

# ABOUT ECO<sub>2</sub>MIX

ECO<sub>2</sub>MIX offers comprehensive equipment and supply capability aimed at replacement of sulfuric acid or sulfur burners for pH control of irrigation water systems.

The use of an ECO<sub>2</sub>MIX system is a safer alternative to sulfuric acid as it utilizes dissolved carbon dioxide gas to reduce the pH of irrigation water. The carbon dioxide is dissolved in the irrigation water forming carbonic acid and reducing water pH depending on the inlet water quality and alkalinity.

## WHY CHANGE TO AN ECO<sub>2</sub>MIX PH CONTROLLER

### It's a more cost-effective option

While sulfuric acid needs to be handled by trained employees and proper protective equipment which maintenance is often expensive, ECO<sub>2</sub>MIX delivers and stores on site a series of liquid carbon dioxide cylinders. As the carbon dioxide is injected as a pressurized liquid and converted to gas, there are no pumps involved in the system.



### What is glomalin (soil glue)

*Glomalin is what distinguishes a good soil from a bad one. Produced by Arbuscular mycorrhizal fungi, it attaches to particles of minerals (sand, silt, and clay) and organic matter, forming clumps. This type of soil structure is stable enough to resist wind and water erosion, but porous enough to let air, water, and roots move through it. It also harbors more beneficial microbes, holds more water, and helps the soil surface resist crusting.*



### It's safer

Sulfuric acid is toxic and harmful to human health. It is corrosive to all tissues in the human body (lungs, skin, eyes) and can cause immediate burns and irreversible damage in some circumstances.

With ECO<sub>2</sub>MIX the carbonic acid formed is not capable of generating a pH as low as can be achieved with sulfuric acid, so corrosion risks, personnel exposure risks, and plant health risks are much lower than with sulfuric acid.



### Improves soil quality

Recent studies from the University of California at Riverside and Stanford University showed that higher CO<sub>2</sub> levels in the soil stimulate the production of glomalin. The increase in glomalin production helps soil build defenses against degradation and erosion and boosts its productivity.

Also, fields irrigated with ECO<sub>2</sub>MIX treated water have demonstrated an abundance of earthworms, leading to improved soil aeration, better moisture penetration and higher soil organic content.





**CONTACT US TO LEARN MORE**

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Discover the eco-friendly solution to reduce pH in your irrigation water.