



Carbon Dioxide Requirements and Declaration

Based on the 2018 Edition of the International Fire Code

Carbon Dioxide is an asphyxiant gas and is regulated by the Fire Code when amounts are at or greater than one hundred pounds.

Restaurants. Fast Food. Convenience Stores. Theaters. Entertainment Venues. Bars-Taverns. Theme Amusement Conversions



PRODUCT NAME	Cubic Feet/Pound	Pounds/Gallon	Cubic Feet/Gallon
Carbon Dioxide (CO ₂) CAS: 124-38-9	8.74	8.46	73.94

CO₂ System



DO YOU HAVE CARBON DIOXIDE FOR BEVERAGE DISPENSING OR OTHER USE?

YES NO

If YES, then list the number of containers _____

What is the size of each container (pounds) _____?

What is the **Total Quantity** (pounds) _____?



IS YOUR STORAGE INDOOR – WITHIN THE BUILDING? YES NO

If a CO₂ system and storage is exterior of the building, refer to the guidance document for exterior CO₂ storage on the LVFD website at: <http://www.lowervalleyfire.org> *Note: Interior use locations and associated piping may require gas detection/emergency alarms.*

If your carbon dioxide system includes one or more containers of 100 pounds to 1,000 pounds, then compliance with one of the following options is required. Check all that apply. Complete and return this form with your plan set to the LVFD Fire Marshal. Plans shall reflect the chosen method(s), and CO-2 and all compressed gas storage locations.

- Demonstrate that existing ventilation system meets ventilation requirements in accordance with the 2018 IMC 502.8.1, 502.8.1.1; 2018 IFC 5004.3, 5005.1.9.
- Provide new or re-design of ventilation for review that complies with 2018 IMC 502.8.1, 502.8.1.1; 2018 IFC 5004.3, 5005.1.9.
- Install a listed CO₂ Emergency Alarm System in accordance with the 2018 IFC - Paragraph 5307.3; and Section 916.
- Provide both, ventilation design that complies with the 2018 IMC 502.8.1, 502.8.1.1; 2018 IFC 5004.3, 5005.1.9 Requirements, and install a CO₂ Emergency Alarm System.

Facility Name: _____ Address: _____

Owner/Operator Name (print) _____ Date: _____