

Comparison between Genclean and Ozone

GWT Genclean has almost 1.5 times the oxidation potential and effectiveness of ozone and ozone based disinfection treatment.

OZONE

- Ozone systems must include ozone destruction devices because the release of ozone gas can be dangerous.
- Can form toxic disinfection byproduct compounds.
- It does not provide residual disinfection capability.
- Solubility of ozone is difficult to maintain, as ozone is 12 times less soluble in water than other disinfection methods including chlorine and Genclean. This limits disinfection potential.
- Relatively high operating cost, it is a power intensive process and requires skilled operators.
- Higher initial capital cost
- Ozone is very corrosive, and it can affect the equipment or piping based on the application.
- Low dosage may not effectively inactivate some viruses, spores, and cysts.
- Typically requires neutral pH for effectiveness.

GENCLEAN^(TM)

- It is not sensitive to PH.
- Does not produce toxic compounds.
- It has more residual activity than chlorine.
- Removes and controls the biological film.
- Pathogens cannot create resistance.
- It is an excellent disinfectant. It has a greater oxidizing potential than other oxidants including chlorine, chlorine dioxide, ozone, peroxide, or paracetic acid.
- Stability studies showed that after one year of storage it retains 98% of effectiveness as an oxidant.
- It is less corrosive than chlorine. In swimming pools it does not irritate the skin or the eyes.
- It acts as a micro-flocculant and facilitates the elimination of minerals such as iron, sulfide and manganese
- Precipitates heavy metals.

- Genclean^(tm) requires lower dosage to obtain the oxidation/disinfection capability of ozone. This equates to a small space required for storage as there is no primary and auxiliary systems to maintain.
- Genclean^(tm) can be stored and ozone treatment must be generated on site from a separate oxygen source.
- Genclean^(tm) does not require specialized technical staff because it is easy to use.
- Genclean^(tm) is more cost effective than Ozone in the disinfection of surfaces, air, equipment, and for the treatment of water & wastewater.



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