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## OZONE – For Rest Rooms and Hand Washing

Ozone finds unique application for air & water disinfection and for odour control in public and commercial rest rooms.

The use of ozone in public rest rooms can check odour & diseases spread from the human waste. Urine itself is sterile, 0% bacterial. Fecal matter is 95% bacterial, and may include pathogens. Microbes, bacteria and viruses thrive in humid conditions in the rest rooms.

There are surface areas in water flush urinals that are constantly damp where bacterial and fungal growth appears (bio films and stains). These growth colonies are seeded by fecal matter carried in air –borne droplets and aerosols that are produced by the turbulence in the rest room toilets. When the rest room urinals are themselves flushed they in turn create aerosols containing the new –growth microbes, and inject them in to the rest of the rest rooms.

Model	O3-0.25-W	O3-1-W	O3-2-W
Capacity in mg/hr	250	1000	2000
Installed Power in Watts	40	80	145

Ozone when injected through the flush water will have high ozone residuals to disinfect and oxidize biofilms and stains in the wetted parts of the water flush urinals.



The undissolved ozone will also be released through the flush, which will deodorize the human waste and disinfect the aerosols preventing the spread of microbes and pathogen in the rest rooms. The use of ozonated water in cleaning of the rest room will ensure the surfaces are free of microbes and bioslime.

Ozone Concentration mg/l (approx)	Redox Potential mV	Bacterial count E.coli / 100 ml
0.00	0	
0.005	100	
0.01	200	300
0.02	300	30
0.04	400	3
0.06	500	2
0.08	600	1
0.10	700	0
0.2	1200	0

Ozone repels mosquitoes and other insects complementing vector control without the use of any chemicals.

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