



## **Beer Line Disinfection System**

### **Major Functions**

+ Beer Line Disinfection

### **Application**

+ Pub

+ Club & Bar



# The World's Most Powerful Natural Disinfectant

Ozone kills *E.coli* approximately 3,000 times faster than chlorine, and is capable of eliminating all strains of bacteria, viruses, and other waterborne microorganisms and pathogens. In 1991, the US Environmental Protection Agency (EPA) confirmed that ozone is the most effective primary disinfectant available for drinking water.

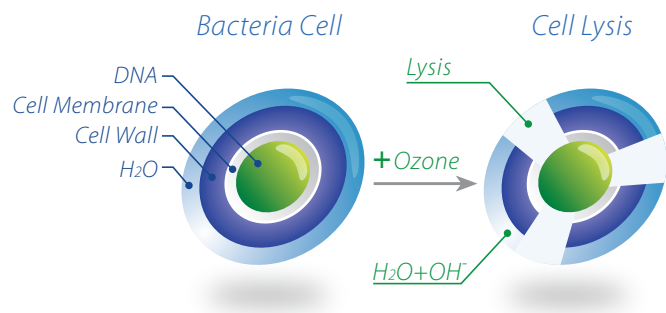
With its powerful disinfection and sanitation properties, ozone has been used to protect public health through drinking water and wastewater treatment for more than 100 years. It has proven to be a safe and effective antimicrobial, sanitizer and disinfectant in numerous commercial and industrial applications.

- Eliminates all known viruses, bacteria, parasites, fungi, algae, protozoa, and other microorganisms
- Removes and decomposes odors, pesticides, chemicals and detergents

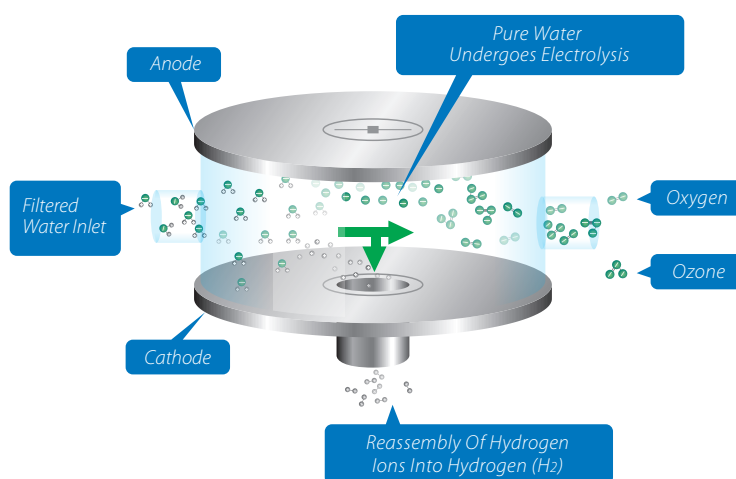
## Ozone's Bacterial Disinfection Mechanism

Structure of a bacteria cell and disinfection process :

Ozone oxidizes bacteria cell membrane and causes lysis. It also inhibits and blocks the operation of the enzymatic control system.



## Biotek Electrolytic Ozone Generation



*Biotek's indirect Electrolytic Ozone Generation Technology (iEOG) has over 40 worldwide patents*

All BioSure equipment employ the world's most advanced ozone generation technology from Biotek.

Biotek's indirect Electrolytic Ozone Generator (iEOG) is the world's leading ozonated water technology. It was developed by Biotek Environmental Science (UK) and Biotek Environmental Science Ltd. By applying electricity to water, highly concentrated ozone and oxygen are created without harmful by-products (such as NOx).

Biotek's dissolved ozone is powerful and environmentally friendly. It is reliable, safe and cost effective to operate. Biotek has over 40 worldwide patents on this technology that produces highly dissolved pure ozone from water using low energy consumption. Extraneous equipment and feed gas are no longer required because Biotek has advanced past using oxygen in the air for ozone production.

## Designed For Beer Line Disinfection

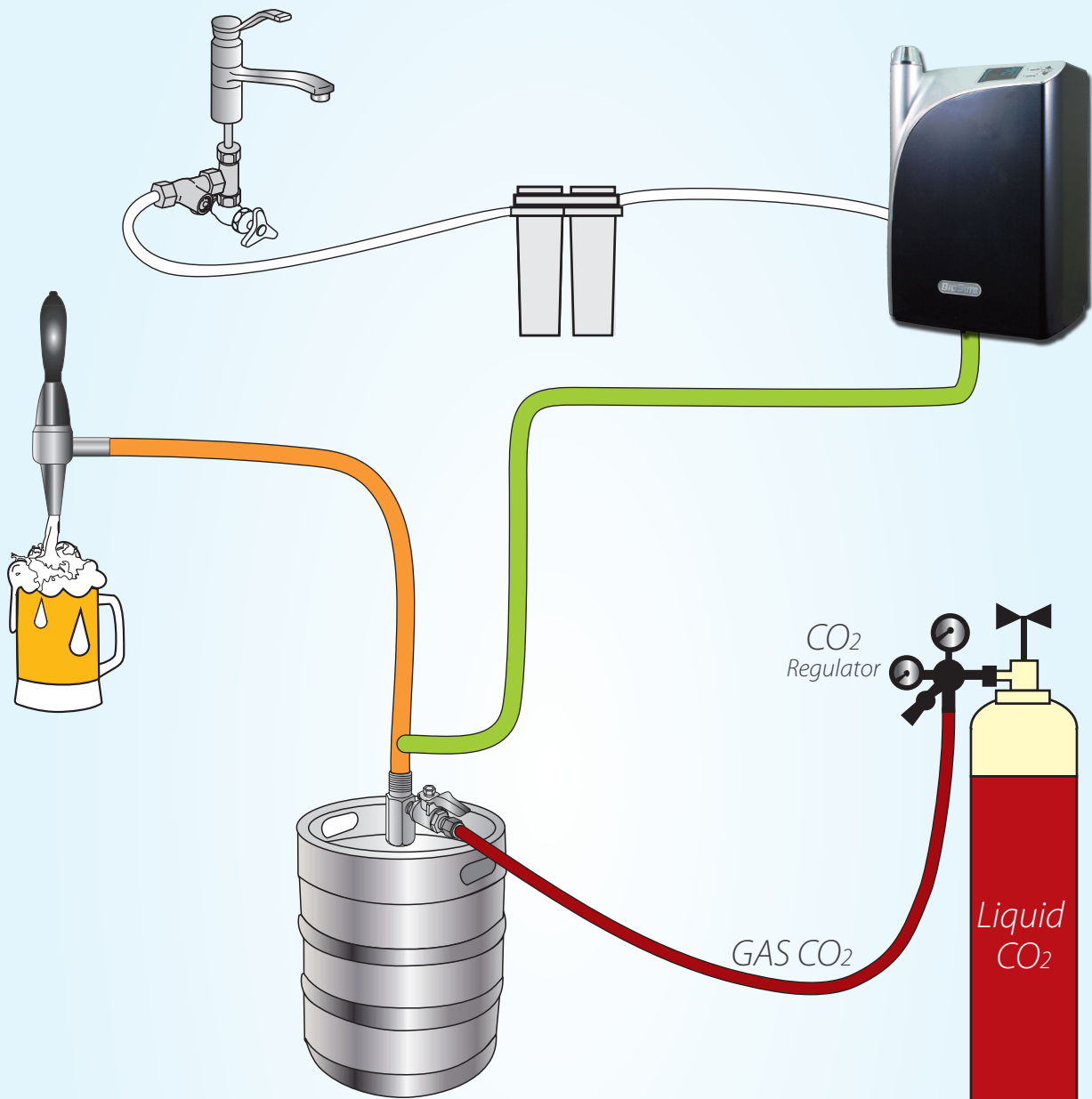
Biosure has developed BLDS to specifically meet the sanitation needs for beer line maintenance. The ozonated water keep the beer line free of biofilm and scale build-up.

### Biosure Advantage

- ▲ Easy drop-in integration with beer lines
- ▲ Does not alter taste or smell
- ▲ Patented technology to safeguard against ozone dispersion
- ▲ Prevents biofilm/mold growth and reduces maintenance
- ▲ Low water and electricity consumption, high return on investment
- ▲ Intelligent indicator for part lifetime and replacement notice



## Application Of Biosure BLDS



### 8 min beerline sanitation program :

With the build-in programmable control, BLDS's CIP (clean in place) function can be used for beverage dispenser or beer line's pipeline disinfection.

Step 1 : flush beer line with filtered clean water (ball sponge applicable).

Step 2 : water pulse purging to remove biofilm and beer stone.

Step 3 : high concentration dissolved ozone sanitation. (6.5ppm-0.5ppm)

Step 4 : water pulse purging

Step 5 : dissolved ozone sanitation. (3ppm-0.25ppm)

# Biosure BLDS

*The perfect beverage sanitation system*

24<sub>hr</sub>

OPERATION

## **Effortless Maintenance**

*No additional cleaning tools required. 3 selectable sanitation programs specially designed for beer line or beverage machines sanitation.*

## **Time Saving**

*BLDS continuously sanitizes beverage dispenser everyday without having to pause beverage supply. Whole cleaning cycle of beer line sanitation takes only 8 minutes to complete, which is 70% of time saving.*

## **Improve Quality of Product**

*Poor water quality not only affects the safety of products, with undesirable chemicals or by-products, it also alter the taste. BLDS helps to serve sanitized beverages without compromising the flavor to provide uniform quality and brand image.*

## **Cost Saving**

*Cost of chemicals and labor for beer line sanitation accumulated is a huge spending annually. BLDS only requires electricity and tap water, no chemical or extra labor required, which is a machine pays for itself.*

## **No Chemical Residues Left**

*BLDS generates ozone from water, requires no additional chemicals. After sanitation, ozone turns into oxygen, leaving absolutely no chemical residues left.*





EOS7132-BLD



## Product Specifications

Product Name		BLDS
Model No.		EOS7132-BLD
Output Flow Rate Input water pressure: 3.0 kg/cm <sup>2</sup>		120-400 L/hr
Dissolved Ozone Concentration in Water Basin Input water Temperature: 15°C Ambient Temperature: 20°C Water Quality: ≤ 500 µs/cm		0.5 – 1.0 ppm
Ozonated Water Surface Disinfection		4-6ppm @200L/hr, 1 min
Power Supply	Voltage	AC - 100~240V / 60~50Hz
	Power Consumption	30~45 W
Input Water	Water Quality	Municipal Water
	Water Temperature	5-30°C
	Water Pressure	3.0 Kg/cm <sup>2</sup>
	Water Flow	≥ 1000 L/hr
Environment	Ambient Temperature	5-35°C
Appearance	Dimension WXD <sub>X</sub> H	300 x 165 x 400 mm
	Net Weight	7.5 Kg



Distributor:



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