• ANSI/NSF Standard 40
  Approved Systems Factory Direct
  Regardless Of Brand Affiliation

• Patent Pending Advanced SBR Technology

• Simple, Scalable Design Works Great
  For Residential, Commercial &
  High Strength Applications

• Installs In Locally Purchased,
  Standard Single Compartment Tank

• No Hidden Dealer/Distributor Mark-Up

• Factory Direct Training & Certification

• Quick Disconnects On All Internal
  Components For Easy Access

• Robust Design Requires Minimal
  Ongoing Maintenance

www.sbrww.com
A COMPLETE TREATMENT SYSTEM IN A SINGLE EXCAVATION

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

Designed with both the installer and service provider in mind, the SYBR-AER provides a cost effective solution for residential, commercial, and high strength waste applications. Best of all, the design is based upon robust Sequential Batch Reactor (SBR) technology which allows the entire treatment process to occur in a single, locally secured tank. The system components ship pre-assembled, factory direct, ready for installation.

To ensure proper performance, the SYBR-AER 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 serviceable and utilize quick-release connectors for any part that requires removal for inspection or service. The SYBR-AER is an ANSI/NSF Standard 40 approved system and is available in 500, 600, 800, 1000, and 1500 GPD systems. We also offer engineered solutions for applications over 1500 GPD.

PERFORMANCE: ANSI/NSF Standard 40 Testing

- Average Influent CBOD$_5$: 200 mg/L
- Average Effluent CBOD$_5$: 6 mg/L (97% Reduction)
- Average Influent TSS: 227 mg/L
- Average Effluent TSS: 8 mg/L (97.5% 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 ANSI/NSF Standard 40 Testing. Samples were taken from 6/12/98 - 9/18/98. Technology report available upon request.
TREATMENT AS EASY AS 1, 2, 3!

1) AERATION CYCLE
   • Discharge Pump Off / Blower On
   • Duration: 20 Hours (4:00 a.m. - 12:00 a.m.)
   • Description: Aerobic digestion occurs during the aeration cycle. Air from the diffusers continuously mixes the wastewater keeping solids in suspension. The process promotes the growth of aerobic bacteria that oxidize waste.

2) SETTLING CYCLE
   • Discharge Pump Off / Blower Off
   • Duration: 3 Hours (12:00 a.m. - 3:00 a.m.)
   • Description: Suspended solids/sludge settles to the bottom of the tank and floating debris floats to the top during this process. During this period dissolved oxygen decreases promoting anaerobic conditions that convert harmful Nitrate to Nitrogen gas. The settling cycle is programmed to occur when the system receives the lowest inflow of wastewater.

3) DECAN CYCLE
   • Discharge Pump On / Blower Off
   • Duration: 1 Hour (3:00 a.m. - 4:00 a.m.)
   • Description: Treated wastewater is pumped from the system during the decant cycle. The discharge pump is specifically positioned inside the tank to discharge effluent from the clarified zone developed during the settling cycle.
500 GPD System
- SYBR-AER Kit
- 1500 Gallon Locally Secured Tank
- (1) 20 AMP, 120 Volt Dedicated Circuit

600 GPD System
- SYBR-AER Kit
- 1800 Gallon Locally Secured Tank
- (1) 20 Amp, 120 Volt Dedicated Circuit

800 GPD System
- SYBR-AER Kit
- 2400 Gallon Locally Secured Tank
- (1) 20 AMP, 120 Volt Dedicated Circuit

1000 GPD System
- SYBR-AER Kit
- 3000 Gallon Locally Secured Tank
- (1) 30 Amp, 240 Volt Dedicated Circuit

1500 GPD System
- SYBR-AER Kit
- 4500 Gallon Locally Secured Tank
- (1) 30 AMP, 240 Volt Dedicated Circuit

SYBR-AER Kits Contain All Materials Required For Installation Including:
- Pumps & Internal Piping
- Blower & Filter Assembly
- Housings & Assembled Manifolds
- Pre-programmed Control
- Control Floats
- Multi-conductor Wire, Junction Boxes & Silicone Wire Nuts
- Airlines & Diffusers
  With Quick Disconnects

For More Information:
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