

OXIBLU

Drinking Water Solutions

CHLORINE DIOXIDE GENERATION USING THE NATURAL MINERALS FROM THE WATER

In certain parts of the world, the quality of the drinking water can be unknown. Contamination by bacteria and other harmful micro-organisms is prevalent.

BlueSense™ developed OXIBLU to provide a final disinfection at the end-user's tap.

On Site Chlorine Dioxide Generation

Based on the electrolysis principle, **OXIBLU** is a patented technology, to be either integrated into water coolers or dispensers or used as a stand-alone unit (in this case with its specifically designed electronic controller).

Using only the chlorides ions naturally present in the water (a minimum concentration of only 20 ppm is required), **OXIBLU** will generate up to 1.2 ppm of Chlorine Dioxide.

Chlorine dioxide is one of the most effective disinfectants, rapidly killing bacteria, viruses, fungi and algae. Its efficacy has been proven at concentrations as low as 0.1 ppm (parts per million) and over a wide pH range. It is also highly soluble (10 times more than chlorine), even in cold water making it extremely effective.

Unlike the other forms of chlorine, chlorine dioxide is also efficient against biofilm which can form into pipes, tanks and equipment and be a threat to drinking water quality.

An ideal solution for water dispensers

OXIBLU by BlueSense™ is a state-of-the-art disinfection device which can be easily integrated in water coolers, water dispensers and under the sink faucet systems.

It will provide a final disinfection, bringing clean water all the way to the tap.

Typically, **OXIBLU** is able to treat up to 2 liters/min (0.53 US Gal./min), a flow rate appropriate for most requirements.



OXIBLU unit



A flexible solution

In addition to the **OXIBLU** device, BlueSense™ can also provide a complete unit, including the electronic circuit board and a specific enclosure to allow a stand-alone installation directly on the inlet water pipe of a household or on a small drinking water dispensing unit.



OXIBLU Taylor Made Unit

Maintenance of the unit is facilitated by an exclusive sliding system (ESS) which requires only 2 minutes to perform the electrode replacement.

For large quantities, BlueSense™ engineering services can provide tailored solutions for specific requirements.

BlueSense™ has also developed units based on the **OXIBLU** technology that produce up to 1.0 m³/h :

OXIBLU 500 : 0.5m³/h

OXIBLU 1000 : 1.0m³/h

The device is built with 5 to 10 electrodes in parallel and can be adapted to the existing flow rates. It is easy to install with a very low replacement cost.



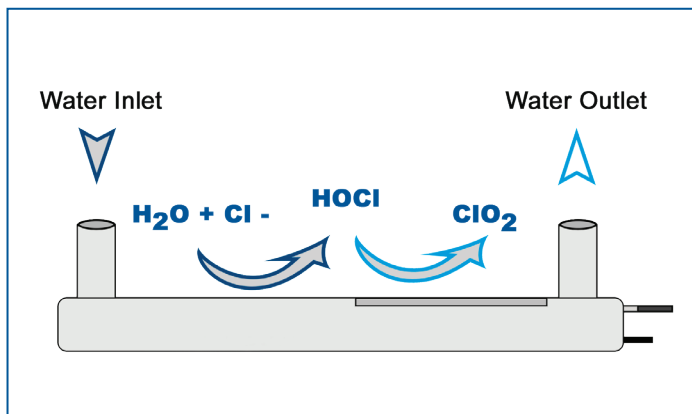
OXIBLU 500

Examples of application

- Rooftop Tanks
- Small Cooling Towers (Evapo-condensers)
- Animal Drinking Water Lines (poultry, cattle, etc...)

TECHNICAL SPECIFICATIONS

OXIBLU simplified operating scheme :



OXIBLU Required utilities
Clean Water Turbidity : < 2 NTU recommended
6 ppm chlorides (20 ppm recommended) to obtain up 1.4 ppm ClO²
Water pressure : 3 bar max
Power Supply : 12 Volts DC – 0.4 A max or 24 Volts DC – 1 A max
Dimensions of the device
L x l x h = 9.5 x 3.5 x 3.5 cm
Inlet / outlet pipes: 6 x 8 mm

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