UVAZONE 150
Advanced oxidation process

AOP

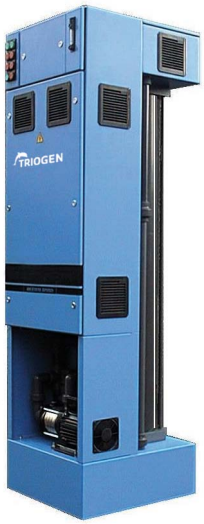
The UVAZONE 150 offers the unique process of advanced oxidation for treatment of commercial swimming pool water. This process combines the disinfection properties of ozone and UV making the UVAZONE 150 the most advanced pool water purification system available.

APPLICATIONS

- **Swimming pool disinfection**

MAIN CHARACTERISTICS

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



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 150

The UVAZONE 150 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 150 package comprises :

- Corona discharge ozone generator with oxygen concentrator, injector, booster pump, ozone vent system, carbon off gas destructor and air flowmeter
- Automatic twin-column oxygen concentrator
- Reaction vessel
- Thermal off gas destructor
- High power low pressure UV lamp
- Water flowmeter

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 amoebæ. 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.

TRIOGEN

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TECHNICAL DATA MODEL	Pool Volume		Bypass Flow Rate		Ozone Production	Feed Gas Production	Power Consumption	Power Supply	Weight (empty)		Weight (flooded)	
	m³	US Gallons	m³/h	US gpm	g/h	ltr/min	kW	v/ph/Hz	kg	lb	kg	lb
UVAZONE 150	150	660	6.0	26	6.0	5.0	1.3	230/1/50	160	352.74	240	529.11

MODEL	Panel (mm/inch)		L x H x W	
	A	B	mm	inch
UVAZONE 150	450/17.73	450/17.73	600 x 1800 x 600	23.62 x 70.87 x 23.62

TECHNICAL FEATURES

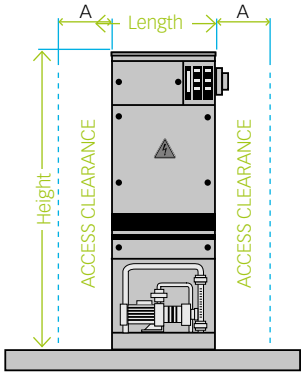
- BS EN ISO 9002:94
- CE Approval

MATERIALS

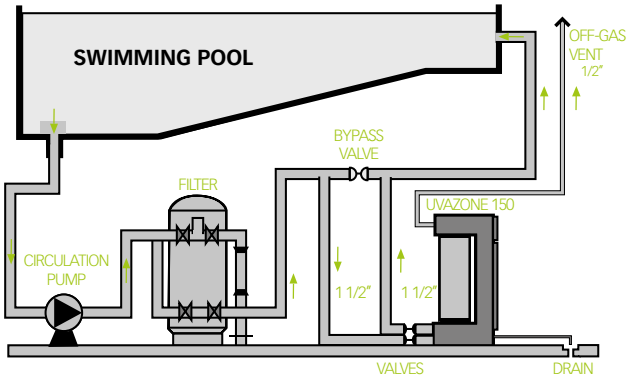
- Enclosures: mild steel, epoxy coated
- Ozone Module: 316 stainless steel electrode assembly inside a ceramic dielectric tube
- Oxygen Concentrator: molecular sieve columnsl

REMOTE CONTROLS AND SIGNALS

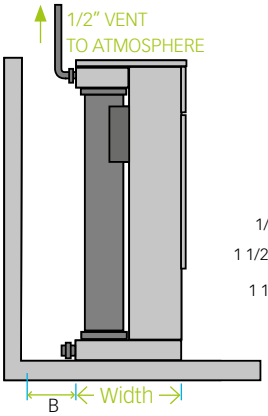
- Digital Input: interlock for main pool circulation pump
- Digital Output: system running - system off/fault



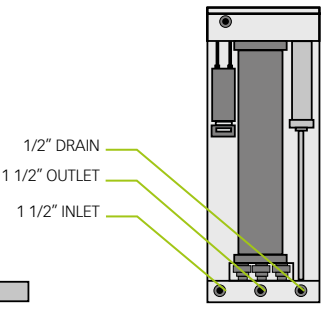
FRONT VIEW



TYPICAL INSTALLATION OF UVAZONE



SIDE VIEW



REAR VIEW

CONTACT

TRIOGEN Ltd
Unit 14 Langlands Place
East Kilbride G75 0YF
Scotland, United Kingdom
Tel: + 44 (0) 13 55 220 598
Fax: + 44 (0) 13 55 570 058
www.triogen.com
info@triogen.com

your local distributor: