

# SUPERSATURATED DISSOLVED CARBON DIOXIDE FOR pH ADJUSTMENT

## Our Mission

BlueInGreen empowers water treatment professionals to make a difference by making water treatment processes more efficient, more effective, safer and more environmentally sound.

## Our Method

With over 100 installations in North America treating over 7.5 billion combined liters of water each day, BIG offers the most efficient, cost-effective solutions for oxygenation, pH adjustment, oxidation and odor control.

## Our Solutions

Since 2004, we have expanded our offerings into two product lines: the Core Series, the ultimate in precision and control, and StreamLine, a more simplified solution. Each unit is custom-engineered to meet your needs.

## Our Pairing

The combination of Chart equipment and BIG technology delivers an end-to-end solution that consumes up to 40% less gas than other alternatives for the same level of treatment while featuring the smallest energy, carbon and physical footprint available.

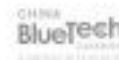
## Our Reach



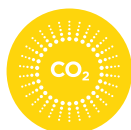
BlueInGreen is proud to be part of the Chart family of brands. We are backed by 3,800 employees globally, serving customers on 6 continents from key locations across the Americas, Europe and Asia. We are here for you, no matter where you are.

solutions for water quality

AWARD WINNER



## THE MOST EFFICIENT CO<sub>2</sub> DISSOLUTION SYSTEM.



### CDOX® | Core Series

**Greater control and precision with a lower life-cycle cost.**

Using the smallest carrier stream in the industry, the CDOX® efficiently dissolves carbon dioxide in a sidestream process. From simple in-process pH adjustment and alkalinity addition to large recarbonation projects, the CDOX® delivers results.



### StreamLineCO<sub>2</sub>

**Industry-leading efficiency at a lower upfront cost.**

The StreamLineCO<sub>2</sub> offers highly efficient, highly effective pH adjustment at a lower capital cost than conventional equipment while also offering the same stellar support and service as BlueInGreen's Core Series. Because sometimes less is more.

## PROCESS



## OPERATION

### + Applications

- Remineralization – Alkalinity (pH) Adjustment
- Water (Lime) Softening – Recarbonation
- Strong Acid Replacement – Industrial WWT, Environmental Compliance, H<sub>2</sub>S Stripping

### ✓ Benefits Up To

- 98% Transfer Efficiency
- 90% Less Carrier Water
- 70% Reduction in Chemical Costs
- 40% Less Carbon Dioxide Use

**BlueInGreen**  
A Chart Industries Company





Building Products



Food + Beverage



Mining



Municipal



Power



Pulp + Paper



Environmental



Waste Management



**Most Efficient**

BIG uses up to 40% less carbon dioxide compared to direct injection or conventional bubble diffusion systems, and nearly 25% less carbon dioxide and 90% less water than the competing pressure solution feed system, resulting in an operational cost savings of over 40%.



**Enhanced Health + Safety**

Rather than handling and storing strong acids onsite like conventional alternatives, we use carbon dioxide, eliminating the inventory, handling and use of strong acids reduces risk, improves worker safety and streamlines safety protocols.



**Automated Treatment + Process Control**

Automated, precise treatment means less variability in pH, promoting steady-state operations. In dissolved air flotation systems, this translates into enhanced polymer efficiency and improved downstream treatment processes.



**Gas Dissolution Experts**

With over 15 years of experience, BIG employs a team of industry-leading designers, engineers and technicians. We are the gas dissolution experts, and we can prove it.



**Enhanced Productivity**

With BIG technology, operators are able to spend more time managing other plant operations. Reduced downtime and changeover time enhances worker productivity while sensors on CO<sub>2</sub> storage tanks notify the gas supplier of inventory status. The BIG system does the rest.



**Start to Finish**

We can assist in all stages of the project process: designing, testing, training, start-up and even providing O+M and aftermarket needs throughout the life of your product. Our team is here to help you every step of the way.



**Single-Point Sourcing + Responsibility**

With BIG, you're in good company. We work directly with our parent brand, Chart Industries, to provide industry-leading gas storage and feed equipment, providing a streamlined purchasing process with single-source responsibility.



**Quality Guaranteed**

We stand behind our technology. Every unit is factory-tested by our expert team of technicians and engineers at our U.S. manufacturing facility to ensure your equipment works both before and after it's installed.

FEATURES + BENEFITS

**ECONOMIC/OPERATIONAL**



- Reduced Chemical + Polymer Costs
- Improved Treatment, Precision + Process Control
- Reduced Downtime, Changeover Time + Risk

FEATURES + BENEFITS

**SOCIAL/COMMUNITY**



- Enhanced Worker Health + Safety
- Streamline Safety Protocols
- No Storage, Handling + Use Of Strong Acids

FEATURES + BENEFITS

**ENVIRONMENTAL**



- Reduced Greenhouse Gas Emissions From Transporting Diluted Acids



**SAVE BIG WITH BLUEINGREEN**

1

**Reduce or Eliminate Basins**

Don't build a basin if you don't have to. Conventional technologies often need large concrete basins, which require significant civil work. Our technology can eliminate the need for unnecessary construction, further reducing costs.

2

**Bubble Control**

Our patented technology fully dissolves carbon dioxide in water, eliminating bubbles altogether—keeping gas in the water and money in your pocket.

3

**Power Savings**

By using variable frequency drives, our units offer the lowest cost of ownership on the market. With our efficient treatment technology, you pump less water, use less power and save more money.



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