

P-Series Ozonators

Corona Discharge Types

P15, P15/AD, P31/AD & P51/AD



The Difference is Crystal Clear

A correctly sized and installed OzonZTM pool ozonator will produce crystal clear, soft water that is free of the unpleasant odours associated with chemically treated pools. The result is a healthier and more enjoyable swimming pool experience.

Ozone is a natural gas, known to be over 15 times more powerful and 3000 times faster acting than traditional sanitisers like chlorine.

What are the benefits?

The ozonator injects ozone into swimming or spa pool water in a stream of tiny bubbles. Correctly sized, it will kill all bacteria, viruses and fungi. The dissolved ozone decomposes and assists flocculation of organic waste thereby enhancing the effectiveness of sand filters producing brilliant clear chemical free water.

It puts an end to skin, eye and nasal irritation. It is friendly to concrete, fibreglass and vinyl pools, prevents scaling and reduces corrosion.

In fact, based on the amount of chemicals and cleaning costs you will save, your ozonator will probably pay for itself within four years. But even more important than savings is the improved health benefits and maximised enjoyment that you will receive from your prized asset.

Key Features

Powerful and compact

Features a state of the art pulse injected Corona Discharge Cell fed from a built-in automatic Air Dryer delivering a high concentration of ozone at low air flows. Solid-state electronics ensures efficient operation at low electrical cost. Attractively housed in a small foot print stainless steel enclosure intended for wall mounting.

Quality above all

These machines are designed and constructed from premium grade commercial components. Expect a decades long life-span. Easy to service and maintain. Build to NZ, AUS and EU electrical safety and EMC regulations.

User friendly function display

A built-in air flow meter facilitates easy set-up and monitoring. Multi colour LED indicator lights display all essential functions on the front panel:

- Power
- Ozone
- Dryer *
- Air flow low *
- Temperature high *

Diverse Applications

P-Series Ozonators are well suited for many other water and air treatment applications such as food sanitation disinfecting bottled water, removal of pathogens in horticultural applications, removal of iron, manganese and hydrogen sulfide in source water, purifying domestic water, and removal of taste and odours in air and water.

Operation

OzonZ's P-Series Ozonators are suction operated, utilising a dedicated venturi injector in the return line of the pool to deliver ozone when the circulating pump is running. This injects ozone in a stream of tiny bubbles that allows maximum contact time and the most efficient possible transfer of ozone into the water flow.

Installation

Your complete OzonZ P-Series Install Kit includes ozonator, venturi injection manifold, check valve assembly and ozone delivery line. Your Ozonator is easily installed by yourself or by your pool builder.

Simply mount the ozonator on the wall convenient to the pool equipment, and fit the venturi injector after the filter in the pool return line.

In a 'below the water' installation we strongly recommend fitting OzonZ's J-Tube backflow preventor in the ozone delivery line to prevent water entering the ozonator in case of the check valve leaking at the venturi.

After installation, simply power-up the ozonator and set the air flow to the recommended value by adjusting the bypass valve on the injector manifold.

For improved performance or in commercial installations consider installing a small circulating pump driving the venturi injector 24 hours per day. An optional contact tank, installed after the venturi will improve the mixing of ozone and water, convert undissolved ozone into oxygen, prevent gas escape into the return line, and eliminate noise.

Technical Data

Sizing your domestic pool ozonator is easy, simply select the correct ozonator from the pool volume table below. Contact us for your commercial requirements.

Model	P15	P15 / ADX	P31 / ADX	P51 / ADX
Pool Size Guide	50,000 L Max	90,000 L Max	180,000 L Max	250,000 L Max
Ozone Production	0.75 - 1.0 gr/h @ 5 L/min	1.5 gr/h @ 5 L/min	2.8 gr/h @ 5 L/min	4.5 gr/h @ 5 L/min
Weight	3 kg	7 kg	9 kg	12 kg
Unit Dimensions	205mm(W) x 365mm(H) x 145mm(D)	250mm(W) x 365mm(H) x 140mm(D)	250mm(W) x 455mm(H) x 190mm(D)	345mm(W) x 455mm(H) x 190mm(D)
Electrical	220-240V@ 25W	220-240V@ 25W/125W**	220-240V@ 45W/135W**	220-240V@ 85W/175W**
Fan	120mm	120mm	120mm	150mm
Ozone cell	Pulse Injected Corona Discharge			
Air dryer	N/A	Automatic Heat Regenerative Desiccant		
Construction	Powder Coated Steel Cabinet			
Installers Kit Includes	Venturi injector manifold, Check valve, 2m Teflon Ozone delivery hose, NZ/AUS Power cord			
Operating Conditions	0-40C (Non condensing) - 75% Relative Humidity			
Ozone outlet adaptor	1/4" NPT Male, stainless steel			
Power inlet	IEC 3-pin male socket			
Protection Class	IP20			
Approvals	CTick, EN60335, AS/NZS 3136, AS/NZS 3100			

* Not applicable for model P15;

** Dryer regenerating

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Dealer:

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, removing organics, taste and odours, heavy metals, algae and colour when correctly applied.

Ozone is completely natural, with no harmful by-products. Because ozone is thermally unstable, it must be produced in the ozonator on-site at the rate of which it is needed.

Ozone Rating

The ozone concentration is measured in g/m³ 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.

Running the ozonator on 'ambient air' (by leaving the dryer out) can drastically reduce the ozone production. It also introduces the formation of nitric acids which reduces the lifespan of the equipment.

Install Kit Includes

- P-Series Ozonator
- 50mm (or 40mm) variable injector manifold
- Check valve assembly and 2m Teflon ozone delivery hose
- Power cord and operators manual

Options

- J-Tube backflow preventor
- Contact tank with off-gas valve
- ORP monitor / controller
- Extended 3 year factory warranty

