

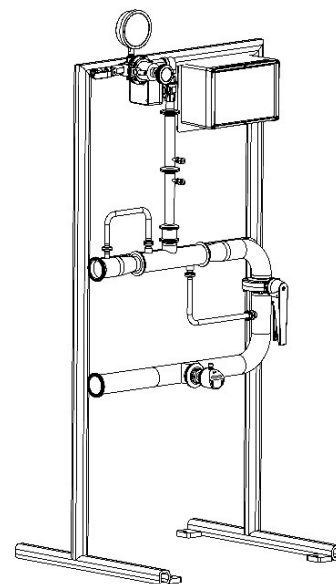
## ***xFlowCO2 - Automatic Carbonation Systems***

***Perfect carbonation, each time, every time!***

***xFlowCO2*** carbonation systems use an electronic flow control system in combination with our ultra-high efficiency fine bubble injectors for **near-100% mass transfer efficiency**.

Input your process volume and your desired carbonation level, and ***xFlowCO2*** will accurately inject just the right amount of CO<sub>2</sub> to achieve perfect carbonation.

Once the required amount of CO<sub>2</sub> is injected, ***xFlowCO2*** will automatically shut off CO<sub>2</sub> and sound an alarm. This completely eliminates gas wastage and preserves the product flavor and foam character that you work so hard to achieve!



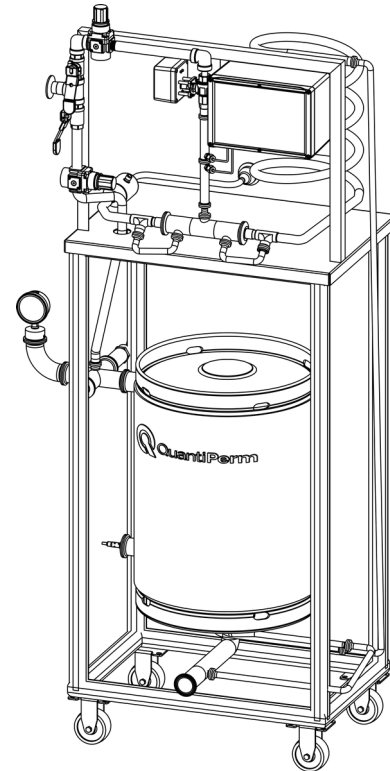
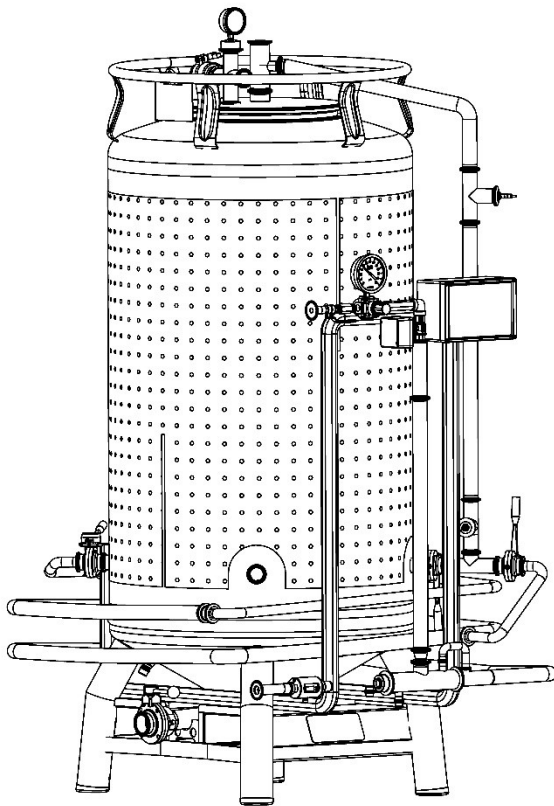
### **Features:**

- ❖ Significantly improve carbonation consistency
- ❖ Feed-forward true molar CO<sub>2</sub> injection
- ❖ Operate in once-through in-line injection, or bright tank batch recirculation, or even direct to fillers with appropriate ancillary equipment and interconnects
- ❖ Save gas
- ❖ Minimize flavor, BUs and foam losses and ensure your product quality and consistency.
- ❖ WiFi enabled user interface- works with any wifi enabled device with a web-browser

***xFlowCO2*** comes in three configurations: ***FRC***, ***SurgeFRC***, and ***MiniSurgeFRC***.

***FRC*** – the standard ***Flow Ratio Control - FRC*** system can operate at flow rates between 5 gpm and upwards of 75 gpm with a customer-supplied beverage pump for carbonation in a single pass tank-to-tank transfer or tank recirculation mode.

***SurgeFRC***– Carbonate-and-Fill from dead-flat to up to 4 v/v and line speeds up to 25 gpm. Send product directly to a filler, with no intermediate tanks! The system employs a small buffer tank to consistently supply your packaging line in the face of intermittent filler interruptions. Just specify how much carbonation you want and let the system go!



**xFlowCO2MiniSurge-FRC**

**MiniSurgeFRC** – Same as the SurgeFRC, but for smaller operations: Carbonate-and-Fill at speeds up to 6 gpm.

### Deoxygenation

Did you know our robust **xFlow** systems can also be modified for use in deoxygenation applications? Elevated dissolved oxygen levels in-process or in package damage your product and diminish shelf life.

With xFlow technology, now you can banish oxygen to levels below 10 ppb and substantially lower your package total oxygen levels (TPO).

We deliver this performance at a fraction of the cost compared to alternatives like membrane technology that require TLC or energy intensive thermal/vacuum desorption technologies.

Don't let uncontrolled DO/TPO levels threaten the quality of your product that you work so hard to produce!

**Technical Specifications:**

	<b>FRC</b>	<b>Surge-FRC</b>	<b>MiniSurge-FRC</b>
<b>Liquid Flow rates, gpm (hL/h)</b>	5-75 gpm (11-170 hL/h) (no pump included)	0-26.4 gpm (0-60 hL/h) Std. (no pump included) Opt 5-50 gpm (11-114 hL/h)	0-6.6 gpm (0-15 hL/h) (no pump included)
<b>Power</b>	110 V ac 1A 220 V ac 0.5A; 24 V dc 3A	110 V ac 1A 220 V ac 0.5A; 24 V dc 3A	110 V ac 1A 220 V ac 0.5A; 24 V dc 3A
<b>Required Beverage Pump Pressure</b>	75 psi / 5.2 bar	75 psi / 5.2 bar*	75 psi/ 5.2 bar*
<b>Liquid Connections</b>	2" / 2" sanitary	1" / 1½" sanitary	1" / 1½" sanitary
<b>Gas Supply Requirements</b>	130 psig (9 bar) min Upto 15 scfm (0.8 Nm <sup>3</sup> /min)	130 psig (9 bar) min Upto 15 scfm (0.8 Nm <sup>3</sup> /min)	130 psig (9 bar) min Upto 4 scfm (0.2 Nm <sup>3</sup> /min)
<b>Gas Inlet</b>	1" sanitary	1" sanitary	1" sanitary
<b>Operating Modes</b>	Inline; Once-through; Recirculation	Inline; Once-through; Recirculation; Direct-to-filler	Inline; Once-through; Recirculation; Direct-to-filler
<b>Clean-In-Place</b>	Standard chemicals. Max temperature 212°F / 100°C (powered off)	Standard chemicals. Max temperature 212°F / 100°C (powered off)	Standard chemicals. Max temperature 212°F / 100°C (powered off)
<b>Dimensions &amp; Weight</b>	27"W x 27"D x 65"H (685 x 685 x 1655 mm) 75 lb (35 kg)	48"W x 48"D x 80"H (760 x 600 x 760 mm) 480 lb (220 kg)	30"W x 24"D x 68"H (711 x 457 x 1524 mm) 170 lb (78 kg)

\* Pump Start/Stop signal (dry contact relay) will need to be connected for fully automatic operation

**Contact us for deox options or other customizations, including inline nitrogenation!**

For Europe, please contact our distributor at [info@breweryninjas.com](mailto:info@breweryninjas.com)

