

Water Sanitation & Pathogen Control



Fresh, Clean & Safe!



Controls
Bacteria



Controls
Bio-Film



Non
Residual



Water
Storage



Produce
Washing



Proportional
Dosing

Fresh is best.

Fresh fruits and vegetables are an important part of a modern healthy diet and increasingly consumers choose pre-packed produce that is ready to serve.

However fresh fruits and vegetables can be contaminated with harmful bacteria or viruses, also known as pathogens, with organic fertilizers, irrigation water and soil are major source of this contamination.



Effective decontamination.

Water Sanitation and Pathogen Control is a critical part of any modern vegetable processing operation.

Processes for removal of pathogens normally involves a washing process to dislodge any contaminants. It is critical that the washing water is also free from contaminants.

For effective control of microbes within the water supply system, a disinfectant is used to sanitise the water and also prevents bacteria from growing in pipeline, know as biofilm.



Benefits of Chlorine Dioxide.

Chlorine dioxide is a gas used in very small quantities to disinfect water. It is a disinfectant similar to bleach and is unsafe when used in large amounts. Chlorine dioxide kills bacteria, viruses, and fungi.

Chlorine Dioxide can be produced by activating a stabilized ClO₂ source with an acid or oxidizing agent. The stabilized Chlorine Dioxide is generated at a dilute rate before being injected into the process water at low concentrations.



The bactericidal effects of Chlorine Dioxide will eliminate any harmful pathogens with minimal contact time and importantly leaves minimal to no detectable chemical residues in several food products.

Chlorine dioxide is a broad-spectrum biocide that is,

- Effective against biofilms and spores.
- 2.6 times the oxidizing capacity of chlorine,
- low concentration and contact times.
- Works over a broad pH range.
- Minimal effect from organic materials.
- Biodegradable and safe to the environment, does not form harmful by-products.
- Microorganisms are unable to develop resistance.
- Cost effective and easy to use.

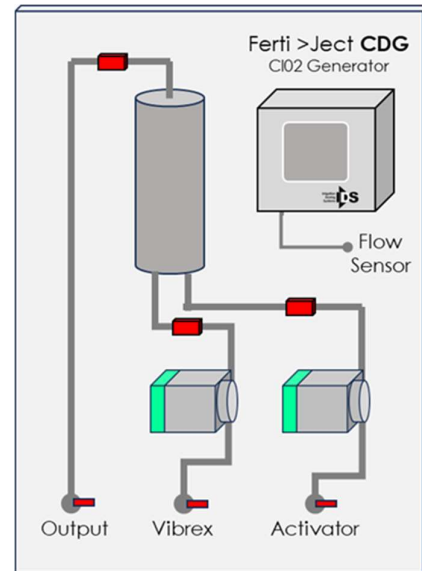
ClO₂ Delivery systems.

Chlorine Dioxide can be generated in a number of ways, including,

- Batch dosing - manual activation of the two required reagents together.
- Automated dosing – activation in a reaction chamber and then proportionally injected directly into the process water stream based on flowrate.

The Ferti▶Ject CDG Chlorine Dioxide Generator is an automated system that is an accurate and cost-effective way to sanitize water in various applications.

- Simple to install, easy to use.
- Accurate proportional dosing to system flow rate.
- Modular & versatile for a range of applications.
- Local alarms with remote monitoring option.



Horticultural Applications.

The Ferti▶Ject CDG Chlorine Dioxide Generator is ideal for use in nurseries, hydroponics, market gardens & post harvesting with a wide range of crops including flowers, fruit, vegetables, grapes & mushrooms.



Used as a primary water treatment for common pathogens including fusarium, pythium and phytophthora, controlling bio-film growth, drenching soil beds, foliar treatment, and post-harvest treatment to protect against all forms of viral, fungal and bacterial germicides.

Food Processing Applications.

The Ferti▶Ject CDG Chlorine Dioxide Generator is an effective delivery method for the wash-water sanitation for fruits and vegetables facilitating better quality goods in production with improved shelf life.



Being a wide-spectrum biocide, it is capable of dramatically reducing the bacterial load in water supplies with the added benefit of having simple application with resilience to various water conditions such as pH.

Talk to us.

Ferti▶Ject specialize in water treatment systems and customize our solutions to suit your specific application, contact us to arrange an obligation free consultation.

We love living here,



Let's make sure our kids can too!

At Ferti▶Ject, what motivates us is our **passion** for our planet and the amazing **diversity** of life that exists upon it.

If we are to **conserve** and repair our **environment**, then we must develop and deploy **sustainable solutions** to shelter, clothe and feed our global population..., quickly.

We think **water** is the key to this solution.

It's how use and reuse water that is the **challenge**.

Available from



Ferti-Ject Dosing Systems

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