

CONTAMINANTS AND THE TRIPLE O SYSTEM

<p>Metals: iron and manganese, that stain household fixtures and laundry and impart an unpleasant taste and odor to water, can be removed through oxidation and filtration.</p>	<p>The Triple O System oxidizes these heavy metals, bringing them out of solution, and then filtering the oxidized particles.</p>
<p>Hydrogen sulfide, which is identified by its sulfurous or rotten egg odor, can be removed through oxidation and aeration.</p>	<p>The Triple O System rapidly oxidizes the sulfides in the water to sulfates, and keeps the water fresh through constant ozone aeration, thus eliminating this offensive gas with its rotten egg odor.</p>
<p>pH is the measurement of the acidity or alkalinity of the water. Somewhere between 6.5 and 8.5 is considered acceptable by the EPA.</p>	<p>The Triple O System will raise low (acidic) pH of the water when the cause is due to carbon dioxide gas in the water. Its constant aeration of the water removes CO₂ gasses.</p>
<p>Color, in the form of tannins, can be removed by ozonation, chlorination, reverse osmosis or activated carbon filtration. Chlorine is not advised due to its potential to create THMs. THMs are a carcinogenic byproduct of chlorine when in contact with organics in the water.</p>	<p>The Triple O System will oxidize and thus remove some tannins in the water. Many tannins are ozone resistant and will not readily be removed by this system.</p>
<p>Hardness, in the form of dissolved calcium and magnesium, can shorten the life of water heaters and does increase the amount of soaps and detergents used in normal cleaning tasks. Hardness can be removed through the use of a water softener that substitutes sodium or potassium for these dissolved minerals.</p>	<p>The Triple O System alters the molecular bonding capability of the hardness constituents so that the water acts softer (lowers the surface tension of the water) and keeps the hard water deposits from strongly bonding to surfaces. This is an additional benefit to the primary oxidation/filtration capabilities of the Triple O System.</p>
<p>Turbidity, in the form of dirt, silt or colloidal clay, can be removed by a sand or bag filter. Turbidity, caused by oxidized metals, is readily removed by this system.</p>	<p>The Triple O System does not work well on water that contains dirt, silt or colloidal clay. The ozone will expend its energy on these elements and therefore be diverted from its intended purpose.</p>
<p>Chlorides, Sulfates, Carbonates, Sodium and other dissolved solids can all be removed by reverse osmosis or ion exchange.</p>	<p>The Triple O System does not remove dissolved solids in this category.</p>
<p>E-Coli Bacteria, Fecal Bacteria, Cryptosporidium, etc. and other primary contaminants.</p>	<p>The Triple O System is not rated as a primary contaminant removal system. To safely remove these, please install a UV Disinfection light after the Triple O System.</p>

