

Now being **GREEN** is a whole lot easier!


genesis
ACO₂



Introducing...

GENESIS ACO₂ System

pH Control System



The Greener Solution

Anterra Group has developed a patent-pending application method designed to utilize carbon dioxide to optimize chlorine in fruit and vegetable wash systems. The Genesis ACO₂ System replaces conventional food grade acids such as citric with CO₂ a safer, greener and less costly approach

to control pH in chlorine or surfactant based wash systems.

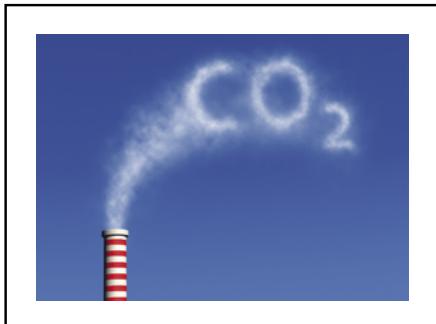
Applications/Benefits

Genesis ACO₂ was designed for pH control in fruit and vegetable wash systems including dip tanks, chillers, hydrocoolers, process flumes and spray bars. Genesis ACO₂ can be readily applied to once through or recirculating wash systems. Genesis ACO₂ is an easy to handle and apply gas system that is food grade, tasteless and colorless, low foaming, meets organic standards and eliminates low pH excursions (cannot be overfed, buffers at pH 5.5). The Genesis ACO₂ System is extremely cost effective, reducing costs of citric acid based applications up to 30%. Genesis ACO₂ has been shown to maintain a more consistent pH which ultimately improves chlorine efficacy. Genesis ACO₂ can be controlled and monitored with traditional pH control methods.



Environmental Advantages

Carbon dioxide is produced primarily from the burning of fossil fuels (hydrocarbons). This process produces an estimated 21.3 billion tons of carbon dioxide per year. Carbon dioxide is one of the greenhouse gases that contribute to global warming. The Genesis ACO₂ System converts carbon dioxide to carbonic acid in the wash system reusing a waste product and removing a greenhouse gas from the environment. Genesis ACO₂ greatly reduces solids discharge and electro-conductivity (EC). pH neutralization of waste streams is rarely necessary.



Properties/Benefits

- Easy to use gas system. Can be readily applied to flumes, dip tanks, or spray bars.
- Cannot be overfed, will only reduce pH to approximately 5.5.
- Gas is colorless, tasteless, food grade and meets organic standards.
- Improves chlorine efficacy.
- Easily controlled by standard pH control methods.
- Cost effective, savings of up to 30% can be realized over citric acid based systems.
- Reduces solids discharge and EC.
- Non-corrosive to most common metals.
- Completely biodegradable will not harm waste water systems.
- Can be used in conjunction with chlorine or food grade surfactants.

The Anterra Commitment

AnTerra Group is a leading supplier of sanitation products and process solutions to the food and beverage, fruit and vegetable processing, egg and poultry, meat, dairy, and pet foods industries. AnTerra delivers value through integrated comprehensive solutions that improve product quality, minimize risk of contamination, optimizes labor utilization, reduces operational costs and extending equipment life. Our approach to cleaning and sanitation is to provide customers with safe, secure, highly efficient programs which can grow and change with each individual customers expanding needs. AnTerra provides products and technical services from the field to the home.

AnTerra is the foremost developer of products and technologies in the fruit and vegetable processing industries both conventional and organic production and treatment of vegetable flume wash water treatment based on numerous microbiological oxidants including chlorine, chlorine dioxide, ozone and peracetic acid. As an AnTerra customer, you can rely on a company keeping the promises, the others make and continuing to deliver bottom line profits through proactive customer relations.



AnTerra supplies a comprehensive line of cleaning and sanitation products and services to a diverse industrial marketplace. These include fruit and vegetable, egg, meat and poultry, juice and beverage, farming, pet food and dairy. AnTerra can develop programs that provide reliable and efficient methods for maximizing food safety and protection all of which add up to value.

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Liquid and Powdered Alkaline Cleaning and Sanitation Products:

- High Alkaline Recirculating CIP Cleaners
- High Alkaline Boil Out Cleaners
- Alkaline, Chlorinated Foam Cleaners
- Alkaline, Recirculating Chlorinated CIP Cleaners
- Mild Alkaline Cleaner/Degreasers

Liquid Acid Cleaning and Sanitation Products:

- Passivating Acids
- Acid Recirculating CIP Cleaners
- Foaming Acid Cleaners

Sanitizer Products:

- Peracetic Acid
- Quaternary Ammonium Chloride
- Acid Anionics
- Sodium Hypochlorite
- Chlorine Dioxide

Specialty Products:

- Fruit Wash (Surfactant, Alkaline, Oxidant and Acid Based)
- Egg Cleaners
- Conveyor Lubricants
- Enzyme Cleaners
- Membrane Cleaners
- Defoamers
- Hand Sanitizers/Soap
- Farm Equipment Cleaners
- Transportation Cleaners

