



BIO MICROBICS®

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

treatment of water, 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® wastewater treatment systems RetroFITT-ee

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.

MicroFAST® wastewater treatment systems MicroFITT-ee

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

NitriFAST® wastewater treatment systems

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

HighStrengthFAST® wastewater treatment systems

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.

MyFAST® wastewater treatment systems MacroFITT

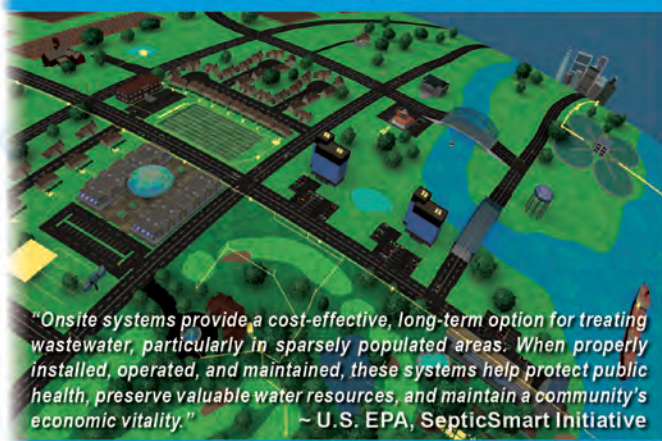
Ideal for small communities or large commercial properties to maintain consistent high performance, low maintenance, and sludge management all in one tank.

MarineFAST®

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.



Often, BioMicrobics Systems are installed in below ground, locally-sourced tanks.



"Onsite systems provide a cost-effective, long-term option for treating wastewater, particularly in sparsely populated areas. When properly installed, operated, and maintained, these systems help protect public health, preserve valuable water resources, and maintain a community's economic vitality."
~ U.S. EPA, SepticSmart Initiative

INNOVATIVE ONSITE WASTEWATER PRODUCTS

MyFAST® wastewater treatment systems MacroFITT® wastewater treatment systems



AWARD-WINNING
INTEGRATED WATER
TECHNOLOGY

ADVANCED WASTEWATER TREATMENT PROCESS
SMALL MUNICIPAL • COMMERCIAL • COMMUNITY

BETTER WATER. BETTER WORLD.®

www.biomicrobics.com

BIO MICROBICS

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MyFAST wastewater treatment systems

MacroFITT wastewater treatment systems

BioMicrobics FAST® (Fixed Activated Sludge Treatment) is the leading wastewater treatment process with SFR® (sequencing fixed reactor) to provide significant improvement over traditional sewer systems for residential and commercial applications. Produces effluent to meet water quality goals, these scaled up versions enable cost-effective treatment with less oversight and maintenance. The MyFAST® and MacroFITT® "High Strength Sewage Treatment Plant" (HS-STP®) systems can be expected to process from 10,000 GPD [38 m3/D] to 2,000,000 GPD [7400 m3/D] with an expected effluent quality of BOD and TSS averaging less than 30 mg/L with domestic wastewater and consistently reduce Nitrogen levels by 50%, depending on wastewater characteristics. Ideal for:

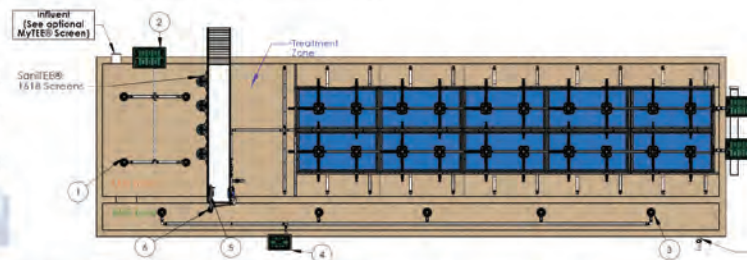
- Larger decentralized commercial/community applications
- Processing 10000 GPD [35 m3/D] to 2MGD [7570 m3/D]
- Retrofit for WWTP or "sewer mining" opportunities

The MyFAST® and MacroFITT® wastewater treatment systems include other components, such as an Aeration Management System (AMS) and BioSolids Management System (BMS) to help the system run at optimal operation, see table for sizes and consult factory for more information.



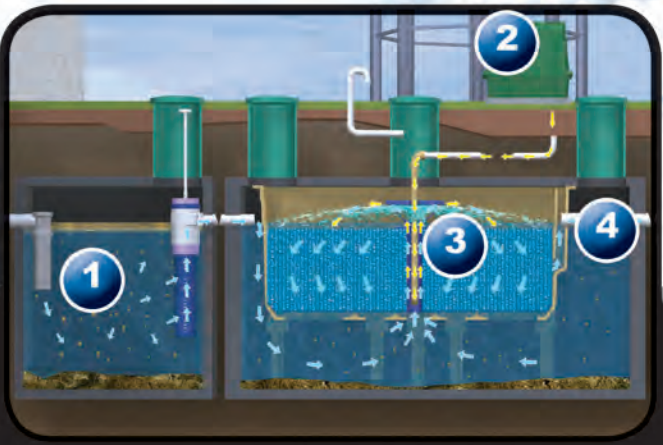
Install directly in below or above ground locally-sourced, water-tight tanks; the blower can be installed up to 100 ft [30.5m] away!

FITT®-for-the-purpose-intended, our popular FAST® wastewater treatment systems deliver consistent high performance in a simple, pre-engineered, modular design for easy shipment around the globe. The FAST® process is used successfully in municipal, industrial, marine, commercial and residential type applications to achieve better treatment with the most proven, effective process for removing pollutants from wastewater flows with long-term performance!



HOW IT WORKS!

- 1 Settling Zone:** Separation processes occur (multiple SaniTEE® effluent screening devices maybe required) to prevent large solids from entering the treatment zone. For certain applications, an optional MyTEE® Grit Vault may be added.
- 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 Treatment Tank:** Water and air thoroughly mixes before splashing against the airlift to evenly distribute over the media. Adsorption of organics, nutrients, and pathogens by the abundant, self-regulating, healthy aerobic microbes attached to the media then occurs.
- 4 Discharge:** Treated water exits for dispersal or reuse.



MyFAST wastewater treatment systems

Consult factory for more information

UNIT	MAXIMUM TREATMENT CAPACITY*		Aeration Management System Optional LIXOR® Package	BioSolids Management System Optional Manifold grid & LIXOR®	For additional Grit Control MyTEE® w/top & bottom diverters
	Volume/Module**	~People per Module**			
1.0	10000 GPD (38 m³/d)	~200	-	-	-
2.0	20000 GPD (76 m³/d)	~400	AMS 2.0/3.0	BMS 2.0/3.0	MyTEE® 2.0/3.0
3.0	30000 GPD (114 m³/d)	~500	AMS 2.0/3.0	BMS 2.0/3.0	MyTEE® 2.0/3.0
4.0	40000 GPD (150 m³/d)	~600	AMS 4.0	BMS 4.0	MyTEE® 4.0
6.0	60000 GPD (225 m³/d)	~900	AMS 6.0	BMS 6.0	MyTEE® 6.0
8.0	80000 GPD (300 m³/d)	~1200	AMS 8.0	BMS 8.0	MyTEE® 8.0
12.0	120000 GPD (450 m³/d)	~1900	AMS 12.0	BMS 12.0	MyTEE® 12.0
16.0	160000 GPD (600 m³/d)	~2500	AMS 16.0	BMS 16.0	MyTEE® 16.0

For more options, multiple FAST® units can be used in parallel/series for additional flow or desired treatment levels.

MacroFITT wastewater treatment systems

Recommended MyTEE®, AMS and BMS Systems for optimal operation. Optional SciCHLOR System available for disinfection.

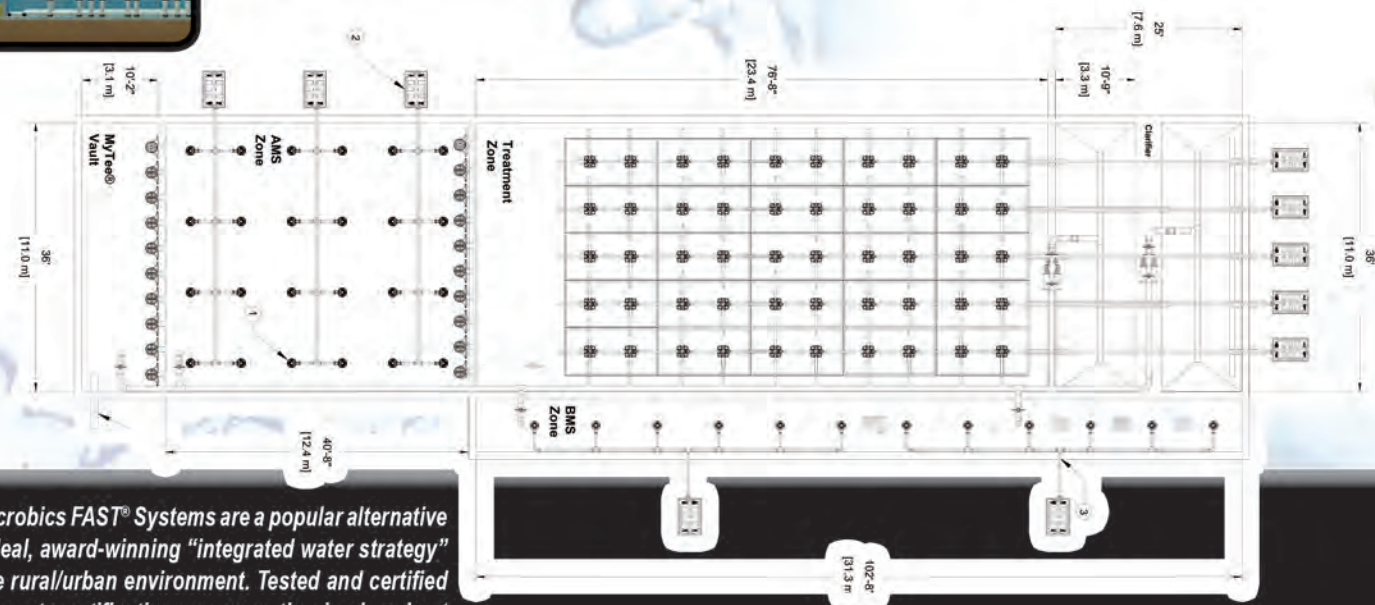


UNIT	MAXIMUM TREATMENT CAPACITY*		Aeration Management System Optional LIXOR® Package	BioSolids Management System Optional Manifold grid & LIXOR®
	Volume/Module**	~People per Module**		
20.0	200000 GPD (757 m³/d)	~3000	AMS 20.0	BMS 20.0
30.0	300000 GPD (1135 m³/d)	~4500	AMS 30.0	BMS 30.0
40.0	400000 GPD (1514 m³/d)	~6000	AMS 40.0	BMS 40.0
50.0	500000 GPD (1893 m³/d)	~7500	AMS 50.0	BMS 50.0
60.0	600000 GPD (2271 m³/d)	~9000	AMS 60.0	BMS 60.0
70.0	700000 GPD (2650 m³/d)	~10501	AMS 70.0	BMS 70.0
XL 80.0	800000 GPD (3028 m³/d)	~12000	AMS 80.0	BMS 80.0
XL 90.0	900000 GPD (3407 m³/d)	~13500	AMS 90.0	BMS 90.0
XL 100.0	1000000 GPD (3785 m³/d)	~15000	AMS 100.0	BMS 100.0
XL 120.0	1200000 GPD (4542 m³/d)	~18000	AMS 120.0	BMS 120.0
XL 140.0	1400000 GPD (5300 m³/d)	~21000	AMS 140.0	BMS 140.0
XL 160.0	1600000 GPD (6057 m³/d)	~24000	AMS 160.0	BMS 160.0
XL 180.0	1800000 GPD (6814 m³/d)	~27000	AMS 180.0	BMS 180.0
XL 200.0	2000000 GPD (7570 m³/d)	~30000	AMS 200.0	BMS 200.0

*Treatment capacity: As a "guideline" for suggested use, the individual FAST® module capacities are rated based on biological oxygen demand (BOD), hydraulic and other project-specific considerations. Actual capacity may vary with local conditions and performance goals.

**Volume/People per module: Please note, only residential domestic strength applications may be designed as total number of people per module. Actual capacity may vary with local requirements, conditions and performance goals.

Electrical Options: Electrical components are available to meet all worldwide electrical specifications (volt/phase/frequency). See product drawing(s) for options and more information.



BioMicrobics FAST® Systems are a popular alternative and ideal, award-winning "integrated water strategy" for the rural/urban environment. Tested and certified by 3rd-party certification programs, the simple, robust design allows long-term operational performance with easy and low-cost maintenance.