# BIOMICROBICS®

# with SFR. wastewate treatment systems

wastewater

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Based on our most popular wastewater treatment technology

EN12566-3 certified for residential applications up to 50 people

With an energy-officient air delivery system and low maintenance

**ADVANCED WASTEWATER TREATMENT PROCESS RESIDENTIAL • LOW ENERGY REQUIREMENTS** 

AWARD-WINNING INTEGRATED WATER TECHNOLOGY

www.biomicrobics.com

BETTER WATER. BETTER WORLD.



Just like the BioMicrobics FAST<sup>®</sup> Systems, the FITT<sup>®</sup>-ee wastewater treatment systems create an optimized treatment environment by using a fixed block of media for microbial growth with an energy-efficient aeration system. The energy-efficient Fixed Integrated Treatment Technology (FITT<sup>®</sup>-ee) design produces a robust, biological treatment system that combines and integrates several proven wastewater treatment process in one.

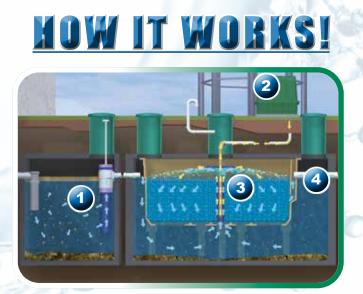
The FAST<sup>®</sup> and FITT<sup>®</sup>-ee systems enable cost-effective treatment with less oversight and maintenance. These simple, low cost and robust systems are used for new construction or retrofit to existing tanks in standard remote properties. Ideal for environmentally sensitive areas, the FITT<sup>®</sup>-ee systems provide:

- Microbial growth in low/average/peak usage
- Increases settleabilty & 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

Install directly in locally-sourced, below or above ground, water-tight tanks.

With features to help manage the performance of the system, BioMicrobics has taken many initiatives for reducing the environmental impact of manufacturing wastewater treatment systems at every stage of their life cycle.

*FITT*<sup>®</sup>-for-the-purpose-intended, these systems use energy-efficient technology to lower operating costs. On the ecology front, the clean effluent prevents formation soil-clogging, leach field biomat and achieves better treatment with the most proven, effective process for removing pollutants from wastewater with long-term performance!



Settling Zone: Separation processes occur (NOTE, the use of a SaniTEE<sup>®</sup> effluent screening device, shown, is optional and recommended) to prevent large solids from entering the treatment zone.

Aeration: Above-ground, air compressor introduces oxygen into the tank to facilitate a robust circulation through the FITT<sup>®</sup> treatment media's channeled flow path.

Treatment Tank: Water and air thoroughly mixes before splashing out of the airlift to evenly distribute over the media. Adsorption of organics, nutrients, and pathogens occurs by the abundant, self-regulating, healthy aerobic microbes attached to the media.

Discharge: Treated water exits for dispersal or reuse.



## RetroFITT-ee wastewate

#### See also RetroFAST<sup>®</sup> with DC blower options, consult factory for more information.





	UNIT	MAXIMUM TREATMENT Volume/Module**	CAPACITY* People/Module**	
•	0.150	150 GPD (567 LPD)	1 - 3	
<b>(19)</b>	0.250	250 GPD (947 LPD)	1 - 4	
	0.375	375 GPD (1420 LPD)	1 - 5	

For remediation applications, please see the S.O.S.-Save Our Septic<sup>®</sup> Program and use a "Site Evaluation/ Registration" Report.

- · Meets & exceeds most treatment level requirements
- · Affordable, energy efficient, and lower cost operation
- Minimal site impact (LID design) with existing tanks
- Designed to "FITT" your site constraints & regulatory requirements for Best Management Practices (BMPs)

operational performance with easy and low-cost maintenance.

## MicroFITT-ee systems

Mathematikaman May 1998 - 2004

#### See also MicroFAST<sup>®</sup> with DC blower options, consult factory for more information.

		UNIT	MAXIMUM TREATMENT Volume/Module**	CAPACITY* People/Module**
	<u>()</u>	0.5	500 GPD (1893 LPD)	1 - 8
		0.625	625 GPD (2366 LPD)	1 - 10
		0.75	750 GPD (2839 LPD)	2 - 11
		0.9	900 GPD (3407 LPD)	3 - 14
		1.5	1500 GPD (5678 LPD)	6 - 21
PUAnsant til Abansantechak gobt	capacities considerat **Volum may be d	are rated base ions. Actual cap e/People pe esigned as tot	y: As a "guideline" for suggested use, d on biological oxygen demand (BOD), hydr pacity may vary with local conditions and pe r module: Please note, only residential al number of people per module. Actual and performance goals.	aulic and other project-specific rformance goals. domestic strength applications
PERFORMANCE RESULTS			Electrical components are available to frequency). See product drawing(s) for opti	
Bio summer, KS 88227, stress 8450 Cole Parkway, Shawmer, KS 88227, stress EN 12568-3 Small wasterwater treatment system FIT-ee Small wasterwater treat	ALC: NO CONTRACTOR			
Electrical consumption ** at the transmission of a 300 on pp EOOL (name) ** at the transmission of a 200 (not possible) ** at the transmission of a 200 (not possible) ************************************	ideal	, award-wi	Vastewater Systems are a popu nning "integrated water strat nent. Simple, robust design	tegy" for the rural/



Established in 1996 to focus on water ecology and innovation through three companies, technology BioMicrobics, SeptiTech, and Scienco/FAST are at the forefront of sustainable design and with more than 80,000 installed systems in over 80 countries. Our systems meet the highest performance standards for

-ee

treatment of water, greywater, wastewater, stormwater, and more! BioMicrobics has developed a number of innovative products dealing with the treatment of water where centralized infrastructure and drainage are not desired. Our systems are designed and engineered with sustainability and user practicality in mind.

#### treatment systems Ideal for existing tanks or upgrading the septic system to enhance/renovate a drain field; see our

S.O.S.-Save Our Septic® Warranty Program.

# OFAST. wastewater treatment systems

Versatile and robust, these systems are designed for individual homes, clustered subdivisions, commercial properties and other domesticstrength flow applications.

# FIFAST treat

For use as a second-stage treatment train with a MicroFAST® system to provide additional nitrification to achieve even higher levels of nitrogen reduction.

# trengthFA

Meets the challenges of high-strength applications and properties with higher strength loading and dealing with FOG (grease) issues to provide simple, robust, low-maintenance treatment systems

Ideal for small communities or large commercial propertiesto maintain consistent high performance, low maintenance, and sludge management all in one tank

MICROBICS

a subsidiary of BioMicrobics, Inc.

# Marine **F**A

BIO

For use on inspected vessels and offshore platforms to keep in compliance with total blackwater and greywater treatment and reliable wastewater treatment performance on vessels of all types.

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