Established in 1998 to focus on water ecology and technology, innovation through three companies, BioMicrobics, SeptiTech, and Science/FAST. At the forefront of sustainable design and with more than 80,000 installed systems in over 90 countries, these systems meet the highest performance standards for treatment of rainwater, greywater, wastewater, stormwater, and more.

BioMicrobics has developed a number of innovative products dealing with the treatment of water – where infrastructure and drainage are not available. Our systems are designed and engineered with sustainability and user practicality in mind.

RetroFAST
Ideal for saving tanks or upgrading the septic system to enhance removals in a rain field, see our S.G.A. Green Our Septic® Warranty Program.

MicroFAST
Vegetable and industrial systems are designed for individual houses, small commercial properties, or other domestic, commercial properties, and other domestic, commercial properties with low applications.

NitrIFAST
For aerobic wastewater treatment with MicroFAST to provide additional treatment to achieve even higher levels of nutrient removal.

HighStrengthFAST
Innovative treatment systems with high strength applications and properties, with higher strength loading and dealing with FOG (fats, oils, and grease) issues to provide stable, robust, low-maintenance treatment systems.

MyFAST
Innovative treatment systems.

MarineFAST
For use on inspectable vessels and other platforms to keep in compliance with the latest state and local environmental and greywater treatment and reliable wastewater treatment performance on vessels of all types.

BioMicrobics
Innovative Onsite Wastewater Products

Most Popular Onsite, Decentralized Wastewater Treatment System

NSF/ANSI 245 Certified For
Nitrogen Reduction

Reliable, Proven, Long-term Performance with Low Maintenance

BIO
MICROBICS

SeptiTech

Science/Fast

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BioMicrobics FAST™ is the leading, integrated Fixed-Film Activated Sludge (FFAS) treatment process with SFR® sequencing fixed reactor to provide significant improvement over traditional systems. Ideal in high nitritation/denitrification performance for environmental sensitive areas, the FAST treatment process exceeds effluent quality requirements for possible drainfield reduction or water reuse opportunities.

Removes 90%+ of total suspended solids (TSS) and reduces the biochemical oxygen demand (BOD) to enable cost-effective treatment with less maintenance. Helps meet water quality goals with total Nitrogen removal (TKN) requirements.

FAST systems can be used for new construction or retrofit in existing tanks; including environmentally sensitive areas or limitations with distance to groundwater and/or smaller dispersed field size requirements:
- Microbial growth in low/average/peak usage
- Increases settleability and eliminates sludge bulking
- Easy to maintain and extraordinarily reliable
- Exceeds minimum Nitrogen Reduction Standards
- Lessen the impact of harmful bacteria and viruses
- Takes all aspects of treatment into consideration

**With standard and optional features to help manage the expected goals of the system:**
- Cost effective for retrofits and upgrades and reduce operation and maintenance costs.
- Complete new builds or expansions of WWTPs
- No replacement filters or cleaning of the media required.
- For alternative energy sources, see the FIT™-ee “energy-efficient” wastewater treatment systems.
- Larger FAST systems are of be污泥 manifold to better BioMicrobics Management built right in!

**FIT™-for-the-purpose-intended, the FAST™ systems** are engineered to fit most residential and commercial applications. These pre-engineered, package plants utilizing the FAST™ “integrated fixed-film activated sludge” technology easily scales up to larger flows to small municipalities (see MacroFIT™) and will achieve better treatment - by far the most effective and natural process for removing pollutants from the wastewater.

### MicroFAST

<table>
<thead>
<tr>
<th>UNIT</th>
<th>MAXIMUM TREATMENT</th>
<th>CAPACITY*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume/Module</td>
<td>0.500 GPD (1,893 LD)</td>
<td>1 - 8</td>
</tr>
<tr>
<td>0.625 GPD (2,366 LD)</td>
<td>1 - 10</td>
<td></td>
</tr>
<tr>
<td>0.750 GPD (2,829 LD)</td>
<td>1 - 11</td>
<td></td>
</tr>
<tr>
<td>0.90 GPD (3,407 LD)</td>
<td>1 - 14</td>
<td></td>
</tr>
<tr>
<td>1.50 GPD (5,678 LD)</td>
<td>6 - 21</td>
<td></td>
</tr>
<tr>
<td>3.00 GPD (11,356 LD)</td>
<td>10 - 42</td>
<td></td>
</tr>
<tr>
<td>4.50 GPD (17,034 LD)</td>
<td>16 - 63</td>
<td></td>
</tr>
<tr>
<td>9.00 GPD (34,068 LD)</td>
<td>30 - 126</td>
<td></td>
</tr>
</tbody>
</table>

### HighStrengthFAST

<table>
<thead>
<tr>
<th>UNIT</th>
<th>MAXIMUM TREATMENT</th>
<th>CAPACITY*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume/Module</td>
<td>1.000 GPD (4,297 LD)</td>
<td>CONSULT/NCBD</td>
</tr>
<tr>
<td>1.500 GPD (5,478 LD)</td>
<td>CONSULT/NCBD</td>
<td></td>
</tr>
<tr>
<td>3.000 GPD (11,356 LD)</td>
<td>CONSULT/NCBD</td>
<td></td>
</tr>
<tr>
<td>4.500 GPD (17,034 LD)</td>
<td>CONSULT/NCBD</td>
<td></td>
</tr>
<tr>
<td>9.000 GPD (34,068 LD)</td>
<td>CONSULT/NCBD</td>
<td></td>
</tr>
</tbody>
</table>

### How it Works!

1. **Settling Zone:** Separation processes occur (a SanTEE™ effluent screening device is required for commercial systems) to prevent large solids from entering the treatment zone.

2. **Aeration:** Above-ground, regenerative blower introduces oxygen into the tank to facilitate a robust circulation through the FAST treatment media’s channeled flow path.

3. **Submerged Filter Media Tank:** Adsorption of organics, nutrients, and pathogenic organisms by the abundant, self-regulating, healthy microbes attached to the media.

4. **Discharge:** Treated water exits for dispersed or reuse.

**BioMicrobics FAST™ Systems** are a popular alternative for the rural/urban environment. Award-winning “integrated water strategy” and innovative environmental technology, the FAST™ technology have passed the most rigorous domestic and international third-party certification programs. The simple, robust design allows long-term operational performance with easy and low-cost operation and maintenance.