



Manufactured by Ozone1 Pty Ltd ABN 99 109 648 722

Product & Operating Guide

Ozone Swim Pool Purification Systems

'The smart, environmentally
friendly solution'

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Proud partner of





Your Mineral Salt Water Solution...



Benefits

- Noticeably softer, hygienically clean water
- No more red eyes or dry itchy skin
- Fewer additional chemicals required
- Less back flushing required
- Easy to install and maintain
- Prolongs equipment life
- Environmentally friendly
- Increased salt cell life
- Low mineral/salt level required 3500ppm



Mineral Salts + Ozone = Total Solution 1000/2000/3000 Series

As used in commercial Learn to Swim Pools across Australia



Combine the benefits of mineral salt water with the power of Ozone to create the ultimate soft, clean, hygienic odour free water for your swimming pool.



How are these benefits achieved?

- Chlorine levels are reduced by up to 80% (to as low as 0.5 PPM)
- Ozone breaks down chloramines
- Ozone kills all types of bacteria, fungi & viruses
- Ozone is produced on site, so there is no need to store hazardous chemicals
- Ozone breaks down into simple oxygen – there is no chemical residue



Features

- Unique digital amperage indicator
- Electronic "fail safe" production control
- High/low salt sensing and water flow sensing
- Powder-coated 3mm aluminium chassis for corrosion resistance and heat dispersion properties including 316 stainless steel enclosure
- Patented corona discharge ozone technology
- Easy to read and operate multifunctional clock for automatic 24hr operation
- Removable electrode for easy maintenance
- Self-cleaning chlorinator

Specifications

Max Pool Capacity	Series 1000 45,000 Litres
	Series 2000 80,000 Litres
	Series 3000 120,000 Litres
Voltage Input	240V AC 50HZ
Power	Max 200W
Output Grams/Hour Ozone	Up to 1g/hr

Dimensions

Height (mm)	170
Width (mm)	470
Depth (mm)	170
Weight (kg)	8.6

System requires 5LPM suction from supplied venturi

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Add Ozone to Your Current System...



Benefits

- Can be attached to your existing system
- Noticeably softer, hygienically clean water
- No more red eyes or dry itchy skin
- Fewer additional chemicals required
- Less back flushing required
- Easy to install and maintain
- Prolongs equipment life
- Environmentally friendly
- Chlorine levels are reduced by up to 80% (to as low as 0.5 PPM)
- Ozone breaks down chloramines



Eco Friendly Water Purification System 1200 Series

As used in commercial Learn to Swim Pools across Australia



Dramatically reduce your chlorine levels by combining your existing sanitation system with the power of Ozone to create clean, hygienic water without the smell and irritation caused by chlorine



Customised Fresh Water Solutions

We offer customised solutions for larger residential and commercial pools.

Please refer to www.brauerindustries.com



Features

- Electronic "fail safe" production control
- Powder-coated aluminium cabinet for corrosion resistance and heat dispersion properties
- Patented corona discharge ozone technology
- Easy to read and operate multifunctional clock for automatic 24hr operation (optional)

Specifications

Max Pool 1200i Series 80,000 Litres
1200IT Series 100,000 Litres

Voltage Input 240V AC 50HZ

Power 40 Watts

Output Grams/Hour Ozone Up to 1.6g/hr

Dimensions

Height (mm) 166

Width (mm) 135

Depth (mm) 170

Weight (kg) 2KG

1200i Requires 5LPM Suction From Supplied Venturi

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Questions & Answers...



What is Ozone?

Ozone is triatomic oxygen (O₃). Ozone is created naturally in the atmosphere; in fact, you are breathing trace elements of ozone right now. Ozone is widely used to sanitize both air and water. For example, if you drink bottled water odds are it is ozonated; when boarding international flights that fresh smell at the door is ozone to disinfect air entering the plane. One of the great properties about ozone is that it is environmentally friendly: when injected into pool water it breaks down within minutes into simple oxygen, but when doing so it kills bacteria, fungi, viruses and cysts that can exist in pool water, as well as breaking down dissolved impurities, like suntan cream. Unlike chemicals there is no long lasting residue.



Are there other environmental or health and safety advantages?

Because ozone has a very short half life (in the order of minutes in the water), ozone cannot build up in the water to unsafe high levels as is the case with other chlorine, bromine or organic-based biocides.

And because ozone decomposes into simple oxygen, ozone-treated pool water is further oxygenated helping it maintain its freshness and clarity. Further, ozone will not form chloramines or other chlorinated hydrocarbons upon reaction with organic material in the pool water. Chloramines, formed by reaction of chlorine with organic material in the pool are the actual source of most offensive odors associated with highly chlorinated pools rather than the chlorine itself. Chloramines are also responsible for the eye and skin irritation many people experience when using excessively chlorinated pools. Other chlorinated organic by products found in pools have been associated with a variety of human ailments including allergies.



If ozone is so effective at purifying water, why use chlorine with ozone?

Proper use of ozone will provide the bulk of water purification and sanitation needs for swimming pools including sanitization and control of organic levels resulting from swimmers' body oils & lotions. Remember, however, that ozone very rapidly breaks down into simple oxygen within minutes of injection into the water. Although this is advantageous from an environmental and health and safety point of view, it will also result in an insufficient ozone residual in the swimming pool water in spots of the pool far removed from the ozone-treated water inlet into the pool.

To provide for sanitization in all parts of a pool, small amounts of chlorine are also used in ozone-treated pools to provide a residual disinfectant. However, the amount of chlorine added to provide a minimum residual throughout the pool is drastically reduced when using ozone because the ozone destroys most organic material preventing it from reacting and consuming the added chlorine.



How does ozonating my pool benefit my family and me?

A common complaint amongst pool and spa owners is that the water irritates the eyes and causes dry, itchy skin. Ozonated water will not do that. Our systems combine the benefits of chlorination with the power of ozone; but importantly, because ozone is injected into the water, the chlorinator is turned right down. We recommend running your chlorinator at one third its current level. Within days you will notice that your swimming pool water is noticeably softer, crystal clear and odour free.



Is ozonating my pool cost effective?

Our ozone-based systems are less expensive to run than current chlorination systems: Because the chlorinator unit is turned down, electricity consumption is reduced. In addition, barring a heavy pool load (due to large numbers of swimmers, ducks in the pool, leaves and debris not removed, etc.), the need to add chemicals is reduced. Fewer backwashes will also be required.



2000/3000 Series Operating Guide...



Installation

(These products must be installed by a qualified Installer)

Install the Ozone Swim system a minimum of 900mm above ground level in an area protected from the elements to eliminate possible damage from severe weather conditions.

- Step 1:** Mount Ozone Swim 1000, 2000 & 3000 Series a maximum of 1.5 meters from the filter and chlorine cell. Fit two screws 380mm apart (screws supplied)
- Step 2:** Plumb outlet of filter to chlorine cell housing (as per diagram page 7).
- Step 3:** Plumb Ozone injector manifold after salt cell, heating or to the return line of the pool ensuring direction of ozone injector manifold is correct (as per diagram page 7).
- Step 4:** Connect supplied Teflon tubing (see label on Teflon tubing for direction ensuring non return valve is in the correct direction) on to the ozone injector manifold by connecting to the compression fitting on venturi. Do not connect other end to control box at this stage.
- Step 5:** Connect the cell cable to the three colour coded terminals located on chlorine cell.
- Step 6:** Ensure appropriate salt levels are achieved (3500ppm) and dissolved (see recommended start up on page 6).
- Step 7:** Leave plumbing to cure for a 24 hour period, this will allow salt to dissolve appropriately.
- Step 8:** Set timer on Ozone Swim system to recommended run time for pool size and environment (see recommended start up on page 5).
- Step 9:** Plug pump cable into Ozone Swim unit below timer. Turn unit ON to manual. Ozone light should be on. Check all plumbing for visible leaks.
- Step 10:** While pump is running ensure there is sufficient suction from the ozone injector manifold. Connect opposite end of Teflon tubing to flowmeter (note: flowmeters are not supplied). Ensure the flowmeter is displays between 5-8 LPM. If flow is low, close the injector manifold by turning the handle slightly clockwise. If flow is correct remove flowmeter and connect Teflon tubing to the Ozone Swim control box.
- Step 11:** Adjust amperage to recommended output (see recommended start up).

NOTE: We recommended running your system at maximum output for the first week of operation, then reducing to recommended hours of operation (see next page).



Operating Instructions

Set the pump switch to the override position and turn the unit ON, ensuring the cell switch is in the OFF position. Once all the salt has been added and dissolved turn the cell switch ON. The Pb indicator will flash momentarily before the amperage is indicated. Adjust the chlorine production control to the required position depending on the season and the size of the pool. A maximum of 12 or 18 AMPS (depending on the model) is recommended during summer months for maximum chlorine production. We recommend running at about half that, 10 and 14 amps, respectively.



Operating Instructions

This may be reduced during winter when higher levels of chlorine are not critical. Set the time clock to turn the filtration ON and OFF as required. To set turn the face in a clockwise direction until the correct time of day is indicated. The outer edge is comprised of a series of rockers, each one representing 15 minutes. To set the running time push the rocker in adjacent to the desired starting time, remembering each increment equals 15 minutes, push in a block of rockers representing the required duration of filtration. With the clock set turn the pump to auto position, this will set the unit to work automatically.

For maximum performance, two operating cycles per day are recommended one early morning and the other late afternoon or early evening, this will allow sufficient production of the chlorine to effectively sanitize the water without direct sunlight breaking down the chlorine and Ozone as rapidly as it is produced. It is desirable to run the system 8 to 10 hours per day during the summer period, gradually reducing this as the season changes. A maximum running period of 4-6 hours during the winter period is recommended.



Checking Chlorination Output

To ensure your chlorinator is working correctly, follow the easy steps below:

- Step 1:** Take a sample of water from the skimmer box and conduct a standard chlorine test, and note the result.
- Step 2:** Take a sample of the water from directly in front of the return to the pool outlet, test for chlorine and note the results.
- Step 3:** If the latter is at least 1ppm higher than the first test, your Ozone Swim is efficiently producing chlorine.

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2000/3000 Series Operating Guide...

Checking Ozone Output

Ozone Swim relies on the suction of the Ozone injector to produce up to 1 gram/hour of ozone. If suction from Ozone injector is sufficient and Ozone light is ON then Ozone is being produced.

Digital Display Definitions

- OF** Ozone Swim set to off position by counter rotation of production control knob.
- dG** Automatic cleaning cycle beginning – no output during this stage.
- Pb** (flashing) Water flow sensing. This will be deactivated when sufficient water flow passes through cell housing. If Pb flashing persists refer to problem solving.
- OL** (flashing) Overload condition. Overload occurs when there is a short circuit on the Ozone Swim (e.g. a hair pin being picked up when vacuuming & lodging between the plates of the cell). Also extreme levels of high salt will trigger the overload.

Recommended Start Up Level

Salt Requirements:

The salt content of your pool should be between 3500-4000 parts per million (ppm) salt to water.

To achieve this range initially the capacity of the pool will have to be determined using the following method. Multiply the average length by the average width by the average depth. This will determine the pool capacity in cubic meters. Multiply the capacity by 4.0 and this will give you the amount of salt required in kilograms.

For example: pool size 10.00 x 5.00 x 1.2 Meters Deep
 $10 \times 5 \times 1.2 = 60$
 $60 \times 4 = 240\text{Kg Salt Required}$

Note: Use only refined pool salt, available from your local pool shop for this purpose.

How to Apply Salt to your Pool:

Salt may be added to the pool by the following methods. ENSURE OZONE & CHLORINE CELL SWITCH IS TURNED OFF BEFORE THE ADDITION OF SALT AND UNTIL THE SALT IS DISSOLVED.

Recommended Start Up Level

How to Apply Salt to your Pool.....continued:

With the pump running, add salt slowly through the skimmer box, a little at a time. With the pump running, add salt directly to the pool in the vicinity of the return to pool outlets, brushing until all the salt is completely dissolved. Once salt is dissolved, turn Ozone & chlorine cell On.

Recommended Amperage:

Depending on climate and bathing load the Ozone Swim can be adjusted to only 8AMPS for a 60,000 litre pool during winter and only 12AMPS during summer.

60,000 litres = 8AMPS (during winter months) 60,000 litres = 12AMPS (during summer months)
 100,000 litres = 12AMPS (during winter months) 100,000 litres = 16AMPS (during summer months)

Hours Of Operation Required

Depending on climate and bathing load the Ozone Swim is recommended to run between 4-6 hours during winter and between 8-10 hours during summer.

For maximum performance, two operating cycles per day are recommended. One cycle during early morning and a second cycle during late afternoon or early evening.

Note: A typical pool pump can turn over all the water in your pool in about 5-6 hours. This means all your water has been ozonated each day as well as having the benefit of passing through your sand filter.

System Maintenance

Series 1000, 2000 & 3000 Auto Clean are automatic cleaning units (reverse polarity) no maintenance on chlorine cell required. The green light on the front on the Ozone Swim unit indicates that ozone is being produced, ensuring flow from the Ozone Swim injector manifold is correct (see step 3 of installation). When the green light is on, your Ozone Swim unit is working efficiently.

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1200i Series Operating Guide...



Installation (These products must be installed by a qualified installer)

Install the Ozone Swim 1200i Series on the return line to pool.

Step 1: Mount the Ozone Swim control box a maximum of 1.5 meters from filter. Fit two screws 280mm distance apart (screws supplied).

Step 2: Plumb ozone injector manifold after salt cell, dosing, heating or chlorine tablet feeder to the return line of the pool ensuring direction of ozone injector manifold is correct (as per diagram page 6).

Step 3: Connect supplied Teflon tubing (see label on Teflon tubing for direction ensuring non return valve is in the correct direction) on to the ozone injector manifold by connecting to the compression fitting on venturi. Do not connect other end to control box at this stage.

Step 4: Leave plumbing to cure for a 24 hour period.

Step 5: Plug Ozone Swim 1200i power cord into chemical system (salt chlorinator/dosing system) and adjust timer to suit. Pool pump can be plugged into the undercasing of Ozone Swim control box.

Step 6: While pump is running ensure there is sufficient suction from the ozone injector manifold. Connect opposite end of Teflon tubing to flowmeter (note: flowmeters are not supplied) ensure the flowmeter displays between 5-8 LPM. If flow is low, close the injector manifold by turning the handle slightly clockwise. If flow is correct remove flowmeter and connect Teflon tubing to the ozone swim control box.

NOTE: If no flowmeter is available place your finger over teflon tubing and adjust injector manifold to suit.



Water Chemistry - all models

Regular chlorine or bromine testing should be performed as normal. Ozone Swim eliminates the majority of contaminants. Therefore, only a small amount of chemicals will need to be added - just enough to maintain a residual level of 0.5 - 1ppm chlorine. Ozone is pH neutral thus minimizing ph adjustment.

Chlorine 0.5-1.5ppm

pH 7.2-7.4

TA (Total Alkalinity) 80ppm -120ppm

Hardness 150 – 350ppm

Cyanuric Acid 30ppm-50ppm

Phosphate 0-500ppb

(Series 1000, 2000 & 3000) Salt 3500ppm – for Low Salt Models;

Salt 5000ppm for standard models



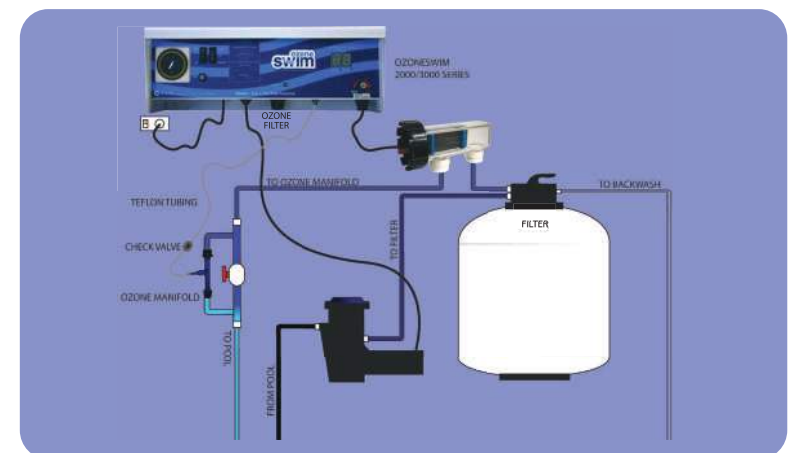
System Maintenance

The green light on the front on the Ozone Swim unit indicates that ozone is being produced, ensuring flow from the Ozone Swim injector manifold is correct (see step 3 of installation). When the green light is on, your Ozone Swim unit is working efficiently.

Regularly replace Ozone filter located under the Ozone Swim unit on average every 2-3 months depending on climate (To do so, remove the grey, thimble-sized air intake under the unit and replace the filter with half a cotton wool ball. Hand tighten only).



Installation Diagram



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ozone swim

Pool Sanitation Systems

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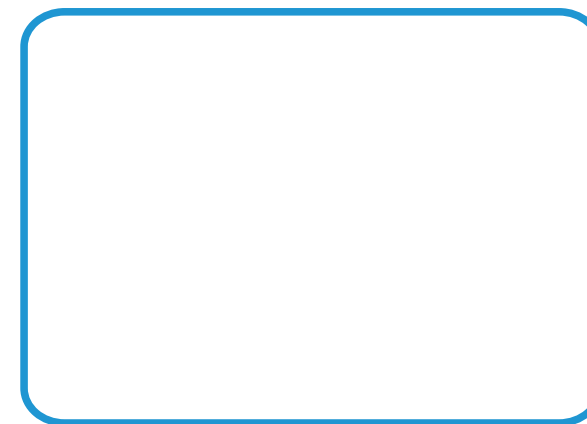
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