



**OZONE BENEFITS:**

- **VERY ECO FRIENDLY, ONLY BYPRODUCT IS OXYGEN**
- **REDUCES TRADITIONAL CHLORINE USE BY 70%**
- **ELIMINATES OR REDUCES NASTY CHLORAMINE FORMATION**
- **REDUCES MONEY SPENT ON CHEMICALS**
- **EASY ON THE EYES, SKIN AND SWIMWEAR**
  - **GREATLY REDUCES MAINTENANCE TIME**
- **IMPROVES WATER CLARITY**
  - **HAS NO EFFECT ON PH**

**WHY CONSIDER OZONE OVER A SALT CHLORINATION SYSTEM**

OZONE (O3) IS NATURE'S MOST POWERFUL OXIDIZER AND REACTS QUICKLY WITH ORGANIC AND AMMONIA COMPOUNDS. SWEAT, LOTION, OILS, BACTERIA, VIRUSES AND OTHER ORGANISMS THAT ARE COMMONLY INTRODUCED TO POOLS BY SWIMMERS AND NATURE ARE EASILY OXIDIZED BY OZONE. OZONE IS ALSO MORE EFFECTIVE THAN SALT CHLORINE IN ITS ABILITY TO TREAT CERTAIN COMMON WATERBORNE ORGANISMS LIKE CRYPTOSPORIDIUM PARVUM. AS A RESULT OF THIS FAST, POWERFUL OXIDIZING POTENTIAL, POOL OWNERS ARE ABLE TO REDUCE THE AMOUNT OF CHEMICALS NEEDED BY 70% OR MORE. AS OZONE REACTS WITH OTHER COMPOUNDS IT REVERTS BACK TO OXYGEN (O2); IT'S NATURAL STATE WHICH MAKES THE CLEAR O3 OZONE SYSTEM A VERY ECO-FRIENDLY PRODUCT.

IF YOU ARE CONSIDERING A SALT CHLORINATION SYSTEM IT'S IMPORTANT TO UNDERSTAND THAT THESE SYSTEMS DO NOT REDUCE THE AMOUNT OF CHLORINE IN A POOL. THEY DO AUTOMATE THE PROCESS OF GETTING CHLORINE INTO A POOL BUT BRING ALONG INHERENT CHALLENGES THAT POOL OWNERS NEED TO BE AWARE OF. PLEASE REFER TO THE CHART BELOW FOR CLARIFICATION.

	<b>CLEAR O3 OZONE</b>	<b>SALT CHLORINATION</b>
<b>ADVANTAGES</b>		
SANITIZES AND DISINFECTS WATER	✓	✓
PROVIDES RESIDUAL CHLORINE TO POOL	*	✓
DOES NOT INCREASE LEVEL OF TOTAL DISSOLVED SOLIDS (TDS)	✓	
DOES NOT REQUIRE FREQUENT MONITORING AND ADDITION OF STABILIZER	✓	
DOES NOT REQUIRE ONGOING MONITORING OF SALT LEVEL IN POOL	✓	
DOES NOT REQUIRE ROUTINE MAINTENANCE	✓	
DOES NOT REQUIRE FREQUENT PH ADJUSTMENT	✓	
DOES NOT REQUIRE FREQUENT ADDITION OF SEQUESTERING AGENTS TO WATER	✓	
DOES NOT CAUSE SCALE AND DETERIORATION IN AND AROUND POOL	✓	
DOES NOT REQUIRE EXPENSIVE CELL REPLACEMENT	✓	
DOES NOT REQUIRE LIFTING OF HEAVY SALT BAGS WHEN REPLENISHMENT IS NEEDED	✓	

\* A SMALL RESIDUAL AMOUNT OF CHLORINE IS NECESSARY SO THAT SOME SANITIZER IS PRESENT WHILE THE POOL EQUIPMENT IS NOT OPERATING. THIS IS EASILY ACCOMPLISHED WITH AN IN-LINE CHLORINE TABLET FEEDER, A FLOATING CHLORINE DISPENSER OR EVEN WITH A SALT CHLORINATION SYSTEM OPERATING AT A LOW LEVEL.

# OZONE VS. SALT QUESTIONS AND ANSWERS



**IS A SALT WATER POOL A “CHLORINE FREE” POOL?**

**ANSWER:** NO - IN FACT WITH A SALT WATER CHLORINATED POOL, THE SALT IN THE POOL IS CONVERTED INTO CHLORINE (HYPOCHLOROUS ACID). THIS OCCURS VIA AN ELECTROLYSIS PROCESS MADE POSSIBLE BY THE SALT SYSTEM CELL. IF YOUR GOAL IS TO SWIM IN A CHLORINE FREE POOL THIS IS NOT POSSIBLE IN A SALT WATER CHLORINATED POOL. THE ADVANTAGE OF HAVING CHLORINE PRODUCED ONSITE IS THAT YOU DO NOT HAVE TO GO BUY IT, STORE IT OR HANDLE IT.



**IS A SALT WATER CHLORINATED POOL “MAINTENANCE FREE”?**

**ANSWER:** FAR FROM IT - IN FACT, WITH A SALT WATER CHLORINATION SYSTEM YOU STILL MUST BE VERY DILIGENT ABOUT PROPERLY MAINTAINING YOUR POOL'S WATER CHEMISTRY. YOU MUST;

- MAINTAIN PROPER SALT LEVELS
- MAINTAIN PROPER PH LEVELS – SALT POOLS OFTEN REQUIRE THE FREQUENT ADDITION OF MURIATIC ACID TO BRING THE PH LEVEL DOWN TO AN APPROPRIATE LEVEL
- MAINTAIN AN ADEQUATE LEVEL OF STABILIZER IN THE POOL WATER



**IS THERE ANY ONGOING MAINTENANCE NEEDED WITH THE SALT WATER CHLORINATION SYSTEM?**

**ANSWER:** YES - IN ORDER TO ENSURE PROPER CHLORINE PRODUCTION, MOST MANUFACTURERS REQUIRE THAT THE SALT SYSTEM CELL BE MANUALLY REMOVED AND THEN RINSED IN A DILUTED “ACID BATH” AT LEAST EVERY THREE MONTHS. THIS CLEANING PROCESS IS NECESSARY EVEN ON “SELF-CLEANING” (REVERSING POLARITY) STYLE CELLS AS SCALE AND MINERAL DEPOSITS ON THE CELL WILL EVENTUALLY RENDER THE CELL INCAPABLE OF ADEQUATE CHLORINE PRODUCTION. EVENTUALLY THE COSTLY SALT SYSTEM CELL WILL NEED TO BE REPLACED.



**CAN THE SALT LEVEL IN THE WATER HARM MATERIALS IN AND AROUND THE POOL?**

**ANSWER:** YES – SALT IS A VERY CORROSIVE MATERIAL AND THERE ARE MANY DOCUMENTED INSTANCES OF DETERIORATING DECK AND COPING MATERIALS IN SALT WATER CHLORINATED POOLS. ADDITIONALLY, METALS IN AND AROUND THE POOL CAN BE SUBJECT TO CORROSION. EVEN STAINLESS STEEL IS SUSCEPTIBLE TO CORROSION AT LEVELS OF 3,500 PPM.



**IS AN OZONE SYSTEM LIKE CLEAR O3 MAINTENANCE FREE?**

**ANSWER:** AS WITH ANY POOL WATER SANITATION METHOD IT IS IMPORTANT THAT PROPER WATER CHEMISTRY BE MAINTAINED. OF GREAT BENEFIT IS THAT UNLIKE A SALT WATER CHLORINATION SYSTEM WHICH TENDS TO DRIVE THE PH HIGHER, PARAMOUNT'S CLEAR O3 OZONE SYSTEM IS PH NEUTRAL. THE OXIDATION POWER OF OZONE ALLOWS FOR UP TO 70% REDUCTION IN THE AMOUNT OF CHEMICALS NECESSARY TO MAINTAIN PROPER WATER CHEMISTRY. SINCE OZONE IS ONLY PRODUCED WHILE THE EQUIPMENT IS OPERATING A MINIMUM (RESIDUAL) LEVEL OF CHLORINE OR BROMINE MUST BE MAINTAINED AT ALL TIMES TO HELP SANITIZE THE WATER AND PREVENT ALGAE GROWTH.



**HOW DO I MAINTAIN A RESIDUAL SANITIZER LEVEL IF I AM USING A CLEAR O3?**

**ANSWER:** THIS IS EASILY ACCOMPLISHED WITH AN IN-LINE CHLORINE FEEDER, A FLOATING TABLET DISPENSER OR EVEN IN CONJUNCTION WITH A SALT WATER CHLORINATION SYSTEM OPERATING AT A LOWER SETTING. A CLEAR O3 OZONE SYSTEM EXTENDS THE LIFE OF THE SALT CELL BY REDUCING THE DEMAND. THIS LOWER DEMAND RESULTS IN LESS WEAR ON THE CELL AND LESS CLEANING OF THE CELL.

