

Carbon dioxide is a chemical compound with the chemical formula CO<sub>2</sub>. It is made up of molecules that each have one carbon atom covalently double bonded to two oxygen atoms.

The more CO<sub>2</sub> there is available in the environment, the faster the rate of photosynthesis will be up to a certain limit. When the CO<sub>2</sub> concentration is low, it can limit the rate of photosynthesis as the rate of CO<sub>2</sub> uptake is slower. Increasing CO<sub>2</sub> levels beyond the optimal level will not increase the rate of photosynthesis further, but it can lead to other issues such as reduced stomatal conductance and water loss, ultimately leading to decreased plant growth and yield.

## CO<sub>2</sub> THE DIFFERENCE MAKER.

Plant cells only make use of CO<sub>2</sub> during light exposure. When increasing the CO<sub>2</sub> levels, it is necessary to also increase water, nutrients, and light proximity to plants. The presence of CO<sub>2</sub> enables the plant to grow at a faster rate than it would in an unaltered environment. The stomata (the porous openings of the plant) take in the CO<sub>2</sub> that is available and release water vapor when open. When increasing CO<sub>2</sub> levels, the stomata do not open as widely due to high availability thus producing less water vapor. This creates a stronger and more resistant plant structure.

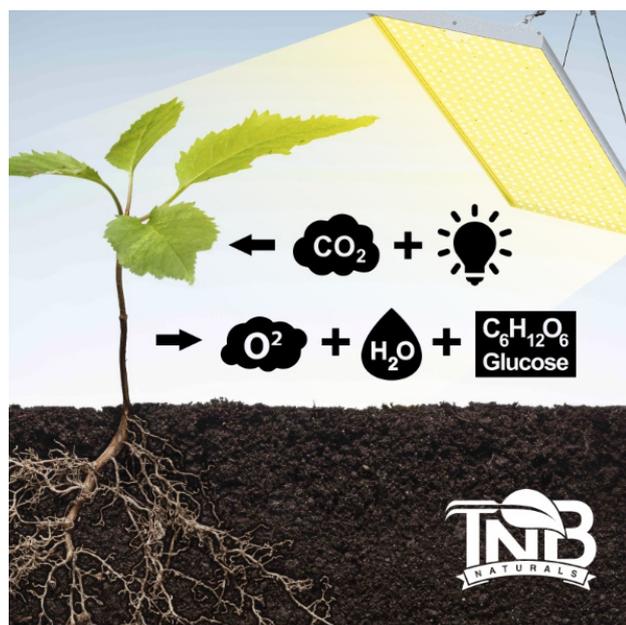
### INTEGRATING CO<sub>2</sub>

In an unaltered environment, a plant will be exposed to an atmosphere containing 390-400 parts per million (ppm) of carbon dioxide. A plant will not grow or thrive in environments with less than 300 ppm in its atmosphere. When modifying the growing environment to increase the yield of your plants, a grower will increase their CO<sub>2</sub> up to 2,000 ppm. Although, the recommended CO<sub>2</sub> level is 1,200-1,500 ppm. You can relate elevating CO<sub>2</sub>

levels to natural steroids- the plants can only sustain so much growth over a shortened amount of time before the plant experiences tissue damage and no longer produces a desirable product. Higher CO<sub>2</sub> levels create a more compact cellular structure in the plant that yields a denser and bigger product.

Add CO<sub>2</sub> with The Enhancer natural CO<sub>2</sub> generator by TNB Naturals.

An easy-to-use product that increases plant health and yield from 30-50%.



## The Enhancer

Set Up Instructions

### TNB CO<sub>2</sub> Dispersal Canister



Activate by adding one litre of lukewarm water.

Place lid back on, remove sticker, cover hole & shake.



Hang slightly above the canopy and CO<sub>2</sub> (being a heavier gas) will cascade down over the plants.

Place an oscillating fan in front or behind the bottle to evenly spread the CO<sub>2</sub> around the room.



If exhausting, place The Enhancer as far away from the vent as possible.

