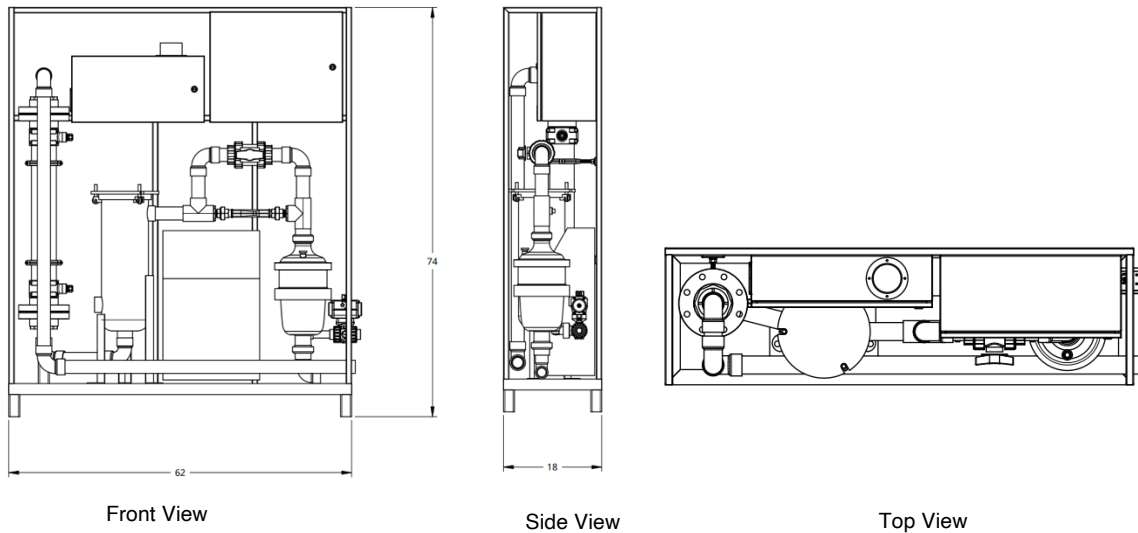


ShockWater CarWash Systems ShockWater Mini ReGen System



ShockWater Mini ReGen System Description

The ShockWater Mini ReGen System features our patent-pending Advanced Oxidation Process (AOP) technology, initially developed for treating oil field water and now uniquely adapted for car wash water treatment. This high-performance AOP technology efficiently converts organic compounds, including surfactants, waxes, and microbial matter, into carbon dioxide and water, ensuring superior water quality for your car wash.

The Mini ReGen System employs robust electronics to guarantee high reliability, ease of operation, and user-friendly controls. Additionally, the AOP stages achieve high microbial mortality, effectively eliminating malodors.

Its advanced AOP technology ensures the near-complete removal of applied chemicals, **making the regenerated water ideal for high-pressure sprayers and rinse bars.**

How It Works

1. Collection and Initial Treatment: Contaminated wash water is collected post-vehicle washing and directed to underground separators/storage tanks.
2. Regeneration Process: The water undergoes a series of stages designed to remove total solids, including suspended (high and low density) and dissolved solids:
 - Suspended Solids – High-Density: 95% removal of $>5 \mu\text{m}$ particulates through a cyclonic separator and gravity separation techniques.

- Suspended Solids – Low-Density: secondary-filter removes >5 µm particulates, preventing nozzle clogging and process issues.
- Dissolved Solids: Reduced by chemical oxidation and free chlorine generation via our proprietary ShockTube technology and ozone application.

The regeneration process continuously treats the water in both above-ground reservoirs and underground tanks, ensuring ongoing AOP reactions and optimal water quality. This includes the oxidation of volatile organic compounds, dye destruction, antimicrobial treatment, and odor control.

Performance Data

- Capacity: Treats up to 50 GPM
- Primary Filtration: Hydrocyclone removes dirt particles down to 5 µm.
- Secondary Filtration: 5 µm bag filter removes low-density particulates and residual sludge post-oxidation.
- Ozone Safety: Ozone generation piping and injection are monitored by an ozone safety sensor, with automatic shutdown if ozone is detected. All tubing is high-quality stainless steel with emission-free connectors for a safe operator environment.

Specifications

- Construction: Skid and frame are made of 304 stainless steel.
- Dimensions: H: 74" W: 62" D: 18"
- Weight: 475 lbs (shipping weight 625 lbs)
- Input Power: 280/480/60 VAC/Hz, 3-phase @ 8 amp max, 15 amp disconnect
- Control Power: 115 VAC, 15 amp max
- Controls: Switch selectable Off/On with Emergency Stop, 7" graphic HMI display with operational status
- Flow Meter: Volume totalizer included
- Primary Pump: 3 HP high solids submersible pump, 50 GPM
- Filtration: 5 µm cyclonic filter with automatic purge, 5 µm bag filter

MSRP \$70,000

Plus Installation and Commissioning