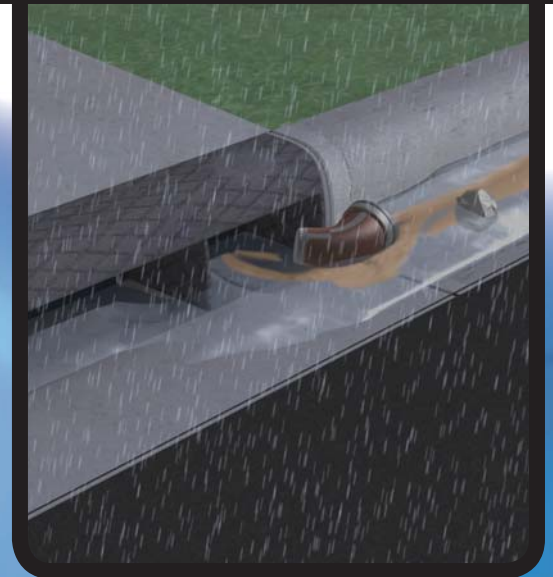




Urban/Surface Runoff • Sediment/Litter Control



BIO-MICROBICS
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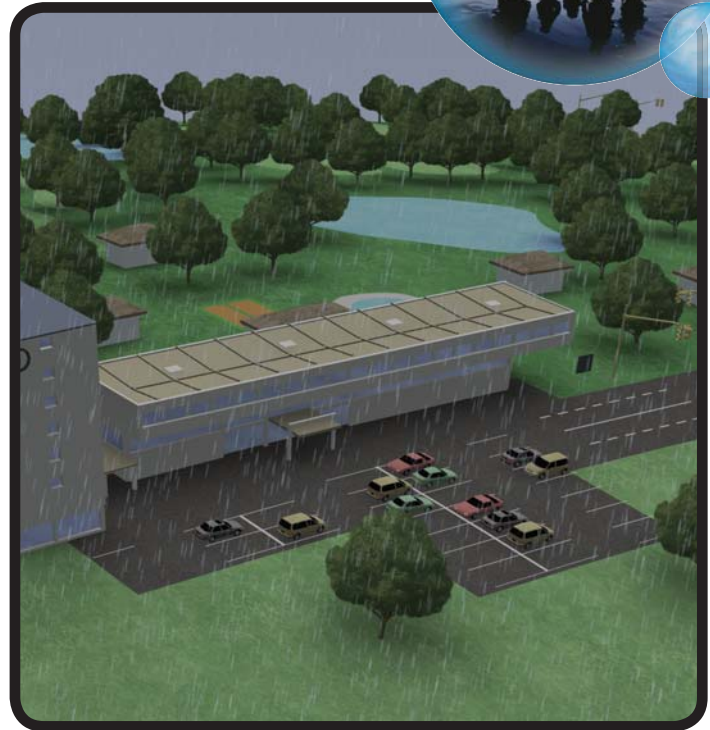
Better Water. Better World.®

Simple, Modular, Effective.

The BioSTORM® pre-engineered, storm water treatment system removes common pollutants, such as trash, oils, sediment and other suspended solids, from storm water flows.

The system is designed for primary and/or secondary storm water treatment applications and allows for design flexibility with multiple sizes/capacities. With a Low Impact Design (LID) and easy installation procedure, the BioSTORM® system mounts easily in local precast tanks and requires minimal maintenance for the simple removal of debris.

The off-line, two-phase design consists of a StormTEE® deflector screen and pre-engineered media to physically separate trash and large debris for further treatment in the second stage with BioSTORM media and liner to remove sediment and hydrocarbons from storm water flows. The versatility of the system allows both treatment components to be used separately for different applications, or together to form a complete BioSTORM® system.



Low maintenance pre-engineered, packaged stormwater treatment system for the separation of trash, oil, and sediment found in rain water runoff from parking lots, roads, streets, and highways.



StormTEE® litter control screens are ideally suited for the simple, affordable removal of trash, litter, and debris from stormwater flows in a variety of applications.



Nature's Water. Our Control.

Stormwater



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www.biomicrobics.com

Managing Storm Water:

- Reduce Storm Water Pollution
- Reuse for Rainwater Harvesting
- Meet Local Regulations for:
 - Construction Stormwater
 - Industrial Stormwater
 - Municipal Stormwater
 - Residential Stormwater

BioSTORM® System:

Stormwater Management Systems catch surface runoff and treat the storm flows before it reaches natural catchments (watersheds) that may lead to stream erosion, altered natural ecosystems, and/or retention pond aging.

- Maintain natural stormwater flows by promoting filtration of common pollutants. Prevent common pollutants (i.e. trash, debris, sediment, hydrocarbons, and other contaminants) from entering storm drains from parking lots, roads, highways, or other impervious surfaces.
- Adhere to Best Management Practices for Water Quality Storm Flow for Redevelopment of Sites or Retention Pond/Land Saving
- Gain credits from green-building guidelines to reuse filtered storm water generated for exterior non-potable uses, i.e. landscape irrigation and/or other graywater uses.

The complete BioSTORM® stormwater treatment system combines litter control screening with fine-particle and oil/water separation as part of an effective storm water management system.

GENERAL BIOSTORM® PRODUCT INFORMATION

BioSTORM® Specifications Models and Treatment Capacities*

Model Sizes	Design Flow Rate [ft³/s]	StormTEE® Model	Internal Piping Diameter
BioSTORM 0.5	0.5 CFS (14 LPS)	SMT838	8" (20 cm)
BioSTORM 1.0	1 CFS (28 LPS)	SMT838	8" (20 cm)
BioSTORM 1.5	1.5 CFS (42 LPS)	SMT838	12" (30 cm)
BioSTORM 3.0	3 CFS (85 LPS)	SMT1638	12" (30 cm)
BioSTORM 5.0	5 CFS (142 LPS)	SMT1638	12" (30 cm)
BioSTORM 10.0	10 CFS (283 LPS)	(2) SMT1638	18" (46 cm)

See Product Drawings and/or Manual(s) for further details & Technical Specifications
Contact sales@biomicrobics.com or a distributor near you for more info on approved tank manufacturers in your area.

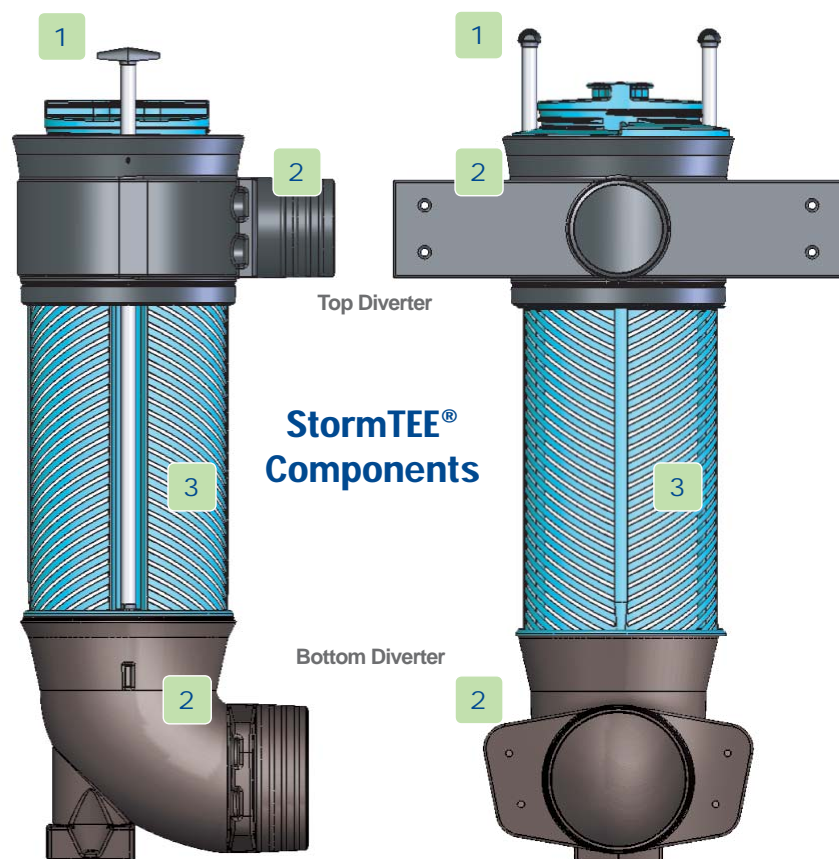
StormTEE® Specifications

Model Sizes	Screen Body Diameter	Screening Level
SMT838	8" (20 cm)	3/8" (.95 cm)
SMT1638	16" (41 cm)	3/8" (.95 cm)

StormTEE® is a patented, low maintenance, screening device that can be used alone or in conjunction with the combination fine-particle separation and oil/ water coalescing modular unit as part of a complete BioSTORM® system. StormTEE deflector screens are easy to install in both new construction projects and perfect for retrofits too.

Unique Design Characteristics

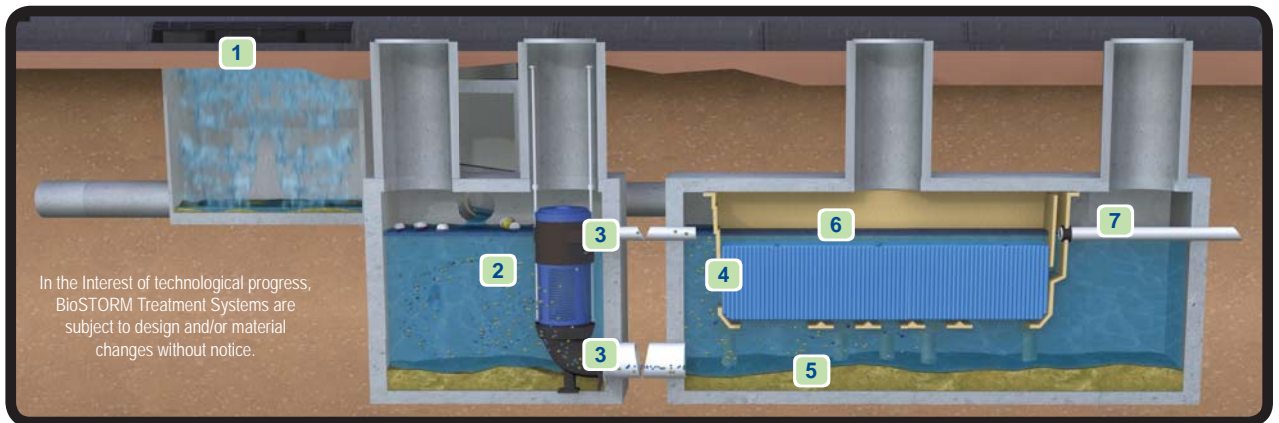
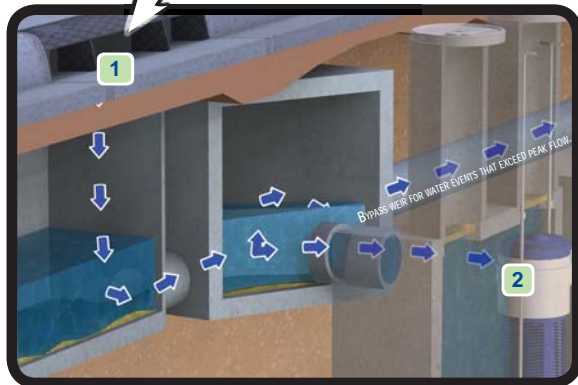
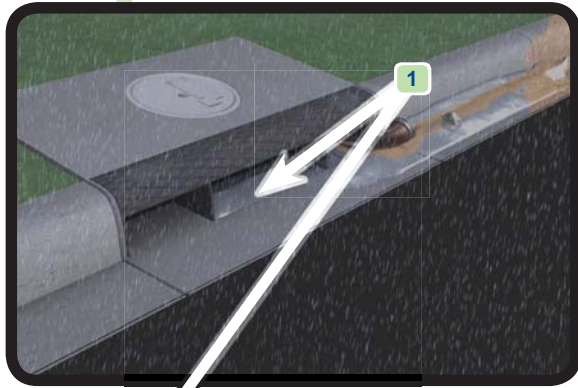
- Swab Feature** - The smooth exterior surface of the StormTEE® promotes the deflection of solids back into the tank. Any solids that may inadvertently become trapped in the angled slots dislodged from outside the tank with a few easy swipes of the built-in cleaning swab.
- Easy, Slip-in Installation** - All StormTEE's come with their own convenient top and bottom outlet tee to secure to the tank wall. Once the custom outlet tees are connected to the outlet pipe, the StormTEE® screen easily slips between the top/bottom diverter outlet tees.
- Angled Slots** - Similar to those used in industrial well screens, are used to resist blinding (clogging) better than mesh-type screening devices. The appropriate slot width does not allow nuisance solids to be discharged.



BioSTORM

stormwater treatment systems

How Does the System Work?



In the Interest of technological progress, BioSTORM Treatment Systems are subject to design and/or material changes without notice.

- 1 As rainwater washes across impervious surfaces, various pollutants including sediment, oils, debris and other substances flow into the storm drain.
- 2 The StormTEE® deflector screen separates trash and larger solids from the stormwater flow.
- 3 The flow passes through the top/bottom diverter outlet tees into the BioStorm treatment chamber.
- 4 The separation module contains pre-engineered media that acts as a liquid/solids separation barrier and an oil/water separator.
- 5 Sediment descends to the bottom of the tank for storage and removal.
- 6 Oils coalesce and rise to the water surface where it remains in the BioSTORM® module for storage and easy removal.
- 7 The clean rainwater is then directed up an outlet baffle and into the effluent pipe for discharge back into the main storm water network or discharge into the receiving environment.

Variable Flows, Consistent Treatment

- Pre-engineered offline system
- Unique modular design
- Removes trash/sediment/oils
- Easy to install in tanks
- Maintains treatment
- Easy to maintain



Why Can't Water Treatment Be Simple?

With Bio-Microbics, it is. Our Fixed Integrated Treatment Technologies (FITT®) are the result of decades of experience, research & development, and real world operating history.

With over 42,000 installations in more than 60 countries, these technologies are operating right now. Unnoticed. And that's just the way we like it.

Awards, Technology Approvals, and Product Certifications

- Australian Department of Transportation & Royal Australian Navy - Technology Approval
- CGL (Canadian Great Lakes) Maritime Certification – issued by the Canadian Coast Guard
- CSA (Canadian Standards Association) International Electrical Certification
- CE – European Electrical Systems (including a “Tropical Certification Rating”)
- CCS (China Classification Society) 中国船级社 – FAST® Technology Approval
- Environmental Business Journal (EBJ) – 2009 Technology Merit Business Achievement Award, Water/Wastewater – BioBarrier® Membrane BioReactor Technology
- EPOne.com (Environmental Protection Magazine) – “2011 New Product of the Year” (Recycling) – BioBarrier® Membrane BioReactor Technology
- Frost & Sullivan – 2011 Technology Innovation Award (Decentralized Commercial Outlets)
- Frost & Sullivan – 2010 North American Technology Innovation Award (Water/Wastewater)
- GreenSpec® (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 by IAPMO R&T File #2586 – FOGHog® Fat Oil & Grease Interceptor FH-20 & FH-50
- IMO (International Maritime Organization) MARPOL 2010 – FAST® Technology Approval
- Massachusetts Title 5 Innovative/Alternative System General Use Permit for Nitrogen Reduction
- NSF/ANSI Std 40, class 1 Certified – MicroFAST® 0.5, 0.75, 0.9, 1.5 & BioBarrier® MBR 0.5, 1.0, & 1.5 – Recognized in international trade by regulatory agencies at the local, state, and federal levels.
- NSF/ANSI Std 245 (Nitrogen Reduction) Certified – MicroFAST® 0.5, 0.75, 0.9, 1.5, BioBarrier®-N MBR 0.5, 1.0, & 1.5, and BioBarrier® MBR 0.5, 1.0, & 1.5
- NSF/ANSI Std 350 class R (Water Reuse) Certified – BioBarrier® MBR 0.5, 1.0, & 1.5 – Treated effluent discharged from onsite treatment systems meeting reuse requirements, including indoor (toilet/urinal flushing) and outdoor (surface irrigation) uses.
- 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)
- Romania – 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 – FAST® Technology Approval for Type II MSD (Marine Sanitation Devices).
- U.S. EPA-ETV (Environmental Technology Verification) – RetroFAST® .250, .375 – validates the performance of technology that may improve the protection of the environment.
- ...and **MORE!**



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