



Industrial Freezer Sales

A division of IDS

5311 Derry Avenue Building D Agoura Hills CA 91301

Phone (818) 597-4300 Fax (818) 597-4301

www.freezerlink.com

INSTRUCTIONS FOR USING BUILT-IN CO2 SYSTEM

EXTREME COLD! COVER EYES AND SKIN!

CO₂ is a colorless gas with a sharp pungent odor in concentrated form and a slight acid taste. It can be detected in concentrated form by the normal human senses. It does not support combustion. CO₂ is non-life supporting, therefore keep the equipment area well ventilated. **KEEP EQUIPMENT AREA WELL VENTILATED. IT CAN CAUSE ASPHYXIATION IN A CONFINED AREA WITHOUT ADEQUATE VENTILATION. ANY ATMOSPHERE WHICH DOES NOT CONTAIN ENOUGH OXYGEN FOR BREATHING CAN CAUSE DIZZINESS, UNCONSCIOUSNESS, OR EVEN DEATH.**

Because CO₂ is about one and one half times the weight of air, the gas will settle to the lower part of the enclosures.

Accidental contact of Liquid CO₂ or cold issuing gas with skin and eyes may cause a freezing injury similar to a burn. Protect your eyes and cover the skin where the possibility of contact with the liquid, cold pipes, and cold equipment, or cold gas exists. Safety goggles or a face shield should be worn.

The CO₂ back up system is designed to shield and divert the liquid CO₂ away from the normal position in which you would stand, nevertheless always use the utmost safety precautions when it is connected and in use.

There is a switch in the lid to prevent the liquid CO₂ from being induced into the freezer when the lid is open, but the best safety program is to close the liquid CO₂ valve when reaching into the cabinet, then open the valve when the lid is closed. Always use clean insulated gloves that can be easily and quickly removed, and long sleeves are recommended for arm protection.

When using CO₂, it is necessary that the freezer be equipped with a cryogenic high pressure solenoid valve. Be sure to use a high pressure hose from the CO₂ bottle to the valve. You will need to provide a CO₂ container with a drop pipe for liquid CO₂ or invert container without a drop pipe.



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Connect the high pressure hose from the liquid CO₂ bottle to the solenoid valve on the rear of the freezer using an 1/8" MPT to 1/4" flare stainless steel fitting.

Set the liquid CO₂ temperature controller at the desired temperature for CO₂ refrigeration (-100 deg F or -73 deg C is the lowest temperature attainable with CO₂).

For economical use of CO₂, set the electric control a few degrees warmer than the normal freezer operating temperature and at the highest temperature permissible to preserve your product.

After the freezer cabinet has reached the temperature set by the digital controller, the CO₂ container valves may be opened. In the event of electrical failure or mechanical failure, the stand-by system should be energized when the cabinet temperature raises to the point set on the liquid CO₂ controller.

The alarm will sound in the event of power failure, rise in temperature, and when operating on the stand-by system.

COMMON ISSUES: No CO₂ (Bottle Empty) in Bottle, Valve Closed, Lid Switch Contacts open, Valve Not Operating Battery Discharged.

*If CO₂ will not shut off : Valve Failure – Stuck Open Lid Switch contacts closed