



Model: EOS7177-DD

Automatic Dental Water Disinfection System

Top Dental Professionals Recommend

The CDC recommends that water used in nonsurgical dental procedures have ≤ 500 Colony Forming Units per milliliter ($\leq 500\text{CFU/mL}$). The same standard is set for drinking water by the Environmental Protection Agency (EPA).

Traditional chemical cleaning is costly, time-consuming, and laborious. Using potentially harmful chemicals like hypochlorous acid may cause corrosion inside of the dental chairs, may not be totally effective, and can be irritating to both staff and patients.

Electrolytic ozonated water offers a safe solution for maintaining clean water and dental waterlines. **Only water and electricity are required. No harsh chemical additions.** The ozonated water **reverts to oxygen and water instantly after sanitation without harmful by-products.**

The DWDS ALL is designed for the dental unit waterlines, it applies a revolutionary electrolytic technology from the BES Group **converting tap water into ozonated water as a natural and powerful sanitizer.** It helps to **improve infection control, reduce biofilm growth,** and it can be configured according to clinic needs, **easily integrated into existing dental chairs, and does not change the original working habits.**



Features



Electrolytic technology

Only requires water and electricity, no treatment chemicals are necessary.



Savings

Helps reduce expensive chemicals and labor costs, DWDS ALL keeps sanitizing during dental unit water use.



Simple & Safe Sanitation

Ozonated water sanitizes the DUWL instantly when it flows through keeping the DUWL clean and safe.



Medical safety

Ozonated water inhibits biofilm growth in DUWL which reduces the risk of pathogen transmission and improves the protection of dental staff.



Simple Installation

Easy integration into existing water supply.



99.999%

Removes Bacteria & Viruses

Ozonated water removes oral-related pathogens effectively such as tooth decay-causing pathogens, periodontal disease, etc., and also passes the SGS cytotoxicity test without harming human skin tissues.



Biofilm

Removal & Prevention

Every dental chair has a complex structure, and the waterlines inside are not easy to disassemble. When cleaning and disinfection are easily restricted, **ozonated water can sanitize and prevent biofilms where the water flows to avoid DUWL damage.**

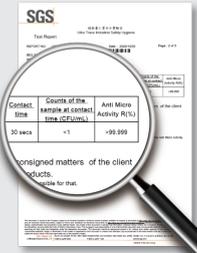


Safety

No matter how much you use

Dissolved ozone does not affect the acidity and alkalinity of the water, so it will not corrode the original dental equipment and water lines. It is convenient safe and simple to operate. At the same time, it reduces the risk of inadvertent traditional chemical cleaning accidents.

Testing Report



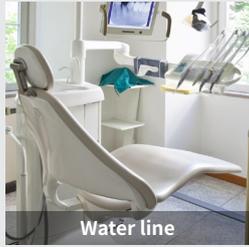
S. mutans
(Tooth decay)
> 99.999%



P. gingivalis
(Gum disease)
> 99.999%



Cytotoxicity Test
No harmful



Before & After

(Total Bacterial Count)



Cartridge Life

- Approx. 6000hr estimated deliverable treatment hours, 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



Wayne Simmons, DMD

"My recent personal and professional practice experience utilizing ozonated water 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 ABOL

Specifications

Water Line Connection	3/4"
Dissolved O ₃ Concentration	up to 1.0 ppm*
Max. Flow Rate	2000 LPH@ 3 kg/cm ²
Max. number of corresponding dental chairs	Up to 10 chairs
Max. Pressure	7 kg/cm ² (100psi)
Deliverable Treatment Hours	Approx. 6000hr**
Power	AC 100 - 240V, 50/60Hz, 96W
Input Water Requirement	Filtered clean water***
Optimal Water Temperature	5-40°C (41-104°F)
Dimensions	140 x 128.5 x 210.5mm
Weight (Net)	1.2kg (2.6 lbs)

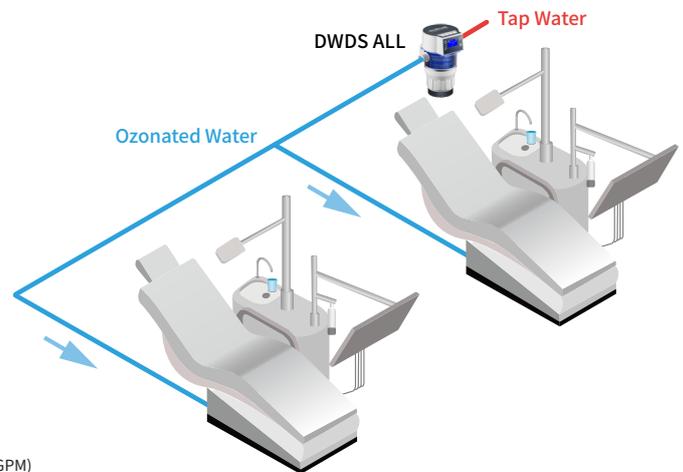
* Test conditions: Water pressure = 1.5kg/cm² (20psi); Temp. = 20° C; TDS = 60 ppm, Flow rate = 150LPH (0.75GPM)

** Depending on usage, system settings and water conditions. Longer service hours can be available if a lower treatment frequency is applied. Less service hours may be expected if using hard water.

*** TDS 40-300 ppm, Hardness < 250mg/l as CaCO₃

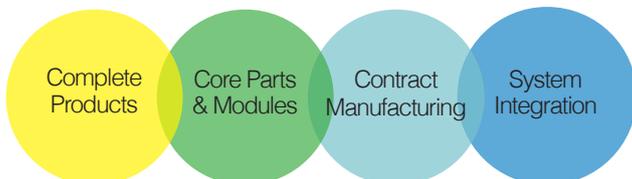
Note: DWDS ALL does not replace water filtration.

Configuration



About Us

Since 1988, BES Group has been the global leader of electrolytic technology that converts water to ultra-pure ozone and hydrogen. Products applications include Food Safety, Ice & Beverage, Dentistry, Healthcare, Professional Laundry, Professional Cleaning, Maritime, and Home Sanitation & Wellness. All products and components are tested for high performance, safety, efficacy and reliability with certifications from government agencies and leading 3rd party labs.



Technologies applied are protected by one or more of the following patents:
US 8,306,914 B2, US 9,757,697 B2, US 9,248,208 B2

North America

BIOSURE North America, LLC.
2020 Babcock Rd., Ste. 25
San Antonio, Texas 78229 USA
www.biosureozone.com

China

Shanghai Zhongte Environmental Technology Co., LTD
Unit 205, 998 Shenbin South Road, Minhang District,
Shanghai, 201106 China
www.biosurepro.com

Taiwan

Biotek Environmental Science Ltd.
5F, 98 Xingde Rd, Sanchung Dist,
New Taipei, 24158 Taiwan
www.besgroups.com

Oceania

BES GROUP (AUST) PTY LTD.
Ground Floor, 737 Burwood Rd,
Hawthorn, VIC 3122 Australia
www.besgroups.com.au

Asia/Headquarters

Biotek Environmental Science Ltd.
5F, 98 Xingde Rd, Sanchung Dist,
New Taipei, 24158 Taiwan
www.besgroups.com

Factory ISO 9001 Certified

Yantai United Ozonetec Corporation.
4F, 1 Wuzhishan Rd, ETDZ
Yantai, Shandong 264006 China
www.besgroup.com.cn