

Global Ripening

Controlled Atmosphere Ripening™

170 Foxcatcher Lane
Media, PA 19063 USA







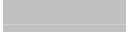



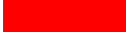
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The Unrealized Dangers of Carbon Dioxide Accumulation During Ripening

Ripening rooms, especially when gassing with ethylene, can reach extremely high levels of carbon dioxide (CO²). In a test in Seattle, WA, in 2005, CO₂ in a ripening room was measured at 10%.

CO² affects humans in a number of ways and as the table below shows levels as low as 2% have a significant effect on our bodies.

A CO² sensor can help protect the health and safety of ripeners.

1000ppm	0.1%		Prolonged exposure can affect powers of concentration
5000 ppm	0.5%		The normal international Safety Limit
10,000ppm	1%		Your rate of breathing increases very slightly but you probably will not notice it.
15,000ppm	1.5%		The normal Short Term Exposure Limit.
20,000ppm	2%		You start to breathe at about 50% above your normal rate. If you are exposed to this level over several hours you may feel tired and get a headache.
30,000ppm	3%		You will be breathing at twice your normal rate. You may feel a bit dizzy at times, your heart rate and blood pressure increase and headaches are more frequent. Even your hearing can be impaired.
40,000-50,000ppm	4-5%		Now the effects of CO ₂ really start to take over. Breathing is much faster - about four times the normal rate and after only 30 minutes exposure to this level you will show signs of poisoning and feel a choking sensation.
50,000-100,000ppm	5-10%		You will start to smell carbon dioxide, a pungent but stimulating smell like fresh, carbonated water. You will become tired quickly with labored breathing, headaches, tinnitus as well as impaired vision. You are likely to become confused in a few minutes, followed by unconsciousness.
100,000ppm-1,000,000ppm	10-100%		Unconsciousness occurs more quickly, the higher the concentration. The longer the exposure and the higher the level of carbon dioxide, the quicker suffocation occurs.
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