



*"The Chlorine Dioxide People"*

Providing you with gaseous chlorine dioxide solutions for your decontamination needs

## Equipment Decontamination Chamber

The Equipment Decontamination Chamber is designed for use in any governmental, pharmaceutical, manufacturing, laboratory, research or surgical setting. It provides a rapid and highly effective method to sterilize computers, electronics, medical devices, sterile products, instruments, and components at ambient temperatures. It also provides a cost effective method to decontaminate components, parts, supplies, and equipment entering a "sterile" or "clean" facility at room temperatures and without the need for an expensive space consuming sterilizer. It also provides the ability to remove items from a dirty area to a clean area without the concern for cross contaminations.

The equipment utilizes a rugged industrial control system. It features a sophisticated sterilant concentration monitoring system to assure a tightly controlled sterilization process facilitating parametric release. All instrumentation, including the photometer for concentration monitoring, is easily calibrated to traceable standards.

The process is easy to validate due to the repeatable cycle, tight process control, and highly accurate sterilant monitoring system. A run record is produced that contains: date, cycle time, as well as relative humidity, temperature, pressure, and chlorine dioxide concentration.

The equipment is available in a variety of sizes to meet your processing needs.



- Sterilization at ambient temperatures
- short cycle times
- precise concentration monitoring
- Uses a true gas
- excellent distribution into hard to reach areas
- quick aeration (can literally be minutes)
- gas concentration feedback to control system
- no down time between cycles
- simple to validate
- complete cycle automation
- easy to use touch screen operator interface
- detailed cycle reporting
- recipe management
- historical and real time trending
- no liquids in process
- quick consumable replacement
- does not require tight control of dew point temperatures
- no concern for condensation as with hydrogen peroxide
- non-carcinogenic
- non-flammable
- extremely low residuals
- rugged and reliable industrial components
- quality construction
- does not condense out or breakdown during the process

Decontamination time can be under **1.5 hours** for a 150 ft<sup>3</sup> (4.25m<sup>3</sup>) chamber

A cycle cost of **\$12.00 consumable cost per run**

**Call us for more information about the power of a TRUE GAS**



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14-030 Rev C

# ClorDiSys

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Providing you with gaseous chlorine dioxide solutions for your decontamination and sterilization needs

## Cloridox - Docking Station™

### Description

The Cloridox-Docking Station provides a method to decontaminate multiple transfer isolators just by "Docking" the isolators or beta canisters to the station. It uses an Alpha RTP allowing a quick and easy connection to the transfer isolator requiring decontamination. This eliminates the need for penetrations into the isolator and the requirement to connect and disconnect hoses for decontamination. It also has the added benefit of being used as a pass-through chamber to decontaminate components.

The Cloridox – Docking Station comes in two forms, one for the Cloridox - DS (Distributed System) chlorine dioxide gas generator and another for the Cloridox - GMP chlorine dioxide gas generator. The Docking Station for the Distributed System comes complete with sensors to monitor the entire cycle. The Docking Station for the Cloridox - GMP unit comes with the connections already installed and ready for use with the sensors within the Cloridox – GMP system.



**Cloridox-Docking Station**  
Dimensions 45"W x 64"H x 24"D  
(8 cubic ft. chamber)  
Weight 300 lbs

An optional steam inject module can be installed to deliver steam to raise relative humidity to within a specified range

### Why use the ClorDiSys Solutions, Inc. gas generators?

- short cycle times
- does not condense out or breakdown during the process
- precise concentration monitoring
- generates a true gas
- excellent distribution into hard to reach areas
- quick aeration (can literally be minutes)
- does not require tight control of dew point temperatures
- gas concentration feedback to control system
- no down time between cycles
- portable
- rugged and reliable industrial components
- quality construction
- quick connection to chamber
- extremely low residuals
- simple to validate
- complete cycle automation
- easy to use touch screen operator interface
- detailed cycle reporting
- recipe management
- historical and real time trending
- no liquids in process
- quick consumable replacement
- no manual wiping or neutralization
- no concern for condensation as with hydrogen peroxide
- long life span when compared to ozone
- non-carcinogenic
- non-flammable

### Utility Requirements for Cloridox -GMP Docking Station

- 15 cfm, negative pressure exhaust
- 20 psi steam (for optional Steam Injector)

### Utility Requirements for Cloridox – DS Docking Station

- 15 cfm, negative pressure exhaust
- 100 - 240 VAC, 5 amp, single phase
- 20 psi steam (for optional Steam Injector)



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# ClorDiSys

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## ClorDiSys EMS™

### Description

The ClorDiSys EMS (Environmental Monitoring System) provides the ability to monitor chlorine dioxide concentration, relative humidity (RH) and temperature of a chamber. It displays these values on a easy to read display. The instruments are all of rugged, industrial quality and easy to calibrate to NIST traceable standards. With the ClorDiSys Solutions, Inc. chlorine dioxide monitoring system, the user can monitor concentration independent of the method of generation. The EMS unit provides precise and repeatable concentration monitoring by measuring the gas concentration at various wavelengths. The unit is not affected by high temperatures or humidity as some sensors are. The sensor also does not become saturated as with chemical methods of sensing. This enables accurate readings, without delay, even after measuring high concentrations. Our RH/TT sensor is also able to stand up to repeatable and frequent chlorine dioxide exposures unlike many others.



**ClorDiSys EMS**  
Dimensions 22"W x 20"H x 11"D  
Weight 45 lbs

### Why use the ClorDiSys Solutions, Inc. gas generators and monitors?

- short cycle times
- does not condense out or breakdown during the process
- precise concentration monitoring
- generates a true gas
- excellent distribution into hard to reach areas
- quick aeration (can literally be minutes)
- does not require tight control of dew point temperatures
- gas concentration feedback to control system
- no down time between cycles
- portable
- rugged and reliable industrial components
- quality construction
- quick connection to chamber
- extremely low residuals
- simple to validate
- complete cycle automation
- easy to use touch screen operator interface
- detailed cycle reporting
- recipe management
- historical and real time trending
- no liquids in process
- quick consumable replacement
- no manual wiping or neutralization
- no concern for condensation as with hydrogen peroxide
- long life span when compared to ozone
- non-carcinogenic
- non-flammable

#### Utility Requirements

120 VAC Power <2A

#### Monitoring Ranges

CD Concentration	0 – 30 mg/liter
RH	10 – 90 % Rh
Temperature	0 – 60 C



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## **Minidox - B** **Chlorine Dioxide Gas Generator**

### **Description**

The Minidox - B Decontamination System is a basic chlorine dioxide gas generation system designed for use in any animal research facility, pharmaceutical, manufacturing, laboratory, or research setting. It provides a rapid and highly effective method to decontaminate a target chamber. The target can be any chamber such as an isolator (sterility test, filling line, containment...), pass through, BSC, processing tank or vessel, clean room, Lyophilizer, etc. The Minidox Decontamination System is portable in design and easily connected to various targets. The process is easy to validate due to the repeatable cycle and tight process control.

An optional steam inject module delivers steam to raise relative humidity to within a specified range.



### **Minidox - B**

Dimensions 30"W x 56"H x 24"D  
(76cm W x 142cm H x 61cm D)  
Weight 230 lbs (104 kg)

### **Why use the Minidox - B gas generators?**

- short cycle times
- does not condense out or breakdown during the process
- sterilization at ambient temperatures
- generates a true gas
- excellent distribution into hard to reach areas
- quick aeration (can literally be minutes)
- does not require tight control of dew point temperatures
- no down time between cycles
- portable
- rugged and reliable industrial components
- quality construction
- quick connection to chamber
- complete cycle automation
- easy to use touch screen operator interface
- no liquids in process
- quick consumable replacement
- no manual wiping or neutralization
- no concern for condensation as with hydrogen peroxide
- long life span when compared to ozone
- non-carcinogenic
- non-flammable

### **Utility Requirements at Point of Use**

- 100 - 240 VAC, 5 amp, single phase

### **Utility Requirements at Consumable Change Out Station**

- 15 cfm, negative pressure exhaust
- 100 - 240 VAC, 5 amp, single phase



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# CD ClorDiSys

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## Minidox - L Chlorine Dioxide Gas Generator

### Description

The Minidox - L Decontamination System is a smaller, more economical chlorine dioxide gas generation system designed for use in any chamber under 300 ft<sup>3</sup> (8.5 m<sup>3</sup>) such as an isolator, incubator, HEPA housing, or a Biological Safety Cabinet (BSC). It provides a rapid and highly effective method to decontaminate a target chamber. The Minidox -L Decontamination System is portable in design and easily connected to various targets. It includes a BSC interface plate, carbon-based scrubber and blower, and required tubing.



### Minidox-L

Dimensions 23"W x 48"H x 24"D  
(58cm W x 122cm H x 61cm D)  
Weight 200 lbs (91kg)



### Why use the Minidox - L gas generators?

- Replacement for formaldehyde
- Generates a true gas
- Excellent distribution into hard to reach areas
- Does not require tight control of dew point temperatures
- No manual wiping or neutralization
- Does not condense out or breakdown during the process
- Non-carcinogenic
- Non-flammable
- Complete cycle automation
- Portable
- Rapid cycle times
- Quick aeration (can literally be minutes)
- No down time between cycles
- Quick connection to chamber
- Sterilization at ambient temperatures
- Easy to use touch screen operator interface
- Quick consumable replacement

### Utility Requirements at Point of Use

100 - 240 VAC, 15 amp, single phase

CD ClorDiSys

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"The Chlorine Dioxide People"

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## **Minidox – M™** **Chlorine Dioxide Gas Generator**

### **Description**

The Minidox - M Decontamination System is a basic chlorine dioxide gas generation system designed for use in any animal research facility, pharmaceutical, manufacturing,



laboratory, or research setting. It provides a rapid and highly effective method to decontaminate a target chamber. The system features a sophisticated sterilant concentration monitoring system to assure a tightly controlled decontamination process. Run data is printed or can be electronically saved with an optional data archiving system. The target can be any chamber such as an isolator (sterility test, filling line, containment...), pass through, processing tank or vessel, clean room, Lyophilizer, BSC, etc. The Minidox Decontamination System is portable in design and easily connected to various targets. The process is easy to validate due to the repeatable cycle, tight process control, and its highly accurate sterilant monitoring system. Small chambers can be fully decontaminated in less than 1.5 hours and rooms can be fully decontaminated in less than 3.5 hours.



### **Minidox - M**

Dimensions 30"W x 56"H x 24"D  
(76cm W x 142cm H x 61cm D)  
Weight 230 lbs (104 kg)

### **Why use the Minidox - M gas generators?**

- short cycle times
- does not condense out or breakdown during the process
- sterilization at ambient temperatures
- generates a true gas
- precise concentration monitoring
- excellent distribution into hard to reach areas
- quick aeration (can literally be minutes)
- does not require tight control of dew point temperatures
- portable
- rugged and reliable industrial components
- quick connection to chamber
- complete cycle automation
- easy to use touch screen operator interface
- documented run report
- quick consumable replacement
- no manual wiping or neutralization
- no concern for condensation as with hydrogen peroxide
- long life span when compared to ozone
- non-carcinogenic, non-flammable
- no liquids in process
- no down time between cycles
- quality construction

### **Utility Requirements at Point of Use**

- 100 - 240 VAC, 5 amp, single phase

### **Utility Requirements at Consumable Change Out Station**

- 15 cfm, negative pressure exhaust
- 100 - 240 VAC, 5 amp, single phase



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07-030 Rev G

# CD ClorDiSys

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**Steridox - Steamer™**

## Chlorine Dioxide / Steam - Combination GMP Sterilizers

### Description

The Steridox-*Steamer* can be operated as a steam sterilizer or CD sterilizer for maximum versatility and use of space. This sterilizer is designed for use in any pharmaceutical, manufacturing, laboratory, research or surgical setting. It provides a versatile, rapid and highly effective method to sterilize medical devices, sterile products, instruments, and components at either ambient or steam temperatures.

The sterilizer utilizes a rugged industrial control system. It features a sophisticated CD sterilent concentration monitoring system to assure a tightly controlled sterilization process facilitating parametric release. All instrumentation, including the photometer for concentration monitoring, is easily calibrated to traceable standards. The process is easy to validate due to the repeatable cycle, tight process control, and highly accurate sterilent monitoring system.

A run record is produced that contains: date, cycle time, cycle steps, as well as temperature, pressure, and chlorine dioxide concentration.

The sterilizer is available in a variety of sizes to meet your processing needs. Automated sliding doors are standard. The chamber and doors are constructed of 316L stainless steel to provide an exceptionally long life. The unit is enclosed in stainless steel, easily removable panels.

The process is non-explosive allowing for inexpensive installations.



### Why use the Steridox-*Steamer* sterilizer?

#### CD Features

- Sterilization at ambient temperatures
- Uses a true gas
- precise concentration monitoring
- excellent distribution into hard to reach areas
- quick aeration (can literally be minutes)
- gas concentration feedback to control system
- does not require tight control of dew point temperatures
- does not condense out or breakdown during the process
- extremely low residuals
- rapid aeration when compared to ethylene oxide
- quick consumable replacement
- no concern for condensation as with hydrogen peroxide

#### Common Features

- no down time between cycles
- short cycle times
- rugged and reliable industrial components
- quality construction
- simple to validate
- complete cycle automation
- easy to use touch screen operator interface
- detailed cycle reporting
- recipe management
- historical and real time trending
- no liquids in process
- non-carcinogenic
- non-flammable
- no need for Damage Limiting Construction (DLC)



### Options:

Chamber Size:	Standard Sizes: 16" x 16" x 26"D, 20" x 20" x 38"D; 26" x 26" x 39"D Custom sizes up to 1000 cubic feet
Door Style:	Single or Double Power Operated Door
Humidification Steam:	House Supplied or Integral with Sterilizer
Fascia:	Recessed (flange) style or Cabinet style
Rack/Loading options:	Multi-position Rack; Extendable Shelves; Single Shelf; Loading Car; Transfer Carriage



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# ClorDiSys

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**Steridox – VP™**

## Chlorine Dioxide GMP Sterilizers

### Description

The Steridox-VP CD Sterilizers are designed for use in any pharmaceutical, manufacturing, laboratory, or research surgical setting. They provide a rapid and highly effective method to sterilize medical devices, sterile products, instruments, and components at ambient temperatures. The sterilizer utilizes a rugged industrial control system. It features a sophisticated sterilant concentration monitoring system to assure a tightly controlled sterilization process facilitating parametric release. All instrumentation, including the photometer for concentration monitoring, is easily calibrated to traceable standards. The process is easy to validate due to the repeatable cycle, tight process control, and highly accurate sterilant monitoring system. A run record is produced that contains: date, cycle time, cycle steps, as well as temperature, pressure, and chlorine dioxide concentration.

The sterilizer is available in a variety of sizes to meet your processing needs. Automated sliding doors are available. The chamber and doors are constructed of 316L stainless steel to provide an exceptionally long life. The unit is enclosed in stainless steel, easily removable panels.

The process is non-explosive allowing for inexpensive installations.



### Why use the Steridox- VP gas sterilizer?

- Sterilization at ambient temperatures
- short cycle times
- precise concentration monitoring
- Uses a true gas
- excellent distribution into hard to reach areas
- quick aeration (can literally be minutes)
- gas concentration feedback to control system
- no down time between cycles
- does not require tight control of dew point temperatures
- does not condense out or breakdown during the process
- extremely low residuals
- rugged and reliable industrial components
- quality construction
- simple to validate
- complete cycle automation
- easy to use touch screen operator interface
- detailed cycle reporting
- recipe management
- historical and real time trending
- no liquids in process
- quick consumable replacement
- rapid aeration when compared to ethylene oxide
- no concern for condensation as with hydrogen peroxide
- non-carcinogenic
- non-flammable
- no need for Damage Limiting Construction (DLC)

### Options:

Chamber Size:	Standard Sizes: 16" x 16" x 26"D, 20" x 20" x 38"D; 26" x 26" x 39"D 40.64cm x 40.64cm x 66.04cm D, 50.8cm x 50.8cm x 96.52cm D, 66.04cm x 66.04cm x 99.06cm D Custom sizes up to 1000 ft <sup>3</sup> (28.3 m <sup>3</sup> )
Door Style:	Single or Double Power Operated Door
Humidification Steam:	House Supplied or Integral with Sterilizer
Fascia:	Recessed (flange) style or Cabinet style
Rack/Loading options:	Multi-position Rack; Extendable Shelves; Single Shelf; Loading Car; Transfer Carriage
Multi-process:	Optional units that can sterilize by either steam or CD are available



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