

# HiCap™ CO

Moleculite® carbon monoxide large absorber cartridge



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## Introduction

The HiCap™ CO large scale absorber cartridge is for the removal and control of toxic carbon monoxide (CO). The units are designed to seal against the base plate cut-out of fan driven air supply equipment.

**DO NOT remove the top and base blue seals until immediately before the unit is to be used.**

## Operating instructions: carbon monoxide (CO)

1. Remove the top and base blue seals by easing the retained clips off the top and base of the units, starting at one edge. This will also tear the tamper evident seal and show that the unit has been opened.
2. Check that the base seal is in place and intact, then place the unit onto the base unit aperture(s).
3. **Warning: all the base (fan) unit apertures must have cartridges installed for correct operation.** If the base unit has more than one aperture ensure all the apertures are covered with installed cartridges. Use an exhausted cartridge if there are no fresh units available.
4. Start the airflow through the cartridge(s) – refer to the systems operating procedure.
5. In a multi-aperture base unit, if some units are exhausted and fresh ones are not available, the exhausted units should be left in place. Used HiCap™ CO will continue to remove trace (<50ppm) concentrations of carbon monoxide for some time after the specified performance period, so can be left in service provided power is available for this purpose.
6. If the top and base seals are replaced on used units (to facilitate storage), then they should be stored in such a way that the tamper evident seal (showing open/void), is clearly visible to prevent re-use of exhausted units.

Sufficient cartridges need to be available to provide carbon monoxide control from the highest expected concentration down to safe levels in an acceptable time. Self-contained respirator sets may be required to maintain clean breathing air for the time that the carbon monoxide is being removed. Refer to the HiCap™ CO user manual or equipment manufacturer's manual for correct use of the system.

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1 of 2

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## Storage, maintenance and condition checks

The units do not require any maintenance in storage, but do need to be stored in such a way that the top and base seals remain intact to prevent moisture or contamination entering the unit.

- The units need to be handled and stored under conditions that prevent damage to the blue top and base seals.
- The units should be stored between 0 – 35°C (not frozen), out of direct sunlight and protected from wet conditions.
- Each unit is marked with a label on the outside of the unit that shows the original packed weight of the unit. If the weight changes by more than the weight allowed and shown on the label, then unit should be replaced.
- Used or time expired units should be segregated from unused fresh units to avoid inadvertent re-use.

The units gain weight due to moisture adsorption (approximately 1kg) in normal use. Therefore, if a unit is weighed, the label on the side of the cartridge can be used to check if units have been used after it has been removed from its original packaging.

## Conditions of use and limit of liability – HiCap™ CO – Moleculite® filled large absorber cartridge

The units are designed to be used as part of a purpose built air purification system that can operate within the documented design parameters. No liability or guarantee of performance can be accepted for units operated outside these conditions.

The performance is guaranteed only if the units are used and stored within the declared operational limits set by the manufacturer and documented in the HiCap™ CO user manual.

The units are supplied with tamper evident seals. The blue top or base seals must not be removed until the unit is required for use, as the unit absorbs water from the atmosphere that will slowly reduce its CO removal performance. The performance of units that have been opened, but not used, for more than a few hours in a moist environment cannot be guaranteed or predicted.

Units with damage to the blue top or base seals should not be used. The units are supplied with a weight check and weight tolerance label that allows the user to establish if the units have remained sealed prior to use. The use of units that have failed this weight check requirement, or that have damaged packaging, cannot be guaranteed by the manufacturer as the performance may be affected.

The way that the units are used is the responsibility of the user and/or the facility operator. It is strongly recommended that the facility operator should carry out a risk assessment of the way in which the unit(s) is to be used before they are deployed.

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2 of 2