

Carbon Dioxide (CO₂) Hazards & Carbonated Beverage Systems

Be aware of the risks!!!



Sources of CO₂ poisoning that may result in employee injury or death:

- Improperly installed or maintained carbonated beverage systems;
- CO₂ storage containers not properly vented to a well-ventilated area outside of the building;
- Leaking fittings, connections, piping/tubing/hoses, or storage container plumbing;
- Leaking carbonators, syrup pumps, bag in box (BIB) racks, any equipment using CO₂; and
- Leaking beer keg connections and equipment.

Warning signs & monitoring devices are recommended



Do you have one of these?

Your CO₂ tank is required to be inspected

**COMMONWEALTH OF VIRGINIA
DEPARTMENT OF LABOR AND INDUSTRY
BOILER SAFETY COMPLIANCE PROGRAM
CERTIFICATE OF INSPECTION**

Date of Insp 08/15/2006
Expires 08/15/2007

Location Blr Rm
This certifies that the equipment described herein has been inspected and may be operated at the designated location at a pressure not to exceed that shown.

Type Equipment Fire Tube Boiler	VA Number VA234567	NB Number 987654	Year Built 2006	Manufacturer Burge Boiler
Allowable Pressure 150	Safety Valve Set 150	Inspection Company Commonwealth of Virginia		

Boiler Owner/User
123 Any Street
Any Town, VA 23456

Object Located At:
Boiler Owner/User
123 Any Street
Any Town, VA 23456

Post this certificate in a conspicuous and protected place near the equipment. May be revoked for failure to keep equipment in safe condition or nonpayment of certificate fee.
954004182

C. Ray Davenport
Commissioner

- CO₂ in gaseous state is colorless, odorless & not easily detectable
- CO₂ is heavier than air and will accumulate in low areas
- CO₂ should not be stored in improperly ventilated or unventilated rooms
- High concentrations can result in death in <15mins

For more questions/information contact:

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CO₂ MONITORING AREA NOTICE

Carbon Dioxide Monitors for general area monitoring (not employee personal exposure monitoring) are provided in this area. These monitors are set to alarm at 0.5% concentration (5,000ppm) for the low level alarm and at 3% (30,000ppm) for the high level alarm.

Low Level Alarm (0.5% CO₂) – Provide appropriate cross ventilation to the area. Personnel may enter area for short periods of time (not to exceed 15 minutes at a time) in order to identify and repair potential leaks.

High Level Alarm (3% CO₂) – Personnel should evacuate the area and no one should enter the affected area without proper self-contained breathing apparatus until the area is adequately ventilated and the concentration of CO₂ is reduced below the high alarm limit.