

TBS Technologies LLC

Breakthrough Technology. Portable. Powerful. Practical

TBS-1080 Chlorine Dioxide Gas Decon System Overview

An Alternative to Paraformaldehyde

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BioNet

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Chlorine Dioxide Gas – ClO₂

- Known to be **effective for 50+ years**
- **Internationally Recognized** for many disinfection applications
- **Inactivates** all forms of **micro-organisms, viruses** and spores
- **Compatible** with most materials
- **No Cleanup Required** after decon vs other methods
- **Must be generated on site**

The TBS-1080 CD Gas Generating System

- ✓ Fits inside a BSC for safety
- ✓ Smaller, lighter, portable
- ✓ Easy to use
- ✓ Economical
- ✓ Two stage safe start
- ✓ Prepackaged reagents
- ✓ Meets NSF Standard 49
- ✓ No Cl_2 gas used or created
- ✓ “Green” refillable/ reusable chemical cartridges



Prepackaged Reagents for 60ft³ and 90ft³ BSCs

- **NO Chemical Handling**
- Cartridges are **KEYED** – can only fit in one orientation
- **Automated and Safe Transfer** of reagents



The cartridges are reusable.
After use, they are sent back for re-filling and reuse.

High Level Disinfection

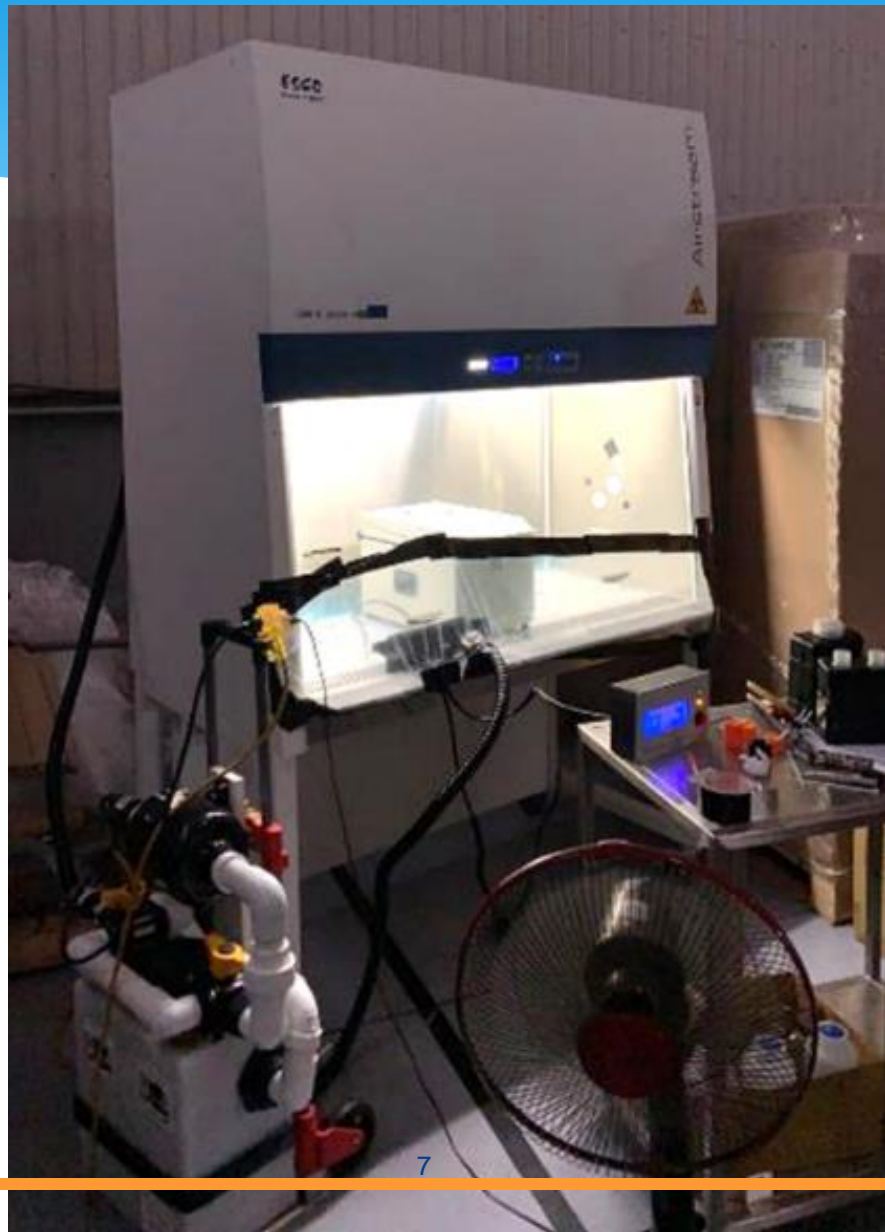
- **6 log reduction** of *Bacillus atrophaeus* spores (surrogate for *Bacillus anthracis* (*anthrax*))
- **Very high standard** - especially for BSCs that fall under FDA regulations.
- **Meets or exceeds** NSF Standard 49 “Fixed Mass” disinfection of BSCs

Chlorine Dioxide Gas Removal Using TBS Carbon Scrubbers



**Choice of carbon scrubbers – with or
without recirculation**

TBS-1080 in Use with Scrubber



TBS Features

- * Automated, Portable, Light weight
- * Meets NSF Standard 49 Fixed Mass CD Gas Decon
- * Cost Effective
- * Safe One-Button Two Stage Start
- * Reusable Chemical Cartridges (“green”)
- * No Chlorine Used or Generated
- * Keyed Chemical Cartridges – Only Fit One Way
- * Fits Inside Decontamination Area
- * Automated Neutralization of Reaction Mixture
- * Easy Gas Removal After Decon

TBS Advantages

- **Safer and Easier to use**
- **Smaller, portable and less expensive than current products**
- **Fits inside the bio-containment area**
- **NO cleanup required after decontamination**
- **“Green” technology; reusable/refillable chemical cartridges**

TBS Benefits

- * Safer Operation
 - * automated chemical transfer
 - * no chemical handling or measurement
- * High Level Disinfection with CD Gas (6 log)
- * Saves Time for Decons (< 3hours)
 - * no cleanup after decon is done
- * Low Operational Cost per Decon
- * Simplicity = Minimal Operator Training

**Request a Zoom Call for More
Information**

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