

Portable Spas or Custom Installations

SPECIFICATIONS		
Electrical		230 VAC / 0.42 amps / 96.6 Watts
EMI and Transient Pro	tected	Up to 2,000 VAC
Shipping Weight (appr	ox)	1.13kg
Arc Life (nominal)		20,000 hours
Max Ozone Output (gra	ams per day)	PZ3-24 : 10
Storage Temperature		-1°C − +70°C
Operating Temperature		-4°C - +60°C
Connector	(std) 3 Wire Pigtail'	
Ballast	U.L. Listed File #474D Type 1	
Arc Lamp	50 volt, Hot Cathode V.U.V.,	
	Purified Quartz Arc Design for long life and consistent	
	ozone output	
Generation Tested	100% Burn in, Hypot and O ³ output	
Ozone Purity	99.9% free of Hydroxyls and Nitrous Oxide	
Size	340mm - 430mm x 76mm Dia	



A complete ozone generator cartridge for "ozone ready" spas, the PZ3-X sets the reliability standard for the industry. The state-of-the-art translucent end caps are an added feature, glowing when the lamp is on. For maximum ozone / water mixing, the PZ3-X can be used with the patented bypass venturi injector kit.



Portable, 24-Hour Spa Ozonation For Spas and Custom Applications

PZ5 Series features our ozone generator cartridge and internal, custom-built mini compressor for custom applications. The system is ideally designed to stand alone, injecting ozone into all water applications, such as spas, jetted tubs, aquariums or small ponds. The PZ5 Series comes complete with our exclusive MycroporeTM diffuser to allow maximum ozone absorption plus our ozone resistant check valve. For a quick and easy installation, install the PZ5 with an SPPZ05 bypass venturi injector kit.

SPECIFICATIONS			
Electrical	230 VAC / 50 hz / 12-24 VAC/AC		
	/ 0.75 amps / 172.5 Watts		
Shipping Weight (appro	at (approx) 2.72kg		
Max Airflow Rate	8 CFH @ 0 PSI		
	3 CFH @ 2 PSI		
Max Ozone Output	8 grams/day		
Operating Temperature	Temperature $-4^{\circ}\text{C} - +60^{\circ}\text{C}$		
Connector	(std) 3 Wire Pigtail, Len Gordon, AMP Molex, All J & J		
Ballast	U.L. Listed File #474D Type 1		
Size	394mm x 76mm x 190mm		
System Capacity	(Maximum) Residential Spa 3630 litres		
Housing	Aluminium or High Impact Polymer		



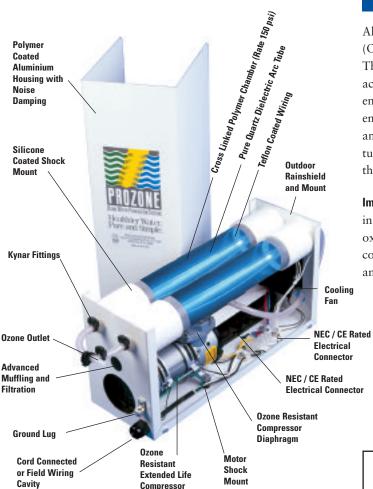
RELIABILITY, SAFETY & QUALITY

Our ozone generator cartridge is used in all Prozone systems to provide simple and reliable maintenance by totally isolating the arc tube from vibration, corrosion, temperature, shock and handling by service personnel. Since offered in 1981, our cartridge has set the reliability standard for the industry.

Prozone's unique construction of its V.U.V. ozone generator tube makes it the most effective, reliable and safest product in the industry.

INNOVATIVE ENGINEERING

The output of V.U.V. ozone generators are optimised by the airflow, lamp power, lamp size and chamber configuration. Each system's output varies according to methods of application. Systems listed are rated at maximum flow rates and at nominal power levels.





OZONE PRODUCTION THEORY

All ozone is produced directly or indirectly by oxygen gas (O₂) being energised to split and reform into Ozone (O₃). This is accomplished by applying an alternating voltage across a gas. The higher the frequency the higher the energy in the gas and the lower the voltage required to energise the system. In the case of VUV ozone producing amps, the energy of the alternative current is applied to a tube of quartz containing mercury gas which then excites the oxygen outside the quartz tube to form ozone.

Important: Prozone ozone generation systems must be used in conjunction with either chlorine or bromine. Ozone oxidises combined the chlorine and bromine freeing it to be continuously re-used. This reduces chemical consumption and eliminates eye and skin irritation.

> If you should require further technical information please do not hesitate to contact us.





Compressor



BENEFITS

- Reduces the need for harsh, costly chemicals
- Save on maintenance, time and money
- Helps to eliminate eye and skin irritation, hair damage and chemical odours
- Have crystal-clear water that smells fresh, feels softer and is more refreshing
- Utilises aerospace technology that has made purification safe and cost effective for even the smallest applications
- More than 2 million pools and spas use V.U.V.Ozone Systems
- Ozone has been used for over a century by large water systems worldwide
- The EPA recently made ozone a requirement for drinking water in the USA

Castikin PROZONE

Water Purifiers for Pools & Spas



Prozone creates Healthier Water

The Advantages are crystal clear.

Ozone is the natural water purifier of the century and Prozone is the simplest, most effective system on the market today. Prozone purifies pool and spa water, makes it sparkling clean and clear and reduces the need for chemicals by up to 90%.

Here's How Prozone Works

zone is generated when a molecule of oxygen is illuminated by high energy ultraviolet light.
Ozone is formed when three atoms of oxygen are bound together instead of the normal two. The extra oxygen atom makes ozone a highly energetic oxidiser.
Ozone destroys algae, viruses and bacteria on contact—with no harmful by-products. It also breaks down harmful chemicals and acts as a flocculent, causing Total Dissolved Solids to be suspended and easily removed by the water filtration process. Ozone oxidises combined chlorine and bromine, freeing them to be continuously re-used. Therefore the use—and cost—of chemicals is greatly reduced.

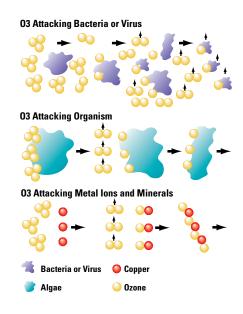
PERFECT FOR POOLS

Prozone Water Purification Systems can easily be installed in new pools or retrofitted to existing pools. The Prozone system attaches to the water circulation system quickly and easily, generating ozone and injecting it into the the return, where it instantly purifies the water. In the process, ozone biologically destroys bacteria, virus and algae and oxidises metals which bond together for easy removal by the filter.

IDEAL FOR SPAS

The Prozone Water Purification System offers clear advantages for spas. The chemistry of a spa can change faster and more dramatically than a pool. High water temperatures – as well as increased amounts of body chemicals and organic matter given off by bathers – creates a breeding ground for contaminants and reduces the effects of chemicals.

That's why a Prozone system is a better solution. It completely disinfects the water while the circulation is running. So the spa not only stays sanitary, Prozone keeps the water as you expect – *clean*, *clear and safe*.

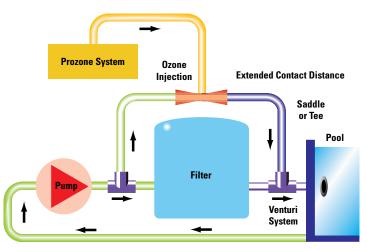


PIONEERS OF OZONE TECHNOLOGY

Prozone, pioneers of the original ozone generator cartridge, produced the first Ultra Violet Ozone Generating cartridge in 1977 for the swimming pool and spa industry. Since then, Prozone engineered systems integrating the cartridge configuration into applications such as swimming pools, aquasculptures, cooling towers and drinking water.

Prozone also pioneered the patented Bypass Venturi mixer and Mycropore diffuser. Prozone's Bypass Venturi systems provide the ultimate in ozone absorption while operating in conjunction with the existing circulatory system. It's simplicity and effectiveness have become the industry standard for low-cost, easily implemented ozone systems. The diffuser provides superior mixing and absorption by continuously injecting tiny ozone bubbles into the water.

Combining these elements with our ozone generators provides the industry's most simple and reliable systems.





Prozone Patented By-Pass Basic Installation



PZ7-1 & 2

Venturi Systems for Residential In-Ground Pools

The PZ7 Series generator features our unique patented Bypass Venturi configuration for quick installation on the return line of the pool. This allows maximum ozone/water mixing to purify the water before it reaches the pool. The heavy extruded aluminium adds to its durability with clear gasketing that glows when the system is on.

The PZ7-1 is rated for up to 15,000 gallons $(68m^3)$ residential in-ground pools. The PZ7-2 is rated for pools up to 25,000 gallons $(113m^3)$.

Dynamic Venturi Injector Bypass Theory

A bypass contactor system gets its water directly after the circulation pump where pressure is high and returns the water to the last low pressure point returning to the pool. This pressure drop drives an injector venturi, which draws ozone/air from the ozonator and mixes it with the water returning to the pool. Additional contact tubing is added to ensure all of the ozone is absorbed before the water returns to the pool.



SPECIFICATIONS			
	PZ7-1	PZ7-2	
Electrical	230 VAC / 0.4 amps	230 VAC / 0.8 amps	
	92 Watts	184 Watts	
Shipping Weight (approx)	3.6kg	4.5kg	
Size	431mm x 158mm x 85mm		
Nominal Air Flow	25 CFH	50 CFH	
Maximum Airflow	35 CFH	75 CFH	
Arc Life (nominal)	20,000 hours	20,000 hours	
Max Ozone Output	12 grams/day	20 grams/day	
Ozone Contact Density	.5mg/litre	.5mg/litre	
Storage Temperature	-1°C - +70°C	-1°C - +70°C	
Operating Temperature	-4°C - +49°C	-4°C - +49°C	

PZ2-1 & 2

Compressor System for Pools, In-Ground Spas and Commercial Water Purification Systems

The PZ2-1 & 2 are fitted with high output compressors for maximum ozone production. Installation is fast and easy by simple saddle connection to the return line. They feature our patented bypass for optimal ozone absorption and extended system life. A degassing column is available to remove excess air bubbles

SIZING FOR POOLS & SPAS				
Chlorine Bromine				
PZ2-1 (for Pools)	20,000 gallons (90m³)	10,000 gallons (45m³)		
PZ2-2 (for Pools)	40,000 gallons (180m³)	20,000 gallons (90m³)		
PZ2-1 (for Spas)	800 gallons (3.6m³)	400 gallons (1.8m³)		
PZ2-2 (for Spas)	1600 gallons (7.2m³)	800 gallons (3.6m³)		

SPECIFICATION			
	PZ2-1	PZ2-2	
Electrical	230 VAC / 1.5 amps	230 VAC / 2.1 amps	
	345 Watts	483 Watts	
Shipping Weight (approx)	8.3kg	9.5kg	
Size	152mm x 228mm x 533mm		
Air Flow	20 CFH or 40 with Bypass Venturi		
Arc Life (nominal)	20,000 hours	20,000 hours	
Max Ozone Output	12 grams/day	24 grams/day	
Ozone Contact Density	.5mg/litre	1mg/litre	
Compressor Life (nominal)	20,000 hours	20,000 hours	
Storage Temperature	-1°C - +70°C	-1°C - +70°C	
Operating Temperature	+4°C - +57°C	+4°C - +57°C	

PZ2 Series



SPECIFICATIONS		
PZ2		
Electrical	220/240 VAC / 60hz	
Universal Solid		
State Inverter Ballast 110 – 290 VAC		
Arc Life (nominal)	20,000 hours	
Compressor Life	Nominal: 40,000 hours	
Storage Temperature	-15°C — +70°C	
Operating Temperature	-4°C - +60°C	

COMMERCIAL SIZING				
	Chlorine	Bromine	Maximum Ozone Output Grams per hr	
PZ2-4	80,000 Gal (363m³)	40,000 Gal (181m³)	2 grams per hour	
PZ2-8	160,000 Gal (727m³)	80,000 Gal (363m³)	4 grams per hour	
PZ2-12	240,000 Gal (1090m³)	160,000 Gal (727m³)	6 grams per hour	
PZ2-16	320,000 Gal (1454m³)	240,000 Gal (1090m³)	8 grams per hour	
PZ2-24	480,000 Gal (2181m³)	320,000 Gal (1454m³)	12 grams per hour	
PZ2-48	960,000 Gal (4363m³)	480,000 Gal (2181m³)	24 grams per hour	



PZ2 - Large Commercial Systems

PZ2 units provide superior ozone generation by pressurising the lamp cartridges and superior ozone mass transfer into water from the turbulence created by the compressed air stream. PZ2 units require no operator interface once they are set-up. No recurring maintenance or special skills are required. The PZ2 Series has a hardware warranty for a full one year on residential and commercial systems.

Custom Engineered For Each Application

The PZ2 Series ozone generators are custom engineered for each application. This allows for a fast and easy installation with a simple coupling connection to the plumbing. All units have pressurised cartridges combined with high airflow compressors to produce maximum ozone output. Systems may be combined to treat any swimming pool systems up to 7,500,000 litres. They are designed for use in the most demanding environments and can withstand heavy impacts. Since the PZ2 Series systems have multiple redundant design, there is no down-time due to cartridge failure.

DEGASSING COLUMN

The Prozone degasing column removes excess air after the water ozonated to prevent bubbles from entering the pool. The unit consists of a column with an air vent attached to the top. Excess air is removed by using the natural buoyancy of bubbles and a counter flow design that allows for the removal of 99% of injected air. A degassing column can be an optional extra for any PZ2 system.

