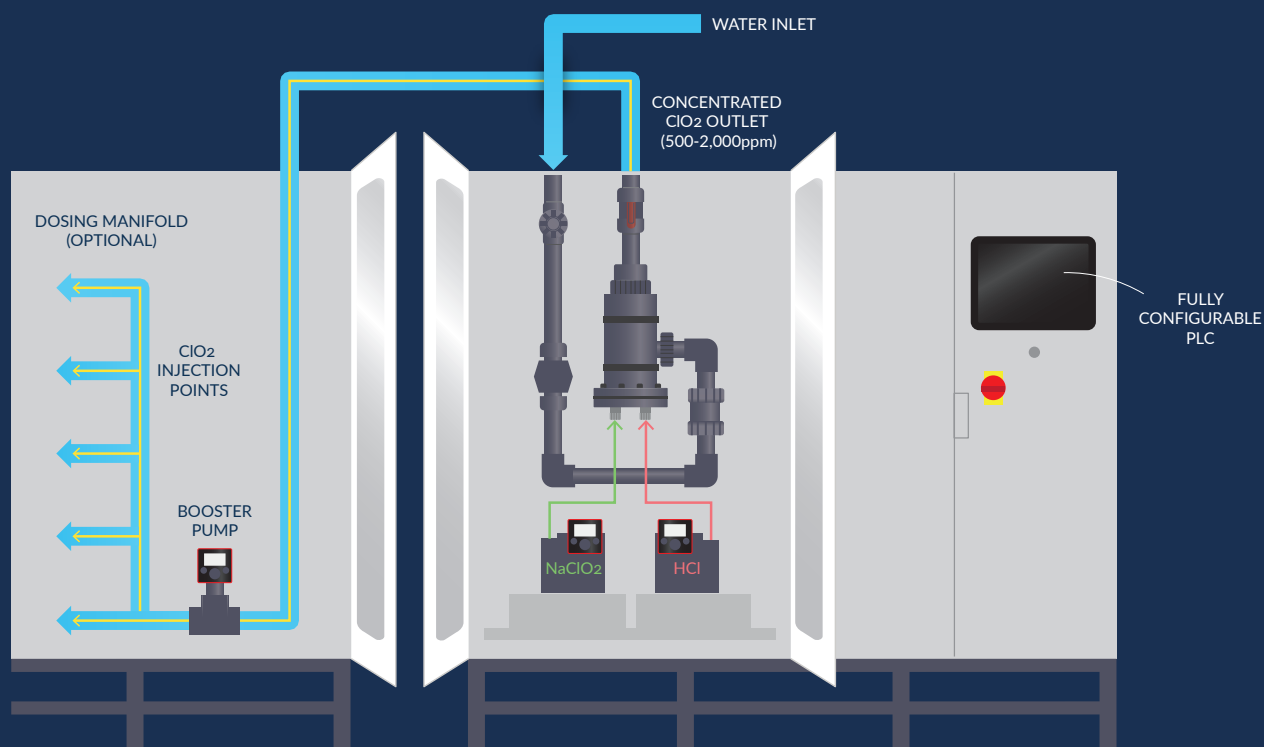


Bravo MX



The Scotmas Bravo MX Chlorine Dioxide Generation and Dosing System is designed and built to comply with WIMES (Water Industry Mechanical and Electrical Specifications) requirements.

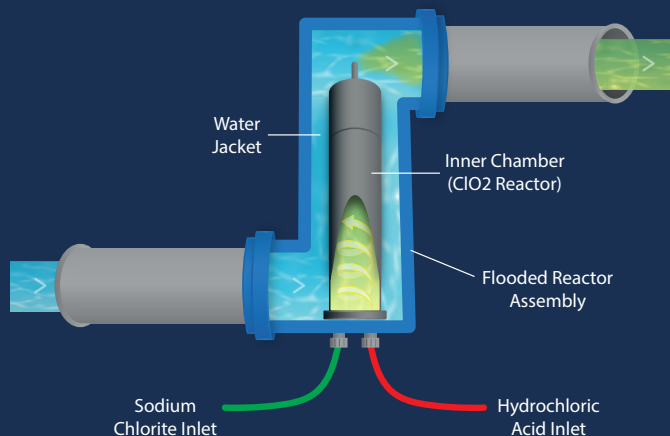
Scotmas Bravo MX systems can be supplied as heavy-duty skids, industrial steel cabinet variants, or Containerised Generation Systems with integral chemical storage, when no suitable plantroom or secure chemical storage facility is available.

Chlorine Dioxide is produced in small volumes as required by the demand from the water being treated – no storage of Chlorine Dioxide solution is required. The system is ideally suited to deliver Industrial and Municipal water treatment to UK and European standards.

Municipal Water and Power Utilities seeking high performance Chlorine Dioxide generation systems will benefit from reduced total expenditure when using Scotmas Bravo MX systems. All MX systems are

designed to offer the extended asset life requirements demanded by UK Water Utilities – 25 years for 'Chemical Dosing Equipment' and 50 years for 'Building Structures' and 'Internal Pipework'.

- Generation capacity up to 80 kg ClO_2 /hr / up to 160,000 m^3 /hr @ 0.5 mg/l ClO_2 .
- All Chlorine Dioxide production is undertaken in our unique Submerged Reactor system. The precursor chemicals are mixed within the Submerged Reactor's inner chamber, located inside the flooded outer chamber.



- Reduced acid consumption. Only 4.8kg of HCl required per kg of ClO_2 generated compared to up to 5.7kg/kg with competitors' equipment.
- The submerged reactor and the two precursor pumps dedicated to the reactor system are all contained within the system enclosure.
- Scotmas Chlorine Dioxide systems can be equipped to dose to multiple locations, via an automatic Dosing System Manifold. Dosing concentrations can be independently selected, this will control precursor dosing into the Chlorine Dioxide reactor in response to flow or other monitoring instrumentation signals for each dosing location.
- Siemens S7 PLC based controller.
- For RO systems requiring multiple dosing locations, Scotmas can provide dosing system manifolds with up to ten injection points, all managed by the Scotmas Bravo MX Package Plant.
- The Bravo range utilises industrial system cabinets, fitted with transparent doors and integral internal light, allowing operators to observe the production process in as safe an environment as is possible.
- Integral ClO_2 gas alarms will safely warn the operators of a leak event and automatically shut down the system in the event of leaks above prescribed limits.
- Integral Fixed Gas Detection system provides operators with an additional layer of protection by continuously sampling the plantroom environment for Chlorine Dioxide gas leaks.
- Augmented Reality HoloLens systems for remote support.



About Scotmas

Scotmas are internationally renowned, specialist manufacturers of Chlorine Dioxide generation systems with more than 25 years' experience in the field. Employing over 50 staff worldwide, Scotmas are solely dedicated to Chlorine Dioxide technology and can provide all required chemical / process engineering, chemistry, microbiology, and application-specific technical support needed for successful project execution, in conjunction with strong local civil engineering and service delivery partners.

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