

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 deozone 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.

TECHNICAL DATA

UVAZONE MODEL	Pool Volume		Bypass Flow Rate		Ozone Production	Feed Gas Production	Power Consumption	Power Supply
	m ³	US Gallons	m ³ /h	US gpm	g/h	ltr/min	kW	v/ph/Hz
UVAZONE 300	300	79 250	12.5	55	12.5	5	1.6	230/1/50
UVAZONE 600	600	158 500	25.0	110	25.0	10	3.2	400/3/50
UVAZONE 900	900	237 750	37.5	165	37.5	15	4.8	400/3/50
UVAZONE 1200	1200	317 000	50.0	220	50.0	20	6.4	400/3/50
UVAZONE 1500	1500	396 250	62.5	275	62.5	25	8.0	400/3/50

► Standards

- 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

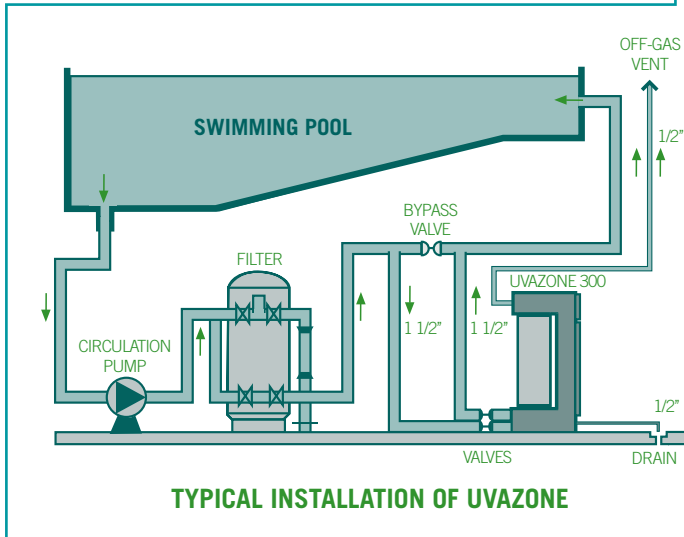
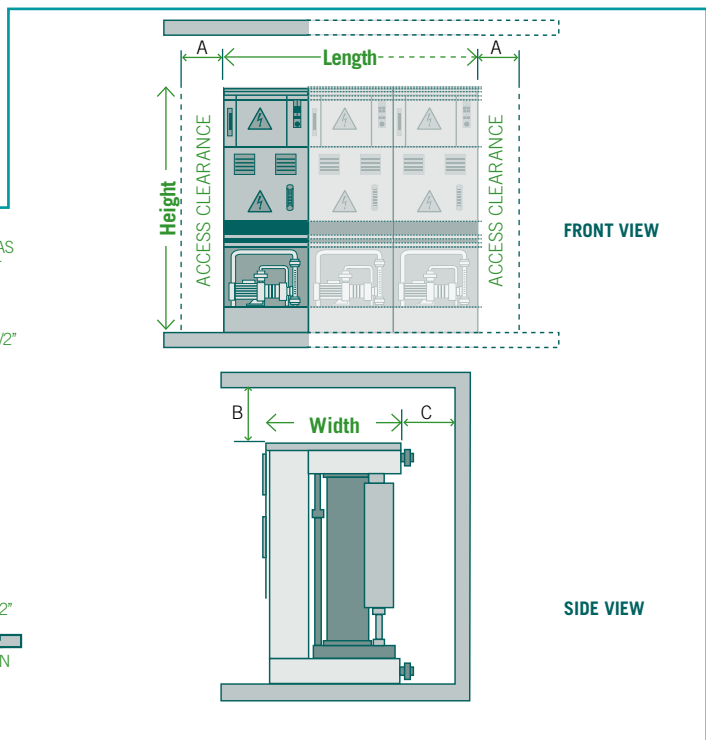
► Remote controls and alarms

- Fault: green and red illuminated indicators
- Service Required: yellow illuminated indicator
- Digital Input: interlock for main circulation pump system running
- Digital Output: system Fault/Off system required
- Hours run meter
- Gas and water flowmeters

DIMENSIONS

UVAZONE MODEL	Module(s) number in parallel	l x h x w		Weight (empty)		Weight (flooded)	
		mm	inch	kg	lb	kg	lb
		UVAZONE 300	1	600 x 1800 x 600	23.62 x 70.87 x 23.62	255	562.2
UVAZONE 600	2	1300 x 1870 x 950	51.18 x 73.62 x 37.40	490	1080.3	790	1741.7
UVAZONE 900	3	1950 x 1870 x 950	76.77 x 73.62 x 37.40	725	1598.4	1175	2590.4
UVAZONE 1200	4	2600 x 1870 x 950	102.36 x 73.62 x 37.40	960	2116.4	1560	3439.2
UVAZONE 1500	5	3250 x 1870 x 950	127.95 x 73.62 x 37.40	1200	2645.6	1950	4299.0

UVAZONE MODEL	Panel Access (mm/inch)		
	A	B	C
UVAZONE 300	400/15.7	900/35.4	400/15.7
UVAZONE 600	400/15.7	900/35.4	400/15.7
UVAZONE 900	400/15.7	900/35.4	400/15.7
UVAZONE 1200	400/15.7	900/35.4	400/15.7
UVAZONE 1500	400/15.7	900/35.4	400/15.7



TYPICAL INSTALLATION OF UVAZONE



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