

# CX-Series Ozonators



The CX-Series are OzonZ<sup>™</sup> latest offering of compact but High Output Corona Discharge ozonators.

They are carefully engineered using the finest materials available for maximum ozone production and years of uninterrupted service.

These versatile machines have multiple applications in water and air purification:

- Spa pools, Swim Spas and small Swimming Pools
- Domestic rain water tanks
- Ozonated water for health drinks
- Hydroponic nutrient solutions
- Deodorising motor vehicles and boats
- Removal of tobacco smoke & cooking odours
- Aquaculture, water features & algae control
- Small water treatment systems.

A small amount of electricity and air are the only raw materials used to produce nature's own purifier that:

- Safely and effectively destroys bacteria, coliforms, viruses and cysts.
- Reduces chloramines
- Destroys oils, lotions and other contaminants in the water
- Removes unpleasant tastes in the water
- Destroys odours in air



## Key Features

### Simple and Reliable

These machines are simple to operate and feature a reliable high output ozone reaction chamber. Expect a decade's long life-span.

### Quality above all

Our products are constructed of premium grade components. Attractively housed in a silver anodized aluminium enclosure.

### Easily installed and maintained

Installation can be done in minutes by the owner. They require no regular maintenance and are fully serviceable.

### Basic Install Kit Includes

- Check valve
- 1 m clear PVC ozone delivery hose
- Power cord
- Installation and owners manual

### Options to suit your application:

- Venturi injectors
- Ceramic diffusers
- Spa Pool through-wall diffusers
- Accessory kits

## Operation

The heart of the ozonator is the ozone cell which uses a small amount of electricity to convert the free oxygen in the air into ozone gas. Depending on your application requirements, the ozone is either sucked into the water or pumped into the water (or the air).

The CX-Series ozonators are *suction* operated using a dedicated venturi injector in the return line to the water to deliver the ozone when the circulating pump is running. This injects the ozone into the water in a stream of tiny bubbles that allows maximum contact time and the best possible transfer of the ozone into the water for treatment.

The CXP-Series ozonators are *pressure* operated using the built-in low pressure air pump. This delivers the ozone into the air or with the aid of a dedicated ceramic diffuser bubbles the ozone into the water for treatment.

## Installation

The ozonator comes with a comprehensive manual and can usually be installed in minutes by the owner. The unit can be mounted in any position, preferably in a sheltered and dry position close to the application. Simply fix it to the wall with four screws, fit the ozone delivery hose and connect the power cord.

In a 'below the water' installation we strongly recommend fitting our J-Tube backflow preventor in the ozone delivery line to prevent water entering the machine in case of the check valve failing.

## Technical Data

Model	CX-100	CX-250	CX-500	CX-750	CXP-250	CXP-500
Ozone Production (l)	100 mg/hr	250 mg/hr	500 mg/hr	750 mg/hr	250 mg/hr	500 mg/hr
O3-Delivery	Venturi	Venturi	Venturi	Venturi	LP-Pump	LP-Pump
Weight (kg)	1.1	1.3	2.3	3.3	2.3	3.3
Dimensions L x W x H (mm)	185x135x75	185x135x75	385x135x70	485x135x75	385x135x75	485x135x75
Power	10 W	12W	26 W	40 W	20 W	30 W
Supply	220 - 240 VAC / 50 Hz (110 VAC / 60 Hz on request)					
Ozone cell	High Output Corona Discharge Type					
Construction	Silver anodized aluminum					
Installers Kit Includes	Check valve, 1 m clear PVC hose, NZ/AUS style power cord. Other kits are available to suit application requirements					
Operating Conditions	0-45°C (non condensing), 65% Relative Humidity					
Ozone outlet adaptor	¼" Barb (6 mm)					
Power inlet	IEC 3-pin male socket					
Protection Class	IP20					
Approvals	C-Tick, CISPR 22:2002, AS/NZS 3136, AS/NZS 3100					

(l) on dry air @ 10 L/m

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## What is ozone?

Ozone, a form of oxygen, was first discovered in 1839 and is named after the Greek ozein. This natural gas is known to be over 15 times more powerful and 3000 times faster acting than traditional oxidants like chlorine. It is widely used as a disinfectant, killing any bacteria, virus, mould and fungus and as an oxidant, 'burning-up' organics, bad taste and odours, heavy metals, algae and colour removal. Yet, despite this, it is a product so natural reverting back to oxygen without leaving any harmful chemical by-products. Since it is thermally unstable, it must be produced in the ozonator on-site at a rate at which it is needed.

## Ozone Rating

The ozone concentration is measured in g/m<sup>3</sup> at various air flow rates (l/min) and from this data the ozone production (g/hr) can be determined.

Comparing the performance of different ozonators should be done by comparing the ozone production or concentration at the same air flow rate and with the same feed gas.

## Other Products

- UV based ozonators
- Corona Discharge ozonators
- Air dryers
- Oxygen concentrators
- ORP/REDOX monitor / controllers
- Ozone in air monitors
- Venturi injectors and manifolds
- Contact tanks
- Fittings, check valves

