

# **TYPICAL WELL WATER APPLICATION AND SIZING**

This unique ozone system solves common well water problems such as:

- **Iron** (Brown Stains)
- **Manganese** (Black/Grey Stains)
- **Bacteria** (Non-pathogenic)
- **Hydrogen Sulfide** (Rotten Eggs)
- **Low pH** (Acid Water)
- **Taste**
- **Odor**
- **Color**

**This system works with all types of atmospheric vented tanks** including above ground holding tanks, buried cisterns, and roof-top tanks and is compatible with all tank materials. When considering this technology for contaminant removal, it is important to know the volume of water used per day as well as the contaminant levels. Contaminant levels are best shown by a water analysis performed by an independent laboratory. Ozone readily oxidizes both iron and manganese, but will oxidize all the iron before attacking the manganese. This is a phenomenon that will affect the prescribed dosage and contact times and is another reason to have a thorough knowledge of the water that will be treated. Also, water with a high organic content, such as tannin, will adversely affect the ozone's ability to act on inorganic material, further affecting contact times.

**The maximum size holding tank for a single system is 10,000 gallons; multiple systems should be used for larger tanks.** The tank size is determined by the daily water usage and the contaminant levels. The system works on the concept of *gallons per day* and is independent of the *gallons per minute* flow rate. Generally the holding tank should be sized at 4 times the daily water usage. Higher water usage **could** result in less than perfect water because the ozone needs contact time with the water to do its job, plus the water must pass through the in-tank filter multiple times. In order to calculate *minimum* tank size, multiply the maximum daily water usage times 4, although we recommend the tank size be as large as can be comfortably accommodated. It is also best to choose tanks that are tall and narrow as opposed to short and wide, as a taller bubble column is more beneficial.

**The best buy tank size for a single home in the US is 2500 gallons** which allows the homeowner to use up to about 600 gallons per day for average contaminants (iron to ~ 10 ppm, or manganese to ~1 ppm, or hydrogen sulfide to ~25 ppm, etc.) In cases of severe contaminants and/or high water usage, other options include either the multiple tank system in series with a Triple O in each tank or a larger tank with multiple Triple O units. ***In either case, please contact Triple O for application information.***

Use this Worksheet for help in sizing a system: [System Sizing Worksheet](#)

