



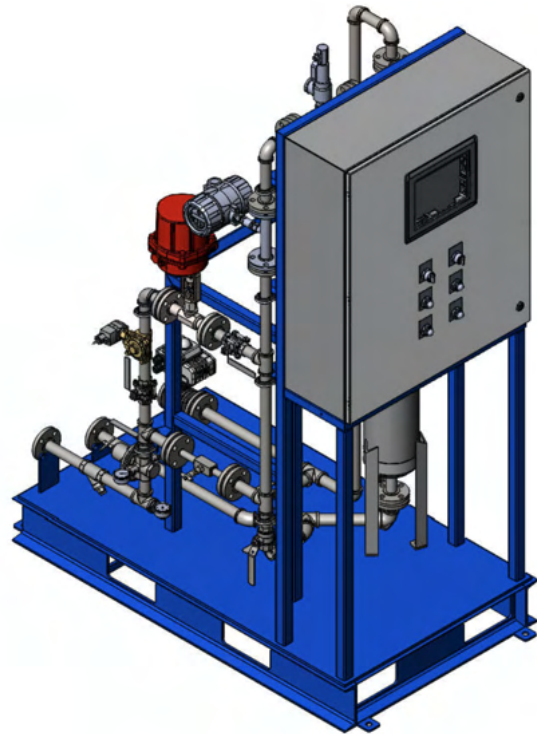
## Supersaturated Dissolved Carbon Dioxide | CO<sub>2</sub>

# p H C O N T R O L INFORMATIONAL GUIDE



### StreamLine®CO2

**Industry-leading efficiency at a lower upfront cost.**  
The StreamLine®CO2 systems 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 CDOX® systems. Because sometimes less is more.



|                                    | StreamLine100                | StreamLine200                | StreamLine300                |
|------------------------------------|------------------------------|------------------------------|------------------------------|
| Length (in.)                       | 55"                          | 59"                          | 80"                          |
| Width (in.)                        | 32"                          | 32.5"                        | 36"                          |
| Height (in.)                       | 85"                          | 87"                          | 92"                          |
| Approx. Dry Weight (lb.)           | 750                          | 1,000                        | 2,000                        |
| Approx. Wet Weight (lb.)           | 800                          | 1,200                        | 2,300                        |
| Water Line Size                    | 1                            | 2                            | 3                            |
| Gas/Vent Line Size (in.)           | 1                            | 1                            | 1                            |
| PLC                                | Allen-Bradley Micro850®      | Allen-Bradley Micro850®      | Allen-Bradley Micro850®      |
| HMI                                | Allen-Bradley PanelView™ 800 | Allen-Bradley PanelView™ 800 | Allen-Bradley PanelView™ 800 |
| Min./Max. Ambient Temp. (°F)**     | 35-105°                      | 35-105°                      | 35-105°                      |
| Gas Flow Rangeability (typical)*** | 25:1                         | 25:1                         | 25:1                         |

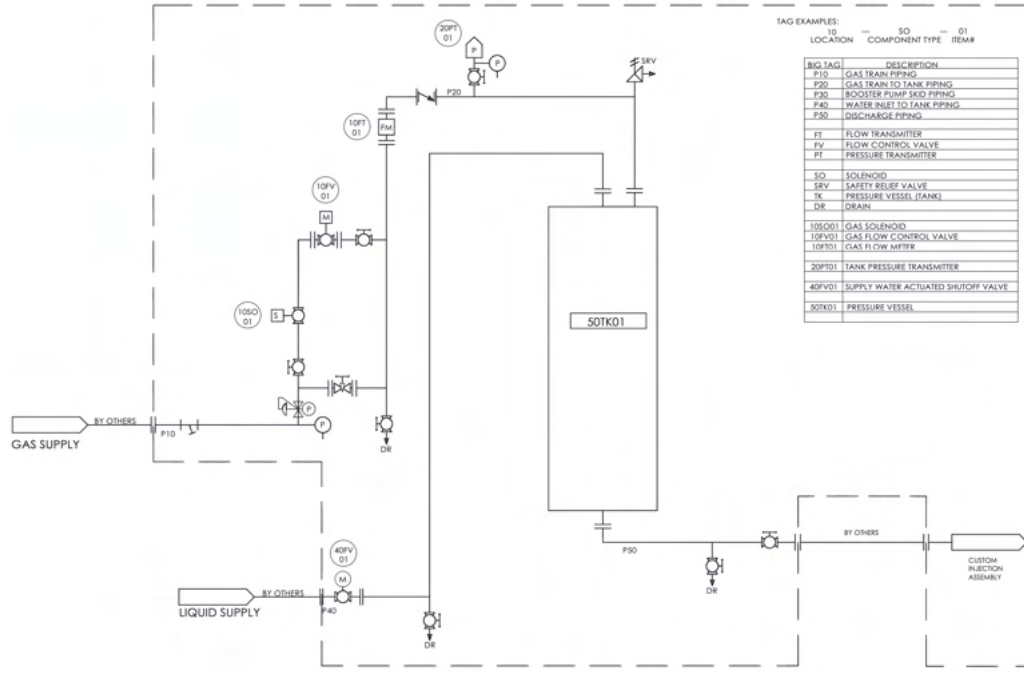
| StreamLine100<br>26 gpm | lb/hr CO <sub>2</sub>  | MAX WATER TEMPERATURE (°C) |    |    |    |    |    |
|-------------------------|------------------------|----------------------------|----|----|----|----|----|
|                         | Max Op Pressure (psig) | 10                         | 15 | 20 | 25 | 30 | 35 |
|                         | 20                     | 26                         | 22 | 19 | 17 | 15 | 13 |
|                         | 40                     | 42                         | 36 | 32 | 28 | 24 | 21 |
|                         | 60                     | 58                         | 50 | 44 | 38 | 33 | 29 |
|                         | 80                     | 75                         | 64 | 56 | 49 | 43 | 38 |
|                         | 100                    | 91                         | 79 | 68 | 59 | 52 | 46 |
|                         | 120                    | 107                        | 93 | 80 | 70 | 61 | 54 |

| StreamLine200<br>100 gpm | lb/hr CO <sub>2</sub>  | MAX WATER TEMPERATURE (°C) |     |     |     |     |     |
|--------------------------|------------------------|----------------------------|-----|-----|-----|-----|-----|
|                          | Max Op Pressure (psig) | 10                         | 15  | 20  | 25  | 30  | 35  |
|                          | 20                     | 100                        | 86  | 75  | 65  | 57  | 50  |
|                          | 40                     | 162                        | 140 | 121 | 106 | 93  | 81  |
|                          | 60                     | 225                        | 194 | 168 | 147 | 128 | 113 |
|                          | 80                     | 287                        | 248 | 215 | 187 | 164 | 144 |
|                          | 100                    | 349                        | 302 | 262 | 228 | 200 | 176 |
|                          | 120                    | 412                        | 356 | 308 | 269 | 235 | 207 |

| StreamLine300<br>250 gpm | lb/hr CO <sub>2</sub>  | MAX WATER TEMPERATURE (°C) |     |     |     |     |     |
|--------------------------|------------------------|----------------------------|-----|-----|-----|-----|-----|
|                          | Max Op Pressure (psig) | 10                         | 15  | 20  | 25  | 30  | 35  |
|                          | 20                     | 249                        | 215 | 187 | 163 | 143 | 125 |
|                          | 40                     | 405                        | 350 | 304 | 265 | 232 | 204 |
|                          | 60                     | 562                        | 485 | 420 | 366 | 321 | 282 |
|                          | 80                     | 718                        | 619 | 537 | 468 | 410 | 361 |
|                          | 100                    | 874                        | 754 | 654 | 570 | 499 | 439 |
|                          | 120                    | 1,030                      | 889 | 771 | 672 | 588 | 517 |

\* Supplied plant water with low solids and grit | \*\* Assuming no external heat gain from solar radiation | \*\*\* Gas flow range of operation is a function of CO<sub>2</sub> flow rates and available pressures.  
\* Power required by StreamLine® systems with no external pumping skid is 120 Volt/1 Ph/60 Hz at 6.6 amps. This value includes a 5 amp convenience outlet local to panel.

# StreamLine® CO2



## FEATURES + BENEFITS



### 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 for pH adjustment, BIG StreamLine®CO2 systems use carbon dioxide to make carbonic acid on demand, eliminating the inventory, handling and use of strong acids, reducing risk, improving worker safety and streamlining 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.

### ECONOMIC/OPERATIONAL



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

### SOCIAL/COMMUNITY



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

### ENVIRONMENTAL



- Reduced Greenhouse Gas Emissions From Transporting Diluted Acids