TRIOGEN

UVAZONE 300 - 1500

Advanced Oxidation Process

HEADWORKS
BIOLOGY
SEPARATION
MEMBRANE
▶ DISINFECTION
BIOSOLIDS
SYSTEMS






OZONE | UV | COMMERCIAL | SWIMMING POOL

▸ Applications

- Swimming pool disinfection

▸ Main characteristics

- Advanced oxidation system combining ozone and UV treatment within a self contained unit

The UVAZONE 300-1500 offers the unique process of advanced oxidation for treatment of commercial swimming pool water. This process combines the disinfection properties of ozone and UV making the UVAZONE 300-1500 the most advanced pool water purification system available.

MAIN FEATURES

- → Proven ability to safely lower free chlorine residual
- → Effective against chlorine resistant micro-organisms
- → Reduced skin and eye irritation
- → Very low THM levels
- → Significant improvement in water clarity
- → Low cost capital and installation cost
- → Simple to install and operate with minimal plant room space requirement

ADVANCED OXIDATION: UVAZONE 300-1500

The UVAZONE 300-1500 is designed for advanced oxidation of commercial swimming pools. UVAZONE combines ozone and UV treatment within a single system to maximise disinfection and chloramine destruction. The UVAZONE also contributes to enhanced flocculation resulting in top class water clarity.
The UVAZONE 300-1500 package comprises :

- Corona discharge ozone generator with oxygen concentrator, injector, booster pump, ozone vent system, thermal off-gas destructor and air flowmeter
- Reaction vessel
- Thermal off gas destructor
- High power low pressure UV lamp
- Water flowmeter
- Two UV deozonation reactors

HOW IT WORKS

Ozone is produced when oxygen is passed over a ceramic dielectric ozone generating module containing a stainless steel electrode. The module is powered by a high voltage/high frequency power board. The high power low pressure UV lamp is powered by an electronic ballast. UV not only provides disinfection but also deozonises the treated water, eliminating the need for carbon deozonising material within the reaction tank.

Chlorine is effective against most bacteria but reacts slowly with viruses, cysts and amoebae. UVAZONE combines ozone and UV to provide excellent control against all micro-organisms. Hydroxyl radicals, produced in the advanced oxidation reaction, effectively destroy organic materials including chloramines with no risk of the accumulation of reaction by-products.

Degrémont Technologies
SUEZ