EOG Ozone Generator

FREQUENTLY ASKED QUESTIONS

What would be the ideal situation to try the EOG?

The EOG is ideal for applications experiencing:

- Mild rotten egg (H_2S) odors
- Metallic tastes related to iron or manganese
- Iron-related bacteria (IRB) or nuisance bacteria

It is especially effective where standard air injection alone does not provide consistent oxidation or odor control.

Is the EOG a unique solution for a unique issue, or is it enhancing an existing solution?

The EOG is an enhancement to traditional AIO systems, not a replacement. It improves oxidation within the tank, helps control bacterial buildup in the dome area, and reduces odors associated with biological growth.

Who is the target market for the EOG?

The EOG is designed for OEMs and water treatment professionals using Clack® AIO systems. When added to an AIO system, it enhances oxidation and helps re-oxidize media while controlling bacterial growth that contributes to taste, odor, and fouling issues.

What does a typical water analysis look like for EOG applications?

The typical water analysis would be:

Iron	<5 ppm
Manganese	<1 ppm
pH	>6.5
IRB'S	
Pink Algae	
Biofilm	

Does the EOG help with bacterial iron issues?

Yes. Many OEMs report strong success using the EOG to control iron-related bacteria (IRB) as well as other nuisance bacteria. By enhancing oxidation, the EOG helps disrupt bacterial growth that contributes to fouling, odors, and biofilm formation.

What filtration media works well with ozone?

In the U.S., Canada, and Mexico, filtration media such as Filter Ag Plus®, Filter OX™, Greensand Plus (for iron), and Catalytic Carbon (for sulfur) are commonly recommended for use with ozone. In Europe, Turbidex and Filter Ag Plus® are frequently used. Media selection ultimately depends on water chemistry factors such as pH, iron levels, organics, and turbidity. It is critical to note that Clack® Birm® should never be used in ozone systems, as it is incompatible with ozone oxidation.

Does the EOG work well with Birm?
No. Clack® does not recommend using Birm® media in ozone-based systems.

Does the EOG work with the Clack control valve?
The EOG is designed to operate exclusively with a Clack® control valve configured in an Air-Injection Oxidation (AIO) setup. An EE board is required to properly power and control the ozone generator within the system.

How does ozone improve an AIO system compared to air alone?
Ozone is a stronger oxidant than air, allowing for faster and more complete oxidation of iron, manganese, and bacterial contaminants. This helps maintain cleaner tanks, improves media performance, and reduces odor-causing biological growth.

Will the EOG leave a residual in the treated water?
No. Ozone quickly reverts back to oxygen after oxidation, leaving no chemical residual in the water.

Is an air dryer recommended with the EOG?
Yes. Using dry air improves ozone output consistency, protects internal components, and extends service life—especially in humid environments.

Does the EOG reduce maintenance requirements?
By controlling bacterial growth and improving oxidation efficiency, the EOG can help reduce fouling in the tank and on media, potentially extending service intervals and improving long-term system reliability.

Can the EOG help reduce recurring iron fouling on media beds?
Yes. By enhancing oxidation and controlling iron-related bacteria, the EOG helps prevent biological fouling that can shorten media life. While it does not eliminate the need for proper backwashing, it can improve long-term media performance and consistency.

Does the EOG eliminate the need for chemical oxidants?
In many applications, yes. The EOG allows ozone to replace or significantly reduce the need for chemical oxidants such as chlorine or potassium permanganate. However, final treatment decisions should be based on water chemistry and local regulations.

Does ozone affect the longevity of filtration media?
When properly applied, ozone does not damage compatible filtration media. In fact, by reducing biological fouling, it can help media maintain performance longer. Media compatibility should always be confirmed before installation.