

SaniTEE
wastewater screens

BIOSTEP
SCREENED PUMPING SYSTEMS

StormTEE **MyTEE**
Litter Control Screens Screen System



Influent & Effluent Screening Devices

BIO **MICROBICS**[®]

BETTER WATER. BETTER WORLD.[®]



Protect or enhance your system(s) performance with an easy to install, simple-to-clean screening device from Bio-Microbics:



SaniTEE® - An easy to install/maintain effluent filter screening device to reduce suspended solids discharged in septic tank by promoting natural sedimentation and excludes gas-lifted particles from entering the outlet pipe.



BioSTEP® - A packaged pump system with the engineered design of our effluent filter to transfer screened liquids for various small-diameter, collection system applications.



MyTEE® - A required screen device prior to the AMS Zone for a MyFAST® system, the MyTEE® screen provides separation of non-biological solids and grit.

StormTEE® - Ideal for the removal of trash, litter, and debris from storm water flows. The patented, clean-in-place deflector screen can be used alone or in conjunction with the BioSTORM® stormwater treatment system.

Other Systems and Products available to suit your particular needs:

FAST Wastewater Treatment Systems

- **RetroFAST®**
- **MicroFAST®**
- **HighStrengthFAST®**
- **MyFAST®**

Biological Tricking Filter Technology

- **SeptiTech® STAAR™ Residential**
- **SeptiTech® STAAR™ Commercial**

Membrane BioReactor Technology

- **BioBarrier®**
- **BioBarrier® HSMBR®**

Stormwater Treatment Solutions

- **BioSTORM®**

Marine Sanitation Technology

- **MarineFAST® LX-Series**
- **MarineFAST® M-&MX-Series**
- **MarineFAST® DV-Series**

Submerged Aeration Systems

- **Lixor®**

Grease Management Solutions

- **FOGHog®**

Biological Nutrient Removal Solutions

- **NitriFAST®**
- **ABC®-N**

Water Treatment Solutions

- **SciCHLOR®** Hypochlorite Generators
- **SciBRINE®** BrineMakers & Kits
- **Mighty Mike®** CPT Tablets

Environmentally-Friendly Cleaning Solutions

- **Mighty Mike®** All Purpose Cleaner
- **Mighty Mike®** Laundry Detergent



*Mighty Tough
on Cleaning!*



Use Mighty Mike® environmentally-friendly Tablets & Cleaners to effectively clean without damage or leaving residues!

Call 1-866-652-4539 or email solutions@sciencofast.com

Innovative Products, Proven Ideas

Use as a standalone filter in a tank or for pre-screening with a complete wastewater treatment system:

RESIDENTIAL

- Single-family homes
- Multi-Family Properties
- Clustered Subdivisions
- Apartment Complexes
- Military Facilities
- Communities/Villages
- Small Municipalities

COMMERCIAL

- Restaurants
- Schools/Universities
- RV & Mobile Home Parks
- Office Parks/Shopping Centers
- Resort Areas/Hotels
- Highway Rest Areas
- Country Club/Golf Courses

STORM WATER

- Parking Lots
- City Streets/Roads/Alleys
- Development Complexes
- Parking Garages
- Construction Sites
- Retention Ponds
- Rainwater Harvesting

“No filter technology on the market is easier to maintain than these!”

Effluent filters protect absorption areas from premature clogging and failure due to the release of non-settleable solids and/or non-degradable flushed materials from the septic tank. Effluent filters are installed on the outlet of the septic tank or the last septic tank in-series before distribution to the absorption area. Installation of septic tank effluent filters is an inexpensive method to enhance the effectiveness of a septic tank. These screening devices prevent floatables, large amounts of FOG (fats, oils, and grease), and/or solids from leaving the tank and help to:

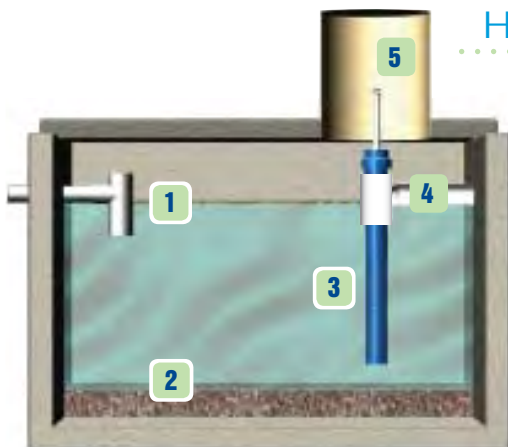
- **extend the life of your system(s)**
- **reduce clogging material**
- **improve flow conditions**
- **allow flexibility in designing the system**

As an important feature in the treatment process, these screening devices prevent large solids and coarse material from causing undue wear on water treatment equipment or interfering with treatment processes.



- **Easy, "slip-in" Installation and CIP Maintenance** - Installed directly in the outlet tee of tank prior to the drainfield or the treatment tank, these screening devices come standard with swabbing feature for Clean-in-Place (CIP) maintenance.
- **Angled Slots** resists blinding and prevents clogs inside the filter housing better than mesh-type screens.
- Patented **Keyhole Weirs** (on the SaniTEE®) provides consistency of flow despite surges.

How the Screening Devices Work



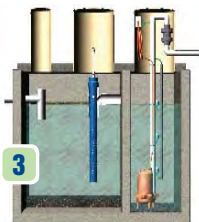
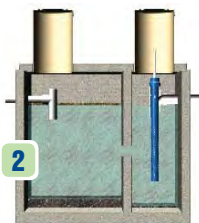
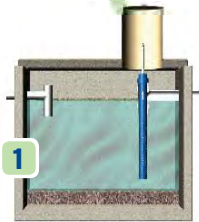
- 1 As the wastewater enters the tank, light-weight floatables rise to form a scum layer at the water surface;
- 2 Sediment and heavy solids settle to the bottom to form the sludge layer.
- 3 The 'clarified' water enters the screen by passing through angled slots.
- 4 Screened water is discharged for further treatment or dispersal.
- 5 TO CLEAN: any solids that become trapped in the angled slots can be easily dislodged with a simple pull of the swab handle(s). Extension rods can easily be added to handles for a custom fit.

SaniTEE[®]

wastewater screens

A SaniTEE[®] screen improves performance and protects the system!

When used for primary screening in residential and commercial applications, a SaniTEE[®] can provide many benefits; i.e. prolonged drain field life and ease of maintenance. Available in 4", 8" and 16" diameters, these screening devices provide consistent retention of solids for a multitude of applications. Suggested installations:



1 Single-Compartment Tank with Gravity Discharge

2 Dual-Compartment Tank with Gravity Discharge

3 Dual-Compartment Tank with an Effluent Pump, also see the BioSTEP[®] system.

SaniTEE[®] Specifications

Model Sizes	Screen Diameter	Screening Level	Flow Range
SNT416	4" (10 cm)	1/16" (.15 cm)	Up to 1000 GPD (3785 LPD)
SNT418	4" (10 cm)	1/8" (.32 cm)	Up to 2000 GPD (7571 LPD)
SNT818	8" (20 cm)	1/8" (.32 cm)	Up to 6000 GPD (23 m ³ /D)
SNT838	8" (20 cm)	3/8" (.95 cm)	Up to 10000 GPD (38 m ³ /D)
SNT1618	16" (40 cm)	1/8" (.32 cm)	Up to 10000 GPD (38 m ³ /D)
SNT1638	16" (40 cm)	3/8" (.95 cm)	Up to 20000 GPD (75 m ³ /D)

MyTEE[®]

Screen System

Please refer to the product drawings for more information, technical specifications, and tank recommendations.

Low-Maintenance Grit Screen

The MyTEE[®] screen provides effective separation of non-biological solids and grit prior to the AMS Zone in the MyFAST[®] System. MyTEE[®] devices come standard with wall mounted top diverters, base supports, and internal/external cleaning swabs for easy maintenance.

MyTEE[®] Specifications

Model Size	MYT1638
Screen Diameter	16" (40 cm)
Screening Level	3/8" (0.95 cm)
Flow Range	min. 10000+ GPD (38 m³/D)

Use the MyTEE[®] Screen System for any pre screening and grit removal large-flow wastewater application.

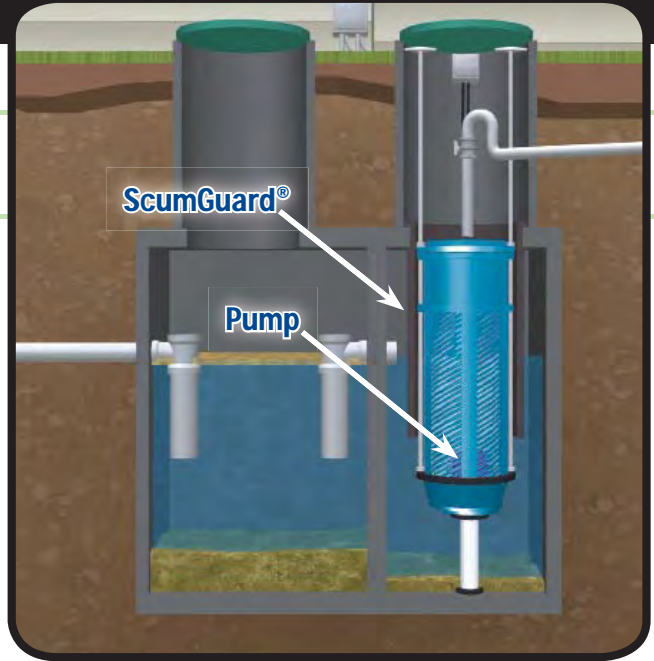




Low-Maintenance Wastewater Transfer Screen with Pump Options

The BioSTEP® screened pumping system uses the patented SaniTEE® screen with clean in place technology to deflect and separate the solids in raw waste water. A robust pump transfers the screened effluent to the desired location. The system also incorporates easy installation features for both new and existing sites.

BioSTEP®'s standard design package incorporates a superior ¾" solids handling sewage pump and a comprehensive control system. Other pump options are available.



BioSTEP® Specifications

Model Size	BST1618
Screen Diameter	16" (40 cm)
Screening Level	1/8" (0.32 cm)

***Pump Selection for BioSTEP® System ranges from 1/3HP to 2HP**



Low-Maintenance Stormwater Screen

The StormTEE® Litter Control Screens remove trash, litter, and debris associated from storm water flows. Includes Top and Bottom Diverter outlet tees, StormTEE® is perfect for retrofits, easy slip in installation, and easy-to-clean for a variety of storm water applications.

StormTEE® Specifications

Model Sizes	Screen Body Dia.	Screening Level	Max Flow Capacity Cubic Feet per Second (liters)
SMT838	8" (20 cm)	3/8" (.95 cm)	Up to 1.5 CFS (42 LPS)
SMT1638	16" (40 cm)	3/8" (.95 cm)	Up to 5 CFS (142 LPS)



With over 45,000 installations in more than 60 countries, our Fixed Integrated Treatment Technologies (FITT®) are the result of decades of experience, research & development, and real world operating history.

Awards, Technology Approvals, and Certifications

- **2012 President's "E" Award** for Excellence in Exports, granted by the President of the United States, presented by the U.S. Department of Commerce
- **2011 Technology Innovation Award** (Decentralized Commercial Outlets) – Frost & Sullivan – FAST® Technology
- **2011 New Product of the Year Award** – Recycling Category. Environmental Protection Magazine (EPonline.com) "The financial, environmental and social benefits of 'recycling' are indisputable." – BioBarrier® MBR Technology
- **2011 Kansas Governor's Exporter of the Year** – presented by the Governor of KS, KS Dept. of Commerce
- **2010 North American Technology Innovation Award** (Water/Wastewater) – Frost & Sullivan – FAST® Technology
- **2009 Technology Merit Business Achievement Award**, Water/Wastewater – Environmental Business Journal (EBJ) – BioBarrier® MBR Technology
- **2002 U.S. Export Achievement Certificate**, US Dept. of Commerce, US & Foreign Commercial Service
- **2000 U.S. EPA Environmental Technology Innovator Award** – U.S. EPA, Region 1 – SeptiTech® Technology
- Australian Dept of Transportation & Royal Australian Navy - Technology Approval
- Canadian Great Lakes (CGL) Maritime Certification – Canadian Coast Guard
- Canadian Standards Association (CSA) International Electrical Certification
- CE – European Electrical Systems (including a "Tropical Certification Rating")
- China Classification Society (CCS) 中国船级社 – FAST® Technology Approval
- EN 12566-3, Packaged and/or site assembled domestic wastewater treatment plants for up to 50 People, PIA GmbH tested - BioBarrier® MBR 0.5, 1.0, & 1.5
- GreenSpec® (BuildingGreen.com Product Directory) listed...Provides accurate, unbiased...information [to]...improve the environmental performance, and reduce the adverse impacts of buildings
- IAPMO (International Association of Plumbing & Mechanical Officials) Listed – Fat Oil & Grease Interceptors/Traps R&T File #2586 – FOGHog® FH-20 & FH-50
- IMO (International Maritime Organization) MARPOL Annex IV (2010) – provides guidance for the Navigation and Vessel Inspection Circular (NVIC) No. 1-09, US EPA and other effluent standards as may be required – FAST® Technology
- Massachusetts Title 5 Innovative/Alternative System - Technologies Listed under "General Use Permit for Nitrogen Reduction", "Provisional Use," & "Remedial Use"
- NSF/ANSI Std 40, class 1 Certified – MicroFAST®, BioBarrier® MBR and SeptiTech® Systems up to 1500 GPD – Recognized in domestic and international trade by regulatory agencies at the local, state/province, and federal levels.
- NSF/ANSI Std 245 (Nitrogen Reduction) Certified – MicroFAST®, BioBarrier®-N MBR, BioBarrier® MBR and SeptiTech® Systems up to 1500 GPD
- NSF/ANSI Std 350 class R (Water Reuse) Certified – BioBarrier® MBR 0.5, 1.0, & 1.5
- PDI (Plumbing & Drainage Institute) Certified – Standard PDI-WH201 and PDI-G101 grease interceptors – promotes the advancement of innovative plumbing products.
- Poland – Aprobata Techniczna (Technology Approval) ze Instytut Ochrony Srodowiska (Institute of Environmental Protection)
- România – Avizează Favorabil – Consiliul Tehnic Permanent Pentru Constructii – Ministerul Dezvoltării Regionale Si Turismului
- Russia – Technology Approval – Федеральная Служба По Надзору В Сфере Защиты Прав Потребителей И Благополучия Человка (Federal Service of Environmental Protection)
- Russia – CPT Свидетельство о Российских Стандартах (Certification of Russian Standards) – BioSTORM® – All sizes
- Russia – PMPC (Russian Maritime Register of Shipping) МЕЖДУНАРОДНОЕ СВИДЕТЕЛЬСТВО О ПРЕДОТВРАЩЕНИИ ЗАГРЯЗНЕНИЯ СТОЧНЫМИ ВОДАМИ - International Sewage Pollution Prevention Certificate
- SASO (Saudi Arabian Standards Organization) Certified
- ETL (UL) – Listed to US electrical certification requirements
- U.K. – United Kingdom Department of Trade – FAST® Technology Approval
- U.S. Coast Guard – 33CFR159, MEPC.159(55) – FAST® Technology Approval for Type II MSD (Marine Sanitation Devices)
- U.S. EPA–ETV (Environmental Technology Verification) – validates the performance of technology that may improve the protection of the environment. – RetroFAST®, Report No. 03/08/WQPC-SWP – SeptiTech®, Report No. 02/04/WQPC-SWP

...and MORE!



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