

DIOX[®] Water Hygiene

Complete System for Generation and Feed Of Chlorine Dioxide (ClO₂) For Water Disinfection

The DIOX System is a new, self-contained generator that provides for the safe, continuous production of the highly effective biocide: chlorine dioxide (ClO₂). The DIOX System brings economical ClO₂ to a large group of new users for whom the high cost and complexity of generating equipment has been prohibitive.

ClO₂ is a stable, dissolved gas that is a strong bactericide and virucide at concentrations as low as 0.1 ppm in water. With minimal contact time, it is highly effective against pathogenic organisms such as Legionella, Giardia cysts, E. coli, and Cryptosporidium. ClO₂ destroys biofilms and significantly impedes bacterial regrowth. It is a neutral species and does not form weak acids (e.g. chlorine and bromine). Therefore, it is effective over a wide pH range.

ClO₂ is approved and recommended by the U. S. Environmental Protection Agency as a safe and environmentally friendly drinking water disinfectant to replace chlorine (which forms carcinogenic byproducts).

The DIOX System is new technology based on a patented, electrolytic cell. The cell directly oxidizes a single precursor, sodium chlorite, to chlorine dioxide. Operation is controlled by a menu-driven, keypad-activated microprocessor. The system is completely self-contained with automatic controls and safety-monitoring devices. The system is easy to install and readily integrated with existing equipment.

The DIOX System generates sufficient ClO₂ to meet any on-going demand. The system comes with complete with all necessary pumps and controls to proportionally feed ClO₂ to any water supply. Site requirements are a potable water source between 40 and 90 psi and electrical power. Outside dimensions of the generator unit are 22" D X 24" W X 47" H (56 cm D X 61 cm W X 119 cm H). Operational weight is 180 pounds (82 kilograms). Systems process controller, injection pump and feedwater flow assembly are panel mounted on a 48" L X 36" H PVC panel for wall mounting. The process is available in two configurations:

The DIOX System 1000 runs on 110/230 volts, 50/60 Hz and 15 amperes. The DIOX System 2000 runs on 240 volts, 50/60 Hz and 20 amperes. The total power consumption is between 200 and 2000 watts, depending on the size of the system.



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