

# SYBR-AER<sup>®</sup>

ONSITE MADE EASY

97"

84"

96"

## FT SERIES TREATMENT SYSTEMS

- Patented Advanced SBR Technology
- Up to 800 Gallon Per Day Capacity
- Pre-assembled & Pre-wired
- Treatment & UV Disinfection In A Single Compact Tank
- Pump Discharge Eliminates Need For Lift Stations
- Pre-programmed Controls With Battery Back-up
- Ships With 100' of 12 Conductor Direct Burial Wire
- Robust Design Requires Minimal Ongoing Maintenance
- Suitable For Residential Or Commercial Applications
- Built-in Uplift Restraint
- Quick Disconnects On All Internal Components

[www.sbrwww.com](http://www.sbrwww.com)

A Subsidiary Of Consolidated Treatment Systems, Inc.



Certified to ANSIS/NSF Standard 40  
Class 1

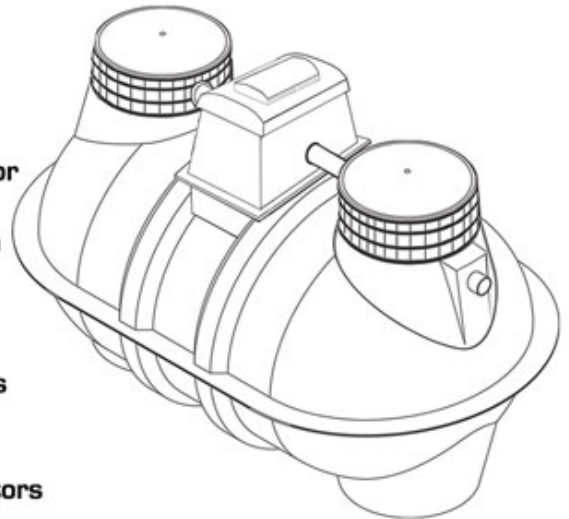
# It's All About Time & Performance

## A COMPLETE TREATMENT SYSTEM IN A SINGLE COMPACT EXCAVATION



SBR Wastewater Technologies, Inc. is proud to present the FT SERIES SYBR-AER advanced wastewater treatment system.

Designed with both the installer and service provider in mind, the FT-SERIES provides a cost effective and time saving solution for residential, commercial, and high strength waste applications. Best of all, the design is based upon robust Sequential Batch Reactor (SBR) technology. The FT-Series can be purchased with or without UV disinfection which allows the treatment process and disinfection to occur in a single compact tank. The system ships pre-assembled and is pre-wired ready for installation saving valuable time onsite.



To ensure proper performance, the FT-SERIES package also includes a pre-programmed control panel featuring an internal logic module with battery backup in case of power outages. All components have been designed to be easily serviced and utilize quick-release connectors for any part that requires removal for inspection or maintenance. The FT-SERIES is an ANSI/NSF Standard 40 approved system.



MULTIPLE INLET OPTIONS  
ELIMINATE NEED FOR  
ADDITIONAL RISERS



PRE-PROGRAMMED CONTROL  
WITH BATTERY BACKUP,  
EVENT COUNTERS &  
FLOAT MONITORING



SYSTEM SHIPS  
PRE-ASSEMBLED & PRE-WIRED



OPTIONAL INTERNAL  
UV DISINFECTION SYSTEM  
(OPERATES 4 HOURS DAILY  
TO MAXIMIZE BULB LIFE)

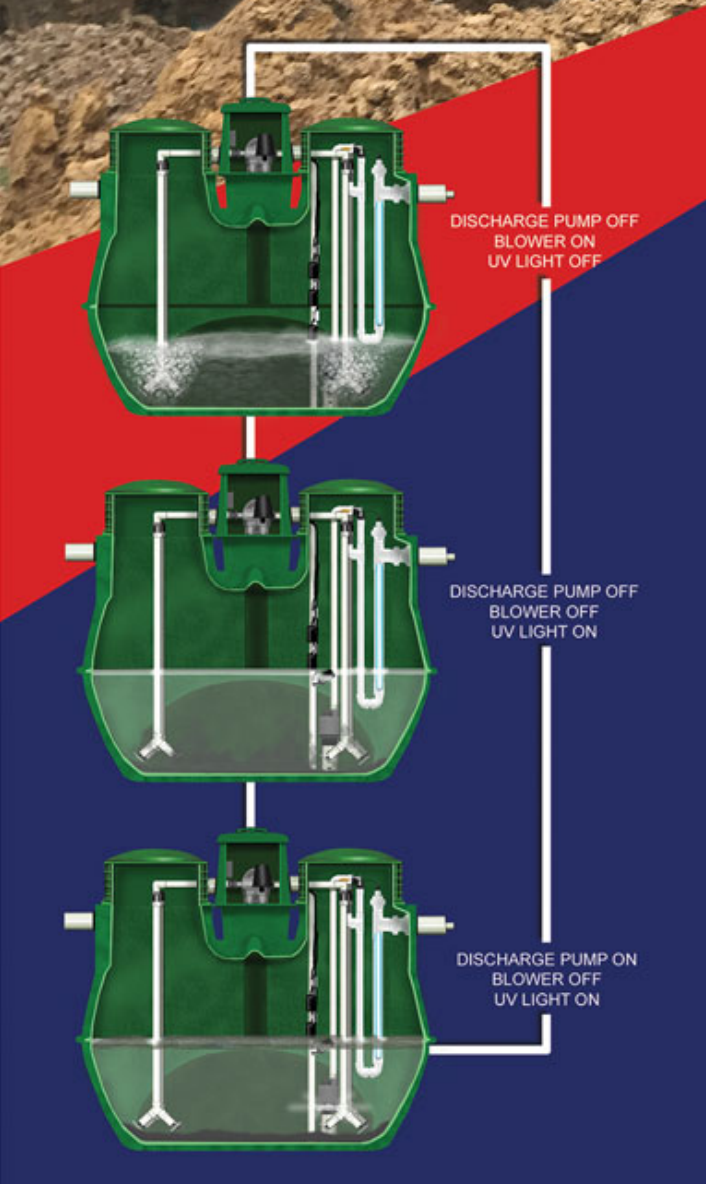
### PERFORMANCE: ANSI/NSF Standard 40 Testing

- Average Influent CBOD<sub>5</sub>: 200 mg/L
- Average Effluent CBOD<sub>5</sub>: 6 mg/L (97% Reduction)
- Average Influent TSS: 227 mg/L
- Average Effluent TSS: 8 mg/L (96.5% Reduction)
- \* Average Influent Total Nitrogen: 49.42 mg/L
- \* Average Effluent Total Nitrogen: 14.67 mg/L (70.31% Reduction)

\* Note: Nitrogen study performed as a supplement to AANSI/NSF Standard 40 Testing. Samples were taken from 6/12/98 - 9/18/98. Technology report available upon request.



Certified to ANSI/NSF Standard 40  
Class 1



**AERATION CYCLE:**

**DURATION: 20 HOURS**  
**TIME: 4:00 a.m. - 12:00 a.m.**

**DESCRIPTION:** Aerobic treatment occurs during the aeration cycle. The process converts organic waste to carbon dioxide and water, nitrogenous waste to oxidized nitrogen forms, and inactivates pathogens. The aeration cycle is programmed to occur during times of typical household wastewater flows.

**SETTLING CYCLE:**

**DURATION: 3 HOURS**  
**TIME: 12:00 a.m. - 3:00 a.m.**

**DESCRIPTION:** Sludge held in suspension during aeration is allowed to settle to the bottom of the tank. The tank has been specifically designed to return sludge directly below the engineered diffusers to maximize mixing when the aeration cycle begins after decant. This settling cycle maximizes the retention of bacteria in the system which are then available for processing wastes in the next aeration cycle. During this time aerobic bacteria consume dissolved molecular oxygen until the only remaining oxygen is in compound form. Under these anoxic growth conditions, bacteria convert oxidized nitrogen forms to harmless nitrogen gas, resulting in low nitrogen concentration in the treated effluent.

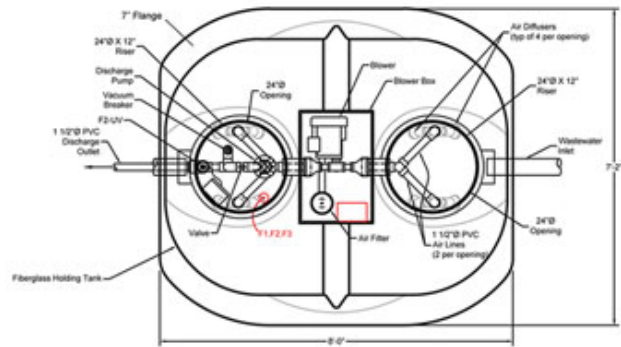
**DECANT CYCLE:**

**DURATION: 1 HOUR**  
**TIME: 3:00 a.m. - 4:00 a.m.**

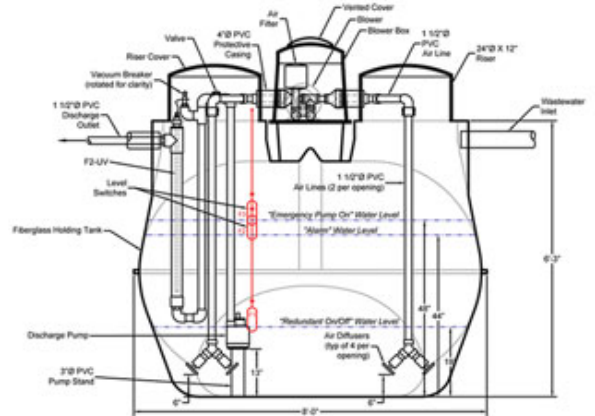
**DESCRIPTION:** Treated wastewater is pumped from the system to the final discharge point. The discharge pump is positioned in the clarified zone that develops once the settling cycle is complete. If additional disinfection is required, the system will also accommodate our proprietary internal ultraviolet light disinfection system.

# FT-1400

SYBR-AER FT-1400 SERIES	
MATERIALS	FIBERGLASS
TOTAL CAPACITY	1410 GAL
LENGTH	96 INCHES
WIDTH	86 INCHES
TOTAL HEIGHT	97 INCHES
MAN WAYS	(2) 24 INCH DIA
COMPARTMENTS	ONE
INLET INVERT	57-70 INCHES
OUTLET INVERT	67.5 INCHES
MAXIMUM COVER	24 INCHES
MAXIMUM PIPE DIAMETER	4 INCHES
WEIGHT	600 LBS
DISPLACED WEIGHT (Assuming Saturated Conditions)	8706 LBS
BUOYANCY FORCE	8106 LBS



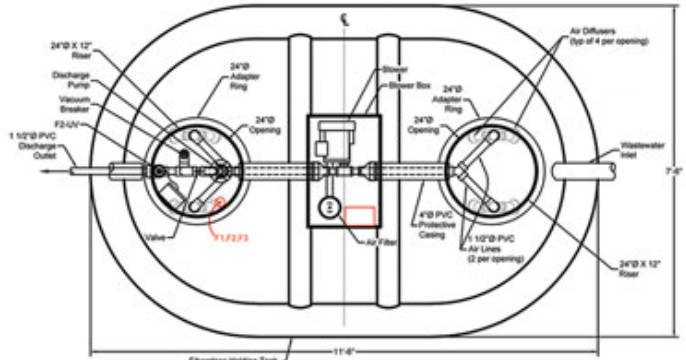
**PLAN**



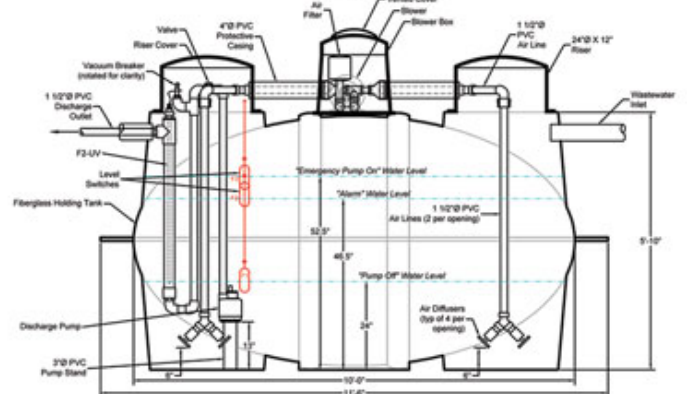
**ELEVATION**

# FT-1800

SYBR-AER FT-1800 SERIES	
MATERIALS	FIBERGLASS
TOTAL CAPACITY	1800 GAL
LENGTH	138 INCHES
WIDTH	90 INCHES
TOTAL HEIGHT	90 INCHES
MAN WAYS	(2) 24 INCH DIA
COMPARTMENTS	ONE
INLET INVERT	65 INCHES
OUTLET INVERT	65 INCHES
MAXIMUM COVER	24 INCHES
MAXIMUM PIPE DIAMETER	4 INCHES
WEIGHT	900 LBS
DISPLACED WEIGHT (Assuming Saturated Conditions)	14989 LBS
BUOYANCY FORCE	14089 LBS



**PLAN**



**ELEVATION**