

The LUX Hybrid Oxidation Laundry System is the innovative way to substantially reduce the need for hot water during the washing process. Traditional laundry practices use hot water as a primary method to clean. Now there is a new light on the horizon. The LUX Ultraviolet Oxidation Laundry System takes a giant step forward by using ozone to dramatically reduce the use of hot water and other utilities. The LUX generator's space age technology thrusts personal protection light years ahead!

### SAFETY

The use of ultraviolet light for aqueous microbiological disinfection has decades of proven performance in municipal and rural potable water sources across North America and the world. The LUX Oxidation Laundry System uses many of the same basic components to expand this technology into a primary treatment source for your laundry application. Its hydroxyl, ozone and peroxide generating lamp is enclosed in a sealed stainless steel chamber. A visual LED power indicator light is included on all models. All models include an audible alarm which automatically sounds in case of lamp or ballast failure. This feature helps to ensure that your laundry is getting cleaned and disinfected every time!

### HOW IT WORKS

Hydroxyls, ozone and peroxide are effective oxidizing agents produced inside a sealed stainless steel generating chamber. As air is drawn through the chamber, molecules of oxygen recombine to create hydroxyls (OH), ozone (O3), and peroxide (H2O2). The advanced chemistry oxidizes contaminants very quickly and leaves no harmful byproducts. It is an FDA approved sanitizer and is USDA certified organic. The oxidizers naturally dissipate back into pure oxygen in approximately 7 minutes.

### TECHNOLOGY



The LUX system by OMNI Solutions incorporates **Constant Current Output** ballast.

This system offers:

- Optimum hydroxyl, ozone and peroxide output over a wide range of input voltages
- Constant lamp current
- Energy efficient electronic lamp driver
- Increased ballast life and cooler operating temperatures
- Audible lamp failure indicator (S2Q-0Z & S8Q-0Z only)
- Lamp replacement reminder (S2Q-0Z & S8Q-0Z only)

### WATER IQ

In addition to bacteria (E. coli), virus, algae, mold and others, UV systems are effective against protozoa such as Cryptosporidium and Giardia lamblia. UV effectively destroys these protozoan cysts at dosage levels well within the levels delivered by ultraviolet disinfection systems.

SPECIFICATIONS		
LUX MODEL	S2Q-OZ S2Q-OZ/2	S8Q-OZ S8Q-OZ/2
		
DIMENSIONS		
Overall Dimensions (Width x Depth x Height)	6.5cm x 6.5cm x 43.2cm (2.5" x 2.5" x 17")	6.5cm x 6.5cm x 90cm (2.5" x 2.5" x 35")
Port Size	3/8" OD	3/8" OD
Shipping Weight	2.7 kg (6 lbs)	4.5 kg (10 lbs)
ELECTRICAL		
Voltage	100-130V / 50-60 Hz	100-130V / 50-60 Hz
Power Consumption	24W	42W
Audible Alarm	YES	YES
Materials of Construction	304 stainless steel ozone generating chamber	304 stainless steel ozone generating chamber

LUX MODEL	SCFH	GAS FLOW				
		5	4	3	2	1
S2Q-OZ S2ROZAP	ppm	260	294	344	419	462
	mg/l	0.51	0.58	0.67	0.82	0.91
	gr/hr	0.07	0.07	0.06	0.05	0.03
S8Q-OZ S2ROZAP	ppm	809	915	1070	1304	1437
	mg/l	1.59	1.79	2.10	2.56	2.82
	gr/hr	0.22	0.20	0.18	0.18	0.08

BENEFITS	FEATURES
<p>LUX substantially reduces gas and water consumption, enhances chemical performance and extends linen life.</p> <ul style="list-style-type: none"> <li>• Save on utility costs</li> <li>• Improves chemical performance</li> <li>• Extends fabric life</li> <li>• Keeps fabric softer longer</li> <li>• Superior sanitation <ul style="list-style-type: none"> <li>• Eliminates superbugs</li> </ul> </li> <li>• Reduces carbon footprint</li> <li>• Improves operation efficiency <ul style="list-style-type: none"> <li>• Shorter wash and dry times</li> </ul> </li> <li>• Return on investment</li> </ul>	<ul style="list-style-type: none"> <li>• Sealed stainless steel chamber protects internal electrical components</li> <li>• High quality stainless steel chamber is designed for simple cleaning and installation of the hydroxyl generating lamp</li> <li>• Separate generating chamber and ballast for installation flexibility</li> <li>• Constant current ICE ballast for operational efficiency</li> <li>• Audible alarm sounds if lamp fails</li> <li>• Power on LED visual indicator light to ensure continuous protection</li> <li>• Low power consumption. Less than a 40 watt light bulb to continuously protect and clean the laundry</li> <li>• Optional Command Center for system monitoring and control available</li> </ul>

### MAINTENANCE

Keep the UV lamp clean, free of dust or other air contaminants and make sure that the unit is on and functioning. An increase in soil load can affect the amount of hydroxyls needed. To remedy, simply adjust the air control valve on the manifold to increase the supply or use our optional patented precise dosing system to control a specific amount of hydroxyls for each wash step.

### INSTALLATION

There are various methods of installing the LUX system. Optional installation kits are available from your supplier. Consult the installation and maintenance manual for further instruction.

### REPLACEMENT PARTS

S415rol – ozone lamp for S2Q-OZ, S2Q-OZ/2  
S8ROL-4P – ozone lamp for S8Q-OZ, S8Q-OZ/2  
OR-315 – o-ring for ozone lamps