

**GOLF  
DIVISION**



# **Rainmaker**

**TRANSFORM YOUR WATER  
AND MAKE IT RAIN**

Revolutionary water treatment system enhances the quality of your turf and conserves water from tee to green.

**TECHNOLOGY PROVEN OVER 15 YEARS**



**Rainmaker.Earth**



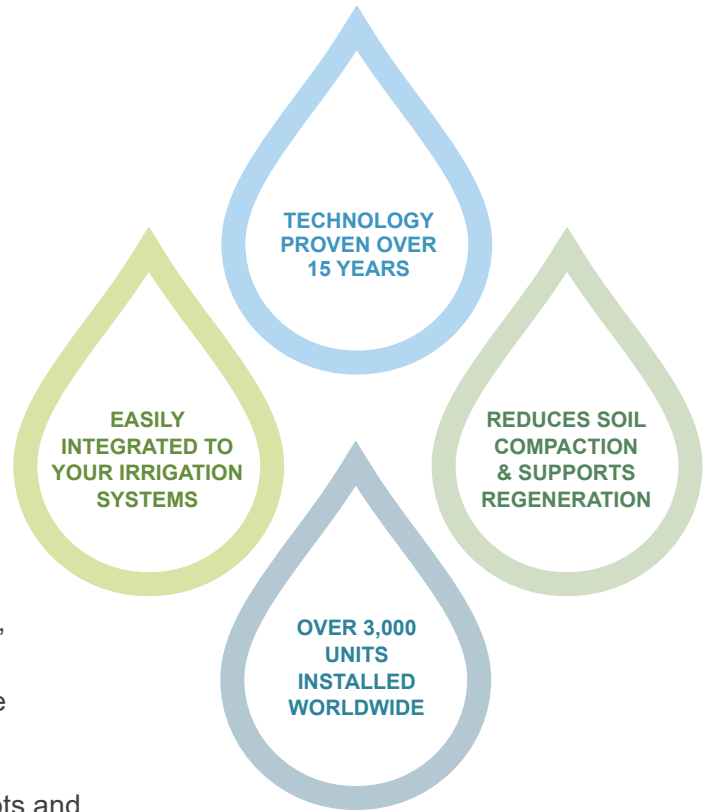
# Rainmaker

The Rainmaker - the ultimate solution for transforming your golf course's water treatment system. With the Rainmaker, you can improve water quality while reducing water usage, all while saving money in the process – **MAKING EVERY DROP COUNT**.

The Rainmaker uses cutting-edge technology to mimic rainwater, buffer pH, and support soil regeneration. Plus, it may reduce water and fertilizer usage by up to 30%, making it an eco-friendly choice that will help you reduce your carbon footprint.

Rainmaker water treatment lets grasses grow longer roots and more hair roots, resulting in healthier more resilient turf. Tee to green, your golf course will look and feel more playable.

***Upgrade to the Rainmaker and see the difference it can make for your golf course today.***



## Optimize water quality

Make your **water** work for you!

## Clean irrigation systems

Make your **system** work for you!

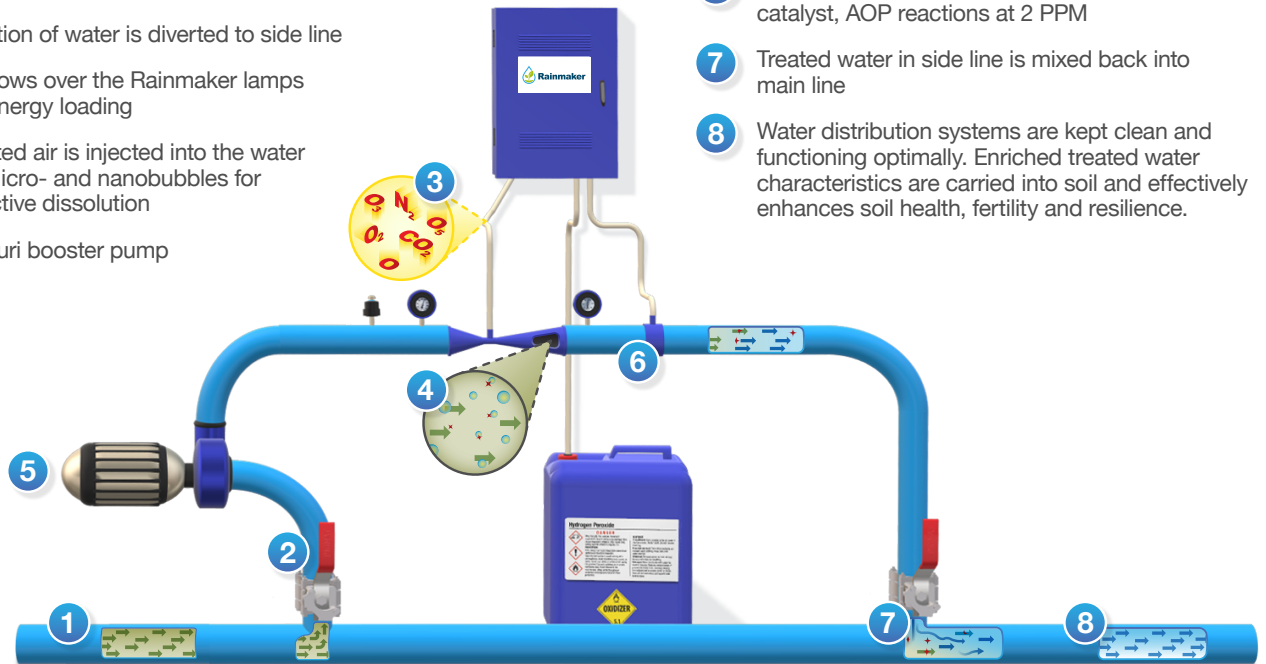
## Reduce soil compaction

Make your **soil** work for you!

# Rainmaker AOP

- 1 Untreated water flows in main line
- 2 Fraction of water is diverted to side line
- 3 Air flows over the Rainmaker lamps for energy loading
- 4 Treated air is injected into the water as micro- and nanobubbles for effective dissolution
- 5 Venturi booster pump

- 6 Hydrogen Peroxide is dosed into side line as a catalyst, AOP reactions at 2 PPM
- 7 Treated water in side line is mixed back into main line
- 8 Water distribution systems are kept clean and functioning optimally. Enriched treated water characteristics are carried into soil and effectively enhances soil health, fertility and resilience.



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## Rainmaker AOP Basic Scientific Explanation

### TERMINOLOGY

#### Advanced Oxidation Process (AOP)

Water treatment process that oxidizes biological, organic and inorganic impurities with highly reactive radical species that are generated during treatment.

#### Highly Reactive Radical Species (HO·, hydroxyl)

These are highly reactive species due to their unstable unpaired electron. Hydroxyl reacts rapidly and non-selective and is thus highly efficient at claiming electrons from biological, organic and other chemical pollutants or impurities in water and breaking these down.

#### Rainmaker Advanced Oxidation Process (Rainmaker-AOP)

Radical species are created throughout the treatment process in flowing, pressurized water through the reaction of nano- & micro-, photon energy loaded, oxygen bubbles with hydrogen peroxide (used as catalyst for radical generation).

#### Photon Energy

Photon energy from a highly specific frequency energy source is transmitted and loaded onto oxygen molecules with which it has a stable resonance. Oxygen acts as batteries and distributes the stable photon energy in micro- and nanobubbles throughout the treated water to achieve maximum availability for Rainmaker-AOP reactions.



# Clean irrigation systems

## Make your system work for you!

The source & quality of irrigation water determine the amount of physical, biological & chemical sediment or scale deposited and encrusted in your filters & irrigation system, and the cleaning & their management requirements.

These deposits are formed by various combinations of silts, clays & organic matter (physical sources); bacteria & algae (biological sources); salts & minerals (chemical sources). They create a lining in the irrigation pipes & can cause partial or complete plugging of the emitters.

The Rainmaker eradicates these deposits, with the following results:

- + Uniform water & fertilizer delivery
- + Less flushing & backwashing required
- + Cost savings in labour & maintenance
- + Automatically & continuously cleaned system
- + Increased lifespan & less replacement expenses
- + Lower electricity costs

The Rainmaker-AOP works in the water delivered by your irrigation system & acts directly on the biological & chemical deposits. This completely breaks them down & inhibits any further deposit formation, keeping the irrigation system perpetually clean, in an environmentally friendly manner.



# Reduce soil compaction

## Make your soil work for you!

Excess salts in your irrigation water cause soil compaction & soil fertility imbalances. It is very difficult to address these problems with standard agricultural inputs. If you do not treat your irrigation water, you are fighting a losing battle.

The myriad of natural chemical reactions induced by the Rainmaker-AOP in the irrigation water will percolate into the soil solution & soil. Clay swelling is reduced by calcium displacement of sodium on clay particles; and pore size between soil particles increases & soil aeration is improved. Instantaneously, soil biology is kickstarted, along with the natural processes that promote soil & turf quality.

ACTIVATE...

- + Deeper & more prolific feeder root growth
- + Rapid water infiltration & water use efficiency
- + Increased mineral availability & improved base saturation ratios
- + Renewed soil health & greater water holding capacity
- + Faster recovery time of damaged turf



Making every drop count

No limit to the volume of water that can be treated

Easily integrated to your irrigation systems

Healthier water for healthier soil and turf

Life expectancy of more than 10 years

Low monthly operating costs



**INQUIRIES**

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