



Ozone
Water Technologies

*“Save Money With
Green Technology”*



Welcome to Ozone Water Technologies

Ozone Water Technologies Inc. is on a worldwide mission to provide the highest quality of ozone water products to a variety of industries, primarily the laundry industry as utilized in Hotels, Hospitals, Care Homes, Institutions and Commercial laundries.

Our goals are a Green Initiative for the Environment, providing a superior product at a reasonable return on investment, and a quality service program for maintenance. We are blessed with numerous years of experience in laundry technology which gives credence to operational detail, knowledge, and problem solving.

We are committed to our people and our customers.

We foster a corporate environment that breeds excellence, recruiting the finest employees and empowering them to share our vision of becoming the pre-eminent provider of water and energy conservation products. We will encourage and reward personal initiative, team collaboration, and ethics in conduct, and will promote a workplace where each individual assumes a personal interest in the collaborative success of the organization.

Experienced Specialists

Ozone Water Technologies was born from many years of laundry operations experience by its founder, Jim Gross, who managed his family laundry for 17 years, operated all Marriott laundries for 3 years, and operated his own laundry consulting business for many years. As a consultant, he reviewed **ozone** washing possibilities and decided to enter the market to produce the most efficient **ozone** system at the lowest possible cost. LaundrOzone™ was born and has become a worldwide leader in hospitality laundries and disinfection for healthcare laundries.

Ozone Water Technologies is headquartered in Tryon, NC surrounded by a clean environment in the foothills of the Blue Ridge Mountains.

OWT's staff is made up of laundry professionals, energy specialists, and project managers who all understand our clients need for quality products and quantifiable results. We always welcome our client's input to new ideas and applications.



An Ideal Laundry Problem Solver

Ozone (O₃) is an unstable, triatomic form of ordinary Oxygen (O₂). It is formed naturally when oxygen is exposed to ultraviolet light, as in the upper atmosphere, or when subjected to high voltages such as lightning strikes. Ozone begins to degrade as soon as it is formed, either through reactions with other chemicals or by decomposition to molecular oxygen. Storage of **ozone** is impractical due to its rapid decay; therefore it must be generated on site at the time of use.

Ozone is one of the most powerful oxidants available and is generated via the same mechanisms employed by nature: Ultraviolet Light and powerful electrical fields. It is currently used in applications as diverse as disinfection of drinking water, maintenance of water quality in the aquaria and whale pools at sea parks, deodorization of smoke damaged property, disinfection of hot tubs and pools, and color/odor removal from wastewater streams.

As a powerful oxidant, **ozone** will react with many of the proteins, fats, oils, tannins and serum constituents that compose soils on textiles. Ozone oxidation cleaves many large molecules leaving smaller oxidized residuals with improved solubility characteristics which allow their removal with significantly less chemicals. Ozone functions similarly to color safe oxygen based bleaches, removing stains and destroying microbes while leaving fabrics undamaged and colors bright.

Ozone cleans fabrics by chemically reacting with insoluble soils through oxidation, causing them to break into smaller molecules which are water soluble and can be freed from the fabric by ordinary washing machine agitation. Other beneficial processes are also at work, such as how **ozone** acts on the properties of water, which makes the use of **ozone** with certain detergents containing alkalis and surfactants significantly more effective. Because of these cleaning enhancing properties, **ozone** can effectively be used in laundry operations to enhance the use of chemical detergents. Since **ozone** also has significant sterilization properties, it makes an ideal laundry problem solver.



"Save Money with Green Technology"

ABC LAUNDRY WATER AND ENERGY SAVINGS

WATER AND SEWER	
1,200	Actual Lbs/Day (x)
100%	Loading
1,200	Average Daily Lbs. (x)
365	Operating Days/Year
438,000	Pounds Per Year (x)
2.50	Gallons Per Pound
1,095,000	Annual Gallons Used (x)
30%	WATER Saved
328,500	Gallons Saved / Year
328,500	Gallons Saved / Year (÷)
1,000	Gallons Per Unit
328.50	Est. Annual Units Saved

ENERGY	
657,000	Gallons of Hot Water/Year at 60% (x)
8.33	Weight/Gallon of Water
5,472,810	Weight of Water/Year (x)
80	° (F) of Temp Rise
437,824,800	Total BTU's Required (÷)
70%	Heater Efficiency
625,464,000	Total BTU's (÷)
100,000	BTU's Per Therm
6,255	Therms Saved
6,255	Therms Saved (-)
90%	(10% Used for Heavy Soil)
5,629.18	Annual Therms Saved

ANNUAL SAVINGS		Est. Units Saved	Est. Annual Savings
WATER/1000 GALLONS	\$3.50	328.50	\$1,149.75
SEWER/1000 GALLONS	\$7.00	328.50	\$2,299.50
CHEMICALS SAVED	\$0.005	438,000.00	\$2,190.00
ENERGY RATE/THERM	\$1.50	5,629.18	\$8,443.76
LINEN REPLACEMENTS	\$12,000.00	0.2	\$2,400.00

TOTAL FIRST YEAR SAVINGS: \$16,483.01

TOTAL SYSTEM COST: 1 LZB-M4 WITH SAFETY MONITOR INCLUDING FREIGHT, INSTALLATION AND TRAINING \$14,000.00

ENVIRONMENTAL IMPACT ••••• CARBON FOOTPRINT OFFSET					
ACTUAL THERMS USED		LBS/THERM		POLLUTION REMOVED IN TONNE	
THERMS SAVED	5,629.18	CO2	11.71	CO2	30

PAYBACK: 10.19 MONTHS
RETURN ON INVESTMENT 117.74%

Disclaimer

Savings estimates are based on the OWT control over washing methods, wash formulas and chemistry. In order to achieve optimum savings and quality; the following conditions must be met: 1) That washing equipment must be in good working condition i.e. water valves and drains in operable condition (not leaking). 2) Supply signals working properly. 3) Microprocessor functions are all operable. 4) Proper loading values are followed. 5) Water conditions are "soft". In addition, cooperation with existing chemical supplier is crucial to optimum performance. As a universal standard commodity pricing is used in the chemical savings calculations. We assure you that your linen quality using the OWT injection system will be the same or better than it is presently.



"Save Money with Green Technology"



Save Money While Improving Results

"Green Technology for Today's Environment"

- ◆ Reduce Energy Costs
- ◆ Reduce Water Usage
- ◆ Reduce Effluent Charges
- ◆ Reduce Wash Time
- ◆ Reduce Linen Replacement



THE RETURN ON INVESTMENT is usually about 12 months, depending on the laundry volume and the water, sewer, and energy rates at the location. The prime savings is energy reduction of over 70%, the volume of water saved is about 25% combined with reduced waste water of about 20%. Added life to the linen that remains in service has been proven. Rebates and incentives are available in some areas to encourage conservation which will improve the return on investment.

One hundred years after its discovery, ozone has become the applied science for the 21st century.

For More Information:
Contact your Ozone representative

www.ozonewatertech.com
1-866-360-0303 1-828-859-2015
info@ozonewatertech.com

LaundrOzone™ For Laundry Washing Machines



The **LaundrOzone Washing System** concept uses cleaner, environmental friendly technology OZONE to reduce water usage and energy by decreasing the number of laundry wash cycles and eliminating hot water. Water and energy are substantially reduced, while chemicals are used efficiently. Contamination of effluent is reduced, and linen life is increased. Wash cycle time is also reduced increasing productivity, saving labor and maintenance.

The **LaundrOzone Washing System** consists of an ozone generator, with an oxygen feed device and oil free compressor. The system is connected to the washer by an injection rod and a control wire. Water is then charged with the required amount of ozone. An Eco Sensors OS-1X Ozone Switch™ is supplied with each generator to meet OSHA regulations.

The **LaundrOzone Washing System** uses an ozone generator that provides a direct feed of ozone to each washer. This system is in continuous operation during each wash and rinse cycle. A controlled connection to each washer instructs the ozone generator when to feed ozone into the washer.

The **LaundrOzone Washing System** is approved for hospital disinfection washing in many countries.

Ozone Water Technologies, Inc
is the worldwide supplier for:

- ◆ Hospitality Laundries
- ◆ Healthcare Laundries
- ◆ Institutional Laundries
- ◆ Commercial Laundries
- ◆ Industrial Laundries

Additional Ozone systems for:
Swimming Pools, Water Purification,
Cooling Towers, and Food Processing



**ECO SENSORS
OS-1X Ozone Switch™**



"Save Valuable Natural Resources"



“Save Money with Green Technology”

Model	Model Description
LZB - 10*	For all size washers up to 450lb/200kg wash capacity.
LZB - 20D*	For two washers up to 950lb/425kg combined wash capacity.
LZB - M1.1**	For one washer up to 100lb/45kg wash capacity.
LZB - M2.2**	For one to two washers up to 200lb/90kg wash capacity.
LZB - M3.3**	For one to three washers up to 300lb/135kg wash capacity.
LZB - M4.4**	For one to four washers up to 400lb/180kg wash capacity.

* Please note that each cell in the 10 and 20D can handle one washing machine up to 450lb/200kg.

** Please note that each cell module can handle one washing machine up to 100lb/45kg.



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Ozone Water Technologies, Inc. is a U.S. corporation providing services worldwide in environmental technology. OWT specializes in ozone applications, installation and service. To find out more about Ozone Water Technologies and it's complete line of industrial and commercial environmental ozone systems, visit:

www.ozonewatertech.com

1-866-360-0303 1-828-859-2015

SPECIFICATIONS:

ELECTRICAL REQUIREMENT:

120/240 V- 60/50 hz-single phase

ELECTRICAL DRAW:

155 watts - 2 amp to 370 watts - 3.3 amps

OZONE OPERATING DRAW: 1.3 amps

SIGNAL OUTPUT: 24 volts to dry contact

OZONE INJECTION INPUT: 1/4" or greater below water line

SPACE: Wall or rack mounting within 20 ft of washer.

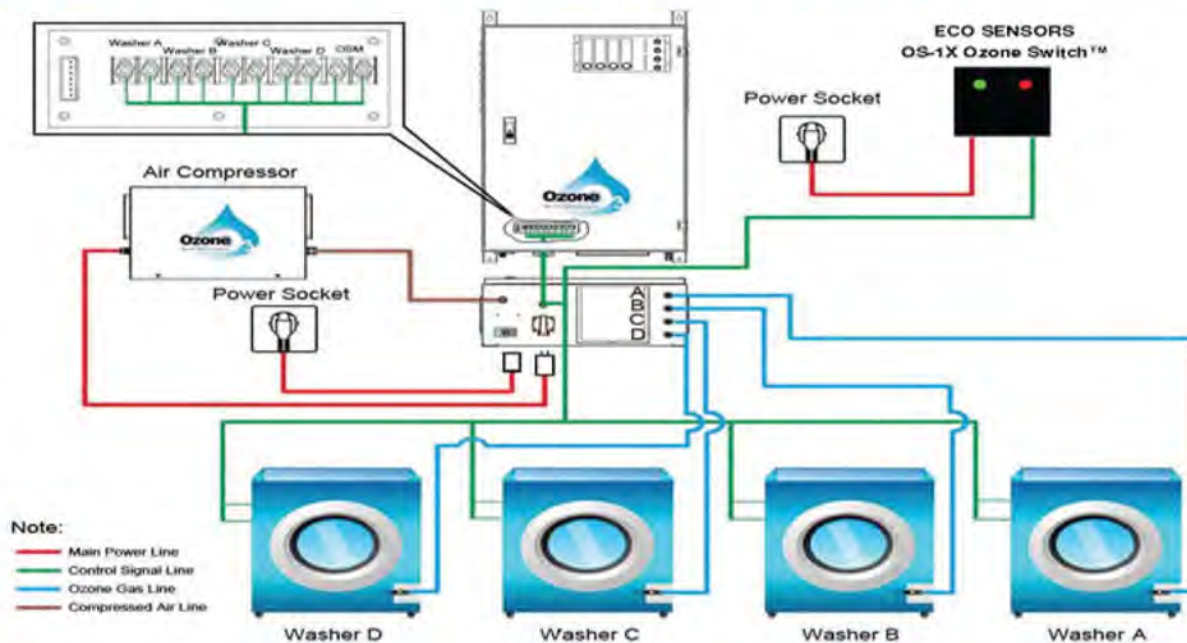
Standard AC receptacle required.

WEIGHT:

Ozone Generator - Ranges from 57lb/20kg to 84lb/38kg

Oil Free Compressor - 26lb/13kg

SAFETY MONITOR: MEETS OSHA REQUIREMENT and is supplied with each ozone generator.





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SAVINGS ANALYSIS QUESTIONNAIRE

Name _____ Title _____ Phone _____

Mobile _____ Fax _____ Email _____

Street/P.O. _____ City/State _____ Zip Code _____

Country _____ Currency _____

1. Hospitality Rooms/Healthcare Beds: _____ 2. Occupancy: _____ %

3. Pounds (lbs) or Kilograms (kgs) washed per occupied room: _____ or per patient day: _____

4. Total lbs/kgs washed per: week: _____ month: _____ year: _____

5. Gallons/Liters per lb/kg (if known): _____ or usage: _____ per: _____

6. Utility rates: Water: _____ /ccf or 1000 gal or _____ metric measurement

Sewer: _____ /ccf or 1000 gal or _____ metric measurement

7. Energy rates: Fuel Source-gas/oil/other: _____ per: _____

Type of Heater _____ Efficiency: _____ %

8. Temperature rise: Ground Water Temp. _____ °F/°C Wash Temp. _____ °F/°C

9. Chemical costs: Annual _____

10. Linen Replacement costs: Annual _____

11. Washer: SIZE/MFG/MODEL #/AGE • CONTROL TYPE • LOADS/DAY • DAYS/WEEK • HRS/DAY

#1 _____

#2 _____

#3 _____

#4 _____

12. Current conditions: Water Hardness: _____ ppm or _____ grains Water Softened? _____

Yes or No

Quality: _____

Rewash: _____ % Whiteness Retention: _____

Attest: Signature: _____ Date: _____

NOTE: Please furnish copies of operating wash programs if available.

FAX TO: 1-828-859-0467 to receive your savings analysis or email to info@ozonewatertech.com