

Activ-Ox[®] 4100 Chlorine Dioxide System

Activ-Ox[®] 4100

Simplicity & Controllability

Instant, high yield reaction

Simple installation

Easy to set up and adjust

5 standard control options:

- * Water flow
- * Periodic (Day & Time)
- * Built-in timer
- * Batch control
- * Remote start

Simple test kit available

Suitable for...

Hospitals

Hotels

Nursing homes

Office blocks

Legionella control

Domestic water

Drinking water

Breweries

Dairies

Food processing

CIP Systems

Chemical manufacture

Agriculture

Poultry houses

Off-shore rigs

Etc...



4100 Multi Dosing System (Larger Applications)

The Activ-Ox[®] 4100 Multi is a next generation chlorine dioxide dosing system which is simple, safe and ideal for water treatment applications up to approximately 5000m³/day. It works in conjunction with Feedwater's specially formulated Activ-Ox[®] chemicals to make the controlled dosage of chlorine dioxide easy and cost effective.

Chlorine dioxide is being used increasingly because of its unique properties as a disinfectant and biocide but traditional generators are complex, expensive and use hazardous chemicals. The Activ-Ox[®] process is much simpler and safer and offers great value for money.

How it works

The Activ-Ox system most typically uses a water meter which is installed in the water supply to provide a proportional signal to control the dosage rate, however, 4 other control options are included as standard: Periodic; Timer; Batch and Remote Start. These options mean the Activ-Ox 4100 is extremely flexible and can be used for a wide range of applications.

The dosing system draws the three Activ-Ox[®] precursor chemicals in equal quantity and injects them into the special reactor tee which is installed in the water system being treated. The three chemicals mix and react instantly within the reaction tee and are injected into the water stream. The required chlorine dioxide dosage rate can be set on the unit and adjusted easily in response to the result of a simple water test at the point-of-use outlet.

In addition to the 5 built-in control options other bespoke control options are available such as chlorine dioxide monitoring.

Specification

- * Maximum operating pressure: 16 Bar (dependent on output)
- * Electrical requirement: 230V + or - 10%, 50Hz, single phase
- * Chlorine Dioxide output: 0 - 300g/hr
- * Intended Operational flow range: 0 - 5000m³/day
- * Intended dosage rate: 0.1 - 5.0 ppm ClO₂ (higher levels possible)

Safety First

- Instant reaction - so no need for chemical mixing tanks or generator vessels containing high levels of chlorine dioxide.
- Low hazard chemicals – no strong acids.
- Mixing and reaction takes place in a special reaction manifold which is integral to the water flow.
- No gas is produced - Chlorine Dioxide is only ever produced in solution and then immediately diluted to the required concentration in the water stream being treated.
- No chance of overdosing – dosage is controlled automatically, normally by impulsing water meter to prevent under or overdosing.
- Tamper proof - the dosing pumps are housed in separate lockable enclosures.
- Double walled injection tubing – so no chance of a leak.
- Chemical bund option for extra security.
- Chemical low level alarm as standard.

Optional Features

- Warning Beacon Visual Alarm for drum low level.
- Tank bunds - individual outer containers with lids.
- Chemical dosing tanks with bunds and dissimilar fittings for pump transfer delivery of chemicals.
- Rigid suction assembly upgrade - converting normal suction foot valve and low level float switch to an adjustable rigid assembly.
- Inline non-return valves - to prevent syphoning when injecting into a tank or low pressure water line.
- Pump flow monitors - to alarm if a dosing pump fails to pump chemical when it should.
- Chlorine dioxide monitoring and other bespoke dosage control options.
- Testkit - drop test kit for both total oxidant and free chlorine dioxide.
- Legs to enable the unit to be free-standing rather than wall-mounted.



Tamper Proof Cabinets



Double Walled Tubing



Reaction Manifold



Water Meter Controlled