



Swimming Pool

Advance Ozonation





Corona Discharge Ozonation :

Swimming pool water gets contaminated due to swimmers and environmental pollutants. The private, public and community pools are also source of cross infection. Swimming pool ozonation is a modern but time tested technology for water disinfection & oxidation. Corona discharge methodology can produce higher concentration of ozone, offering unmatched distinct advantages to swimmers, compared to any technology.

Advance Ozonation Technique :

Advance ozonation is a technique of strategic and multi point ozone injection under vacuum, in combination of diffuser for more than 90 % of ozone dissolved in the pool water for highest effectiveness. Main stream or side stream flow of circulating water is selected for advance ozonation, depending upon pool design & layout. Any leftover that if remains un-dissolved ozone is destructed & safely discharged into the open atmosphere. Advance ozonation optimizes the capacity of ozonator and reduces the capital cost & energy.

Benefits & Advantages — Advance Ozonation :

- Highly effective on bacteria, virus, spores, fungi & algae
- Works 3100 times faster than chlorine.
- 1.33 times powerful on bacteria and virus than chlorine.
- No significant formation harmful by-products.
- Micro-flocculating property gives more clarity & purity.
- Reduces color, odor, turbidity & TDS.
- Oxidizes unwanted Iron & manganese.
- Reduces cyanide, sulfur, nitrite.
- Operates on wide range of pH
- Safe on swimmers Skin, hair, eyes, even if swollen.
- Safe on pool surfaces, equipments, accessories, costumes.
- Simple to generate on site – no storage & handling hazards
- Environment friendly to receiving environment.





Ozone Optimization:

Chemtronics' offers ozone compatible pool designs for "ozone only" swimming pool.

Ozone optimization is adapted as per the climatic & atmospheric condition of the country of execution. Also is designed, integrated & executed in line with well drafted DIN – German & NSW – Australian standards.

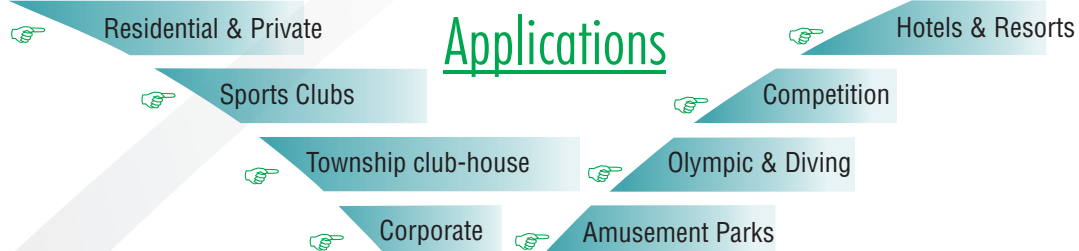
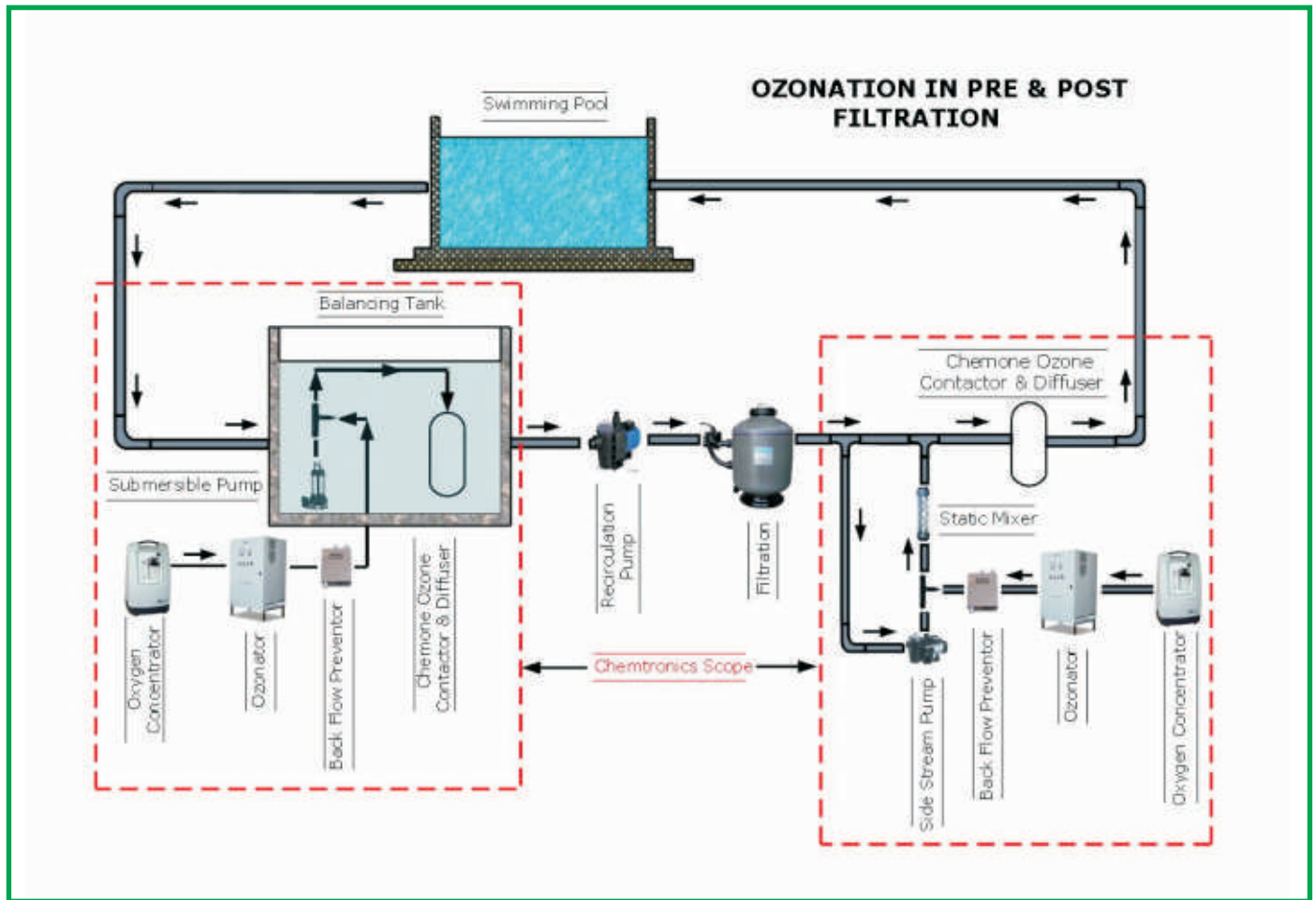
Optimum effectiveness of swimming pool ozonation does not only depend upon the quality of ozone generator but extensively depends upon:

- Well designed swimming pool water dynamics
- Hydraulic distribution network.
- System integration
- Ozone concentration
- Ozone dose
- Ozone injection & diffusion
- Ozone destruction
- Pool operation

- retrofit ozonation to existing pools
- New Ozone compatible pools

Concept of Swimming Pool Ozonation :

Depending upon the type, size, shape, location & usage verity of swimming pool ozonation technique is adopted for trouble free & easy operation. Integration of instrumentation plays vital role in control, feedback & interlock, for automatic & semiautomatic operations.



Ozonator Capacities :

Ozonator are available for pool volume of 20 m³ to 4,000 m³