

## Siemens Chlorine Dioxide

Systems For Water Supplies As A Safeguard Against Infection By Bacteria

### Chlorine Dioxide systems are versatile for a variety of applications where bacteria treatment in water is required.

Generally our buildings take their water supplies from the Towns Mains, which is very good quality water. This water is then often stored in old tanks and distributed around the site in even older pipework systems. These systems will inevitably have built up a biofilm on the internal surfaces, and this can then harbour bacteria such as Pseudomonas and Legionella.

Many treatments regularly applied to clean these systems will perform quite well superficially, but will only provide a temporary solution as they do not actually penetrate and remove biofilm.

Chlorine Dioxide, however, will do just that; and providing it is applied at a reasonable level—typically 0.5ppm—it will remove the biofilm slowly, rather than in large clumps which might block the water outlets. The Chlorine Dioxide in the water will be used up by this biofilm (known as a chlorine dioxide demand) in the system, until the pipework is clean. The chlorine dioxide will gradually work its way through the system until eventually a residual will exist throughout the water system, and continually bathe the now clean pipework with a disinfectant residual, which prevents any new formation of biofilm.



Chlorine Dioxide Generator



Chlorine Dioxide Monitor

### Applications Applicable

- Waste Water Disinfection
- Water Recycling & Re Use
- Food Processing Disinfection
- Cooling Towers
- Drinking Water Disinfection
- Agricultural & Horticultural Irrigation
- Cardboard, Corrugator & Paper Manufacturers
- Vegetable & Fruit Processing
- Bacterial Removal.

### Elimination

- Biofilms
- Pseudomonas
- Legionella
- Streptococcus Facalis Bacillus
- Clostridium
- E Coli
- Giardia
- Pneumophilia
- Cryptosporidium
- Amoebae