



AQUA-AEROBIC SYSTEMS, INC.
A Metawater Company

Aqua ElectrOzoneTM Ozone Generation System

Featuring Metawater MicroGapTM Core Technology

Aqua ElectrOzone™

Applications

- Taste and Odor Control
- Bleaching / Color Removal
- Oxidation
- Disinfection



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How It Works

Principle of Ozone Generation

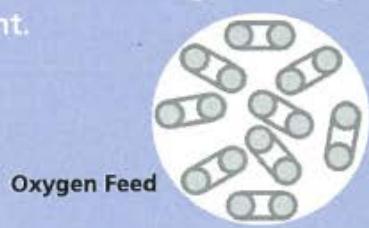


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STEP.1

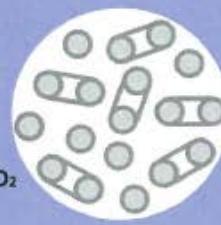
Oxygen (O_2) gas passes between two electrodes under a high voltage environment.



STEP.2

Under high voltage condition, oxygen molecules are converted into oxygen radicals (single O;).

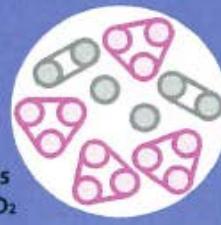
Dissociated O and O_2



STEP.3

Oxygen radicals (O_1) react with another Oxygen molecules to form ozone.

O_1 generated from reactions between O and O_2



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

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



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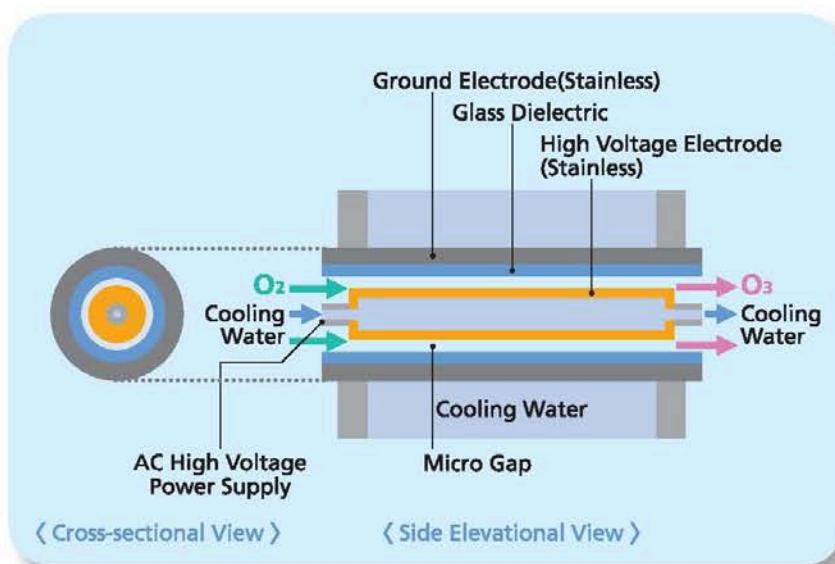
MicroGap™ Core Technology

Ozone Dielectric Assembly

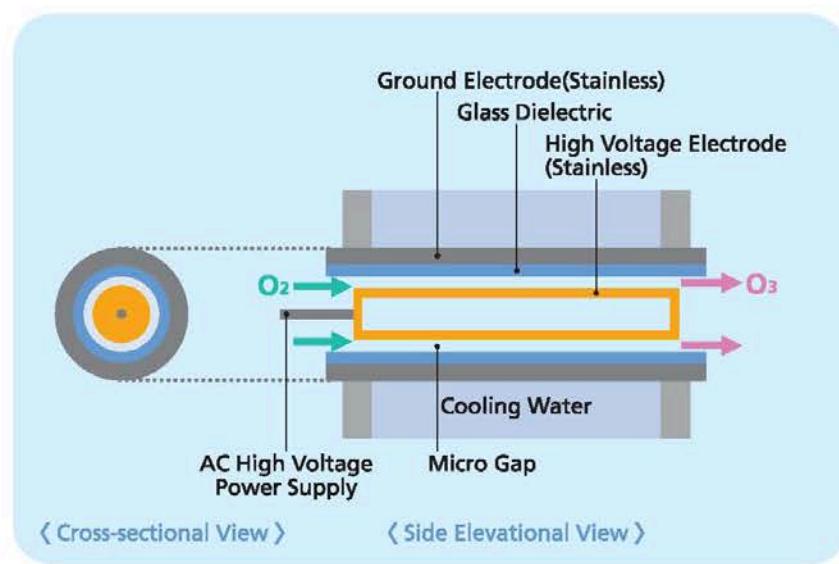


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Glass-lined Dielectric Assembly (Double Cooling System)



Glass-lined Dielectric Assembly (Single Cooling System)

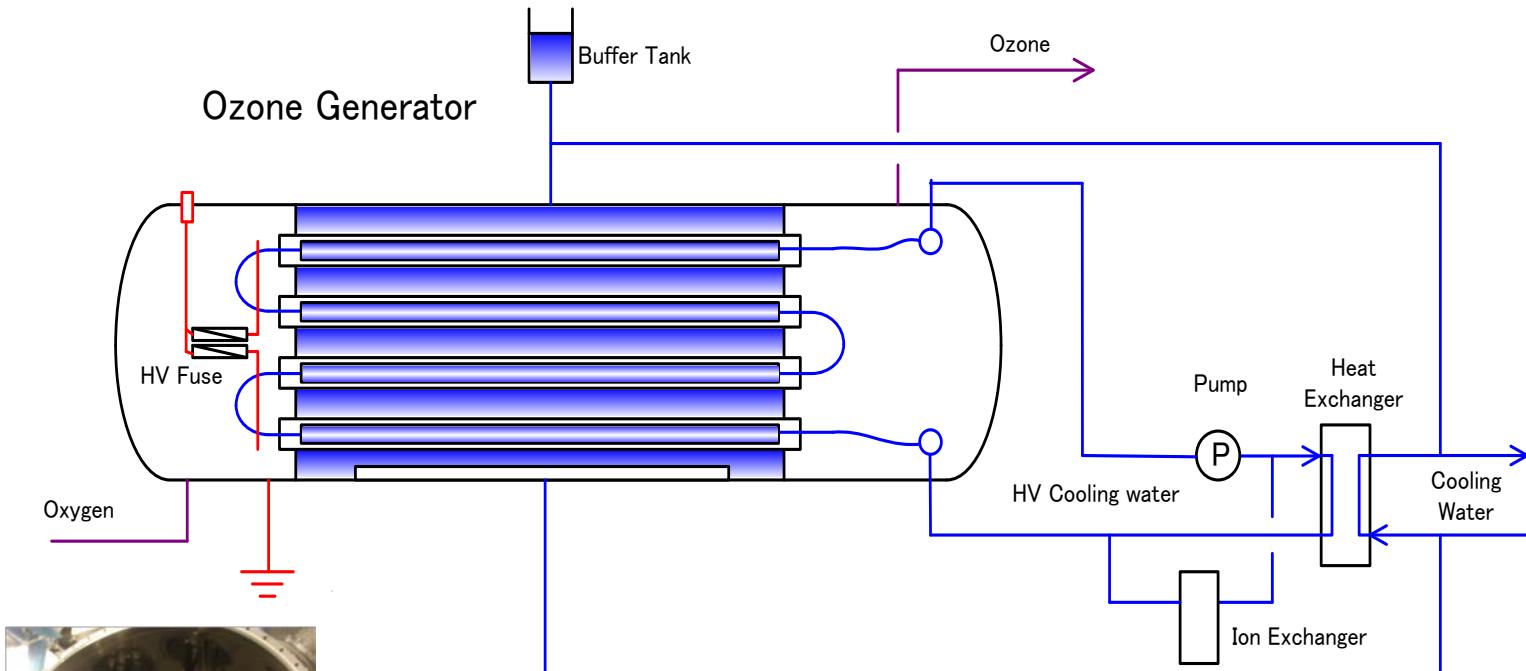


Aqua ElectrOzone™



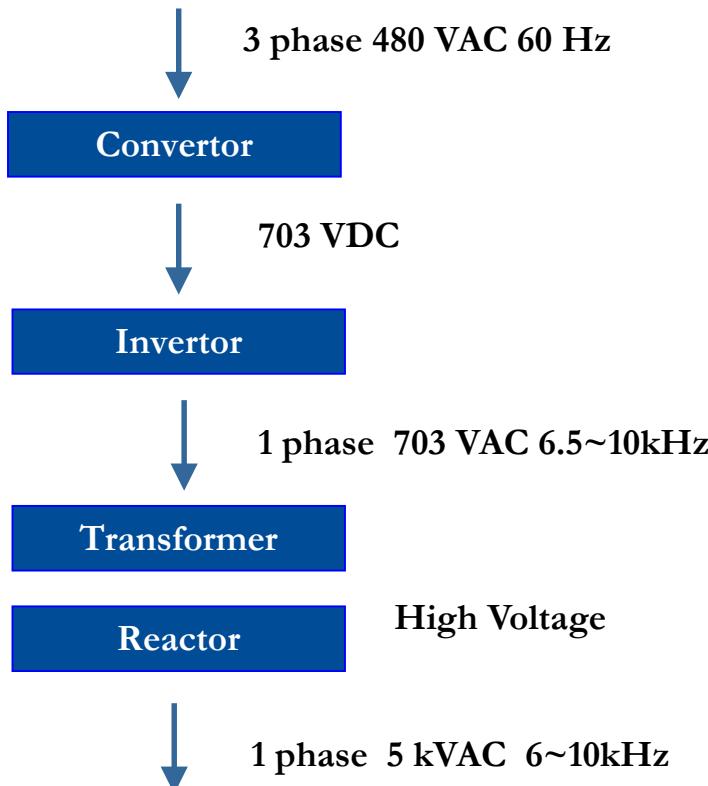
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Ozone Generator – Double Cooling System



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Power Supply



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(Inductor/Capacitor (LC) Resonance circuit)

Installation Profile

Wylie, Texas



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



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Primary Benefits

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

Ancillary Benefits

- Iron and manganese oxidation
- Organics oxidation



Installation Profile

Miramar WTP, CA



AQUA-AEROBIC SYSTEMS, INC.
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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 ElectrOzone™



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Ozone Generation System – Oakville, Ontario



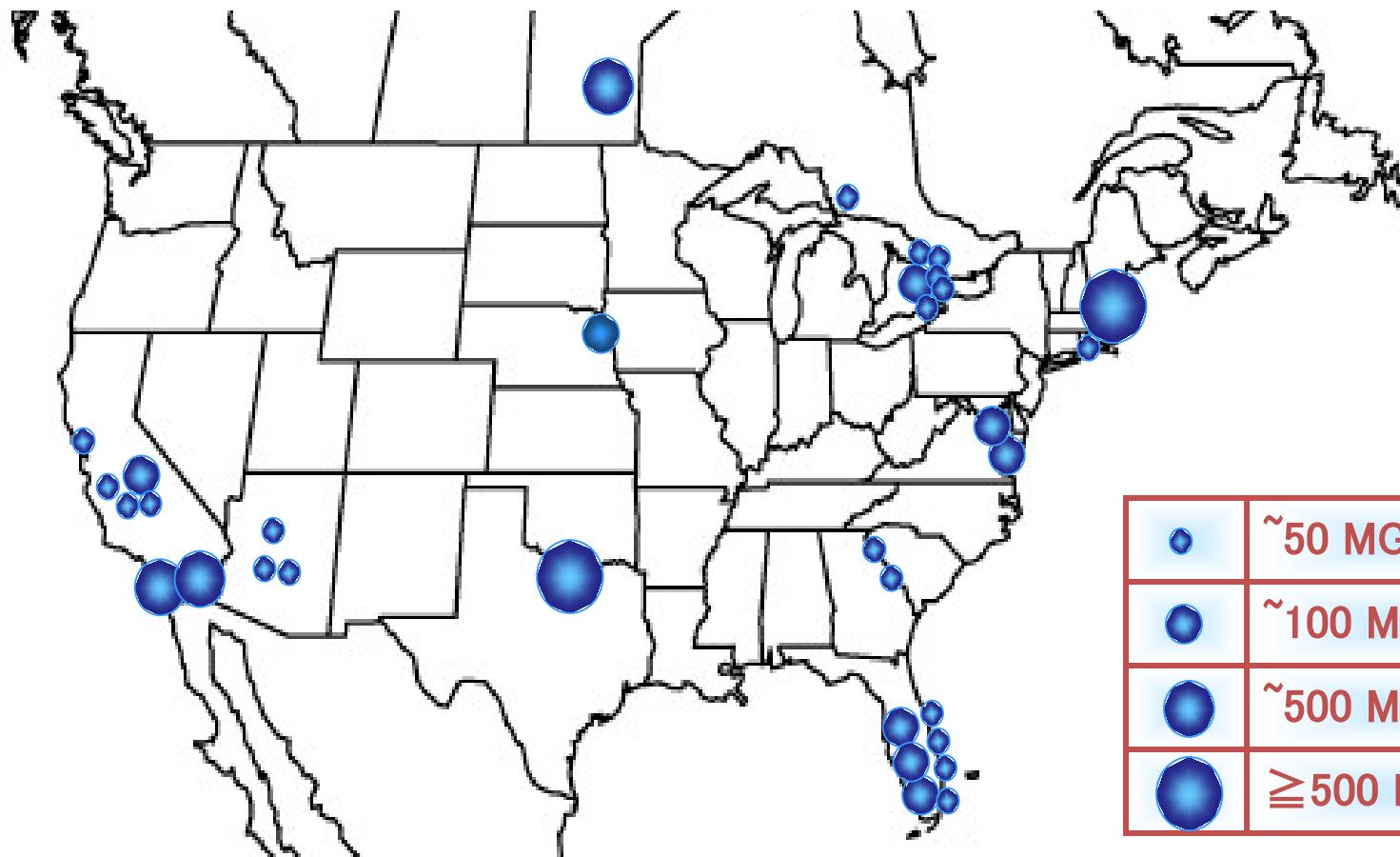
1400 PPD Ozone Generators

Aqua ElectrOzone™ Installations

North America



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