

Chlorine Dioxide Odour Destruction System

By combining the power of Chlorine Dioxide as a powerful oxidiser, capable of odour destruction, with the sophistication of the probe atomiser unit, a complete new approach to odour control is achieved.



The magic ingredients are :-

(a) Probe atomising head.

The head itself works by pumping a combination of water and chlorine dioxide through two opposing meshes. These spin at 12,000 rpm, which pulverises the liquid into an incredible 238 billion drops per litre. The droplets are mono-dispersed, in other words all the same size. This ensures that the odour molecules is maximised.



The result is an almost "dry mist". This is created from an extremely low liquid volume, meaning that the operation is extremely cost effective and can be continuous.

(b) Catalytic Chlorine Dioxide

The combination of simple cation ion exchange and catalytic chemistry has produced the most efficient way to deliver chlorine dioxide without the need for storage or strong solutions.

Catalytic Chlorine dioxide produces:-

- ◆ >98.5% conversion to Chlorine Dioxide
- ◆ Solutions of less than 700 mg/litre
- ◆ Zero residual chlorine

Typically solutions of between 0.5 mg/litre to 5 mg/litre are required to provide complete odour destruction.

Clearwater Technology Limited is the leading British Chlorine Dioxide total solutions provider.

Previously regulated to very specific needs in water treatment, new technology is creating a unique opportunity for Chlorine Dioxide to be applied throughout a wide range of applications that call for the prevention of microbial growth such as slimes and moulds, together with total pathogen control against such organisms as Cryptosporidium, Pseudomonas, Legionella and many more.

Chlorine Dioxide has been called the "ideal" biocide for a number of reasons:

- ◆ It works against a wide variety of bacteria, yeasts, viruses, fungi, protozoa, spores, moulds, mildews and other microbes. It is especially effective in killing Giardia, Cryptosporidium and Legionella
- ◆ It exhibits rapid kill of target organisms, often in seconds.
- ◆ It is effective at very low concentrations and over a wide pH range.
- ◆ It is effective across a wide temperature range including water up to 80°C
- ◆ It biodegrades in the environment.
 - ◆ Unlike many other biocides, e.g. chlorine, it does not react with primary organics to form harmful trihalomethanes (THM's).
- ◆ It eradicates biofilm, and used as part of a preventative programme, eliminates recurrence within pipe work, equipment and systems.

Chlorine Dioxide Odour Destruction System

Chlorine Dioxide does not simply mask offensive smells, like other odour control additives. It's unique chemistry combines chemically with the odour molecules and destroys them.

Another major benefit is that Chlorine dioxide will destroy any pathogens contained within the water supply or being carried within an odour vapour.

Chlorine dioxide is effective against : -

- ◆ Hydrogen Sulphide
- ◆ Ammonia
- ◆ Amines
- ◆ Mercaptans
- ◆ Sulphur dioxide
- ◆ Any many, many more.....

Main Advantages : -

- ◆ 100% bio-degradable
- ◆ Environmentally friendly
- ◆ Safe under CHIP/COSHH
- ◆ Absorbs fugitive emissions
- ◆ Harmless to humans and animals
- ◆ Non-acidic or caustic
- ◆ Sterilisation of water supply

Typical Applications : -

- ◆ Food Processing Plants
- ◆ Composting Plants
- ◆ Transfer Stations
- ◆ Landfill & Waste Sites
- ◆ Any industry that produces deleterious odours

For full technical and installation details please contact
Your local Clearwater Chlorine Dioxide Product Specialist

New delivery technologies bring the power of chlorine dioxide without the expense and complication of on-site generation or high level training.

Typical applications are:-

- ◆ Constant dosing of drinking water, cold and hot water systems within building services
- ◆ Product washing and system disinfection throughout the food industry. Disinfection and neutralisation as part of C.I.P. systems
- ◆ Cooling Tower Water
- ◆ Intense disinfection for hydro-therapy pool and ancillary services within hospitals
- ◆ Elimination of white water mould and pink slime in swimming pools, including filter and balance tank biofilm build-up
- ◆ Improved disinfection within Spa Pools
- ◆ Eliminate fouling by micro-organisms in water softeners
- ◆ Treating bacteria in car/vehicle wash recycling water
- ◆ Prevents the formation of slime and odour causing bacteria and fungi within ice making machines
- ◆ Tank Cleaning

Clearwater Technology -

"Imagination"

"Innovation"

"Implementation"



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