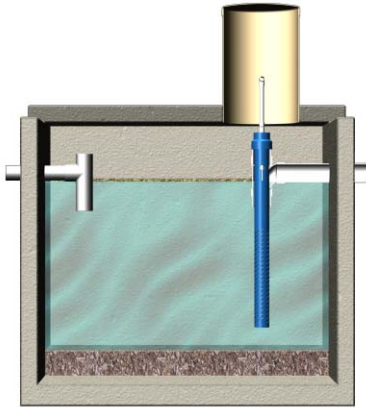
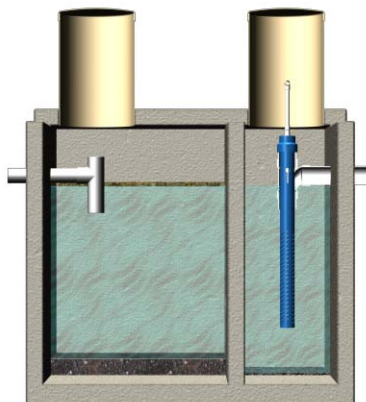


SaniTEE™

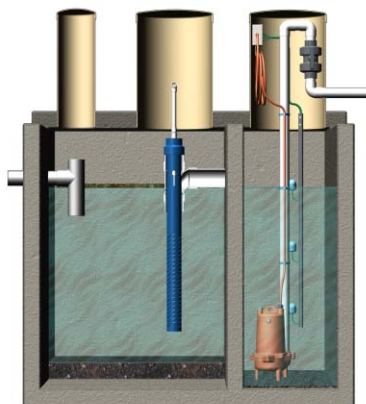
wastewater screens



Single Compartment Tank with Gravity Discharge



Dual Compartment Tank with Gravity Discharge



Dual Compartment Tank utilizing an effluent pump

SaniTEE™ Effluent Wastewater Screens

SaniTEE™ self-cleaning wastewater deflection screens (commonly known as septic tank effluent filters) are designed to reduce suspended solids discharged in septic tank effluent by promoting natural sedimentation and excluding gas-lifted particles from entering the outlet pipe. Additionally, SaniTEE's patented keyhole weirs help to attenuate surge flows, delivering a more consistent flow for further treatment or dispersal. These features help extend the lives of drain fields, reduce the clogging of orifices in effluent disposal systems and allow flexibility in the use of different types of effluent pumps.

Applications

1. Single Compartment Tank with Gravity Discharge - SaniTEE™ is installed into the outlet tee of the tank. Its angled slots protect the drain field by retaining the suspended solids inside the tank.

2. Dual Compartment Tank with Gravity Discharge - This configuration would utilize the SaniTEE in the outlet tee of the second compartment. This configuration provides additional solids retention due to the dual-compartment design.

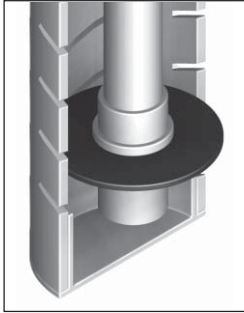
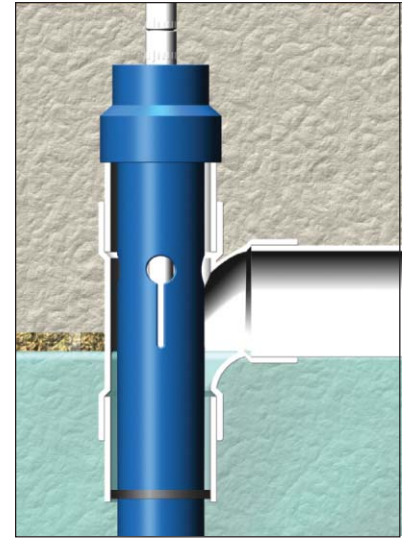
3. Dual Compartment Tank utilizing an effluent pump - This configuration provides primary screening in the first compartment and allows flexibility in the use of different types of effluent pumps.

4. Commercial Usage (in any of the above configurations) - SaniTEE can also be utilized at such decentralized commercial properties as restaurants, laundromats, gas stations, beauty shops or veterinary clinics. When used in these applications, SaniTEE provides many benefits including prolonged drain field life and ease of maintenance.



How It Works

As sewage enters the septic tank, grease, oils and light weight particles rise to join the scum layer at the water surface. Heavier solids settle to the bottom to join the sludge layer. In between these layers is a zone of relatively clean effluent. This effluent enters the side of the SaniTEE™ screen, passing through the angled slots. Clarified effluent then travels up through the inside of SaniTEE and out through patented keyhole weirs to discharge via the standard outlet piping. As solids come in contact with the smooth vertical surface of the screen, they tend to slough off, falling back into the septic tank, instead of collecting inside a filter housing.



Simple Installation and Maintenance

The installation of SaniTEE™ consists of dropping it inside a standard septic tank outlet tee. No tools required.

When cleaning the SaniTEE, simply move the swab handle up and down to pass the swab through the center screen. This swabbing action will dislodge any debris that might be trapped in the angled slots. If inspection is required, SaniTEE can be removed easily by simply lifting the screen out of the outlet tee.

Unique Design Characteristics

- 1 Self-Cleaning Screen and Swab Feature -**
The smooth exterior surface of the SaniTEE promotes the deflection of solids back into the septic tank. Any solids that become trapped in the angled slots can be easily dislodged with a simple swab of the screen.
- 2 Angled Slots -** Angled slots, similar to those used in industrial well screens, are used because they resist blinding (clogging) better than mesh-type screening devices. The appropriate slot width does not allow nuisance solids to be discharged. Additionally, it has been found that most solids suspended in a tank float horizontally, like a leaf at the water surface. Therefore, the angled orientation of the slots is most likely to block the entrance of most solids.
- 3 Gas-lifted Solids Deflection -** It is well known that solids are lifted by various gasses present in septic tanks. These gas-lifted solids often rise into the end of the outlet tee and are discharged with the effluent. When SaniTEE is utilized, flow must enter from the side, not the bottom, so the escape of gas-lifted solids is virtually eliminated.



- 4 Keyhole Weirs -** Surge flows are common in a normal residential application due to simultaneous discharge from many fixtures in the home (i.e. laundry day). The patented keyhole weirs provide flow attenuation to dampen these surge flows that otherwise may scour solids out of the septic tank with the effluent.
- 5 Solids Exclusion Ring -** This ring prevents the possible short circuiting of solids through the discharge piping.

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