



# AQUEOUS OZONE TECHNOLOGY

CHANGING THE WAY  
THE WORLD CLEANS

## WHY IT WORKS...

1



Inside lotus PRO®, oxygen from the air is safely turned into ozone then infused into ordinary tap water.



2



The ozone is attracted to germs, stains and contaminants.



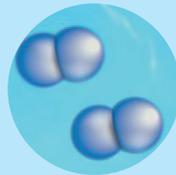
3



Harmless to people but deadly to germs, stains and contaminants, the ozone quickly attacks and eliminates them.



4



The ozone turns back into oxygen. Only pure oxygen and water remain after cleaning and sanitising.



## WHAT IS OZONE?

Ozone is a naturally occurring gas produced in the upper atmosphere by ultraviolet light from the sun. It comprises nothing more than three oxygen atoms in the form of  $O_3$ .

Oxygen in this form is very unstable and it looks to shed the extra atom at the earliest possible opportunity. In the simplest of terms, it is this property that makes ozone excellent at killing bacteria, viruses and fungi spores and at oxidizing odours, stains and dirt.

Lotus PRO® creates ozone artificially by utilizing an electrical charge and then infuses it into water creating aqueous ozone.

Ozone is a 50% stronger oxidant than chlorine bleach and is 3,000 times faster acting.

## HOW DOES OZONE WORK?

The instability of ozone makes it a very powerful oxidant because when it decays back into  $O_2$  it releases a single oxygen atom  $O_1$  from each of the  $O_3$  molecules.

As oxygen cannot exist as  $O_1$ , these loose oxygen atoms must instantly bond with any other molecule that will accept it. These other molecules can be in the form of bacteria or viruses (resulting in their destruction), or odours and dirt (resulting in their elimination). Healthy cells are left unaffected because of a protective enzyme coating.

After their work is done, the two loose oxygen atoms revert back to their original state of  $O_2$ , leaving nothing behind but water and oxygen.

## HOW LOTUS PRO® WORKS

- 1 Cold tap water enters the Lotus PRO® Stabilization Module.
- 2 The Lotus PRO® Stabilization Module mixes with the cold tap water stream, expanding the cleaning time up to 24 hours.
- 3 Treated water leaves the Lotus PRO® Stabilization Module.
- 4 Treated water enters the Lotus PRO® High Capacity Unit.
- 5 Oxygen enters the dispenser through the replaceable filter cartridge.
- 6 4,500 volts of electricity transforms Oxygen ( $O_2$ ) to Ozone ( $O_3$ ).
- 7 Ozone gas that is not saturated in the water is separated and safely dispensed as oxygen.
- 8 Aqueous ozone leaves the dispenser to fill mop buckets, trigger sprayers, auto scrubbers and carpet extractors.

