

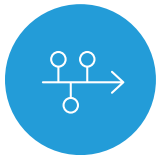
The Liquid CO₂ Sterilization Solution

Clean, Disinfect, and Sterilize
with one simple process



COST REDUCTION

Shorter sterilization process, just 1 hour cycle time vs 8-10 hours for VHP.



SUPPLY CHAIN IMPROVEMENT

Done in-house, no need to outsource or ship your products for sterilization. Control of your volumes and handling capacity.



SUSTAINABILITY

Recycled CO₂ reduces energy and resource waste associated with chemical process. Does not use carcinogenic chemicals like Ethylene Oxide (EtO) or radioactive Cobalt.

Environmentally safe and performance-effective alternative to Ethylene Oxide (EtO) or 60Cobalt based Gamma radiation for sterilization.

State-of-the-art technology meets environmentally friendly in the Cool Clean LCO₂ sterilization system. Unlike traditional sterilization methods, our LCO₂ sterilization system sterilizes in a sustainable and healthy manner without impact on operators or environment. The odor-free liquid CO₂ sterilization method is compatible with sensitive new medical device products.



There are significant economic advantages that the LCO₂ sterilization system by Cool Clean Technologies using liquid carbon dioxide technology, including short cycle times, a cool operating temperature, less machine maintenance, and uses non-radiation based technologies throughout the sterilization process.

Cool Clean's LCO₂ sterilization system can be placed almost anywhere, since there are no zoning restrictions or environmental regulations associated with non-toxic CO₂. Additionally, there are no problems with ground water contamination, waste disposal, or regulatory paperwork. Best of all, your customers will experience superior quality while knowing the process is environmentally friendly.



Harnessing the power of CO₂ & hydrogen peroxide to achieve 6-log sterilization.



- Sterilization takes place inside 21.5 ft³ chamber
- Liquid CO₂ used as the carrier to transport the sterilant
- H₂O₂ is injected into the chamber and mixed with CO₂
- Reaction takes place inside breather bag and any residual material evaporates at the end of the cycle
- Approximately 1 hour cycle time
- 3 hours for a sterile certification (vs 3-4 days for ETO)
- 98% of the CO₂ is recycled and used again

Global Manufacturing / Sourcing:
USA, Asia, Europe

Global Sales and Distribution:
USA, Canada, Mexico, Asia, Europe

Sales and Service Support:
North America, Europe, China, India, Vietnam, Korea,
Singapore, Taiwan, Thailand, Malaysia, Philippines, Japan

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