

# Hydroxzone

Ozone generator

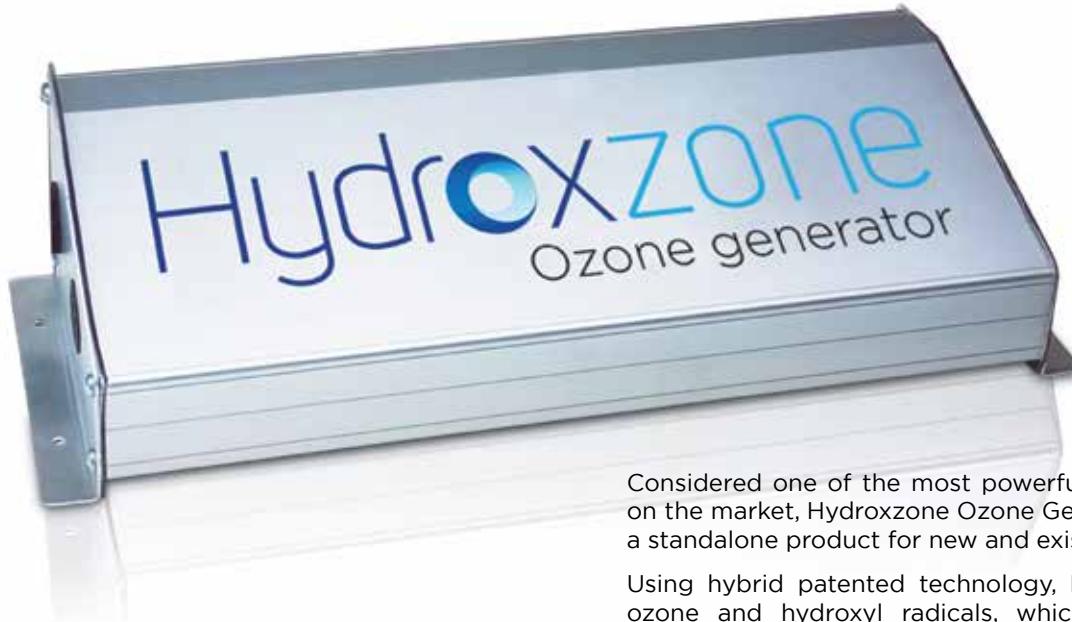


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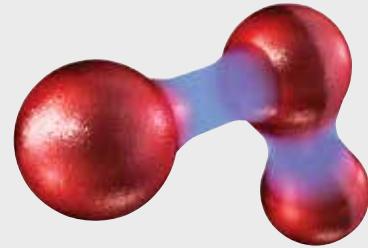
Considered one of the most powerful sanitisation systems on the market, Hydroxzone Ozone Generator is designed as a standalone product for new and existing swimming pools.

Using hybrid patented technology, Hydroxzone produces ozone and hydroxyl radicals, which together increases oxidation and sanitisation efficiency.

- Constant ozone output, not adversely affected by temperature or humidity.
- Produces hydroxyl radicals, considered one the most powerful oxidisers found in nature.
- Incorporates a Dynamic Venturi Injector to minimise pressure drop and increase efficiency of the ozone transfer.
- No moving parts, requiring zero maintenance.
- Enhances the sanitisation by reducing the demand the sanitiser.

# What is ozone (O<sub>3</sub>)?

- It is a form of energetic oxygen
- Produced naturally through sparks and UV-Light
- A powerful oxidant
- Ozone performs two major functions in water that effectively removes contaminants and organic loading:
  - Oxidation of organic compounds
  - Disinfection of micro organisms



# What are the benefits of using ozone?

- Destroys bacteria, and viruses
- Decreases chlorine demand
- Produces crystal clear water
- Substantially reduces maintenance, time and cost in pools and spas
- Eliminates chlorine odour (chloramines)
- Does not produce harmful by-products
- An excellent flocculant

# How does Hydroxzone work?

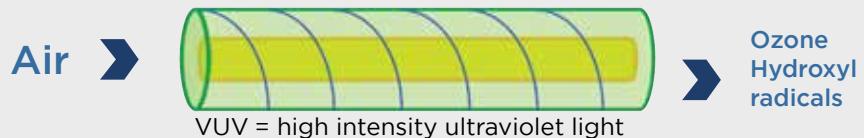
In the natural world, ozone (O<sub>3</sub>) is created when oxygen molecules are subjected to ultraviolet (UV) rays from the sun or an electric charge from lightning. Some oxygen (O<sub>2</sub>) molecules are split into single oxygen atoms, which then combine with other O<sub>2</sub> molecules to form ozone. By simulating nature, Hydroxzone converts ambient air into ozone, free from impurities.

Hydroxzone ozonator uses ultraviolet light to produce ozone - just like the sun's natural process.



Air flows into the modified corona hybrid arc tubes tube. Oxygen in the air interacts with the corona hybrid arc tubes light source.

Pure ozone and hydroxyl radicals are produced.



Hydroxzone uses a modified VUV (High Intensity Ultra Violet Light) ozone tube as a corona electrode to simulate nature; the result is an ozone generator that produces ozone using corona discharge technology and high-energy light in one compact system.

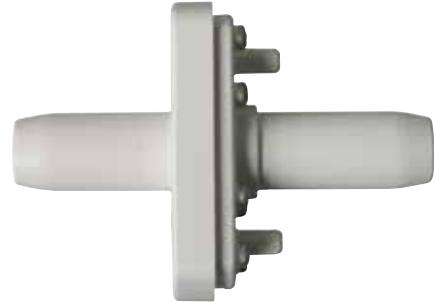
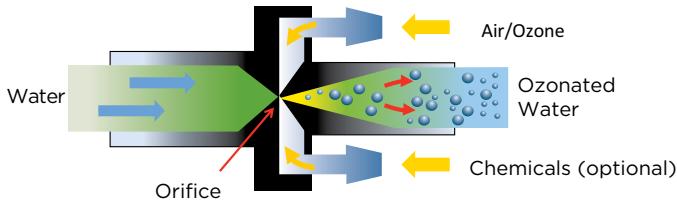
A safe, clean and effective way of using the extra oxygen molecules to keep your pool sanitised.

The natural flocculating effect (clustering together of impurities) that ozone has on the water, greatly improves filtration performance. Oxidised contaminants are easily removed, leaving your pool crystal clear.

# Dynamic Venturi Injector

Hydroxzone ozone generator uses a Dynamic Venturi Injector that enhances the transfer of ozone to the water.

- Specially designed to minimise pressure drop

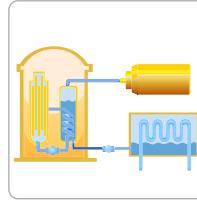


## Hydroxzone versus Standard Corona Discharge Ozone Generators

PERFORMANCE PARAMETER	HYDROXZONE	STANDARD CORONA DISCHARGE
Steady Output	✓	✗
Free of Harmful Byproducts	✓	✗
Free Nitrous Compounds	✓	✗
Impact of Increasing Humidity	✓	✗
Impact of Increasing Temp	✓	✗
Low Voltage	✓	✓
Low Power Consumption	✓	✓



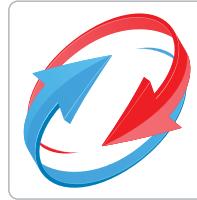
Low energy consumption



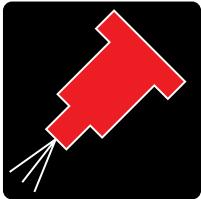
Enhanced mass transfer



Hybrid ozone production technology



Enhanced sanitiser effect



Efficient ozone injection



No moving parts

## Warranty

COMPONENT	WARRANTY PERIOD (MONTHS)
Hydroxzone	24
Commercial Installations	12
Labour	12

\*Please refer to Waterco's Warranty terms and conditions

## Maximum Recommended Pool Sizes

EQUIPMENT	POOL SIZE (kL)
Hydroxzone (*)	80
Hydroxzone + Hydrochlor/ Electrochlor 30A (Temperate Climate)	120

(\*) An approved sanitiser must be used in swimming pool/spa

## Tech Specs

Power Input (volts)	120-277
Frequency (Hz)	50/60
Degree of Protection	IPX4
Max. Current (A)	0.2
Temperature Operating Range (°C)	-32 to 60
Dimension (mm)	425x160x90

## CONTACT WATERCO

Waterco's head office is situated in Sydney, Australia with international offices, manufacturing plants and warehouses located in Australia, New Zealand, Malaysia, Indonesia, Singapore, China, the US, Canada, France and the UK.

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