



Municipal Pipeline Disinfection With Ozone

Ozone, when properly applied and dissolved at required residual concentrations in water, is the most powerful commercially available oxidizing and disinfecting agent. It rapidly destroys microbiological organisms such as E.coli, HPC bacteria, virus and parasitic cysts while reverting to oxygen making it both process and environmentally friendly.

Now, **Ozone** applied in a new flow-through method has been shown to provide excellent results for **ozone** disinfection of water mains. **Ozone** is generated and mixed with water used to flush mains in a mobile trailer limiting transportation and handling concerns.

- **Ozone** provides a fast and effective method for disinfecting new or repaired water mains, eliminating liquid chemical transportation, handling and the dechlorination step with "environmentally friendly" discharges to the environment.
- Because **ozone** decays rapidly in water, a flow-through disinfection method is used to maintain detectable **ozone** residuals throughout the pipeline.
- The CT disinfection concept can be applied to disinfection of water mains based on exposure of pipe walls to accumulating CT products for inactivation of the target organism, such as HPC bacteria.
- **Ozone** was proven effective in laboratory and pilot studies and in full-scale pipe loop disinfection at Denver Water.

The mobile **Mazzei-GDT™ Ozone Trailer** is a compact, quite and extremely efficient **ozone** generation and dissolution system, complete with all process and safety systems. The treatment of piping systems and surfaces with **ozonated** water has been accepted as a preferred alternative to chemical sanitization in many industries including electronics, pharmaceutical, beverage and food processing.

The simple and effective mobile GDT™ system now available for municipal main treatment incorporates and power generator, **ozone** generator, **ozone** gas injection, off-gas removal/destruction system, laboratory and lighting system delivering up to 50% labor savings.

For details on system design options and performance contact:
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