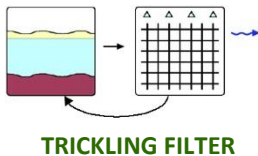


Firm: SeptiTech, a subsidiary of Bio-Microbics, Inc.
www.septitech.com

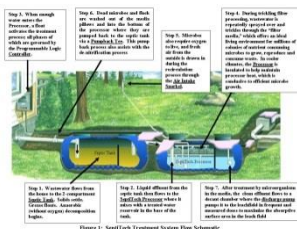
System: **SeptiTech® STAAR™ Filter System**

Category:



Process:

Wastewater (influent) enters a two-chambered primary septic tank for settling and anoxic treatment. Wastewater flows from the primary settling zone into the bottom of the treatment tank via gravity, where it mixes with nitrified treated effluent. With small submerged pumps, one (recirculation) sprays the wastewater combination over the polystyrene bead media mixed with air passively fed through the venturis intake airline. After trickling through the media, where bacteria facilitate nitrification, the second pump (return) sends accumulated “active sludge” from the bottom of the process tank back to the head of the primary tank to mix with raw influent for denitrification. The full process is repeated. A portion of the treated effluent in the reservoir enters the decant chamber, from which the clarified effluent is pumped (discharge pump) in “micro doses” to the dispersal system.



System:

A 2-chamber septic tank is required for pretreatment and for the anoxic treatment of nitrified effluent. An air intake line is needed. The system does not replace the discharge components. Although any type of dispersal component can be used, SeptiTech works well with a dosed, shallow field, as the discharge pump is in the treatment tank.

Flow Range: 500-1,500 gpd

Tests: NSF/ANSI 245; Pending: Suffolk County Pilot 2

Cost: Manufacturer’s recommended retail price: \$5,888 to \$12,780, not including installation

Energy: 3 pumps, small, energy-efficient, for recirculation, return, and discharge, estimated cost \$29/month

SeptiTech
 69 Holland Street
 Lewiston, ME 04240
 207 333 6940

Tanks: Concrete or polyethylene (Graff®, Infiltrator®), sourced locally

Venting: 2 in. diameter pipe

Footprint: Varies, 2, two-chambered tank configuration

Parent company:
Bio-Microbics Inc.
 8450 Cole Parkway
 Shawnee
 Kansas 66227

Depth: Burial depth varies based on tank manufacturer’s recommendations or local regulations.

Life Cycle: Multiple pumps (3), every 5 years (Cost: \$200-\$600)

Telephone:
 1 800 753 3278
 913 422 0707

Warranty: 2 years after installation, 3 years after shipping

Maintenance: Annually; pump-outs of primary tank, as needed.

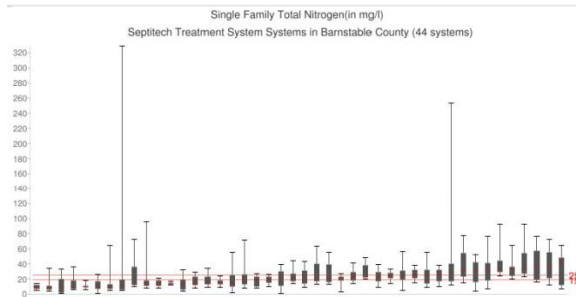
Notes: The system adjusts automatically to uneven use, entering a sleep mode that only circulates enough to feed the microbes.

Optional telemetry and UV packages are available.

Installations: Roughly 100,000 have been installed worldwide.

Treatment:

	<i>TN /aver >50%</i>
<i>mg/L</i>	11
<i>%</i>	75%



Data from MASSTC

Advantages:

- Controls automatically compensate for uneven use
- Can use a H2O tank for vehicular loading
- No blowers needed

Disadvantages:

- Multiple, submersible pumps needed
- Energy use moderately high