

## More than you ever wanted to know about your Nayadic Aeration Septic System!

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One of the features of the Nayadic is that the entire treatment process takes place within a single tank. Wastewater flows into the tank. A compressor blows air to a diffuser that disperses it. This process transfers oxygen throughout the system. The oxygen, which is dissolved in the water, provides an environment conducive to the growth of aerobic bacteria. These bacteria effectively consume the organic materials.

An aeration system, operating properly and well maintained will NOT smell bad. The smell should be similar to what it smells like after a farmer plows their field, a kind of musty-earthly smell. The color in the aeration chamber should be chocolate brown. If a system smells bad, it is probably not operating or has other operational issues.

Nayadic units have an initial break-in period of six-to-eight weeks, during which time bacteria establish themselves in the unit. This occurs when the unit is new, as well as after the system is pumped out. The development of these biological colonies occur naturally with the addition of sanitary wastes, so we recommend you use all your plumbing facilities in a normal manner from initial start-up. You may notice a tendency for the unit to foam from laundry wastes during this period. This is normal, and it should cease by the sixth week. You can help by using moderate amounts of low-sudsing biodegradable detergents.

Sewage treatment is a multi-stage process to renovate wastewater before it reenters a body of water, such as a stream, pond, or road tile. The goal is to reduce or remove organic matter, solids, nutrients, disease-causing organisms and other pollutants from wastewater.

### Suggested Detergents, Bleaches & Toilet Paper for use in an Aeration Septic System

Detergents	Bleaches (only powdered)	
Should be low sudsing, low phosphate biodegradable & powdered	Biz	
	Bright	
Amway S-A-8	Clorox II	
Arm & Hammer	Snowy	
Boraxo	Sears	
Cheer	Oxyclean	
Dash	Oxyfresh	
Equator		
Fresh Start	<b>NOT recommended</b>	
Oxydol	ANY liquid fabric softener	
	All	Tide
<b>Toilet Tissue</b> (dissolves easily or "safe for septic systems")	Surf	Wisk
Cottenelle	Northern	White Cloud

Your septic system is sensitive to the amount of water you use. Be sure to conserve water as much as possible, for example use low flow faucet aerators and low flow shower heads. When (or if) you need to replace a toilet, replace it with a low flow model. If you're in the market for a new washing machine, you should consider a front loader or one of the new high efficiency models.

When you do laundry, space it out through the week, laundry should not be done all in one day. When possible, allow an hour or so, between loads. Never do more than 2-3 loads of laundry in one day. This can "flush" the system, resulting in the sewage not being treated. For aeration systems, we recommend using powdered laundry detergents, since they do not foam up as much.

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### To Prevent Malfunction Of Your Sewage Treatment System

The Following Materials Should **NOT** Be Discharged Into The Sewer:

- Plastic materials (including condoms)
- Tampons, tampon applicators, sanitary pads, etc.
- Cloth
- Large quantities of acids or caustics – soaps or cleaning materials, with a high or low pH
- Cigarette butts
- Disposable diapers
- Rubber products
- Paper towels or baby wipes
- Tissues

- Any grease or fatty materials
- Oily materials, motor oils, grease, kerosene, gasoline, paints, etc.
- Any material which does not disintegrate or dissolve readily
- Backwash water from water softeners
- Sump pump discharge
- Coffee grounds

Your system will work better if you do not treat it like a trash can. In short, the only thing that should be flushed is human waste and toilet paper. All other items will create problems, this includes septic system additives! There are no additives that will significantly help the system, and there are some that will hurt the system.

If your system is not working properly or you want to have a service contract, contact:

**Everclean Aeration Service - Multi-Flo & Nyadic authorized service provider - 614-877-9999**

Currently this is the only authorized service provider for Nyadic systems in Union County.

Estimated Septic Tank Pumping Frequency in Years (For Year-Round Residence)										
Tank Size	Household Size (number of people)									
	1	2	3	4	5	6	7	8	9	10
500 gallons <i>(typical size of the aeration system tank)</i>	5.8	2.6	1.5	1.0	0.7	0.4	0.3	0.2	0.1	---

From: Septic Tank Maintenance, AEX-740-98, by Karen M. Mandl  
Professor of Food, Agricultural and Biological Engineering Extension Specialist, Water Quality

**These are the Septic Tank pumpers located in Union County**

(you are welcome to use any licensed septic tank pumper)

Clarridge's Discount Septic Tank	937-644-3191
Hayner Plumbing & Heating	937-644-9775
Warner's Liquid Waste Hauling	614-873-8648

Your system has a chlorinator, which disinfects the treated wastewater. Keep at least 1-2 tablets in each chlorine tube(s). On average, most families will use about 1-2 tablets per month. Check the chlorinator tube at least once a month. When restocking the chlorinator, it is recommended only a few tablets be inserted in the tube to prevent clogging. When tablets expand due to moisture, you may need to gently tap the pipe to force the tablets to the bottom of the tube, which will assure the chlorine is reaching the bottom and is in contact with the effluent passing through the discharge pipe.

Be sure to obtain the proper tablets for your unit. Do **NOT** use swimming pool chlorine tablets, because they dissolve too quickly and will clog the chlorinator. **USE OF SWIMMING POOL CHLORINE PRODUCTS IN THE TREATMENT OF WASTEWATER EFFLUENT IS A VIOLATION OF FEDERAL LAW.** Swimming pool chemicals resist degradation by sunlight, allowing the chlorine residual to persist longer in downstream waters, potentially causing an imbalance in the aquatic environment. Read the information you receive from the product distributor about **SAFETY AND PROPER HANDLING OF CHLORINE TABLETS**. Use gloves when handling the tablets. Store extra tablets in the original watertight container away from children and *away from any petroleum products*.

Chlorine tablets can be obtained from the distributors listed below as well as other local sources:

Bluffton Aeration Service 419-358-1936	Everclean Aeration Service 614-877-9999
Buckeye Aeration 937-644-1625	Lowe's at Mill Run 614-529-5900 (in Plumbing Dept.)
Cast Stone Co. 614-444-2278	Lowe's in Marion 740-389-9737 (off US 23, west of Marion)
E.C. Babbert 614-837-8444	Stiger Precast, Inc. 740-482-2313

If you have any questions or comments, feel free to contact your Union County Health Department at 937-642-2053 or [holly.rast@health.co.union.oh.us](mailto:holly.rast@health.co.union.oh.us)