sent to the owner. List the appropriate test method's and frequency (Chlorine Residual, BOD Grab, TSS Grab or Fecal Coliform) that is required by local or state regulations for this specific site below:

\_\_\_\_\_.

Owner is responsible for keeping chlorine tablets in the chlorination device for any surface application, overland disposal or direct discharge disposal method. If the service provider agrees to be the responsible party he/she must sign and print name below:

\_\_\_\_\_.

Emergency service shall be available within 48 hours of a service request.

A notice shall be given without delay to the owner/operator of improper operation that cannot be corrected at the time of routine inspection or emergency service with an estimated date of correction.

At least 45 days prior to the expiration of this policy, our firm will offer an extended service policy on an annual basis, with terms comparable to those in this initial service policy.

Violations of warranty include shutting off the electrical current to the system for more than 24 hours, disconnecting the alarm system, restricting ventilation to the aerator, overloading the system above its rated capacity, or introducing excessive amounts of harmful matter into the system, or any other form of unusual abuse.

**THIS POLICY DOES NOT INCLUDE PUMPING SLUDGE FROM ANY PART OF THE SYSTEM IF NECESSARY.**

Service Provider Co. Name: (Please Print)

Owner/Operator Name: (Please Print)

\_\_\_\_\_  
Southern Mfg. Co. Certified Individual: (Please Print)

\_\_\_\_\_

\_\_\_\_\_  
Certified Individual Signature:

\_\_\_\_\_  
Owner/Operator Signature:

\_\_\_\_\_

\_\_\_\_\_

*FOR SERVICE CALL*

<p><b>AUTHORIZED SERVICE PROVIDER</b></p> <p>Company Name</p> <hr/>
<p>Phone</p> <hr/>
<p>Address</p> <hr/> <hr/>