

DENTAL OZONE APPLICATION GUIDEBOOK

Advanced Ozone Technologies for
Infection Control in Dentistry



BENEFITS



Chemical free
& residue free



Cost savings



Healthier
dental team



Safer water

The Complete Disinfection Solution



Automatic Water Disinfection System

MODEL: EOS7177-PQ

- General surface sanitation
- Hand wash
- Instrument cleaning
- Does not effect water flow



Compact Disinfection Unit

MODEL: EOS7131-CS

- Ozonated water concentration:**
- Up to 10.0 ppm
- Applications:**
- General surface sanitation
 - Hand wash
 - Instrument cleaning



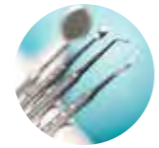
Hand washing



Risk reduction



Odor removal



Medical device surface sanitation



Hand sanitation



Hygienic environment

Portable Sanitation Solution



Space Sanitizer System

MODEL: EOS7190-P

Ozone gas concentration:

- 0.5 - 1.0 ppm

Applications:

- Air & space sanitation
- Remove odors & unwanted smell
- Increase humidity
- Airborne transmission risk reduction

*** Not Available in California**

Portable Sanitation & Disinfection



Professional Ozone Spray Bottle

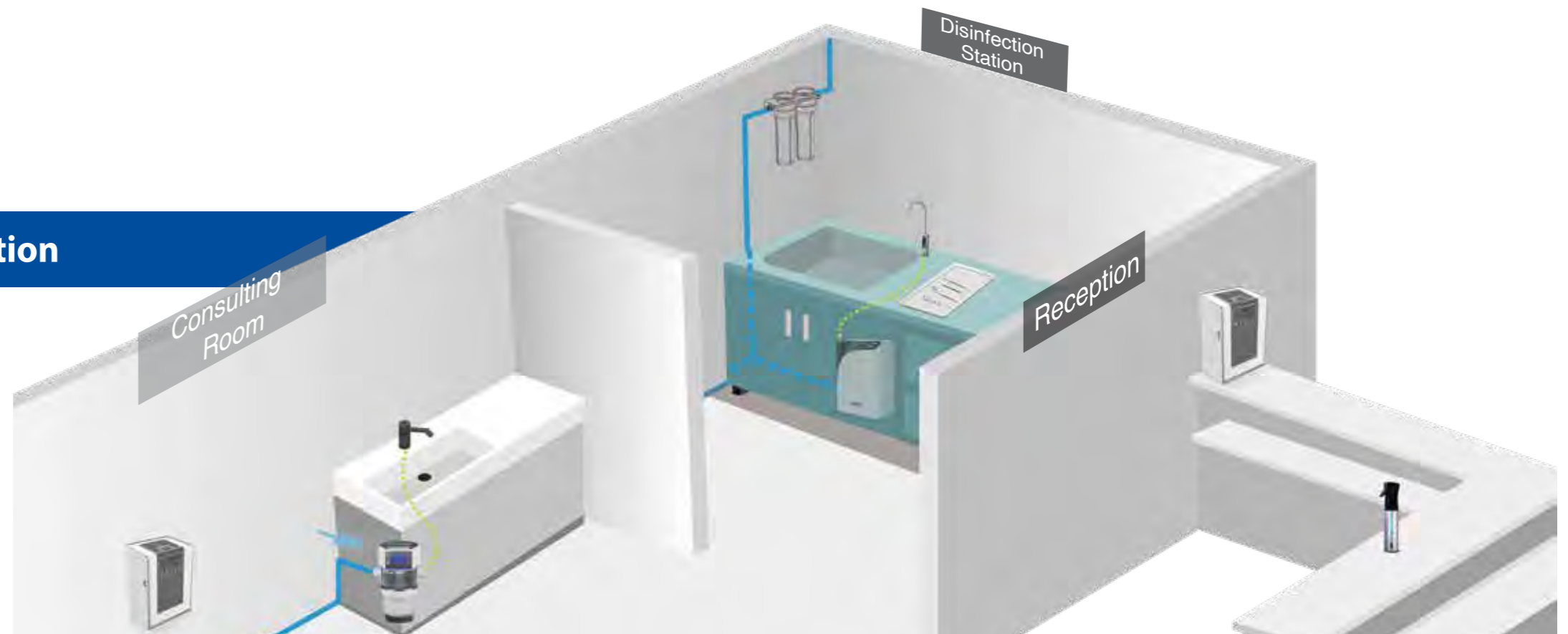
MODEL: EOS7161-P

Ozonated water concentration:

- Up to 3.0 ppm

Applications:

- General surface sanitation
- Lightweight design, easy to carry
- Compact & rechargeable
- Requires only tap water for operation



SPECIFICATIONS

**Professional
Ozone Spray
Bottle**

**Space
Sanitizer
System**

**Automatic
Post-filtration
Disinfection
System**

**Automatic
Water Disinfection
System**

**Compact
Disinfection
Unit**



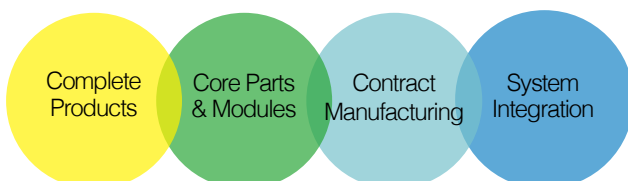
150ml



Model	EOS7161-P	EOS7190-P	EOS7177-B	EOS7177-PQ	EOS7131-CS	
Applications	Surface	Space	Direct Water	Ozonated Water	Ozonated Water	
Connection	N/A		3/4"		3/8"	
Application Flow Rate	N/A		Up to 1000 LPH (4.6 GPM)	300 - 600 LPH (1.3 - 2.6 GPM)	200 LPH (0.9 GPM)	100 LPH (0.4 GPM)
Concentration	3.0 ppm	0.05 - 0.1 ppm	0.5 - 1.0 ppm	1.0 - 1.5 ppm	6.0-0.6ppm	10.0-1.0ppm
Effective Coverage Space	Up to 0.6 m ² per spray	Up to 75 m ²	N/A			
Max. Pressure	N/A		7 kg/cm ² (100 psi)			
Power Supply	AC 100-240V, 50/60Hz					
Rated Power	5 W	32W	96W		60W	
Water Quality	Clean Tap Water					
Water Temperature	5-40°C (41-104°F)					
Dimensions(mm)	φ53 x H255	W230 x D127 x H300	W140 x D128.5 x H210.5		W300 x D165 x H400	
Weight (Net)	310g	2.5 kg	1.2 kg		7.5 kg	

About Us

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US 6,308,914 B2, US 9,757,697 B2, US 9,248,208 B2

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BES Group is continually improving its products and reserves the right to change specifications without notice.










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2021 Price List - Clinic

Period January 1, 2021 through December 31, 2021
Company Biosure North America LLC

Issue Date: January 1, 2021
Issued By: Darren Simmons

Product					List	
Platform	Product	Image (Not to Scale)	Model #	Application	Price	MOQ
Portable	ORT		EOS-7160-P	Activated Oxygen Multipurpose Tumbler w/Spray	\$ 349.00	1
	OSB		EOS-7161-P	Activated-Oxygen Disinfection Sprayer	\$ 399.00	1
	SSS		EOS-7190	Space Sanitizing System	\$ 1,500.00	1
Terminal	PFDS-Mini		EOS-7176	Point of Use Disinfection - Low Flow	\$ 299.00	1
	FOS-Q		EOS-7161-Q	Faucet Ozone Water System (Low Volume)	\$ 1,640.00	1
	FOS-PQ		EOS-7161-PQ	Faucet Ozone Water System (High Volume)	\$ 2,180.00	1
	Faucet		EOS-7130-FAU	713X Series Faucet	\$ 299.00	1
Central Package	CDS		EOS-7130-CDS	CDS - Central Disinfection System	\$ 4,550.00	1
	Faucet		EOS-7130-FAU	713X Series Faucet (Included)	Included	
	Installation Kit		EOS-7130-INS	713X Platform Installation Kit (Filtration & Accessories)	Included	

TERMS:

- 1 Sales Tax Not Included
- 2 Prices Quoted Ex-Works from San Antonio, Texas
- 3 Terms - Payment at Invoice (Before Shipping)
- 4 Pricing not to be Advertised on Internet
- 5 Pricing Quoted in US Dollars
- 6 Referral - 5% Referral Fee Paid or 10% Applied towards Purchase Credit
- 7 Territory Restrictions Apply - Contact BNA for Dealer or Distributor Opportunities



Model: EOS7161-P

Revolutionary Ozone Spray Bottle Pro

Adding **only water** and with the press of one button
Ideal alternative to other chemical sanitizers



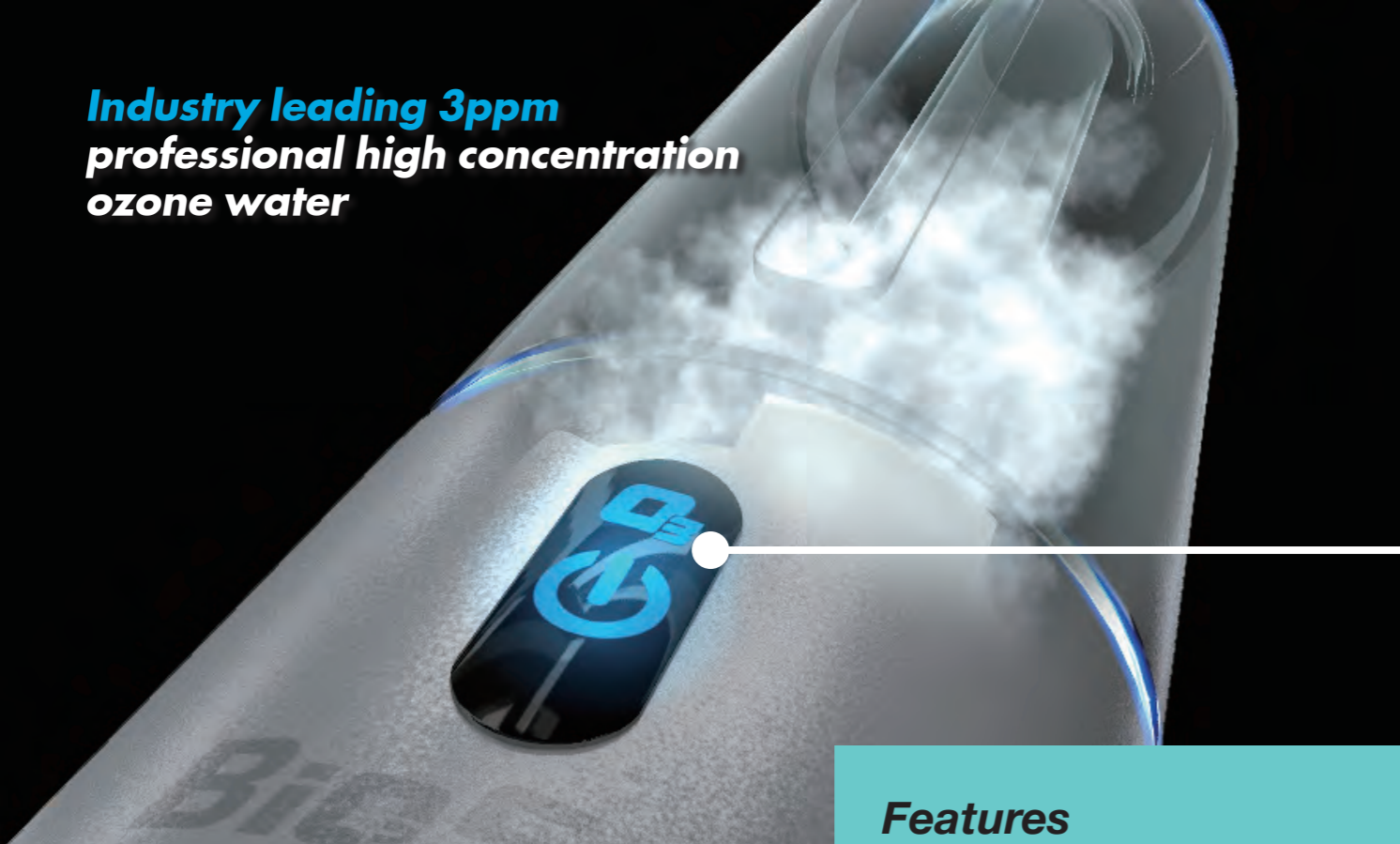

Eliminates
Bacteria & Viruses


5 seconds
Achieve 99.99% sanitizer rate


Safety
Harmless to skin


Friendly
to Environment

Industry leading 3ppm professional high concentration ozone water



With only a single press of one button

99.99%

Third-party measured sanitize rate

3000 times

Sanitizes faster than chlorine

5 seconds

Achieve 99.99% sanitize rate

25 minutes

Maintains the concentration of ozone water time

ZERO

Chemical residues

12000 times

Service life



150 ml (0.04 gal)

Features



Only needs water and electricity No additional costs



It does not change the water pH



USB-C charging Plug and play



Two-stage mode to meet various applications



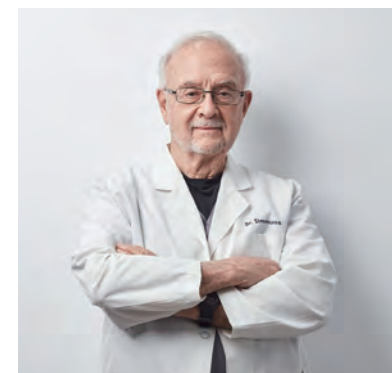
Strong and sturdy metal body

Chemical-Free

The 2nd generation handheld rechargeable Professional Ozone Spray Bottle (OSB Pro) applies revolutionary electrolysis technology that can convert your regular tap water into an anti-bacterial sanitizing water. This revolutionary technology can help **replace conventional chemical surface sanitizers**. Simply fill the bottle with clean tap water, press the button, and the device will instantly convert ordinary water into ozonated water.

Small Size, High Performance

Ozonated water is well-known for its fast and **powerful sanitation performance**. This ozone sprayer **offers an effective, safe, and environmentally friendly surface sanitation for many commercial hygiene applications**.



Wayne Simmons, DMD

“My recent personal and professional practice experience utilizing aqueous ozone from BES Group has been extraordinarily positive and beneficial to our patients, our staff, and to myself. It is a remarkable technology that will be welcomed into dental practices, medical offices, hospitals, nursing facilities, food and beverage, recreational facilities, worldwide.”

United States - Prosthodontist, ACP, Diplomate ABOI

Focus Points



For Catering

- Hotels
- Restaurants
- Coffee and tea
- Bars



For Health Care

- Hospitals
- Kindergartens
- Clinics
- Nursing Homes



For Public Places

- Gyms
- Offices
- Schools
- Cleaning company



Hand sanitation
> 99.99%



Surface sanitation
> 99.99%



Added the approval to use ozone water as a food surface bactericide in its food specification.



60CM



Wide Coverage Area

Specifications

Model No.	EOS7171-P	
O₃ Concentration*	3.0ppm (Mode1: 5 min. & Mode2: 25 min.)	
Reservoir Size	150 ml (0.04 gal); covers 30 m ²	
Charging Time	60 minutes, Can generate up to 1800 ml or 12 bottles per charge	
Water Quality	Clean tap water**	
Water Temperature	5- 35° C (41- 95 °F)	
Ambient Temperature	5- 40° C (41- 104 °F)	
Rechargeable Battery	Li-polymer Battery, 3.7V/1200mAh	
Charger Input	Input : 100-240V AC, 50/60Hz	Output : 5V/1A DC
Dimensions	Φ53 x 254.8 mm (Φ2.1 x 10.0 in)	
Weight	308 g (0.68 lbs) ± 1%	
Life Span	> 2 year (8 bottles uses/day)	

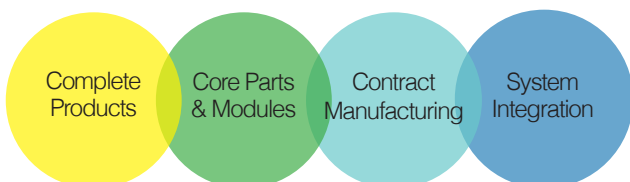
* Tested with soft clean water (TDS ≈ 100 ppm, temperature ≈ 25° C) Ozone concentration varies depending on conditions such as water quality or temperature.

**Potable water (TDS 60 - 200 ppm, Hardness < 180 ppm as CaCO₃) . If hard water is used (hardness > 120 ppm CaCO₃;TDS > 250ppm), regular cleaning with citric acid solution is recommended for maintaining performance.

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Model: EOS7161-P

Revolutionary Multi-Purpose Tumbler

Adding **only water** and with the press of one button
Ideal alternative to other chemical sanitizers



Eliminates
Bacteria & Viruses



5 seconds
Achieve 99.99% sanitizer rate

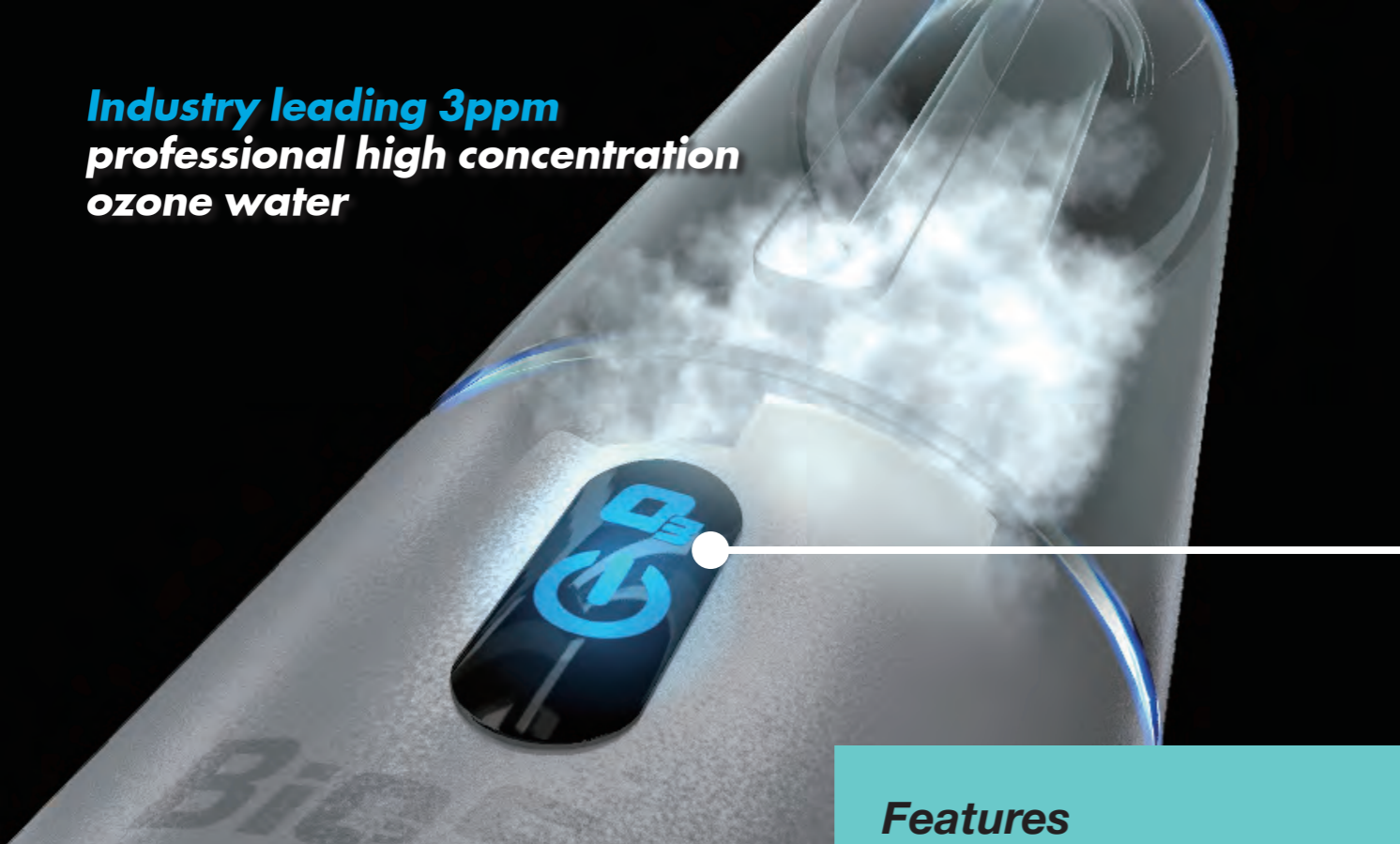


Safety
Harmless to skin



Friendly
to Environment

Industry leading 3ppm professional high concentration ozone water



With only a single press of one button

99.99%

Third-party measured
sanitize rate

3000 times

Sanitizes faster
than chlorine

5 seconds

Achieve 99.99%
sanitize rate

25 minutes

Maintains the concentration
of ozone water time

ZERO

Chemical residues

12000 times

Service life



150 ml (0.04 gal)

Features



Only needs water and
electricity No additional costs



It does not change the
water pH



USB-C charging
Plug and play



Two-stage mode to
meet various applications



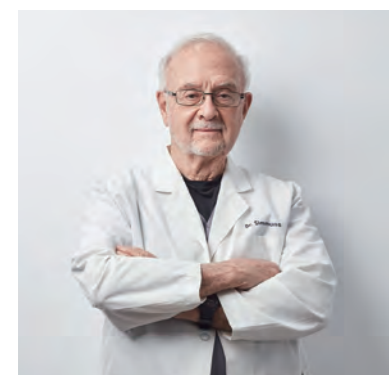
Strong and sturdy
metal body

Chemical-Free

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For Catering

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- Bars



For Health Care

- Hospitals
- Kindergartens
- Clinics
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Hand sanitation
> 99.99%



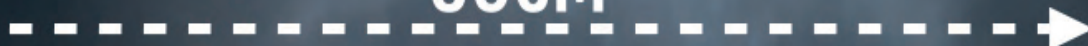
Surface sanitation
> 99.99%



Added the approval to use ozone water as a food surface bactericide in its food specification.



60CM



Wide Coverage Area

Specifications

Model No.	EOS7160-P	
O₃ Concentration*	2.5ppm (Mode1: 5 min)	
Reservoir Size	150 ml (0.04 gal); covers 30 m ²	
Charging Time	60 minutes, Can generate up to 1800 ml or 12 bottles per charge	
Water Quality	Clean tap water**	
Water Temperature	5- 35° C (41- 95 °F)	
Ambient Temperature	5- 40° C (41- 104 °F)	
Rechargeable Battery	Li-polymer Battery, 3.7V/1200mAh	
Charger Input	Input : 100-240V AC, 50/60Hz	Output : 5V/1A DC
Dimensions	Φ53 x 254.8 mm (Φ2.1 x 10.0 in)	
Weight	308 g (0.68 lbs) ± 1%	
Life Span	> 2 year (8 bottles uses/day)	

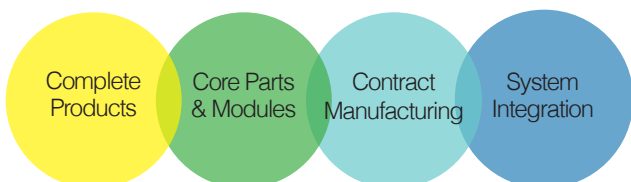
* Tested with soft clean water (TDS ≈ 100 ppm, temperature ≈ 25° C) Ozone concentration varies depending on conditions such as water quality or temperature.

**Potable water (TDS 60 - 200 ppm, Hardness < 180 ppm as CaCO₃) . If hard water is used (hardness > 120 ppm CaCO₃;TDS > 250ppm), regular cleaning with citric acid solution is recommended for maintaining performance.

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Member of



Registered





Model: EOS7177-PQ

Ozone Water Disinfection System

Features



Electrolysis technology
Only need water and electricity, no treatment chemicals necessary.



Tested and Approved
Tested by independent 3rd party laboratories.



Instant Start
No waiting time, WDS automatically runs for your safety.



High Concentration
Patented ozone storage system, industry-leading concentration.



Simple Installation
Easy integration into existing water supply.

Inspired by Nature

Turns tap water into an effective and safe sanitizer

Ozone Water Disinfection System (WDS) applies a revolutionary electrolysis technology that can **convert your regular tap water into an anti-bacterial sanitizing wash water**. The system is designed for easy integration into existing piping offering on-demand and instant sanitation from your tap water. It works to protect against pathogens **without using hazardous chemicals**.

This system is ideal for environments where there is a risk of microbial contamination like **HORECA, hospitals, clinics, nursing homes, office, public toilet, schools and kindergartens**.



99.99%

Removals Bacteria & Viruses

Pathogen control for E coli, Salmonella, Listeria and other common pathogens. Ozone offers a better and more **comprehensive solution than chloric(I) acid and other chlorine-based disinfectants**.



5 seconds

Achieve 99.99% sanitizer rate

Disinfection speed is **3000 times faster than chlorine**. Ozone is more friendly to the environment for disinfection than chemical disinfectants.



Safety

No matter how much you use

After disinfection, ozone reverts to oxygen **without changing the taste and texture of food and water**, and will not cause irritation to the skin. **Ozone eliminates concerns about accidental chemical sanitizer consumption**.

Focus Points

HORECA



Hospitals & Clinics



Schools & Kindergartens



Nursing Homes



Public Toilets



Work Spaces



Cartridge Life

- Up to 1 million liters, depending upon water quality and operation mode
- Indicator light shows cartridge status for easy maintenance

Warranty

- Limited warranty against defects in materials and workmanship for 2 years
- 6 months cartridge life
- Normal usage exclusions apply, detailed in Operation Manual

Shipping & Ordering

- Packaging Size: W22xD19xH27cm (8.7"x7.5"x10.6")
- Gross Weight: 3kg (6.61lbs)
- Loading: 128units per pallet

Specifications

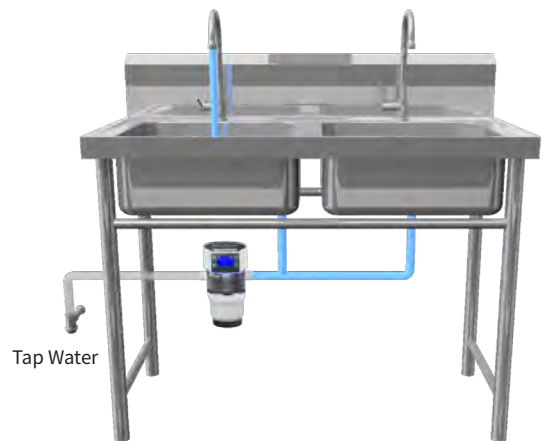
Connection	3/4"
Concentration	Max. 2.0 ppm
Max. Flow Rate (at 3 kg/cm ²)*	1000 LPH
Max. Pressure	7 kg/cm ² (100psi)
Power	AC 100-240V, 50/60Hz, 96W
Water Quality	Clean Tap Water**
Optimal Water Temperature	1-40°C (34-104°F)
Dimensions	128.5 x 140 x 210.5 mm
Weight (Net)	1.3 kg

* Recommended flow for application

** TDS 60-300 mg/l, Hardness < 180 mg/l as CaCO₃

Note: WDS does not replace water filtration. For best results, always connect WDS in the water supply behind the filtration system.

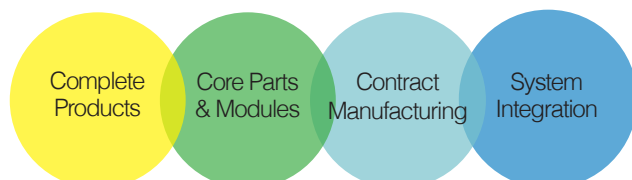
Configuration



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Sanitize Indoor Spaces Safely With Electrolytic Ozone

Revolutionary Space Sanitizer System Plus

The BioSure Professional Space Sanitizer System Plus uses the most advanced electrolysis technology to convert water into **high purity ozone gas**. The gas is safely mixed and misted into the environment for air and surface sanitation. Ozone is a **powerful sanitizer** and **rapidly removes odors**. After sanitation there are **no harmful chemical residues as ozone reverts back to oxygen**.

The System provides a **safe low-concentration ozone of 0.05 to 0.1 ppm**, which complies with the **OSHA occupational safety regulations** of the United States and can help **increase the environmental humidity to reduce the chance of droplet infection**.^{#1} This system is ideal for locations where there is a high risk of infection like hospitals, clinics, nursing homes, office, schools, kindergartens and HORECA business..etc.



Model: EOS7190-P



Removes COVID-19^{#2}

According to research conducted by Fuji Medical University in Japan, low-concentration ozone of **0.05 to 0.1 ppm**, which is **harmless to humans**, can **kill the COVID-19 virus** and is particularly effective in high humidity environments.



Eliminates Bacteria & Viruses

Ozone directly oxidizes the cell body of bacteria and viruses destroying their RNA achieving an inhibitory effect. The sanitation is **3000 times faster than chlorine**.



Deodorizes Odors & Unwanted Smells

Ozone reacts with odor molecules by transferring the "extra" oxygen atom of the ozone molecule to the odor molecule rapidly breaking down and aiding in the dissipation of these unwanted smells.

^{#1} source: <https://pubmed.ncbi.nlm.nih.gov/29625986/>

^{#2} source: https://www.reuters.com/article/us-health-coronavirus-ozone/japan-researchers-say-ozone-effective-in-neutralising-coronavirus-idUSKBN25M0S07feedType=mtg&feedName=healthNews&WT.mc_id=Partner-Google

Focus Points

Hospital & Clinics



Work Spaces



Schools & Kindergartens



Nursing Homes



Features



Inspired by Nature

Turns water into an effective and safe sanitizer.



Safety Design

The system automatically shuts off when people are 80cm in front of the machine to ensure safety.

NOx
Free

Pure Ozone Water Mist

Patented electrolytic ozone technology, no nitrogen oxides, for safer ozone production.



Humidification Function

High humidity helps lower viruses' survival rate.



Portable

Easy to move for sanitizing multiple rooms.

Specifications

Mode		Standard (Continuous sanitation mode)	Boost (Space vacancy required)
Output Ozone Concentration		0.05 ppm*	0.1 ppm**
Effective Coverage Space		up to 150 m ²	
Reservoir Capacity	Pure Water Tank	0.2 L (Pure Water)***	
	Humidifier Tank	1.2 L (Pure Water)	
Humidification		100 ml/hr (±15%)	
Power		AC 100-240V, 50/60Hz, 32W	
Dimensions		230 x 127 x 300 mm	
Weight (Net)		2.5 kg	

* Given values measured at 5cm from the fan outlet.

** Given values measured at 100cm from the fan outlet.

*** TDS < 1 ppm, Electrical Conductivity (EC) < 2µs/cm



Consumable Parts:

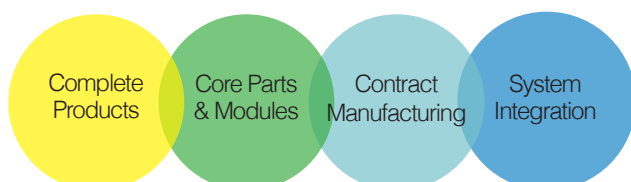
- Electrolytic ozone generator About 9000 hours
- Electrolysis water filter (DI) 1000 hours
- HEPA filter 1000 hours

* Under normal conditions, please replace the consumables according to the above suggestions to maintain product performance. Actual replacement time depends on actual usage.

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PFDS Mini

Automatic Post-Filtration Disinfection System

PFDS Mini is a revolutionary device that instantly turns water into a powerful natural sanitizer. Using electrolytic ozone, PFDS mini offers an instant, effective, and residual free sanitation treatment.

This compact device offers instant, residual-free sanitation, and can be easily integrated with existing waterlines and small water systems based on your needs. It features both automatic and manual options. Given the application of advanced Oxidation technology, PFDS Mini will significantly improve the quality of your products.



Model : EOS7176

Image shown is a representation of the product only and variations may occur.

Applications

- Coffee Makers
- Water Coolers
- Automatic Dispensers
- Tea Makers
- Dental Unit Waterline

Features

- Compact size for easy integration into various equipment
- Instantly turns water into powerful natural sanitizer
- More effective than conventional UV lamps
- No chemicals involved
- Automatic and manual options available

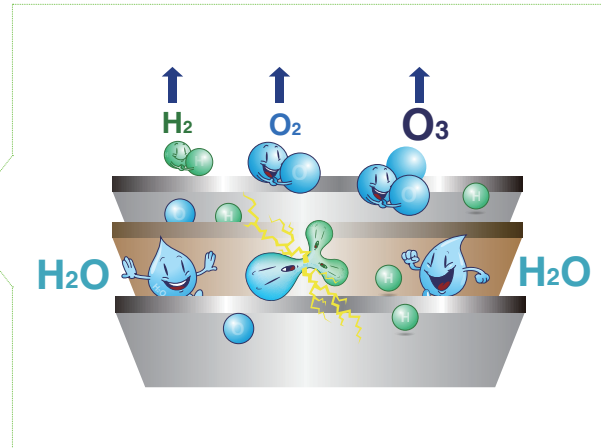
Benefits

- Water and waterline disinfection
- Protects against biofilms
- Sets high hygiene standards of your products
- Helps lower operation costs
- Residual free
- Reduces energy consumption

Specification

- Connection : 1/4 female
- Max. Capacity: 40ml
- Max. Pressure : 4 kg/cm² (60 psi)
- Power Supply : 24VDC, 1A
- Rated Power : 24W
- Protection Class : IP65
- Water temperature : 1 - 50° C (33.8 - 122° F)
- Concentration : up to 2.0 ppm (depending on the conductivity of water)
- Water Quality : filtered to ≤ 1µm, TDS 60-300 ppm, hardness < 120ppm as CaCO₃
- Weight : 0.4g (net)
- Dimensions : W70 x H116 mm Diameter : 50mm
- Life Span : 12 months (depending on usage)

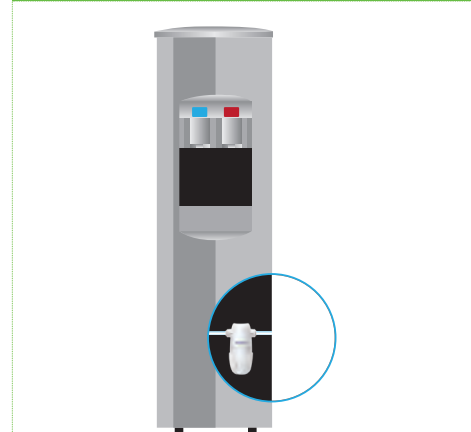
PFDS mini Configuration Diagram



Beverage Filtered Water System

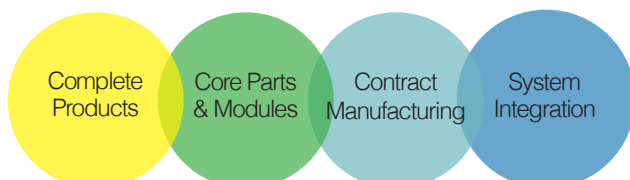


Drinking Water Dispenser



About Us

Since 1988, BES Group has been the global leader in electrolytic technology. Converting water to ultra pure activated-oxygen gas and hydrogen gas is our core technology. Series products include Food Safety & Sanitation, Healthy Environment, Clean Water, and Sanitation & Wellness. All products and components are tested for high performance, safety, and reliability with required certifications from government agencies and leading 3rd party labs.



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ISO 9001 Certified



Technologies applied are protected by one or more of the following patents: US 8,308,914 B2, US 9,757,697 B2, US 9,248,208 B2

BES GROUP (AUST) PTY LTD.

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Manufacturing

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Yantai, Shandong 264006 China

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Keep Healthy Hygiene Anywhere

Ozone Water Tumbler Plus

With the press of a button, the ozone water tumbler plus instantly converts tap water into a natural ozonated water. It is a safe and powerful natural sanitizer



Model: EOS7160-P
Image shown is a representation of the product only and variations may occur.



Features

- Requires only potable tap water
- Build-in rechargeable battery
- USB type C charging
- Compact and portable
- Professional grade high concentration dissolved activated-oxygen
- No chemical nor electrolyte additives required

Benefits

- Ideal replacement to chemical based sanitizers
- Easy to use at home, office and travel
- Natural and powerful sanitizer
- No irritating chemical formula
- Fully integrated and easy to use anywhere and anytime

HOME & OFFICE



ON THE GO



COMPACT & PORTABLE



Activated-Oxygen v.s Ordinary Chlorine-based Sanitizers:

Reacts **3000** Times

50 Times
Stronger Oxidation Performance

$O_3 \Rightarrow O_2$
No Chemical Residuals Except Oxygen

Specifications

Ozone Water Tumbler Plus

Model No.	EOS7160-P	Concentration*²	2.0 ppm
Net Weight	360 g	Reservoir Size	150 ml (0.04 gal)
Dimensions	D53 x H168 mm	Power	Input : AC 100 - 240V, 50/60Hz
			Output : DC 5V/1A, USB-C
Bottle Capacity	150 ml	Battery	Li-polymer Battery 3.7V/1000mAh
Water Quality	Clean tap Water* ¹ or mineral water	Battery Life	500 charges
Water Temperature	5 - 35°C (41 - 95°F)	Charging Time	50 - 60 minutes
Ambient Temperature	5 - 35°C (41 - 95°F)	Power Reserve	5 uses

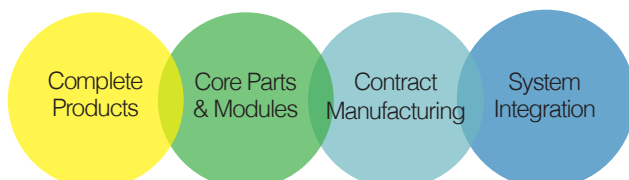
*¹-Potable water. If hard water is used (hardness >120 ppm CaCO₃; TDS>250ppm), regular cleaning with citric acid solution is recommended for maintaining performance.

*²-Meaning total oxidation concentration as equivalent to dissolved ozone in water, which may vary upon the water quality and temperature.



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