

# Carbon Dioxide Requirements and Declaration

Based on the 2012 Edition of the International Fire Code

**Carbon Dioxide is considered an asphyxiant gas.**  
It is regulated by the Fire Code when amounts are at or greater than 100 pounds.

**Restaurants.FastFood.Convenience Stores.Theaters.Entertainment Venues.Bars.Taverns.Theme Amusement**

## Conversions



CO<sub>2</sub> System



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



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

## OUTDOOR

If a CO<sub>2</sub> system and storage is exterior of the building, refer to the guidance document for exterior CO<sub>2</sub> storage on the GJFD website at: <http://www.gjcity.org/FirePrevention.aspx>

## INDOOR

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

- Demonstrate that existing ventilation system meets ventilation requirements in accordance with the 2012 IMC 502.8.1, 502.8.1.1; 2012 IFC 5004.3, 5005.1.9.
- Provide new or re-design of ventilation for review that complies with 2012 IMC 502.8.1, 502.8.1.1; 2012 IFC 5004.3, 5005.1.9.
- Install a listed CO<sub>2</sub> Emergency Alarm System in accordance with the GJFD Policy 2016-1 Refer to GJFD website at: <http://www.gjcity.org/FirePrevention.aspx>
- Provide both, ventilation design that complies with the 2012 IMC 502.8.1, 502.8.1.1; 2012 IFC 5004.3, 5005.1.9 Requirements, and install a CO<sub>2</sub> Emergency Alarm System.

Facility Name: \_\_\_\_\_

Address: \_\_\_\_\_

Date: \_\_\_\_\_

Owner/Operator Name (print)

