
TECHNOLOGY SHEET

ADVANCED SEPTIC TREATMENT SYSTEM

NextGen Septic, LLC, in collaboration with SludgeHammer™ Group is marketing several advanced septic treatment systems that have the following certifications:



SludgeHammer meets the NSF/ANSI Standard #40, Class 1 for advanced treatment units. Testing at the NSF facility in Comox, British Columbia, demonstrated that our S-400 model produced an effluent with an average BOD of 14 mg/l and TSS of 17 mg/l under their rigorous six-month protocol. Since most jurisdictions in the United States and Canada accept the NSF Standard #40, we expect to see much wider applicability for our technology.



The International Association of Plumbing and Mechanical Officials (IAPMO)

The International Association of Plumbing and Mechanical Officials (IAPMO) has granted certification to SludgeHammer's® revolutionary product (S46 and S86). After rigorous testing, our technology was the first to restore function to septic leach systems clogged with organic material under the IAPMO's new standard (#IGC180-2003). This standard defines the Aerobic Bacterial Generator and the new SludgeHammer® is the only such product certified to this standard.



Module B The International Maritime Organization (IMO) created the MARPOL MEPC-159 (55)

Module B The International Maritime Organization (IMO) created the MARPOL MEPC-159 (55) standard to certify marine-based systems that discharge to open water. SludgeHammer® recently completed the exhaustive testing necessary under MARPOL and is now certified by Lloyd's Register to market their SludgeHammer® Marine Treatment System for use throughout the world's oceans and ports.

Advanced Septic Treatment Systems

Model S-400

This model is certified to meet Class 1 treatment standards when tested by NSF International and provides the most economical and effective treatment on the market. It can treat domestic wastewater loads of up to 400 gallons per day. It consists of the introductory SludgeHammer® ABG column installed in the first compartment of a standard Infiltrator septic tank (Model IM-1730) with 1,500 gallons of water volume. Air is delivered to the SludgeHammer column and distributed through a micro fine-bubble diffuser. As the air rises, it displaces liquid in the column, which circulates with liquid, entering the column at the base and leaving it at the top. A packet of proprietary SludgeHammer Blend™ bacteria and enzymes is introduced into the unit and held in a central refuge where it is supplied with a continuous stream of aerated liquid.

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Model S-600

It is also certified to meet Class 1 treatment standards when tested by NSF International. It provides the most economical and effective treatment for domestic wastewater loads of up to 600 gallons per day.

Model S-800

It is also certified to meet Class 1 treatment standards when tested by NSF International. It provides the most economical and effective treatment for domestic wastewater loads of up to 800 gallons per day. The model is installed in the inlet chamber of a 2,500-gallon standard septic tank. The SludgeHammer S-800 treats wastewater similarly to the S-400, where the SludgeHammer Blend™ of bacteria and enzymes supplies aerated liquid to break down organic matter. The column of the SludgeHammer unit is also filled with air to displace liquid and circulate all liquid entering and leaving the column.

Model S-1000

It is also certified to meet Class 1 treatment standards when tested by NSF International. It provides the most economical and effective treatment for domestic wastewater loads of up to 1,000 gallons per day. The model is installed in the inlet chamber of a 3,000-gallon standard septic tank. The SludgeHammer S-1000 treats wastewater similarly to the S-400, where the SludgeHammer Blend™ of bacteria and enzymes supplies aerated liquid to break down organic matter. The column of the SludgeHammer unit is also filled with air to displace liquid and circulate all liquid entering and leaving the column.

Applications

Houses with Existing Septic Tank and Failed Septic Drain Field

Are you aware of the staggering number of homeowners in the US who have clogged septic drain fields? The figure stands at over 5 million properties. This serious problem can lead to costly repairs and even health hazards for residents. We must take action to prevent this issue from becoming even more widespread. NextGen Septic can upgrade the existing septic tank to release beneficial bacteria that can open the clogged drain field and allow it to start percolating.

New Houses with no access to Sewer Lines

Are you building a new house with no or costly access to an existing sewer line? Don't worry—NextGen Septic can supply the most cost-effective and efficient advanced treatment system to treat and disinfect the water. Depending on the number of bedrooms in the house, the appropriate advanced septic treatment system model number can be installed.

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Houses with Soils with Insufficient land area for a conventional Soil Drain Field

Depending on the soil's percolation rate at your site, you can use an NSF 40-approved subsurface soil drainage pipe to reduce the size of the conventional soil drain field by 40%. Look at the information at the end of this Technology Sheet for more information.

Houses with Soils that don't Percolate Water

Have you been told by the local county that you cannot build a house on your land because the soil has an unacceptable percolation rate? NextGen Septic can supply a Zero-Liquid-Discharge Treatment System that treats the wastewater to a very high level and then evaporates the water, resulting in no liquid discharge. Look at the information for the Zero-Liquid-Discharge Treatment System Technology Sheet.

Why NextGen Septic?

Scalable—A single unit easily handles a home. Still, you can add tanks and extra units to scale our treatment systems to a community, restaurant, campground, or elsewhere where wastewater treatment solutions are needed. Our modular technology can grow with your needs.

Economical—This technology fits into any commercially available septic tank, is easy to install, and draws only the electricity of a light bulb, eliminating costly regular sludge pumping.

Low Maintenance—Our treatment systems are mechanically simple and biologically complex. Trillions of our bacterial workers and the air work in our wastewater treatment solutions. The only mechanical parts are a low-watt linear blower and a submersible pump in our septic tank near the house, which is easily accessible for cleaning.

Non-invasive—Leach fields are restored from within the soil so that heavy equipment does not tear up your yard. Smells are gone, and 'septic' disappears from your septic tank.

Ecological – The natural bacteria in the SludgeHammer Blend™ enhance the social ecosystem and purify waste, protecting the environment.

Sustainable —Eliminating organic contaminants allows water to be reclaimed through irrigation while returning nutrients to nature. The bacteria protect and enhance soil fertility and function for a lifetime.

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Warranty

Manufacturer warrants to the purchaser and subsequent owner during the warranty period that every new product is free from defects in material and workmanship under regular use and service when properly used and maintained for one year from the date of installation by the end user. The media inside the septic tank is warranted for the lifetime of the NextGen Septic System. No allowance will be made for shipping charges, damages, labor, or other charges that may occur due to product failure, repair, or replacement. This warranty does not apply to, and there shall be no warranty for any material or product that has been disassembled without prior approval of the Manufacturer, subjected to misuse, misapplication, neglect, alteration, accident, or act of nature; that has not been installed, operated or maintained by Manufacturer's installation instructions; that has been exposed to outside substances including but not limited to the following: sand, gravel, cement, mud, tar, hydrocarbons, hydrocarbon derivatives (oil, gasoline, solvents, etc.), or other abrasive or corrosive substances, wash towels or feminine sanitary products, etc. in all pumping applications.

The warranty set out in the paragraph above replaces all other warranties expressed or implied, and we do not authorize any representative or other person to assume for us any other liability in connection with our products.

MANUFACTURER EXPRESSLY DISCLAIMS LIABILITY FOR SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES OR BREACH OF EXPRESSED OR IMPLIED WARRANTY, AND ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND OF MERCHANTABILITY SHALL BE LIMITED TO THE DURATION OF THE EXPRESSED WARRANTY.

Some states do not allow limitations on the duration of an implied warranty, so the above limitation may not apply to you. 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 gives you specific legal rights, and you may also have other rights which vary from state to state.

Contact

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