

# CHLORINE DIOXIDE GENERATORS

## *TERSUS® ClO<sub>2</sub> LX Series*

### Key Benefits:

- ◆ Safe & effective ClO<sub>2</sub> production.
- ◆ Wide range available.
- ◆ The factory precise set limit.
- ◆ Intermittent and continuous dosing options.
- ◆ Unique process design - friendly operation.
- ◆ High precision PLC operated dosing pumps.
- ◆ 50 lt carboy / 200 lt drum / 1000 lt IBCs for precursor storage.
- ◆ The pipes for dilution water & chemicals are colour coded.
- ◆ Plug-In play design - minimal installation.
- ◆ Pressure underwater ClO<sub>2</sub> generation.
- ◆ Option of CFR 21 compliant PLC.

The Chlorine dioxide is a high potent disinfectant which useful for several water applications.

Our TERSUS® "L" series ClO<sub>2</sub> system unit is specially designed in such a way that same can be used for medium or higher capacity requirement for an Industrial as well as Municipal disinfection use. These systems are designed based on our proven "UNDERWATER / SUBMERSED / ENCAPSULATED" ClO<sub>2</sub> in-situ, on-demand generation. They are one of safest on-site production of an aqueous ClO<sub>2</sub> solution with consistent purity.

These systems are available with following precursor feeding options;

1. 24-31% Sodium Chlorite [NaClO<sub>2</sub>] & 30-33% Hydrochloric Acid [HCl] and
2. CLOMAX 4105 Sodium Chlorate based [NaClO<sub>3</sub>+] & 30-33% Hydrochloric Acid [HCl] After generation, ClO<sub>2</sub> enriched solution is fed into point of use / injection point inline dosing / tank / sump etc., as per dosing requirement.

These systems are best suited for following applications;

- ◆ Cooling Tower [CW] Water Disinfection
- ◆ Sea Water Once-through Cooling Water Disinfection
- ◆ Sea Water Intake Water for Desalination Plants
- ◆ Potable Water Disinfection for Desalinated Water [Bromate-Free] as per WHO Guidelines
- ◆ Pulp & Paper Mills for a Bleach Application
- ◆ Municipal Drinking Water Treatment Plants [WTP]
- ◆ Centralized Effluent Treatment Plants [ETP]
- ◆ Steel, Chemical & Mining Plants for Water Disinfection
- ◆ Electronics, Semi-conductor and Solar Cell Manufacturing Plant



TERSUS® "L" Series systems are offered in following configuration;

1. LX Series: > 0.5 Kg/h to < 2 Kg/h
2. LY Series: > 2 Kg/h to < 10 Kg/h
3. LZ Series: > 10 Kg/h to 120 Kg/h and higher



# TERSUS

CIO<sub>2</sub> DISINFECTION SYSTEM

## CHLORINE DIOXIDE GENERATORS

### TERSUS® CIO<sub>2</sub> LX Series

These systems are standardized, skid mounted, pre-wired system with OEM designed PLC-HMI based automatic operation console unit mounted on skid itself. Each of these systems are tested at our assembly unit before dispatch following stringent "Factory Acceptance Test [FAT]" protocol. This testing ensures minimum integration work at site and they are plug-in to use with minimum downtime for commissioning and on-site production of CIO<sub>2</sub>.

#### Plant Management Software

##### 1. Manual 2. Automatic

In manual mode the operator will decide the solution flow rate for each injection point, while in automatic the system will impose the correct flow rate to assure the required chlorine dioxide concentration in the water line.

One injection point will have the possibility to dose in three modes:

1. MANUAL [Start / Stop as per timer setting for specific time / rated dosing requirement]
2. SHOT / INTERMITTENT [24 programs for a set specific time / rated dosing requirement]
3. ON-LINE RESIDUAL CIO<sub>2</sub> / ORP MONITORING SYSTEM - AUTOMATIC

## SPECIFICATIONS

- ◆ Capacity: 500g - 2000g CIO<sub>2</sub>/h
- ◆ Concentration of chlorine dioxide produced upto 1g CIO<sub>2</sub>/l
- ◆ Sodium chlorite used 31%
- ◆ Hydrochloric acid used 30%
- ◆ Process water pressure 2-4 bar
- ◆ Process water temperature upto 35°C
- ◆ Operating temperature upto 35°C
- ◆ Humidity max. 90%

Net weight Max:

**150-200 kg**

External dimensions: (W x H x D)

**600 x 1800 x 600mm (± 50 mm)**

#### Scope of operator's activities:

Periodic replenishment of reagents, system flushing if necessary and calibration of metering pumps.

#### Control & Electricals:

Power supply 230 V, 50 Hz & Protection max. 6 A Power 0.2kVA

Display 7" Touch Screen HMI, enabled system operation graphics & alarm functions



**CALIBRATION  
FACTORY TESTED**



**MANUFACTURER  
WARRANTY 12 MONTHS**

PWSPL-CIO<sub>2</sub>-L-SERIES

## CONTACT US

Purita Water Solutions Pvt. Ltd.

Plot No.3, Agarwal Industrial Estate,  
Near MSEB Office, Sativali Road, Vasai (E),  
Dist. Palghar - 401 208, Maharashtra, INDIA.

Tel: (B) +91 8446 07 8101 upto 8108

Email: [info@puritawater.com](mailto:info@puritawater.com)

Website: [www.tersusclo2.com](http://www.tersusclo2.com)



CIN : U74999MH2005PTC153723