TRIOGEN

COMPACT OZONE SYSTEMS






OZONE | COMPACT | RESIDENTIAL | HOTEL

▸ Applications

- Swimming pool disinfection

▸ Main characteristics

- Ozone system producing up to 8 g/h for swimming pool disinfection


The Compact ozone range provides residential and hotel size swimming pools with a cost effective ozone disinfection system for improved water quality.

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
- → Long term realiability of 10 to 15 years
- → Simple to install and operate with minimal plant room space requirement

OZONE TECHNOLOGY: COMPACT OZONE SYSTEMS

The Compact ozone range is designed for disinfection of private and hotel sized swimming pools. Ozone provides effective treatment against chlorine resistant micro-organisms and significantly improves water clarity.

The range consists of a corona discharge ozone generator and automatically regenerated air dryer unit which can be used in combination to give ozone outputs from 2 – 8 g/h.

HOW IT WORKS

Ozone is produced when air 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 system operates under vacuum conditions created by a water driven venturi which ensures maximum safety against ozone gas leakage.

The air dryer unit contains twin dessiccant dryer columns which are automatically heat regenerated controlled by a programmable relay system. When the air dryer system is used the normal output of the generators is doubled.

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TECHNICAL DATA

COMPACT OZONE SYSTEMS Model	Ozone Output	Air Flow	Maximum Pool Volume			
			Private		Hotel	
	g/h	l/m	m^3	US Gallons	m^3	US Gallons
GENERATOR MODEL TOG B2	2	10	180	47 500	90	24 000
MODEL TOG B2 + TAD B1	4	10	400	105 000	200	52 500
MODEL TOG B2 (x2) + TAD B1	8	20	800	210 000	400	105 000

▸ Standards

- **BS EN ISO 9002:94**
- **CE Approval**

▸ Remote controls and signals

- **Ozone On:** red illuminator switch
- **Air Flow:** externally fitted air flowmeter 0-25 l/m

▸ Complimentary Equipments

- **Degassing system**
- **Booster pump**

▸ Materials

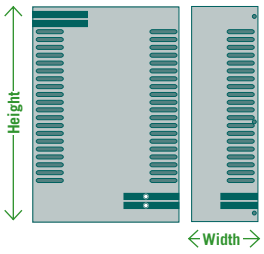
- **Ozone Generator:** mild steel, epoxy coated, enclosure
- **Module:** 316 stainless steel electrode assembly inside a ceramic dielectric tube
- **Air Dryer:**
  - mild steel, epoxy coated, enclosure
  - twin dessiant colomn designed to operate at negative pressure
  - automatic colomn regenration by heat purging

DIMENSIONS

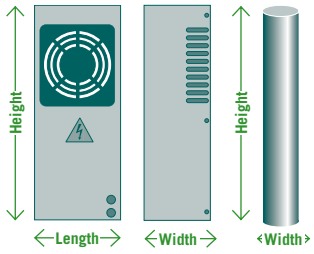
COMPACT OZONE SYSTEMS Model	l x h x w		Weight
	mm	inch	kg/lb (1)
OZONE GENERATOR (TOG B2)	115 x 440 x 110	4.5 x 17.3 x 4.3	4.4/9.7
AIR DRYER (TAD B1)	305 x 440 x 110	12 x 17.3 x 4.3	10/22.0

DEGASSER TANK (TDG A1)	h x w		Weight
	mm	inch	kg/lb (1)
	1600 x 250	63.0 x 9.8	29/63.9

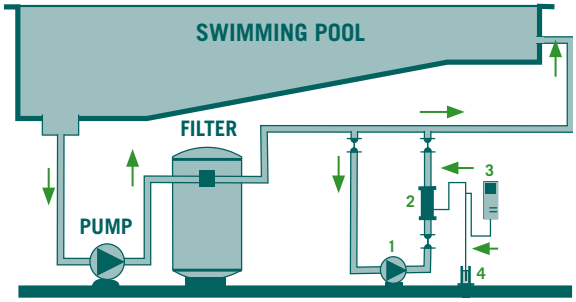
(1) Empty



DRYER

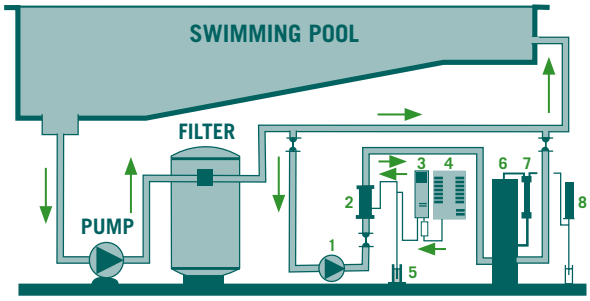


OZONE GENERATOR TOG B2



1 - BOOSTER PUMP
2 - OZONE INJECTOR
3 - OZONE GENERATOR
4 - WATER TRAP AND POT

TYPICAL INSTALLATION OF OZONE GENERATOR WITHOUT CONTACT DEGASSING



1 - BOOSTER PUMP
2 - OZONE INJECTOR
3 - OZONE GENERATOR
4 - AIR DRYER
5 - WATER TRAP AND POT
6 - DEGASSER TANK
7 - AUTOMATIC VENT VALVE
8 - VENT GAS DESTRUCTOR AND POT

TYPICAL INSTALLATION OF OZONE GENERATOR WITH AIR DRYER AND CONTACT DEGASSING SYSTEM

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