



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

Aqua ElectrOzoneTM Ozone Generation System

Featuring Metawater MicroGapTM Core Technology

Aqua ElectrOzone™

Applications



AQUA-AEROBIC SYSTEMS, INC.
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- Taste and Odor Control
- Bleaching / Color Removal
- Oxidation
- Disinfection

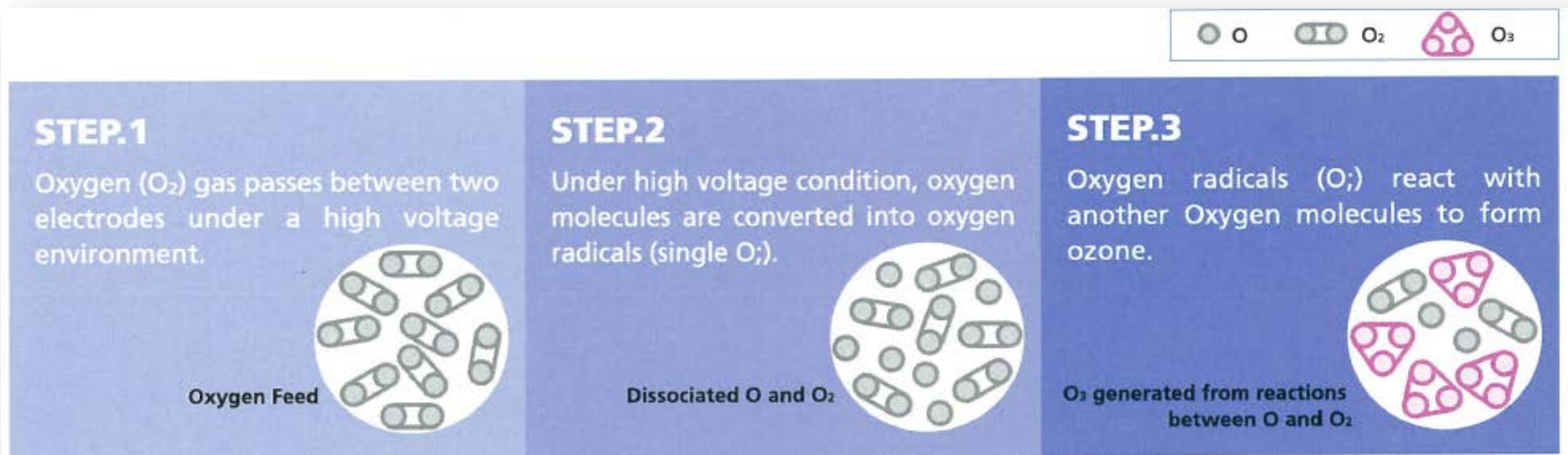


How It Works



AQUA-AEROBIC SYSTEMS, INC.
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Principle of Ozone Generation



High voltage alternating current (A.C.) is applied to two electrodes creating a corona discharge that converts oxygen into ozone molecules.



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Aqua ElectrOzone™

Ozone Generation System Features

- Metawater MicroGap™ Core Technology
- Individually Removable/Tunable Dielectrics
- Highest Production per Tube = Fewest Tube
- No Breakage Backed by TEN YEAR DIELECTRIC WARRANTY
- Pulse Width Modulation = Lowest Harmonics
- Double Cooled Stainless Steel Dielectric
- Very Low Nitrogen Boost = Lowest Dielectric Fouling



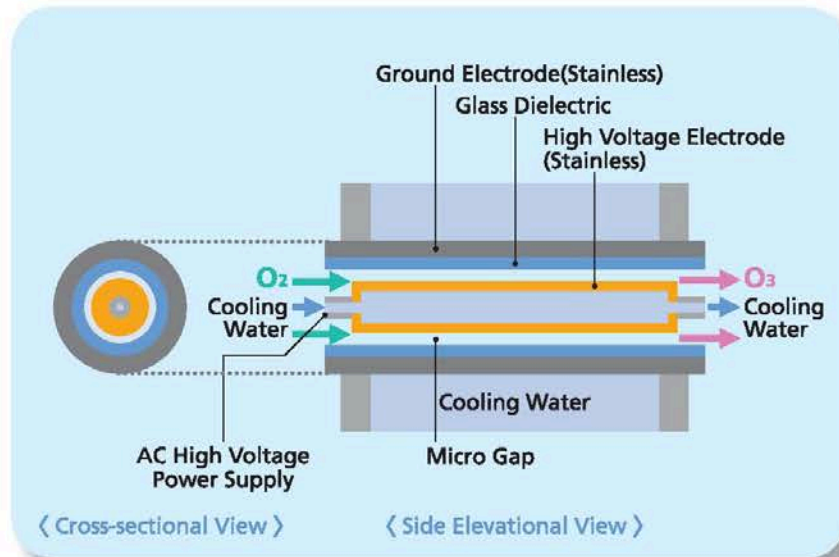
MicroGap™ Core Technology

Ozone Dielectric Assembly

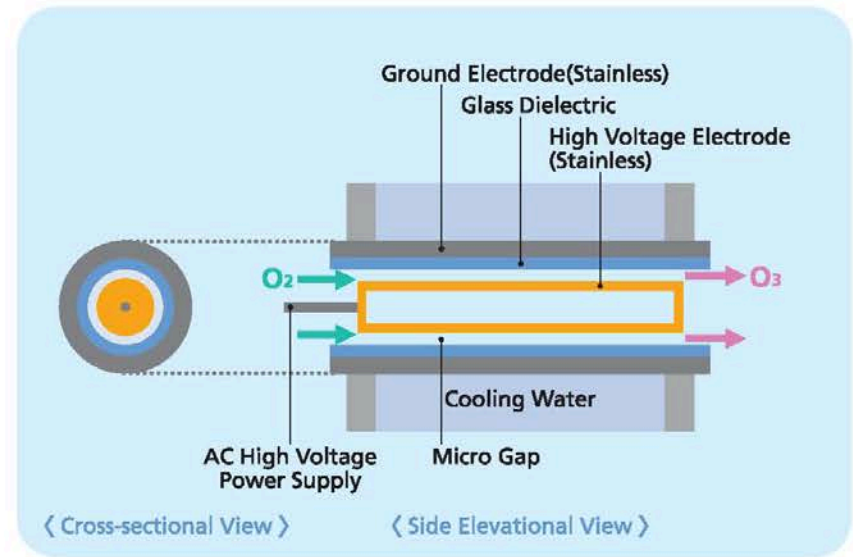


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Glass-lined Dielectric Assembly (Double Cooling System)



Glass-lined Dielectric Assembly (Single Cooling System)

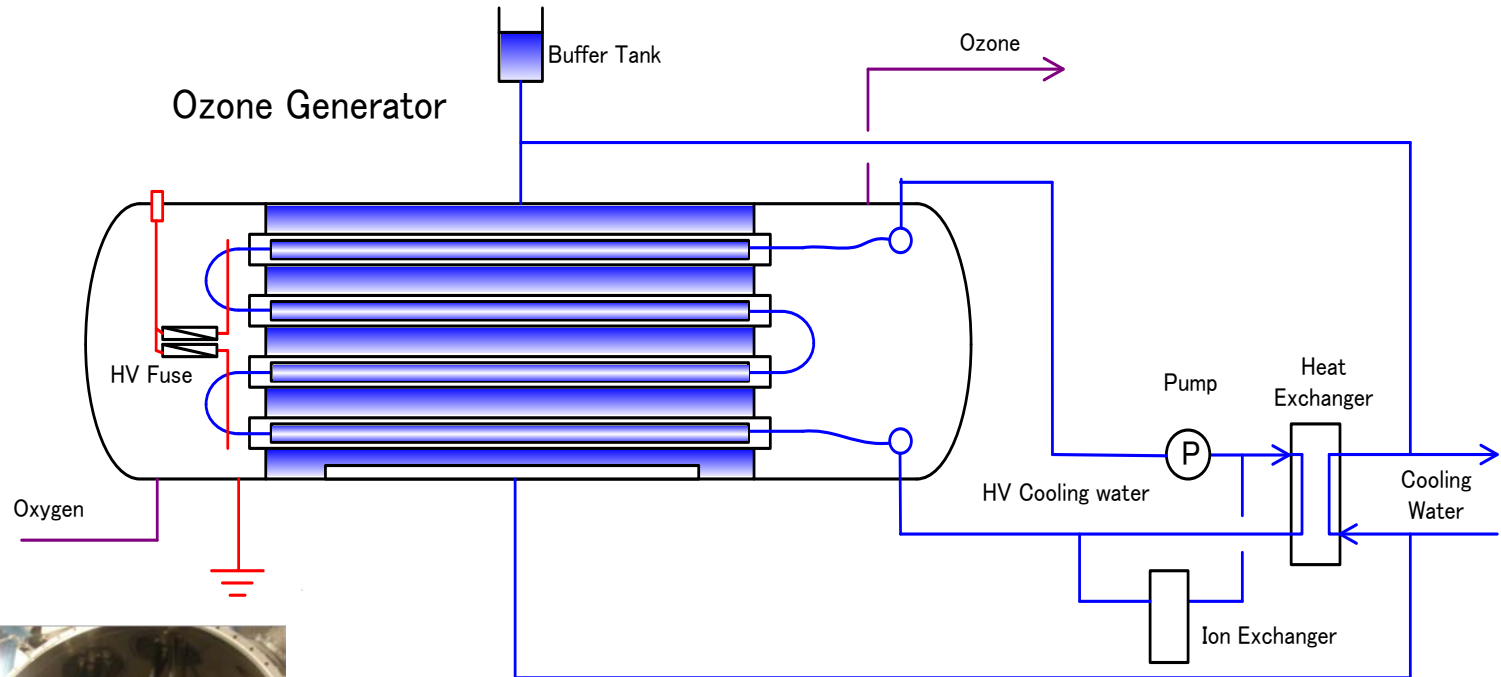


Aqua ElectrOzone™



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Ozone Generator – Double Cooling System



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Power Supply



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3 phase 480 VAC 60 Hz

Convertor



703 VDC

Invertor



1 phase 703 VAC 6.5~10kHz

Transformer

Reactor

High Voltage



1 phase 5 kVAC 6~10kHz

Ozone Generator

(Inductor/Capacitor (LC) Resonance circuit)

PSU



Installation Profile

Wylie, Texas



AQUA-AEROBIC SYSTEMS, INC.
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Primary Benefits

- Chlorination DBP control
- Taste and odor control
- Primary disinfection

Ancillary Benefits

- Iron and manganese oxidation
- Organics oxidation

11 x 3,900 PPD ozone generators
84" Diameter Vessels



Installation Profile

Miramar WTP, CA



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- **3 x 2,000 PPD ozone generators**
82.5" Diameter Vessel
- **Primary Benefits**
 - Taste & Odor control
 - Chlorination DBP control
 - Primary disinfection

Aqua ElectrOzone™



AQUA-AEROBIC SYSTEMS, INC.
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Ozone Generation System – Tampa Bay, FL



2200 PPD Ozone Generators

Aqua ElectrOzoneTM



AQUA-AEROBIC SYSTEMS, INC.
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Ozone Generation System – Oakville, Ontario



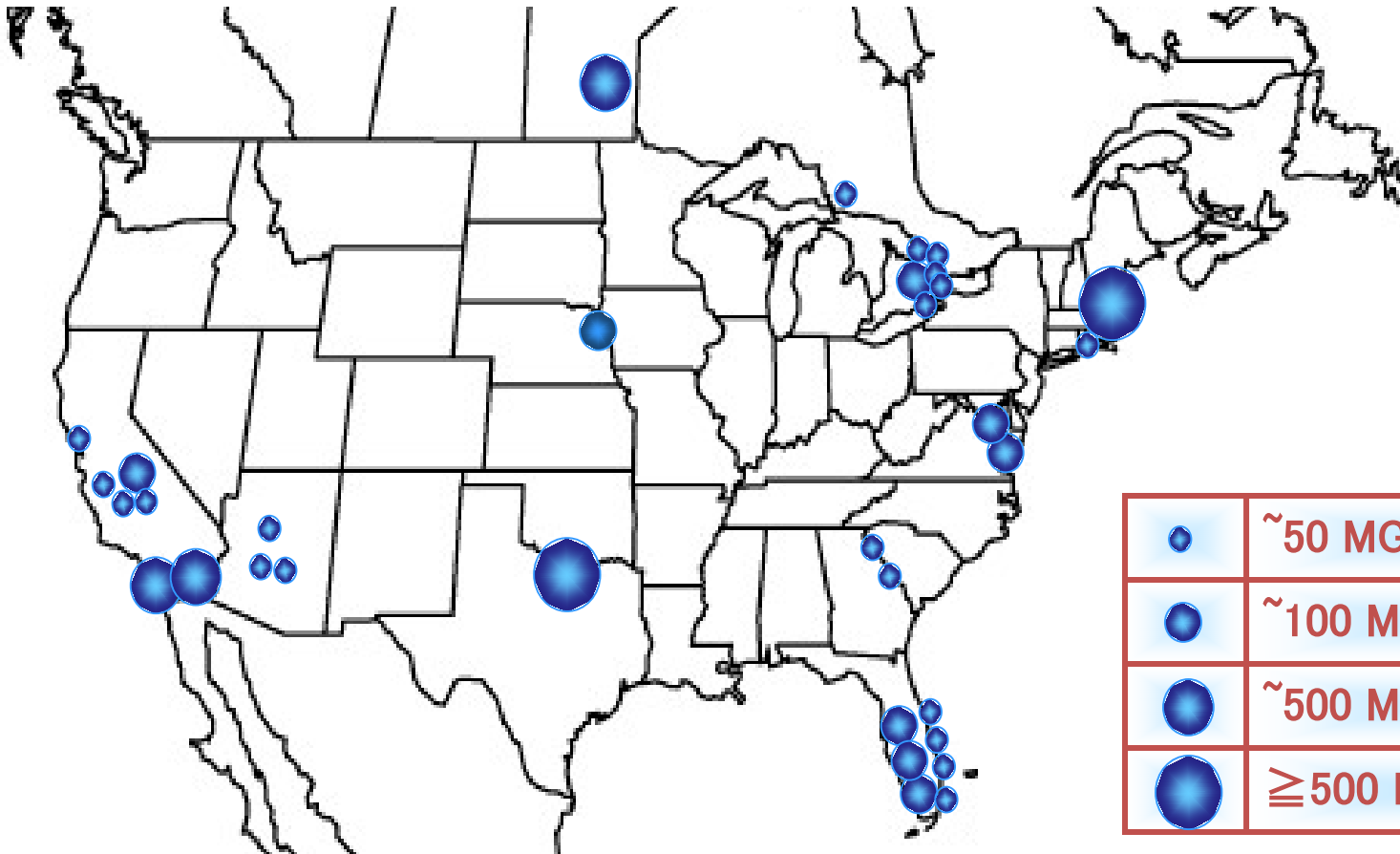
1400 PPD Ozone Generators





Aqua ElectrOzone™ Installations

North America



AQUA-AEROBIC SYSTEMS, INC.
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	~50 MGD
	~100 MGD
	~500 MGD
	≥ 500 MGD



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