

The Oxylox System

THE FILTER SOLUTION FOR PROBLEM WATER

GUARANTEED REMOVAL OF IRON AND HYDROGEN SULFIDE*

What our system does:

Two common problems found in well water are iron and sulfur. Iron can discolor the water, spot laundry, and stain plumbing fixtures. In addition, the growth of iron-related bacteria can result in abnormal taste and odor and contributes to biofouling in plumbing systems.

Hydrogen sulfide is characterized by a rotten-egg odor and metallic taste. It can also promote corrosion in plumbing systems.

The system includes the Evolve control valve and timer which is electronically metered and includes the patented IQ technology which provides information such as leaks in the home and allows the programming to be customized for each water problem. The valve includes only one moving part for easy maintenance. The filter tank also includes the Vortech plate for even better, deeper cleaning and results in longer life of the proprietary media.

These systems were previously tested and certified by the Water Quality Association against the S-200 Standard for iron and sulfur removal and specific performance claims as verified and substantiated by test data using a different control valve.



HYDROGEN PEROXIDE WATER TREATMENT SYSTEM

Hydrogen peroxide (H_2O_2) is a naturally occurring liquid substance that looks like water, yet is one of the most **powerful** oxidizers available. Despite its power, it is **economical, safe and versatile** to use and decomposes into water and oxygen. For example, it can treat easy-to-oxidize elements such as iron and sulfur and/or retard growth of iron-related or sulfate-reducing bacteria depending on the need. It will provide iron- and sulfur-free water naturally, without using harmful chemicals. *A separate certificate of guarantee is issued for one year to the owner upon completion of installation and is based on water testing performed by our company or testing lab.

Contact Water Specialties Group, Inc. for other applications available, using the Oxylox system.

The following table lists the most commonly used Evolve hydrogen peroxide filtration systems. We can also custom design systems for specific applications using tailored, interchangeable modules.

| Model # | Peak Service Flow Rate (GPM) | Pressure Drop (PSI) at Flow Rate | Tank Size | Iron Capacity ² | Hydrogen Sulfide (H ₂ S) Capacity ² | Comments |
|-------------|------------------------------|----------------------------------|-------------------------------|----------------------------|---|-----------------------------------|
| Oxylox GSV1 | 4.0 | 3 | 10X54" 1.5 ft ³ | 5 mg/L | 5.8 mg/L | Tested using 7% strength peroxide |
| Oxylox GSV2 | 6.8 | 3 | 13X54" 2.5 ft ³ | 5 mg/L | 5.8 mg/L | Tested using 7% strength peroxide |

¹Previously tested to the S-200 WQA Gold Seal Standard for iron and sulfur tested, independently ran for 750 gallons between backwash cycles for the GSV1 and 1250 gallons for the GSV2 model for three consecutive runs

²These are the recommended maximum capacities for a typical application. Overall water chemistry and peak water usage per day will determine actual capacity. The values listed above were used in the S-200 testing. Other configurations are available for different levels, flow rates, and constituents.

³Do not use water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system. Min/Max operating parameters: Temperature: 35 - 110° F, Pressure: 20 – 100 PSI

⁴Please refer to the installation/operation manual for additional information regarding specific warranties on the equipment and installation and maintenance requirements. A different control valve was used in the testing

How our system works:

1. Stenner injection pump:



The peristaltic chemical feeder insures continual peroxide feed, as needed, with NO loss of prime from the oxygen that can occur with other feeders. It is also fully adaptable for any application.

2. Magnum Accelerator:



The in-line mixer is where the peroxide is injected and insures complete reactions with the water. In most cases, this eliminates the need for bulky, expensive contact tanks other systems might require.

3. Backwashing filter:

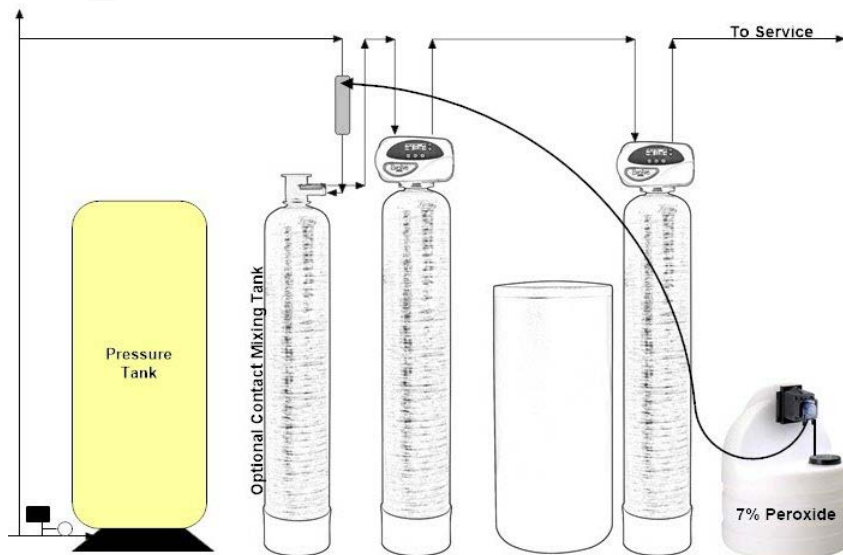


The proprietary filter contains media inside developed by WSG, Inc. to provide many years of service, unmatched by anything else, even in the most difficult water treatment problems.

4. Proportional flow meter controls:



Econ FP series pump has built-in controls that when combined with the Evolve filter, allows the peroxide to be injected proportional to the flow rate being used. Bottom line is much less peroxide needed.



An example of a typical peroxide filter system installation

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