SUSTAINABILITY IMPACT

TotalCare®

LION TOTALCARE REDZONE℠ CO_2 CLEANING

Redefining Excellence at Every Step

LION's advanced cleaning goes above and beyond conventional cleaning methods, removing, on average, 98% of the most harmful contaminants to PPE gear without relying on water and without using the harsh chemicals and substances other methods typically use.

How We're Different

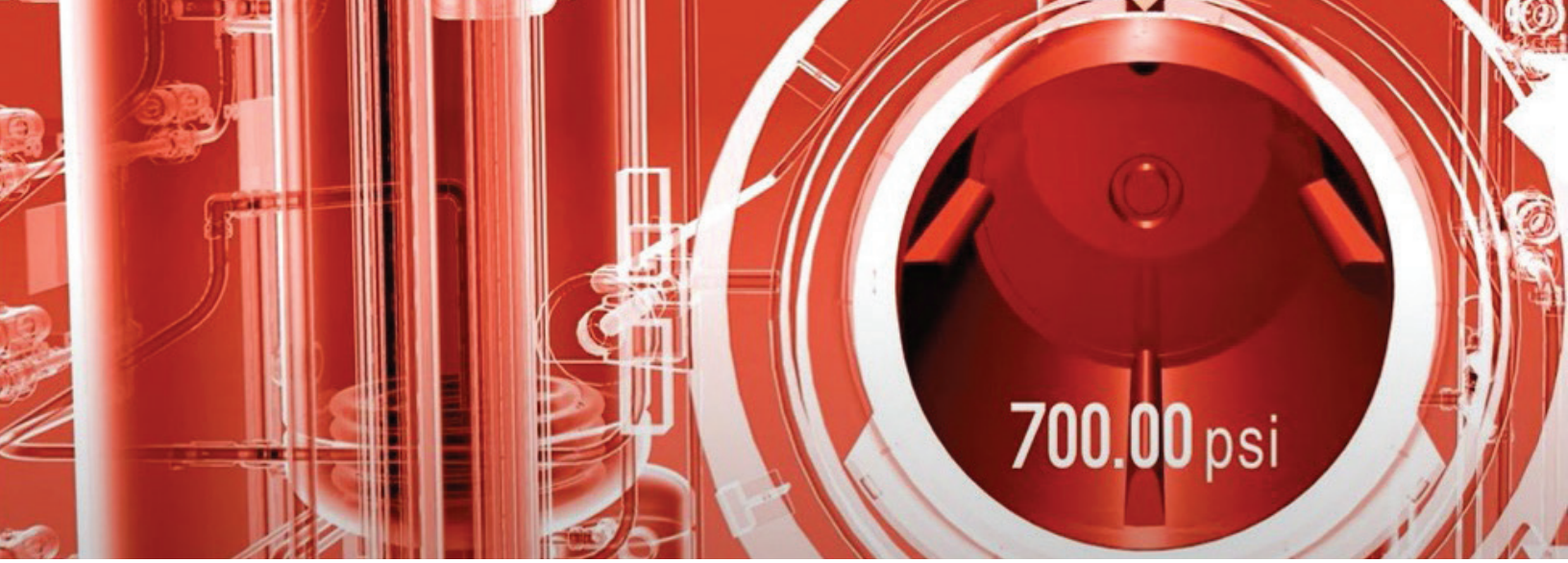
With **state-of-the-art machinery and patented technology,** our cleaning process is equipped with a high-pressure, proprietary pump that enables constant cleaning of the liquid CO_2 during the wash cycle, allowing for deeper penetration with a two-stage filtration process that removes >= 5 microns* and ensures cleanliness.

** talcum powder particle size equivalent*

How It Works

- Uses liquid Carbon Dioxide (CO_2) as its main cleaning fluid, with no more than 2% (by volume) of additives or detergents
- Doesn't require the use of a vacuum pump for distillation or vessel evacuation, eliminating the risk of cross contamination between loads
- Uses purified CO_2 for each bath—a typical cycle for advanced cleaning consists of 4 baths
- Circulates high volumes of liquid CO_2 from the cleaning vessel and through a filter, enabling constant cleaning of liquid CO_2 during each wash cycle

RedZone CO_2 cleaning is a verified NFPA 1851 cleaning process with LION TotalCare, a verified ISP.



Satisfied Customers

U.S. fire departments using RedZone CO_2 cleaning include:

- Marin County (CA) Fire Department
- Houston (TX) Fire Rescue
- Boulder (CO) Fire Rescue
- Orange County (CA) Fire Authority
- Loudoun County (VA) Fire Rescue
- Jacksonville (FL) Fire and Rescue Department
- And more

We're helping our departments better protect their firefighters and also preserve valuable resources.

– Mark Smith, *CEO, LION Safety Solutions*

Other Notable Facts

Extended gear life and cost savings due to reduced gear condemnation.

In 2024, RedZone CO_2 cleaning ***saved over $750K*** of gear in the U.S. from being condemned.

Reclamation, purification and **reuse of 95% of sourced CO_2 from local ethanol and ammonia production facilities**.

CO_2 that goes through the cleaning vessel is captured back into our system and reused on the next cycles, leaving ***only 5% of the CO2 unclaimed***.

Does not use water—***the CO_2 molecular structure is 1/10th the size of a water molecule***.

This enables penetration through PPE, ensures cleanliness and leaves garments fully dry when finished.

Let's Talk Sustainability

For more information, visit **https://www.lionprotects.com/redzoneco2**

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