

The Oxidizer System



The Oxidizer System reduces undesirable iron and sulfur (rotten egg odor) levels from water supplies without the use of harmful chemicals.

The **Oxidizer** operates on two basic principles. The first being oxidation which is a reaction between oxygen and dissolved minerals found in most ground water supplies. When the oxygen component of air is induced into water it reacts with iron, sulfur, and manganese to form particles, or oxides.

The second principle, filtration, uses granular media to filter out the precipitated oxides. As water passes through the system it is constantly being aerated and filtered. The filtered water, still rich in dissolved oxygen, leaves the system virtually free of iron and sulfur and appears slightly cloudy when initially dispensed. The excess oxygen is responsible for the temporary cloudy appearance. Within seconds after dispensing, the water will begin to clear from the bottom up as the oxygen is released. The result is clear, odor-free and iron-free water.

A water softener can be installed after the **Oxidizer** treatment system to remove calcium and magnesium hardness.

Specifications

MODEL	MAXIMUM SERVICE FLOW RATE	MAXIMUM BACKWASH FLOW RATE	TREATED WATER PER RECHARGE	PIPE SIZE	MAXIMUM IRON	MAXIMUM MANGANESE	MAXIMUM HYDROGEN SULFIDE	DIMENSIONS DIA. x HT.
	(gpm)	(gpm)	(gallons)	(inches)	(ppm)	(ppm)	(ppm)	(inches)
OX-10	5	5.3	1000	1	4	2.0	2	10 x 61
OX-12	6	7.5	1000	1	4	2.0	2	12 x 59
OX-13	7	9.0	1000	1	4	2.0	2	13 x 61

NOTE: Water pH must be 7.0 or higher for the Oxidizer to operate within specifications.

Features

- No Hazardous Chemicals Needed
- Extremely Easy to Sanitize
- No Floats or Air Volume Controls Needed
- Completely Adjustable Control Valve
- No Pumps or Compressors
- Reduced Pressure Loss With Single Tank System
- Three Different Tanks Sizes Available To Meet Your Flow Rate Requirements

Operational Conditions & Requirements

1. Raw water hardness will not be altered by this oxidizer. A water softener installed after this oxidizer system is recommended for removal of hardness.
2. Pressure loss not to exceed 15 psi with clean filter.
3. Recharge frequency is adjustable.
4. Pipe connection size on filter. Minimum pipe size required for proper operation—1”.
5. Tannin levels above 0.2 ppm interfere with Iron, Manganese, and Sulfide reduction. Chlorine feed required to remove tannins.
6. Sulfide odors caused by sulfate-reducing bacteria in the hot water heater will not be treated by this filter.
7. Raw water pH below 6.0 requires pre-treatment to elevate pH for satisfactory Manganese reduction.

