



BIO **MICROBICS**[®]

MyFAST[®] wastewater treatment systems

MacroFITT[®] wastewater treatment systems



Reliable performance



Modular design



Hands-off operation



SMALL MUNICIPAL • COMMERCIAL • COMMUNITY



SIMPLE • LOW COST • ROBUST

MyFAST wastewater treatment systems

MacroFITT wastewater treatment systems

The BioMicrobics MyFAST® and MacroFITT® systems use the robust FAST® process to treat wastewater from small communities and municipalities. The systems merge the needs of a larger scale treatment plant with the BioMicrobics approach to decentralized wastewater applications. Operational simplicity, reliable performance, and long working life make MyFAST® and MacroFITT® the top choice for communities looking to upgrade their wastewater systems.

MyFAST® and MacroFITT® form a complete treatment system by combining the submerged, attached growth FAST® process with innovative BioMicrobics

components - SaniTEE® screening devices and LIXOR® aerators. The submerged treatment modules fit together with interlocking hardware to form one large biological system.

Advantages of the system:

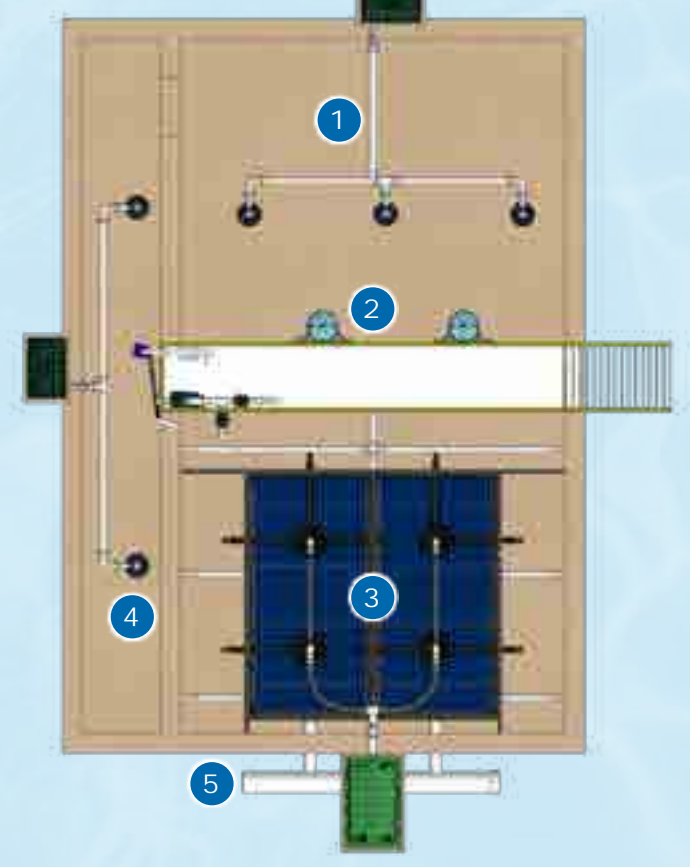
- **No full time operator needed**
- **All submerged components are permanent**
- **No moving parts under water**
- **Achieves secondary effluent standards and nutrient reduction**

MyFAST® and MacroFITT® can be configured with additional unit processes such as the NitrifAST®, ABC®-N, and ABC®-P to achieve Total Nitrogen and Total Phosphorus reduction. The treatment applications include domestic, commercial, and even some industrial wastewater sources.

HOW IT WORKS!

- 1 Settling/AMS Zone:** The first tank compartment can be used as a primary clarifier or as a roughing aerobic treatment stage when using the optional Aeration Management System (AMS).
- 2 Screening:** Wastewater passes from the primary compartment to the treatment zone through SaniTEE® effluent screens. The optional MyTEE® provides coarse screens upstream of the primary tank for trash and grit removal.
- 3 MyFAST®/MacroFITT® modules:** Wastewater is treated by the attached growth modules in the treatment zone. Oxygen is delivered to the modules by above-grade blowers.
- 4 Biosolids collection/BMS Zone:** Settled biosolids in the treatment zone are transferred to either the primary tank or to the optional sludge digester when using the optional Biosolids Management System (BMS).
- 5 Discharge:** Treated water leaves the system by gravity.

MyFAST® 2.0



MyFAST® Consult factory for more information

MODEL	MAX HYDRAULIC LOADING GPD	m³/d	MAX ORGANIC LOADING Population Equivalent	
1.0	10 000	38	25 PPD	147 people
2.0	20 000	76	50 PPD	294 people
3.0	30 000	114	75 PPD	441 people
4.0	40 000	152	100 PPD	588 people
6.0	60 000	227	150 PPD	882 people
8.0	80 000	303	200 PPD	1176 people
12.0	120 000	455	300 PPD	1764 people
16.0	160 000	606	400 PPD	2352 people

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

MacroFITT® Consult factory for more information

MODEL	MAX HYDRAULIC LOADING GPD	m³/d	MAX ORGANIC LOADING Population Equivalent
20	200 000	760	3000 people
30	300 000	1140	4500 people
40	400 000	1500	6000 people
50	500 000	1900	7500 people
60	600 000	2300	9000 people
70	700 000	2650	10300 people

MacroFITT® XL MODELS

MODEL	MAX HYDRAULIC LOADING MGD	m³/d	MAX ORGANIC LOADING Population Equivalent
XL 80	0.8	3030	12000 people
XL 90	0.9	3400	13500 people
XL 100	1.0	3800	15000 people
XL 120	1.2	4550	18000 people
XL 140	1.4	5300	20600 people
XL 160	1.6	6050	24000 people
XL 180	1.8	6800	27000 people
XL 200	2.0	7570	30000 people

Electrical Options: Electrical components are available to meet all worldwide electrical specifications (volt/phase/frequency).





Established in 1996 to focus on water, BioMicrobics – and subsidiaries SeptiTech and Scienco/FAST – is at the forefront of sustainable design, with almost 90,000 systems in over 90 countries. Our systems meet the highest performance standards for treatment of water,

graywater, wastewater, and stormwater. BioMicrobics produces innovative systems dealing with wastewater treatment in decentralized settings. Our products are engineered to be simple, low-cost, and robust.

RetroFAST[®] wastewater treatment systems

Ideal for upgrading existing septic tanks or renovating a drain field. For more information, see our “S.O.S. – Save Our Septic[®]” warranty program.

MicroFAST[®] wastewater treatment systems

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

NitriFAST[®] wastewater treatment systems

For use as a second-stage treatment in series after a MicroFAST[®] system to provide additional nitrification, achieving even higher levels of nitrogen reduction than the MicroFAST[®] alone.

HighStrengthFAST[®] wastewater treatment systems

Meets the challenges of high-strength wastewater, providing treatment for higher BOD and TSS concentrations and higher influent FOG (grease) levels to achieve high quality effluent.

MyFAST[®] wastewater treatment systems

Ideal for small communities or larger commercial properties, this system maintains consistently high performance with minimal maintenance.



MyFAST[®] 12.0



MyFAST[®] 8.0

BIO MICROBICS

BETTER WATER. BETTER WORLD.[®]

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