

Dental Unit Waterline Disinfection System DWDS



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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 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.**



Model: EOS7177-D

THE PICTURE IS SHOWN FOR ILLUSTRATION PURPOSES ONLY.
THE ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT.



99.999%

Removals bacteria & viruses



Biofilm

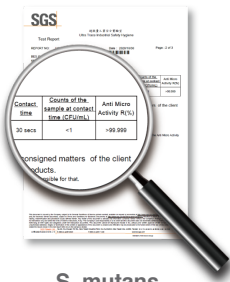
Removal & prevention



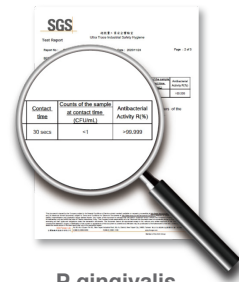
Safety

No matter how much you use

Testing Report



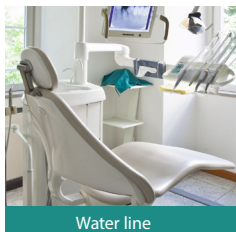
S. mutans
(Tooth decay)
> 99.999%



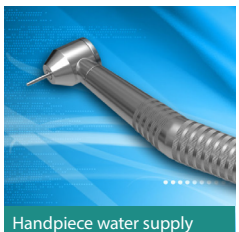
P. gingivalis
(Gum disease)
> 99.999%



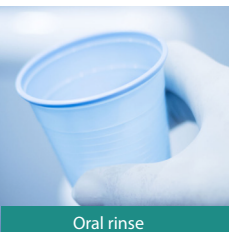
Cytotoxicity Test
No harmful



Water line

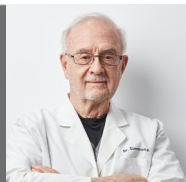
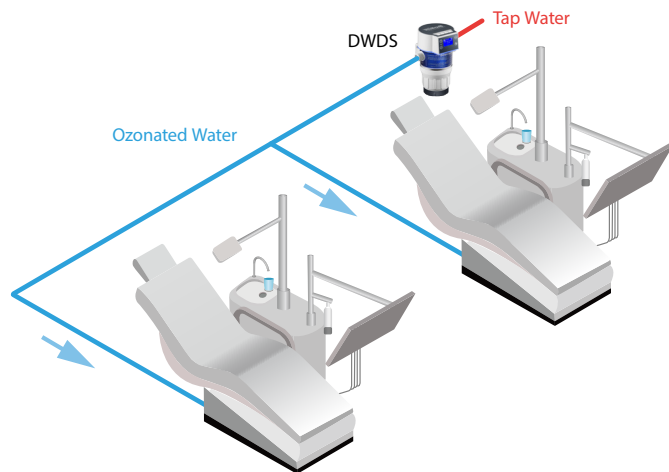


Handpiece water supply



Oral rinse

Configuration



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

Wayne Simmons

Specifications

Connection	3/4"
Dissolved Ozone Conc.	Up to 0.1 ppm*
Max. Flow Rate @ 3 kg/cm ²	2000 LPH
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, 5W
Water Quality	Filtered clean water***
Optimal Water Temperature	5 - 40°C (41-104°F)
Dimensions; Weight (Net)	W140 x D128.5 x H210.5mm; 1.2kg

* Water flow conditions: flow rate 100LPH (0.44GPM), pressure 1.5kg/cm²(20psi), TDS 60 ppm, temperature 25°C.

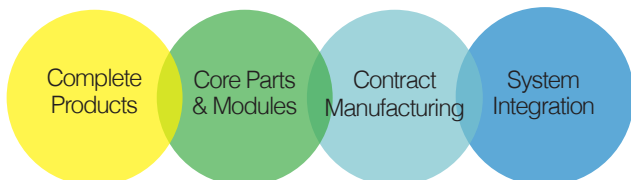
**Depending on usage, system settings and water conditions. Longer service hours can be available if a lower treatment frequency is applied. Less service hours may be expected if using hard water.

*** TDS 40-300 ppm, Hardness < 180mg/l as CaCO₃

Note: DWDS does not replace water filtration.

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.



Features



Electrolytic Technology

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



Savings & Convenient

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



Continuous Sanitation

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



Safer Team

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



Smart Self-cleaning (optional)

Reduce the maintenance cost by scale build-up issues in using high TDS water sources.



Simple Installation

Easy integration into existing water supply.



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

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2020 Babcock Rd., Ste. 25
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