

# AIO + OZONE FILTRATION SYSTEM

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## ***Why Do I Need an AIO + Ozone Filtration System?***

It's not uncommon for well water to contain iron, manganese and hydrogen sulfide. None of these will make you sick and but they can have a negative impact on your life. Hydrogen sulfide gives off a sulphur or rotten egg smell which most people find very unpleasant. Iron and Manganese gives water a metallic taste and can stain virtually everything it touches including dishes, laundry, fixtures...even hair. They can also contribute to clogging and corrosion of pipes and appliances such as water heaters.

BWS Specialist Series IITM AIO PLUS Ozone Filtration Systems combine BWS' standard AIO valve with the fully integrated EOG ozone unit to create a tremendous enhancement over traditional aeration filtration techniques. It removes iron, manganese and hydrogen sulfide from your water leaving you with crystal clean water that smells and tastes fresh.



From our home in northeastern US to your home and family, you can trust a water conditioning product assembled by Blake Water Solutions. Local, trusted and family owned for two generations, our products are built with pride in the USA.

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## *How Does the AIO + Ozone Filtration System Work?*

The EOG ozone generator eliminates the need for harsh chemicals like chlorine and potassium permanganate and provides safe, natural disinfection, oxidation, and purification of water containing ferrous (clear water) iron, manganese, hydrogen sulfide VOCs, and unpleasant tastes and odors.

The EOG is a state-of-the-art device designed to produce ozone by "Pulse Modulated" Corona Discharge. Pulse Modulated Corona Discharge generators create ozone through the action of high voltage, low current electrical "arcs" across an air space. When oxygen (O<sub>2</sub>) is passed through the air space, some molecules are split, resulting in "free" oxygen atoms which quickly attach themselves to intact O<sub>2</sub> molecules. The result is a very unstable form of oxygen, O<sub>3</sub> (ozone). It is the extra atom of oxygen that gives ozone its superior oxidation capabilities. The AIO PLUS Ozone Filtration Systems utilize an air/ozone injection system to remove iron, manganese, and hydrogen sulfide from water via both oxidation and filtration. No chemical dosing or air compressors are required for operation or regeneration.

During service, untreated water passes through the ozone pocket, oxidizing any iron, sulfur, and manganese. The particles are then filtered out by the media bed.

After a few days, the system's regeneration cycle backwashes the bed. An ozone pocket is created when ozone is drawn in through an injector located in the brine port and refreshes the ozone pocket, allowing the process to begin again.



## *Questions to discuss with your Local Water Quality Experts*

### ***How often does the system regenerate?***

A unit which regenerates based upon actual water usage will prove to be more cost effective over time. Units which regenerate on a timed schedule are available.

### ***What is the capacity rating of the unit?***

Your Local Water Quality Expert can help you determine the grain rating required based upon your specific water usage needs. **Blake Water Solutions systems cover a wide range of softening requirements, from 10,000 to 124,400 grains per service cycle.**

### ***What is the warranty on the unit and its components?***

Blake Water Solutions' fully transferable 10-5-1 Warranty is one of the strongest guarantees in the industry! Our tanks are covered for 10 years, control valves are covered for 5 years and all other components are covered for 1 year.

### ***Is the system certified by an independent testing organization?***

NSF International certifies a wide variety of water treatment systems, including water softeners from Blake Water Solutions.

### ***How often will I need to add salt to the unit?***

While every household's water usage habits and specific mineral content may vary, the average family of four will typically require one or two bags of salt per month.

## ***Your Local Water Quality Expert:***



# BLAKE WATER SOLUTIONS



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