GENERAL INFORMATION

All FAST® products are ETL certified for safety (electrical, environmental, etc.). One or more of the following products protects facades, structures, exterior, 3,480,000; 3,486,600; 3,772,930; 5,168,742. Certified by NSF International, the MicroFAST® 0.5, 0.25, 0.75, 0.9, 1.5 systems meets NSF Standard 40; Class 1, Standard 246 certifications for wastewater treatment devices. If you have questions regarding any BioMicroics products, please contact us:

1-800-753-FAST (3278) or +1 (913) 422-0707

e-mail: onsite@biomicroics.com

About FAST®: The FAST® Fixed Activated Sludge Treatment System uses naturally occurring bacteria (microbes) to treat sewage for disposal into the environment. This continuous process provides the biomass with waste (food) and air in a suitable environment. Good bacteria and non-biodegradable waste settle and accumulate in the bottom of the tank for periodic removal.

The FAST® process consists of the treatment module and blower. The blower provides air to the system via the air supply pipe. The air supply pipe and draft tube create an air lift. The air mixes oxygen with waste throughout the media inside the tank. Bacteria grow on the media and digest the waste. A waste pump expels harmless vapors created by the process.

DON’T’S & DON’TS

- What can I put down the drain?

Please refer to the list below for important information on how to keep your treatment system performing as it should.

- Avoid dumping harmful or damaging substances into the FAST® system or any of the related systems.

Do not put these items down the drain:

- ANIMAL BONES
- COFFEE GROUNDS
- CORN COBS
- DRY WOOD
- FRUIT PEELING
- HUNGER FEED
- KITCHEN WASTE

LAUNDRY

- Spread waste load through the week. Instead of filling hot water, dryer sheets should be used.
- Use low-sodium, biodegradable and low-phosphate detergents, like Mighty Monk from Scientific Earth, www.scientificearth.com

LEAKY FIXTURES

- Local authorities may require your wastewater system when you leave your home. Therefore, the problem must be addressed in your community or local regulatory authority. However, these changes could possibly damage other parts of the septic system.

WATER SOFTENERS

The FAST® process may leach discharge to prevent property owners knowing that these are needed based on water usage (see the timeframe noted in the user guide). If water softener is not needed or uses an excess of water, it is not recommended to use water softener. Water softener should not be introduced to the soil in the area. If these changes are necessary for the treatment system, they are contrary to the system.

FOOD WASTES

- Gas-filled waste should be elevated away from your system, particularly in cold climates. This will ensure that the gas released will not enter the system and cause problems.

FATS, OILS & GREASES

- Do not flush non-hazardous materials down the drain. Under no circumstances should this not enter the FAST® systems.

DISINFECTANTS/CLEANERS

- Use a dedicated commercial drain cleaner according to the manufacturer’s recommendations. Products containing abrasive compounds or non-chlorinated cleaners should not be used. Use clean drainers as a last resort to avoid plugging.

GARAGE & WORKROOM

- Do not leave waste away from your system, particularly in cold climates. This will ensure that the gas released will not enter the system and cause problems.

SEPTIC TANK ADDITIVES/ENZYMES

- The septic tank system is designed to handle specific waste products. Consulting with commercial additives is not necessary. If the additive is not compatible with your system, it may cause problems.

PAPER PRODUCTS

- Use only as directed on the package. In addition, these products may cause problems. If you are unsure about a product, consult your local authority.

TANK PUMPING PROCEDURE

- This is a special procedure that should only be performed by a qualified professional. Contact your local authority for more information.

- The bottom of the tank must be removed to ensure proper drainage of solids and to prevent odors from being released.

- Only qualified personnel should perform this procedure. Failure to do so could result in serious injuries or death.

- Take care of the tank to ensure proper drainage of solids and to prevent odors from being released.

- Plan to do this procedure as soon as possible, if the tank is not emptied.
SEASONAL/INTERMITTENT USE PROPERTIES

The FAST® System will function normally even if there is no wastewater flowing during short periods of vacation. Examples of intermittent use and suggested operational procedures:

- Summer use property (shut down all winter) - blower should be turned off at end of summer and restarted at least a week before returning. Please contact your local service provider to restore the system and check with local regulations.
- Weekend property (used at least once every three weekends) - maintain normal operation and adjust FAST’s SPPR level timer features on control panel.

Important: Consult your service provider and local regulations prior to any system changes.

BLOWER REPLACEMENT

When replacing a blower follow the steps below. If relocating the blower use the electrical supply cord from the control panel to the new blower location. Air piping from the blower to the FAST® unit may need to exceed 100 ft (30.5m) in total length and must be 4 in. The total electrical supply should not exceed 150 ft (45 m).

- Turn all Power Off.
- Examine wiring directions inside the installed FAST® control panel (also found at the end of this manual).
- A dedicated breaker is required in the building’s main electrical panel. Make connections between the master panel and FAST® control panel.
- Establish connections between the blower and FAST® control panel for the electrical wiring.
- For systems requiring the Liquid Level Switch - connect the switch to the control panel terminals labeled “FL SWITCH” or “HP Pressure.” The newest AMI control panel can use current sensor used to replace this switch.

CERTIFICATIONS

MicroFAST® 0.5, 0.625, 0.75, 0.9, and 1.5 systems are tested and certified to NSF/ANSI Standards 40 (Class I) and 245 (Class II).

ELECTRICAL WIRING DIAGRAMS

The only MicroFAST® 0.5, 0.625, 0.75, and 0.9 system diagrams are displayed here. Information for larger FAST® systems accompanies those units and can be obtained from Biofilmics.

AMI 110/220 PANEL

LIMITED WARRANTY

Biofilmics, Inc. warrants every new material FAST® system against defects in material and workmanship for a period of two years after installation or three years from date of shipment, subject to the following terms and conditions:

- Warranty coverage is for replacement parts, labor to replace defective parts, and any necessary adjustments to the FAST® system, but not the FAST® system itself.
- Warranty coverage does not apply to labor charges, customer supplied parts, or parts that are subject to normal wear and tear.
- Warranty coverage is void if any of the following conditions are not met:
  - System is used in accordance with the manufacturer’s instructions.
  - System is properly maintained and maintained in accordance with the manufacturer’s instructions.
  - System is not altered, modified, or tampered with.

This warranty applies only to the original purchaser and shall not apply to any other person or entity. All claims under this warranty must be made in writing to the manufacturer within the applicable warranty period. This warranty does not include any incidental or consequential damages.

Contact your local distributor for parts and services.