

How RGF Produces Ozone for Water Treatment

Decades ago, scientists discovered how to artificially produce ozone through electrical discharge. The method has been used in Europe for water purification since the early 1900's and has been rapidly gaining popularity in municipal water plants in the United States.

In the 1970's, an inexpensive and reliable method of making ozone was discovered utilizing a specific wave of UV light. Ozone generated from UV light is just as effective as ozone produced from electrical discharge or naturally occurring ozone. This production method is preferred for many applications based on cost, reliability, maintenance, and quantity.

Industries have been using ozone successfully for many years in a wide range of applications, including food and beverage processing, water purification, swimming pools, algae removal in ponds, and spa purification. In recent years, ozone's benefits also have been realized in the wastewater treatment business.

RGF started experimenting with ozone in 1985 and cautiously started using the RGF TurboHydrozone® in their wastewater treatment systems in 1987. The TurboHydrozone® was a great success and drastically improved our wastewater system performance.

The RGF Ozone Water Treatment Plan

The RGF ozone water treatment program consists of the following:

- Ultraviolet Light (UV) produced ozone - Up to 0.1% concentration (for potable water treatment)
- Corona Discharge (CD) produced ozone - Up to 10% concentration with oxygen (for potable or wastewater treatment)

RGF TurboHydrozone® UV Ozone Systems are low cost, low maintenance systems ideal for low flow potable water systems where high concentrations of ozone are not necessary. UV ozone is also very effective in advanced oxidation systems such as RGFs CO³P or UV/O₃ systems.

RGF CD Ozone Systems are preferred when high concentrations of ozone are needed to achieve high mass transfer efficiency in water such as (Note: refer to the Engineering Data Section for a comparison of UV vs. CD ozone):

- High flow rates
- Ozone residuals in water
- Single pass treatment
- Wastewater disinfection

Applications

The TurboHydrozone® Ozone Water Treatment Systems destroy by oxidation the following water contaminants:

- Bacteria
- Viruses
- Iron *
- Algae
- Odors
- Oils, Fats and Grease
- Color
- BOD/COD
- Chlorine
- Manganese *
- VOC's
- * by precipitation

Water Treatment Sizing Formula

Use the following formula for calculating the applied dosage of ozone in water.

$$(\text{Grams per hour} / \text{Gallons per minute}) \times 4.41 = \text{PPM Dosage}$$

Example for TurboHydrozone® Model 60:

This is an example of a 5 gpm venturi system utilizing a TurboHydrozone® Model 60.

$$(0.24 \text{ gm/hr} / 5 \text{ gpm}) \times 4.41 = 0.211 \text{ PPM Dosage}$$

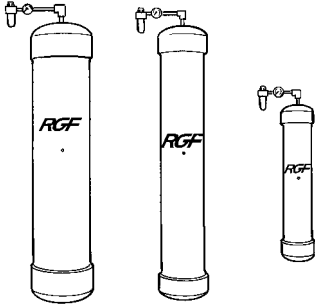
The amount of applied ozone to purify water depends upon the temperature and the amount and type of contaminants in the water.



OZONE WATER TREATMENT SYSTEMS

TurboHydrozone® Models 30, 60, and 120 Ultraviolet Light Ozone Generators

These extremely durable, low cost ozone generators for water treatment are designed to be used in holding tanks, pools, decorative fountains or water treatment and recycling systems. Generators require either a Macro-Aerator, Bubble Blaster, or Ozone Venturi for ozone dispersion into the water. Air preparation system not required.



- **Dimensions:** Model 30-HO: 4"D x 24"L
Model 60-HO: 6"D x 48"L
Model 120-HO: 8"D x 48"L
- **Electrical:** Model 30-HO: 120/220 VAC 50/60 Hz 1.0 Amps
Model 60-HO: 120/220 VAC 50/60 Hz 2.0 Amps
Model 120-HO: 120/220 VAC 50/60 Hz 3.0 Amps
- **Ozone Generator:** 185 NM high output ultraviolet light source
- **Air Preparation:** Not necessary undried air does not effect generator
Air dryer or oxygen feed optional

Note: Please specify power requirements at time of order.

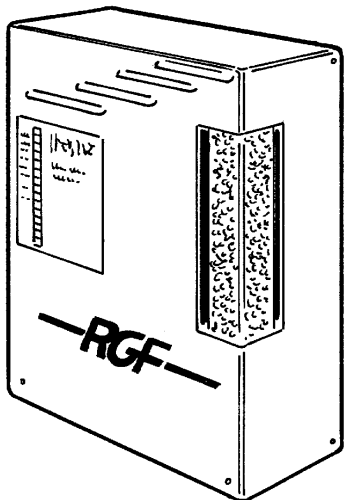
80% Higher O₃ Outputs in 1998

Item #	Description	Ozone Output* @			Ship Wt.
		20 scfh	1 cfm	5 cfm	
TH30-16-FS	TurboHydrozone® Model 30-HO - 110 VAC	0.27 g/hr	0.324 g/hr	0.54 g/hr	10 lbs.
TH30-26-FS	TurboHydrozone® Model 30-HO - 220 VAC*	0.27 g/hr	0.324 g/hr	0.54 g/hr	10 lbs.
TH60-16-FS	TurboHydrozone® Model 60-HO - 110 VAC	0.43 g/hr	0.72 g/hr	2.70 g/hr	22 lbs.
TH60-26-FS	TurboHydrozone® Model 60-HO - 220 VAC*	0.43 g/hr	0.72 g/hr	2.70 g/hr	22 lbs.
TH120-16-FS	TurboHydrozone® Model 120-HO - 110 VAC	2.20 g/hr	3.10 g/hr	7.00 g/hr	31 lbs.
TH120-26-FS	TurboHydrozone® Model 120-HO - 220 VAC*	2.20 g/hr	3.10 g/hr	7.00 g/hr	31 lbs.

* Operates at 50 or 60 Hz

* Ozone output tested at 80° F and 40% relative humidity (no air preparation).

Ozone System 10-AD Dried Air Corona Discharge Ozone Generator



The Ozone System 10-AD corona discharge ozone generator is a complete packaged generator intended for use in water applications where high concentrations of ozone are necessary. The Ozone System 10-AD already includes an integrated air preparation system and features a weather resistant cover, a single polished 316L stainless steel reaction chamber with variable control, and solid state electronic components with LED ozone level indicator lights.

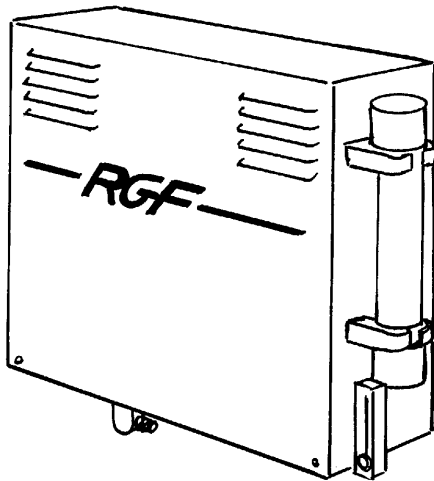
- **Dimensions:** 16.625"H x 8" W x 8" D
- **Electrical:** 90-260 VAC, 47-63 Hz, 1.0 Amps
- **Ozone Generator:** Air cooled resonant high frequency (RHF) single tube 316L stainless steel cell w/ quartz dielectric
- **Air Preparation:** Built-in heat regenerative dessicant dryer -50° F dewpoint, dessicant indicator

Item #	Description	Ozone Output* @ 15 scfh	Ship Wt.
CDS-10-AD	CD Ozone System 10-AD	1.0 g/hr	20 lbs.

* Ozone output tested at -50° F dew point (Dried Air)

OZONE WATER TREATMENT SYSTEMS

Ozone System 28-AD Dried Air Corona Discharge Ozone Generator



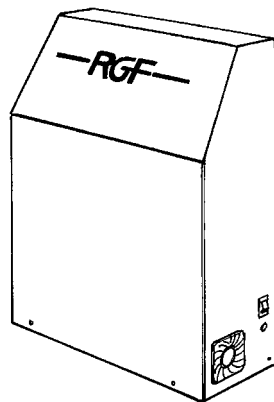
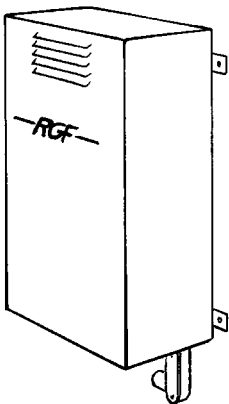
The Ozone System 28-AD corona discharge ozone generator is complete packaged generator intended for use in water applications where high concentrations of ozone are necessary. The Ozone System 28-AD already includes an integrated air preparation system and features an SCFH gauge, vacuum switch, and external dessicant indicator cartridge to ensure maximum ozone production. This system also features a powder coated cover, a single polished 316L stainless steel reaction chamber, and solid state electronic components for a long, dependable life.

- **Dimensions:** 22.75"H x 24.25" W x 5.5" D
- **Electrical:** 90-260 VAC, 47-63 Hz, 3.0 Amps
- **Ozone Generator:** Air cooled resonant high frequency (RHF)
(1) - single tube 316L stainless steel cell w/quartz dielectric
- **Air Preparation:** Built-in heat regenerative dessicant dryer
-50° F dewpoint, dessicant indicator included
- **Options:** Ozone injectors, Ozone Contact Tanks

Item #	Description	Ozone Output* @ 15 scfh	Ship Wt.
CDS-28-AD	CD Ozone System 28-AD	2.8 g/hr	42 lbs.

* Ozone output tested at -50° F dew point (Dried Air)

Ozone System 76-OX Oxygen Feed Corona Discharge Ozone Generator



The Ozone System 76-OX corona discharge ozone generator is intended for use in water applications where high concentrations of ozone are necessary. The Ozone System 76-OX producing up to 7.6 grams per hour of ozone from an oxygen feed source. The unit features a powder coated cover, a single polished 316L stainless steel reaction chamber, and solid state electronic components for a long, dependable life. The 76-OX requires an AS-12 oxygen generator.

- **Dimensions:** 22.75"H x 24.25" W x 5.5" D
- **Electrical:** 110/220 VAC, 50/60 Hz, 3.0 Amps
- **Ozone Generator:** Air cooled resonant high frequency (RHF)
(1) - single tube 316L stainless steel cell w/quartz dielectric
- **Air Preparation:** requires AS-12 oxygen generator
-100° F dewpoint
- **Options:** Ozone injectors, Ozone Contact Tanks
Interlock Box Controller

Item #	Description	Ozone Output** @ 15 scfh	Ship Wt.
CD-76-OX	CD Ozone System 76-OX*	7.6 g/hr	32 lbs.
AS-12	AS-12 Oxygen Generator	---	52 lbs.

* The 76-OX requires (1) AS-12 Oxygen Generators

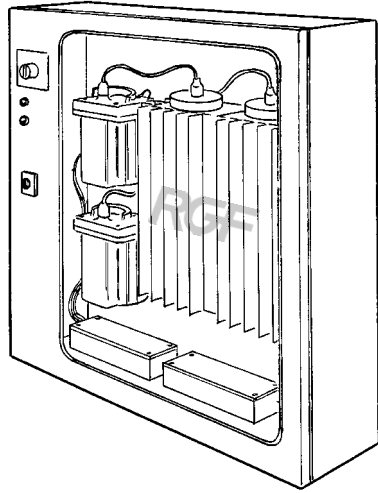
** Ozone output tested 90% oxygen feed gas



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OZONE WATER TREATMENT SYSTEMS

Ozone System 140-OX Oxygen Feed Corona Discharge Ozone Generator

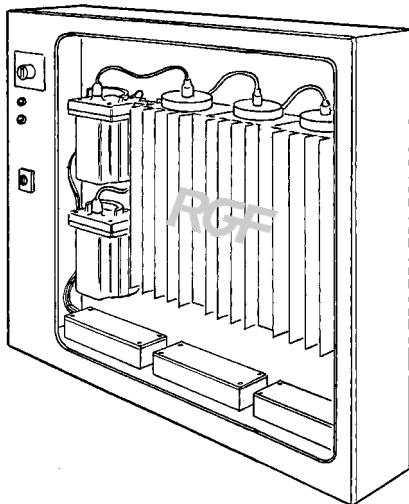


The Ozone System 140-OX corona discharge ozone generator is designed for use in water applications where high concentrations of ozone are necessary. The Ozone System 140-OX producing up to 15.4 grams per hour of ozone from an oxygen feed source. This system also features a powder coated cover, dual polished 316L stainless steel reaction chambers, and solid state electronic components for a long, dependable life. The 140-OX requires one AS-12 oxygen generator.

- *Dimensions:* 22.75"H x 24.25" W x 5.5" D
- *Electrical:* 110 / 220 VAC, 50/60 Hz, 3.0 Amps
- *Ozone Generator:* Air cooled resonant high frequency (RHF)
(2) - single tube 316L stainless steel cell w/quartz dielectric
- *Air Preparation:* requires (2) AS-12 oxygen generators
-100° F dewpoint
- *Options:* Ozone injectors, Ozone Contact Tanks
Interlock Box Controller

Item #	Description	Ozone Output** @ 30 scfh	Ship Wt.
CD-140-OX	CD Ozone System 140-OX*	15.4 g/hr	49 lbs.
AS-12	AS-12 Oxygen Generator	---	
		* The requires (1) AS-12 Oxygen Generators	
		** Ozone output tested 90% oxygen feed gas	

Ozone System 190-OX Oxygen Feed Corona Discharge Ozone Generator



Corona discharge ozone generator for use in water applications where high concentrations of ozone are necessary. The Ozone System 190-OX producing up to 19.0 grams per hour of ozone from an oxygen feed source. The 190-OX is equipped with a built-in Interlock Box controller which provides ready to use control and safety features for hooking the system up to a venturi / pump system. The unit features a powder coated cover, polished 316L stainless steel reaction chambers, solid state electronic components for a long, dependable life. The 190-OX requires two AS-12 oxygen generators.

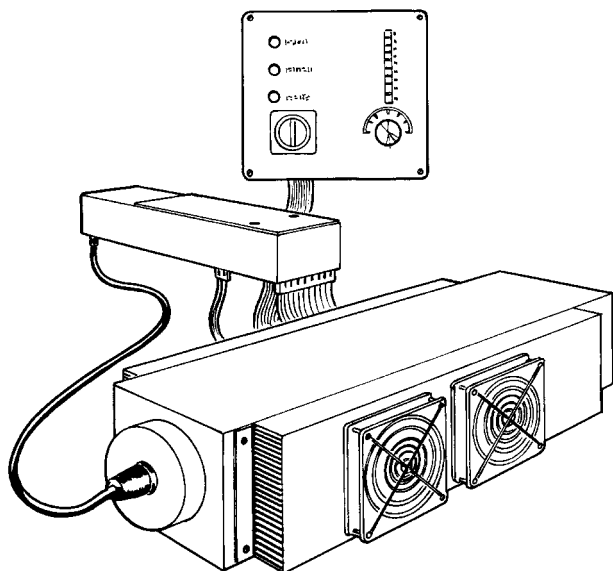
- *Dimensions:* 22.75"H x 24.25" W x 5.5" D
- *Electrical:* 110/220 VAC, 50/60 Hz, 3.0 Amps
- *Ozone Generator:* Air cooled resonant high frequency (RHF)
(3) - single tube 316L stainless steel cell w/quartz dielectric
- *Air Preparation:* requires (2) AS-12 oxygen generators-100° F dewpoint
- *Options:* Ozone injectors, Ozone Contact Tanks,

Item #	Description	Ozone Output** @ 30 scfh	Ship Wt.
CD-190-OX	CD Ozone System 190-OX*	19.0 g/hr	72 lbs.
AS-12	AS-12 Oxygen Generator	---	52 lbs.
		* The190-OX requires (2) AS-12 Oxygen Generators	
		** Ozone output tested 90% oxygen feed gas	

RGF's Modular UHF Ozone Generation Systems Commercial / Industrial CD Ozone Generation Systems

RGF's Modular UHF Ozone Generation Systems were designed for Commercial / Industrial applications where each application requires a specific size ozone generator. The modular design allows for addition of individual corona discharge chambers to achieve the ozone output necessary. The modular corona discharge chambers incorporate a revolutionary new design which utilizes an ultra-high-frequency technique of ozone production. This patent pending solid state design automatically tunes each corona chamber to a resonant ultra-high-frequency operating range for the optimum ozone production and energy conservation, regardless of the feed gas conditions.

UHF Ozone Generation Module



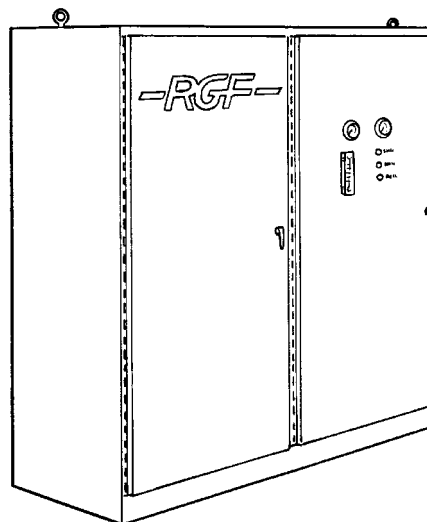
Each UHF Module contains a solid state high frequency driver circuit with feedback and control and a 0 - 100 gm/hr corona cell. The corona cells utilize a unique thermal electric cooling method that does not require water cooling. Each driver module is connected to a control module which controls and monitors the output of each module. The control module contains 0 - 100% output controls or can be controlled by an external device such as an ozone monitor or ORP controller that contains 4 - 20 mA feedback.

- **UHF Driver Module:** 45 kHz resonant frequency driver
- **Corona Cell:** thermal electrically cooled single tube 316L stainless steel cell
- **Ozone Output:** 0 - 100 gm/hr per Cell
- **Air Preparation:** dried air or oxygen feed
- **Controls:** 0 - 100% output control or ORP Monitor Controlled
- **Feed Gas Flow Range:** 5 - 100 SCFH

The air preparation and ozone generation modules are housed in interconnecting modular enclosures to accommodate your particular application. These enclosures can be connected in series or stand alone to fit virtually any installation. All UHF Modular enclosures come standard with door safety interlocks, module operation controls, O₂/O₃ flow controls, ozone safety interlocks, cooling fans, and electrical junctions. Optional features include: ozone leak detection monitors, stainless steel enclosure exterior, overload and auxiliary relays.

- **Module Construction:** two part epoxy painted carbon steel
304 S.S. available
- **Module Dimensions:** 72" H x 38.75" W x 18" D
- **Standard Features:** door interlock switches, stainless steel ozone interlock valves, vacuum switch, system controls and indicator lights, oxygen/ozone flow controls, cooling fans, courtesy electrical box.
- **Options:** ozone leak detection monitor, overload and aux. relays

Air Prep and Ozone Generation Enclosures



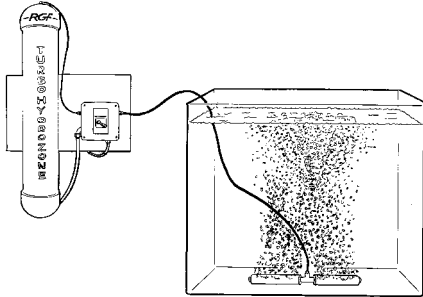
Call RGF today and a system integrator will help you size a UHF Ozone System to fit your application

OZONE WATER TREATMENT SYSTEMS

TurboHydrozone® UV Ozone Systems Complete UV Ozone Water Treatment Systems

These low cost units are specifically designed to treat holding tank water by reducing odor, color, and algae build-up in the water. Three different models to choose from to accommodate a wide range of conditions. These units are fully automatic, easy to install, and require low maintenance.

Model TCW-6000 Macro Aerator System



The model TCW-6000 was designed to treat tanks up to 400 gallon capacity with light organic loading. The Macro Aerators can be put into tanks through man ways or access covers. The TCW-6000 is capable of treating multiple tanks with additional Macro Aerators (up to 400 gallons each). The system requires a compressed air source (RGF's optional air compressor kit item # OP-050).

- *Dimensions:* 24"W x 9 1/2"D x 42"H
- *Electrical:* 120/220 VAC, 50/60 Hz, 2.0 Amps

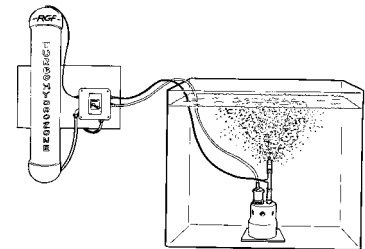
Note: Please specify power requirements at time of order.

Model TCW-6002 Bubble Blaster System

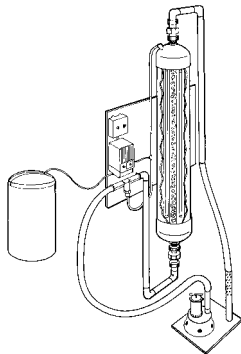
The Model TCW-6002 is designed to treat tanks up to 600 gallon capacity with moderate organic loading. The system utilizes RGF's Bubble Blaster pump to circulate and aerate tank water, circulating up to 7,200 gallons of water per day.

- *Dimensions:* 16"W x 9 1/2"D x 22 1/2"H
- *Flow Rate:* 5 g.p.m. / 7,200 g.p.d
- *Electrical:* 120/220 VAC, 50/60 Hz, 5.0 Amps

Note: Please specify power requirements at time of order.



Model CW-CO³P Bubble Blaster System



The model CW-CO³P is specifically designed to treat tanks up to 1,200 gallon capacity with high organic loading. This system utilizes a combination of ozone, hydrogen peroxide, and ultraviolet light to create a hydroxyl radical, which actually oxidizes the contaminants to harmless carbon dioxide and water. A supplied pump circulates the water from the tank through a venturi, then through the ultraviolet ozone generation chamber, and returns it to the tank. Available in two sizes: ST - up to 800 gallons, and XL - up to 1200 gallons.

- *Dimensions:* 24"W x 9"D x 60"H
- *Flow Rate:* 5 g.p.m. / 7,200 g.p.d.
- *Electrical:* 120/220 VAC, 50/60 Hz, 2.0 Amps

Note: Please specify power requirements at time of order.

80% Higher O₃ Outputs in 1998

Item #	Description	Ozone Output ppm @ 20 scfh	UV Intensity Dosage	Treatment Capacity	Ship Wt.
CWM60	Macro Aerator UV Ozone System	0.432 g/hr	N/A	Up to 400 gallons	80 lbs.
MA-01T	Additional Macro Aerators	---	---	-	20 lbs.
CWB60	Bubble Blaster UV Ozone System	0.432 g/hr	N/A	Up to 600 gallons	60 lbs.
BB-016T	Additional Bubble Blaster	---	---	-	11 lbs.
CWST60	CW-CO ³ P UV Ozone System (ST)	0.432 g/hr	20,000 mW-sec/cm ²	Up to 800 gallons	90 lbs.
CWXL60	CW-CO ³ P UV Ozone System (XL)	0.864 g/hr	40,000 mW-sec/cm ²	Up to 1,200 gallons	100 lbs.



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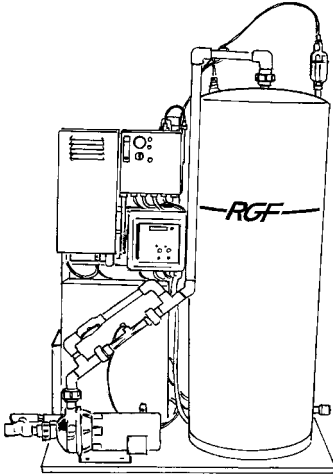
OZONE WATER TREATMENT SYSTEMS

RGF Ozone Contacting Systems Complete CD Ozone Water Treatment Systems

**Great for
Food Processing
Applications**

The RGF OCS-076 and RGF OCS-140 Ozone Contacting System is designed to sterilize water by building up a residual of ozone in the water to achieve proper sanitation levels. The system can be connected to a storage tank to circulate water for sterilization, or to build up a residual of ozone in water to be used to sterilize items such as bottles, fruit/vegetables, meats, or sterilizing contaminated surfaces. The unit comes complete with a stainless steel circulation pump, ozone venturi, contact vessel, CD ozone generator, and system safety control interlock.

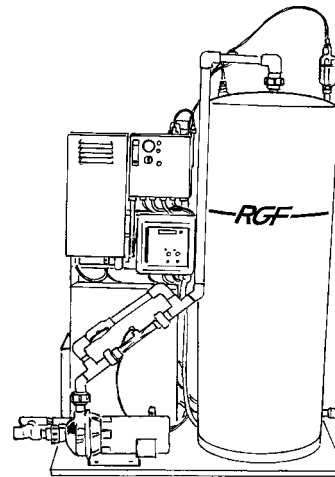
RGF Ozone Contacting System OCS-076



- *Dimensions:* 74" H x 48" W x 26" D
- *Electrical:* 220 VAC, 50/60 Hz, 20.0 Amps
- *Ozone Generator:* 7.6 g/hr air cooled resonant high frequency (RHF) single tube 316L stainless steel cell w/quartz dielectric
- *Air Preparation:* Built-in heat regenerative dessicant dryer -50° F dewpoint, dessicant indicator
- *Control:* ORP Monitor Controlled Solenoid Valve
- *Pumps:* 1 h.p. stainless steel centrifugal
- *Flow Rate:* 20 - 40 g.p.m.
- *Contact Vessel:* 65 gallons epoxy fiber tank
- *Dosage and Contact:* 3.09 ppm @ 10 gpm, 5.0 min. contact time
2.23 ppm @ 15 gpm, 5.0 min. contact time
1.54 ppm @ 20 gpm, 5.0 min. contact time
- *Options:* 316L stainless steel piping, FDA Venturi
316L stainless steel contact tank
ORP or ozone monitor

RGF Ozone Contacting System OCS-140

- *Dimensions:* 84" H x 36" L x 26" D
- *Electrical:* 220 VAC, 50/60 Hz, 20.0 Amps
- *Ozone Generator:* 14.0 g/hr air cooled resonant high frequency (RHF) single tube 316L stainless steel cell w/quartz dielectric
- *Air Preparation:* AS-12 Oxygen Generator, -50° F dewpoint
- *Control:* ORP Monitor Controlled Solenoid Valve
- *Pumps:* 2 h.p. stainless steel centrifugal
- *Flow Rate:* 20 - 40 g.p.m.
- *Contact Vessel:* 100 gallons epoxy fiber tank
- *Dosage and Contact:* 3.09 ppm @ 20 gpm, 5.0 min. contact time
2.23 ppm @ 30 gpm, 5.0 min. contact time
1.54 ppm @ 40 gpm, 5.0 min. contact time
- *Options:* 316L stainless steel piping, FDA Venturi
316L stainless steel contact tank
ORP or ozone monitor

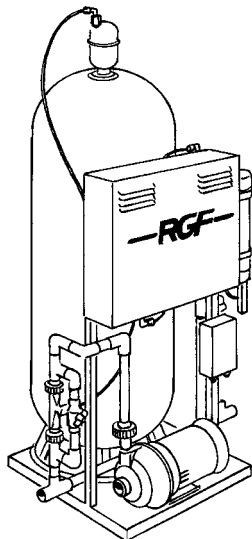


Item #	Description	Ozone Output @ 15 scfh	Flow Rate	Ship Wt.
OCS-076	RGF Ozone Contacting System OCS-076	7.6 g/hr*	10 - 20 g.p.m.	240 lbs.
OCS-140	RGF Ozone Contacting System OCS-140	14.0 g/hr**	20 - 40 g.p.m.	290 lbs.

Larger Ozone Contacting Systems Available

* Ozone output tested at -50° F dew point (Dried Air)
** Ozone output tested 90% oxygen feed gas

RGF TOPS Systems Point of Entry Ozone Water Treatment Systems



The RGF TOPS-10 and TOPS-28 are point of entry total ozone purification systems for well water or municipal water treatment. The systems utilize corona discharge generated ozone to eliminate waterborne contaminants such as iron, manganese, e-coli, and hydrogen sulfide. In addition the ozone oxidation provides brilliant clarity to the water and improved taste. The systems come completely skid mounted with a air dried corona discharge ozone generator, stainless steel booster pump, injector, fiberglass contact tank, vacuum break and a dry contact time delay circuit to control the system.

- *Dimensions:* 56" H x 30" W x 30" D - TOPS-10
66" H x 30" W x 30" D - TOPS-28
- *Electrical:* 110 VAC, 60 Hz, 15.0 Amps
- *Ozone Production:* single tube dielectric w/ built-in swing heat regenerative air dryer
- *Contact Tank:* 30 gallon - TOPS-10
40 gallon - TOPS-28
- *Control:* dry contact activated time delay
- *Options:* UV Catalytic Chamber (SA-006T)

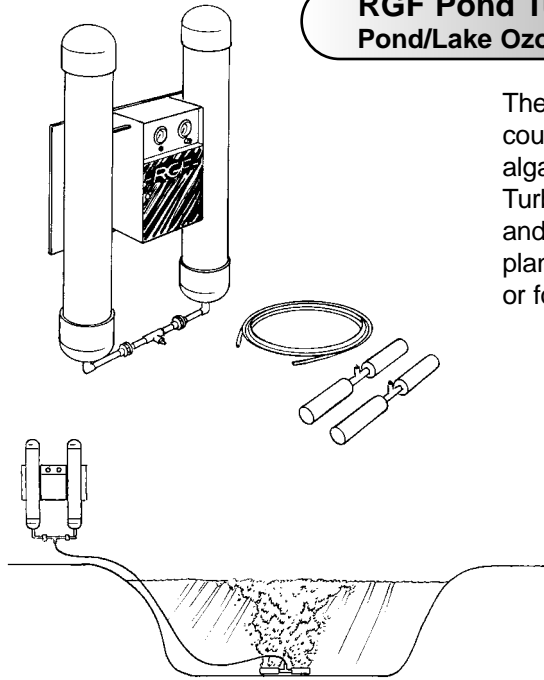
<i>Item #</i>	<i>Description</i>	<i>Ozone Output @ 15 scfh</i>	<i>Flow rate</i>	<i>Ship Wt.</i>
TOPS-10	RGF TOPS-10 Ozone System	1.0 g/hr*	0 - 10 gpm	166 lbs.
TOPS-28	RGF TOPS-28 Ozone System	2.8 g/hr*	0 - 15 gpm	210 lbs.

* Ozone output tested 90% oxygen feed gas



OZONE WATER TREATMENT SYSTEMS

RGF Pond Turbohydrozone Systems Pond/Lake Ozone Water Treatment Systems



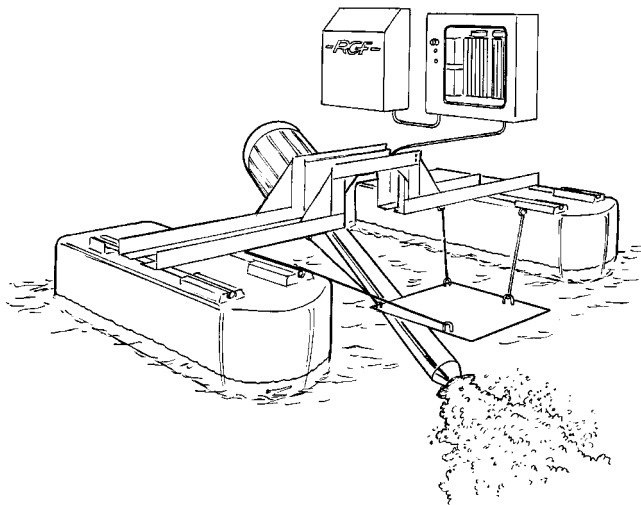
The RGF Pond Turbohydrozone Systems are designed for lakes, golf course ponds and reservoirs where thermal stratification creates unsightly algae blooms and odors. The system utilizes our time proven Turbohydrozone ozone generators which produce a low level of ozone and an aeration system to control the algae build ups without affecting plants and fish. The unit mounts along the shoreline and comes with two or four macro aerators to distribute the ozone into the water.

- *Dimensions:* 84" H x 36" L x 24" D
- *Electrical:* 120 VAC, 60 Hz, 10.0 Amps
- *Controls:* Safety Interlock Box
- *Ozone Production:* 185 NM high output UV light source
- *Air pump:* 1/2 h.p. rotary vane - Model 120P
1 h.p. rotary vane - Model 240P
- *Aeration Distribution:* 2 - macro aerators - Model 120P
4 - macro aerators - Model 240P

Item #	Description	Ozone Output @ 15 scfh	Pond Size	Ship Wt.
POND-120P	RGF Pond Turbohydrozone Model 120P	5.4 g/hr*	1/2 Acre @ 10 feet deep Max.	CALL
POND-120P	RGF Pond Turbohydrozone Model 240P	14.0 g/hr*	1 Acre @ 10 feet deep Max.	CALL

* Ozone output tested at 80° F and 40% relative humidity (no air preparation).

RGF Retention Treatment System Commercial / Industrial Pond/Lake Ozone Water Treatment System



The RGF Retention Treatment System is designed for commercial / industrial retention ponds, irrigation lakes and lagoons where algae blooms, odor problems or contamination loads are a concern. The system utilizes an oxygen fed corona discharge ozone generator for high concentration ozone production and a floating aerator to distribute the ozone into the water. Algae blooms and odors are controlled by the oxidizing power of ozone. The modular design of the Retention Treatment System enables treatment of large lagoons by adding extra modules.

- *Aerator Dimensions:* 36" H x 48" W x 56" L
- *Electrical:* 220 VAC, 50/60 Hz, 20.0 Amps
- *Ozone Production:* 14.0 g/hr air cooled corona discharge
- *Air Preparation:* AS-12 Oxygen Generator
- *Control:* Safety Interlock Box
- *Aerator:* 5 h.p.

Item #	Description	Ozone Output @ 15 scfh	Pond Size	Ship Wt.
POND-140-OX	RGF Retention Pond Treatment System	14.0 g/hr*	1/4 Acre @ 10 feet deep Max.	CALL

* Ozone output tested 90% oxygen feed gas

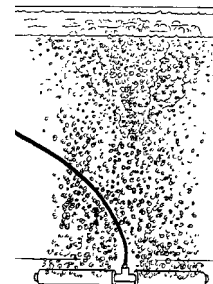
OZONE WATER TREATMENT SYSTEMS

Ozone Injectors

RGF's ozone water treatment systems require a method for introducing the ozone into the water source to be treated. The following items are designed for a variety of applications.

Macro Aerators

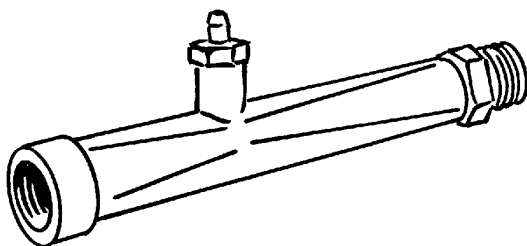
RGF's Macro Aerators provide an efficient method of treating standing bodies of water by first creating an upwelling, which helps to circulate the water. Then aerating the water with ozone rich air, which helps to oxidize organics. The Macro Aerators require a compressed air source for aeration. It may be used with a TurboHydrozone® providing ozone, or used with just air.



- *Dimensions:* 4"D x 24"L
- *Weight:* 10 Lbs.
- *Air Feed Requirements:* 1 - 10 cfm
- *Max. Feed Pressure:* 20 psi

Item #	Description	Ship Wt.
MA-001T	Macro Aerator	20 lbs.

Ozone Venturis

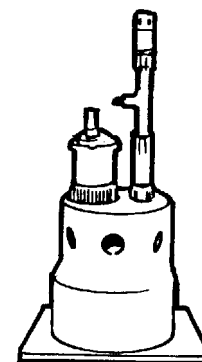


Ozone Venturis offer a reliable and economical method to inject ozone into a pressurized fluid stream. These differential pressure injection devices are extremely efficient and are molded from high quality thermoplastics, giving them superior strength and resistance to harsh environments.

Item #	Description	Flow Rate @ 30 p.s.i. feed	Ozone Suction @ 30 p.s.i. feed	Ship Wt.
PT-008T	3/4" Ozone Venturi	4.68 g.p.m.	27 scfh	1 lbs.
PT-006T	1" Ozone Venturi	9.2 g.p.m.	90 scfh	1 lbs.
PT-007T	1 1/2" Ozone Venturi	25.5 g.p.m.	275 scfh	1 lbs.

Bubble Blasters

RGF offers a total water program with its unique Bubble Blaster System. The pump is equipped with an ozone venturi, which forms a vacuum environment saturating the water with ozone from the TurboHydrozone®.



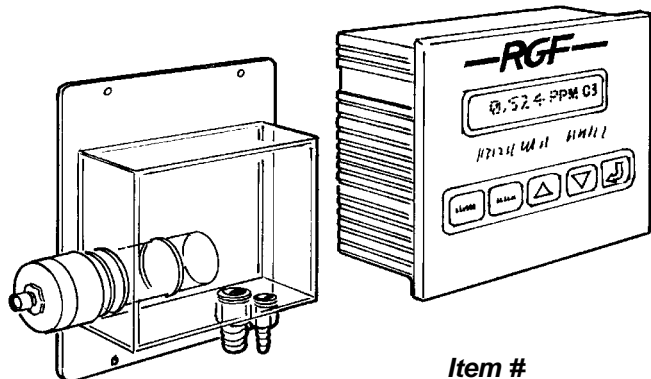
- *Dimensions:* 11"W x 11"D x 25"H
- *Weight:* 11 Lbs.
- *Flow Rate:* 5 g.p.m./ 7,200 g.p.d.
- *Ozone Suction:* 20 scfh
- *Electrical:* 120 VAC, 60 Hz, 5.6 Amps

Item #	Description	Ship Wt.
BB-016T	Bubble Blaster	22 lbs.

OZONE WATER TREATMENT SYSTEMS

RGF Dissolved Ozone Monitor Ozone Concentration in Water

RGF's Dissolved Ozone Monitor is an advanced electrochemical system for continuously monitoring dissolved ozone concentrations in water. It uses a direct sensing ozone sensor to measure dissolved ozone specifically, without interference from other sample components such as residual chlorine. Ideal for potable water treatment, ultrapure water systems, recycle systems, drinking water purifications, or virtually any ozonated water stream. Monitor includes two internal relays for controlling external devices such as ozone systems, and an analog output (4 - 20 MA) for charting. Comes complete with monitor (panel mount or NEMA 4X enclosures), dissolved ozone sensor, and sensor flow cell.

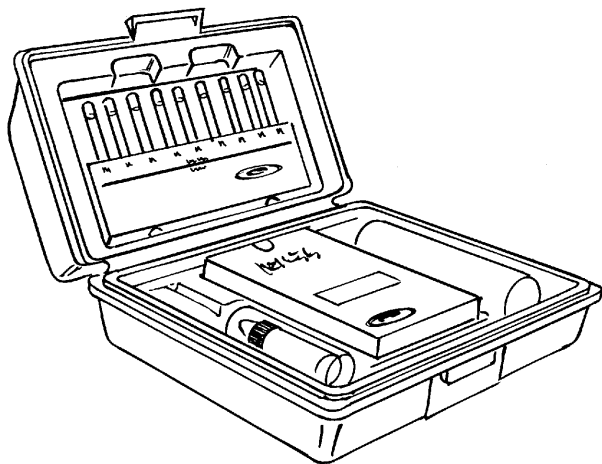


- **Measurement range:** Low range - 0 - 2.0 PPM
High range - 0 - 20.00 PPM
- **Sensitivity:** 0.001 PPM above 0.005 PPM
- **Ozone sensor:** Polarographic membraned sensor
- **Flowcell:** Clear Cast Acrylic
7 to 30 gph sidestream flow
- **Control Relays:** (2) - SPDT, 5A, 230 VAC resistive
- **Temperature range:** 0 - 50 ° C,
- **Electric:** 110 VAC, 50 / 60 Hz, 5 VA Max.

Item #	Description	Ship Wt.
SE-900T-Z	Ozone Monitor w / Probe - Panel Mount	4 lbs.
SE-901T-Z	Ozone Monitor w / Probe - NEMA 4X Enclosure	6 lbs.

Dissolved Ozone Test Kit Ozone Concentration in Water Tester

Self-filling reagent ampoules combine simplicity and accuracy giving results you can depend on in less than 3 minutes. The kit tests for ozone residual levels in water ranging from 0 to 2.0 PPM. Draw a 50 ml. sample, add an indicator solution to the sample, snap a pre-formulated liquid reagent in a vacuum sealed ampoule, and compare with the color standards. Kit contains ampoules for 30 tests. Refill ampoule packs are available.



- **Measurement method:** Potassium iodine oxidation reagent
- **Sensitivity:** 0.01 PPM for ranges of 0 to 1.0
0.1 PPM for ranges of 1.0 to 2.0
- **Ozone Indicator:** Visual colorimetric

Item #	Description	Ship Wt.
SE-800T-Y	Dissolved Ozone Test Kit	2 lbs.
SE-801T-Y	Refill Test Ampoules (Pk. 30)	1 lbs.

