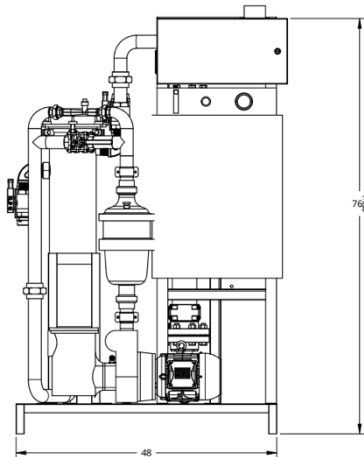
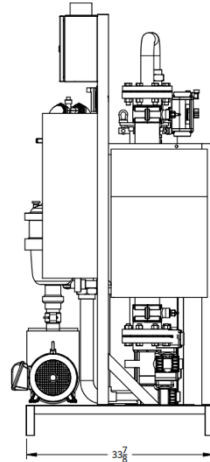


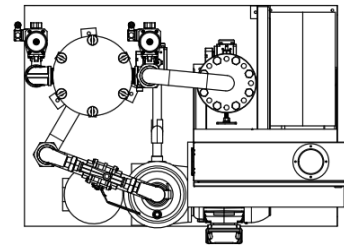
ShockWater CarWash Systems **SWCWS ReGen V With Intelligent Reporting**



Front View



Side View



Top View

ReGen V Description

The SWCWS ReGen V uses our patent pending (US and International) high performance Advanced Oxidation Process (AOP) technology, derived from treating oil field water. The AOP in the ReGen V system is uniquely applied for the car wash water treatment market. Our AOP technology converts organic compounds such as surfactants, waxes, and even microbial matter into products of combustion: Carbon Dioxide and water.

Integrated into the ReGen V system is intelligent performance feedback, reporting its operational status and performance metrics via email and internet dashboards. This information is used to ensure the operator is obtaining the maximum performance in re-generating the wash water.

Additionally, new and improved operator interface simplifies the machine operation, while improving its uptime processing to minimize freshwater usage.

How It Works

To begin: contaminated wash water is collected post vehicle washing. From there the ReGeneration process begins in the underground separators / storage tanks and concludes in the above ground produced water storage tanks. This process consists of a series of stages to simultaneously remove Total Solids: suspended - high and low density, and dissolved solids.

Solids are made up of particulates that range in density from lighter than to heavier than water. This requires different techniques to remove.

Suspended Solids – High-Density: 95% removal of >5 micron particulate through the cyclonic separator and other gravity separation techniques.

Suspended Solids - Low-Density: The Pre-Filter removes >25 micron particulate. These solids tend to clog nozzles and other process related issues.

Dissolved solids: are removed by chemical oxidation through the combined application of our proprietary E-Cell technology and Ozone.

Water is ReGenerated throughout the entire water eco-system 24/7: the majority of ReGenerated water is passed to the Produced Water Storage Tanks for residual treatment prior to re-use. A portion is sent to the underground storage tanks to initiate the oxidation of volatile organic compounds, dye destruction and anti-microbial treatment and odor control.

Final Conditioning

Final Conditioning: is a proprietary clarification process where any remaining or coagulated particulate is removed. This leaves a clean, clear water with no odor held in the above ground Produced Water Storage Tanks.

Performance Data

- Treats up to 110 gpm
- 85 gpm is supplied to the Produced Water Storage Tanks for all washing operations. This produced water can be automatically increased to 110 gpm during periods of high demand.
- 25 gpm of filtered, AOP Water is feed to the underground storage tanks. This underground flow is automatically diverted to the Produced Water Reservoir under high demand, ensuring sufficient water supply during these times.
- The Ozone Generation piping and Injection is monitored with an ozone safety sensor and will automatically shut down if ozone is detected in the environment. All ozone tubing is with highest quality stainless steel tubing and emission free connectors ensuring the safest operator environment.
- The Integrated Distribution Pump delivers 80 gpm @ 40 psi to all wash equipment from the Produced Water Storage Tanks.

Specifications

Skid and Frame are 304 stainless steel.

- * H: 76 1/2" W: 48" D: 34" weight 475lb (shipping weight 625 lb.)
- * Input power: 480/60 VAC/Hz, 3 phase @ 16 amp max., 30 Amp Disconnect
- * Control Power: 115 vac, 15 amp max
- * On/Off Control: Switch selectable Off/On with Emergency Stop.
- * HMI 7" Graphic Display with Operational Status Display
- * Flow meter with volume totalizer
- * Internet cellular connection
- * Primary Pump: 5 HP pump, 110 GPM
- * Distribution Pump: 5 HP pump, 90 GPM @ 50 psi VFD Driven
- * Inlet Filtration: Cleanable Basket Strainer
- * 5 Micron Cyclonic Filter – with Automatic Purge
- * 25 Micron Pre Filter – with Automatic Backwash