

# The Air In Turf Aeration

**AIR2G2**  
BY FOLEY COMPANY



# The NextGen of Turf Aeration

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The Air2G2 aeration machine boosts turf health by injecting pressurized air into the soil, encouraging healthier denser root growth while improving water infiltration. It effectively relieves soil compaction, enhances soil structure, and promotes root development, all with minimal disruption and little to no cleanup or downtime.



**PROMOTES HEALTHIER  
DENSER ROOT GROWTH**



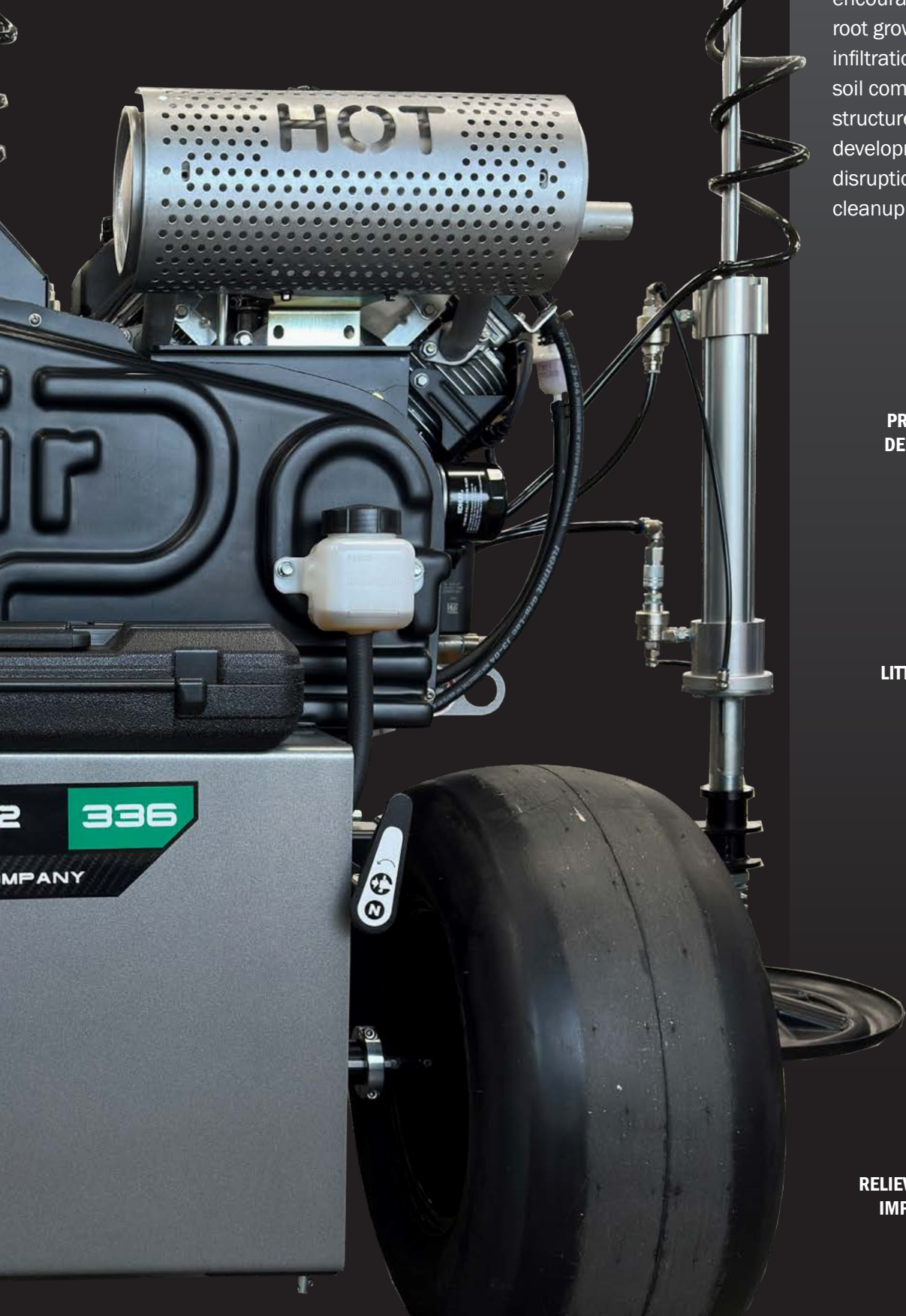
**LITTLE TO NO DOWNTIME  
OR CLEAN UP**



**IMPROVE WATER  
INFILTRATION**



**RELIEVE TURF COMPACTION &  
IMPROVE PERMEABILITY**



# AIR2G2-336

## PRODUCT INFO

LENGTH	88" (224cm)
WIDTH	52" (132cm) Folded 88" (224cm) Extended
HEIGHT	41" (105cm) Without Probes 58" (148cm) With Probes
ENGINE	19hp Kohler® Command Pro
AIR COMPRESSOR	2Stage Ingersoll Rand®
AIR COMPRESSOR CAPACITY	24 CFM @ 175psi
TIRES	Smooth Turf Friendly
PROBES	3
PROBE LENGTH(S)	8" (20cm) & 12" (30cm)
DRIVE	Hydrostatic
BATTERY	12 VOLT, 350 CCA
FUEL CAPACITY	6 Gallon ( 3.8 Liter)

## OPTIONAL EQUIPMENT

Air2HP - Handheld Probe
Air2Go Transport Trailer

## Reduce Soil Compaction And Promote Healthier Root Growth Through Pressurized Air Injection.



HSBC GOLF  
Business Forum  
HSBC  
INNOVATION AWARD

The award winning AIR2G2 operates on a unique principle of using high-pressure air to fracture compacted soil layers beneath the turf without causing surface disruption.



### Key Features

#### PROBE INJECTORS:

Equipped with 3-probe injectors that are inserted into the ground delivering bursts of pressurized air into the soil, creating fractures and channels.

#### AERATION DEPTH AND SPACING:

Operators can adjust the depth and spacing of the aeration times based on the specific needs of the turf and soil conditions. This customization allows for targeted aeration at varying depths.

#### MINIMAL SURFACE DISTURBANCE:

Unlike traditional core aeration methods that remove soil plugs from the surface, the AIR2G2 minimizes surface disruption. This can lead to quicker turf recovery and reduced downtime for the playing surface.

#### AIR COMPRESSOR:

The air injection process relies on a high-capacity air compressor that generates the necessary pressure to inject air into the soil.

#### NON-INVASIVE:

AIR2G2's technology aims to provide aeration benefits without causing significant disruption to the turf surface. This is particularly important for maintaining high-quality playing surfaces on golf courses and sports fields.

#### SOIL HEALTH BENEFITS:

By relieving soil compaction and improving soil aeration, the AIR2G2 promotes better water infiltration, nutrient absorption, and root development. This can lead to healthier turf grass and improved playing conditions.



## Continuous Innovation

Through research, development, testing, and iteration, Air2G2 continues to refine its core offerings and sets a new standard for turf aeration by incorporating cutting-edge technologies, and adapting to changing customer needs. This proactive approach ensures that Air2G2 will deliver the highest level of results, all without disrupting play.



**Redesigned Control Dashboard**



**Cylinder Air Hose Quick Attachment**



**Spring Fold Outrigger Arms**



**Larger Accessible Electrical Box**



**Robust Easy To Remove Hood**



**Beam And Outrigger  
Quick Change Cylinders**

# THE RESULTS ARE IN

Experts recommend Air2G2 for enhancing root biomass, maintaining turfgrass color and Normalized Difference Vegetation Index (NDVI), and improving turf surface hardness and water infiltration rates without causing root shear.



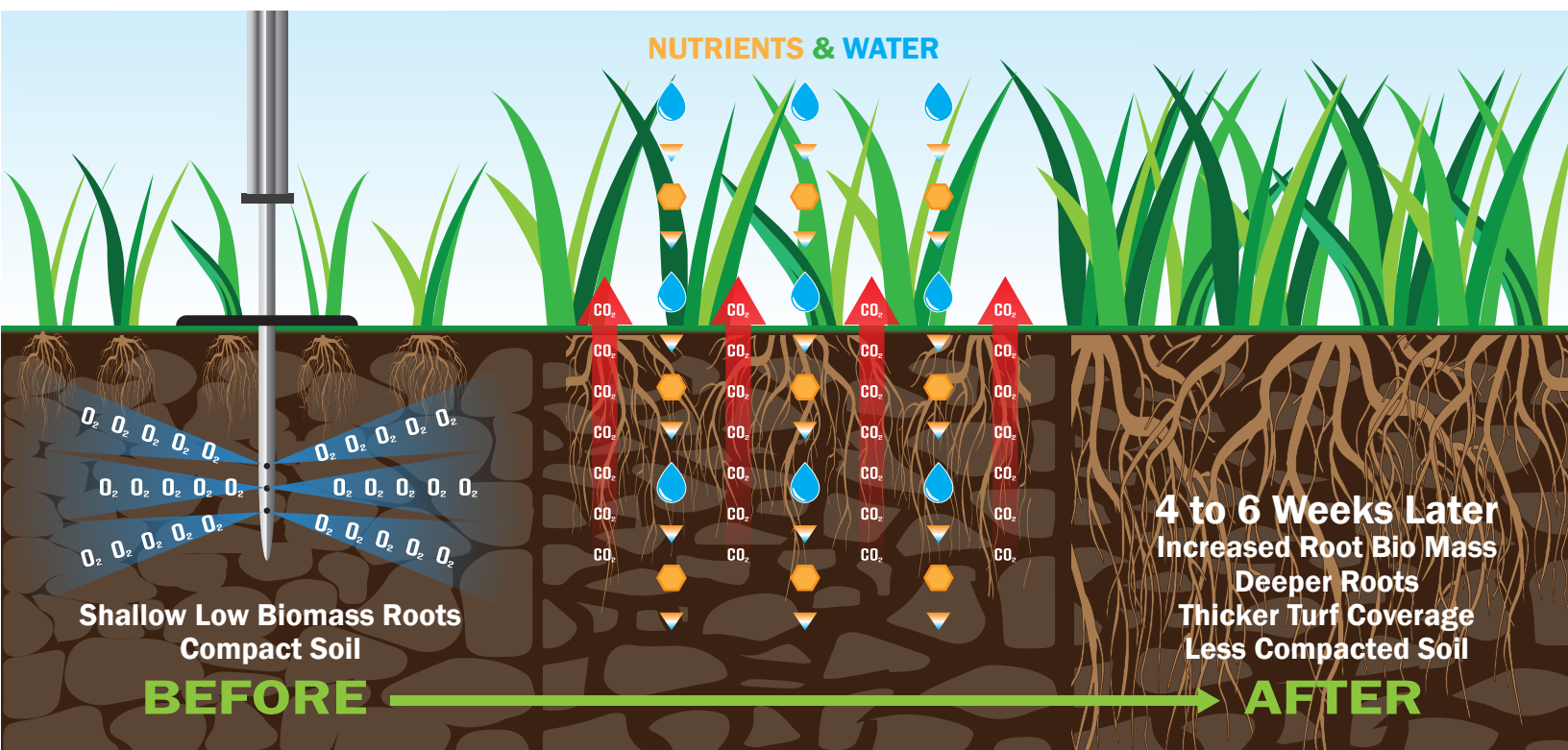
## Optimize Turf Health Management With AIR2G2

The Air2G2 demonstrates remarkable benefits in reducing surface hardness and promoting water infiltration into the subsoil, particularly during crucial stages throughout the growing season.

Through extensive research, the Air2G2 has been shown to significantly improve root biomass when compared to solid tine aeration, without causing root shear. The long-term benefits are evident in the greater root bio-mass and length observed in treated plots compared to untreated check plots.

The Air2G2 maintained turfgrass color and NDVI levels consistently throughout the study, unlike solid tine aeration, which led to notable declines in both parameters. This impact remained for over a week before returning to levels similar to the untreated check plot.

For areas with moderate traffic and wear, a monthly application of the Air2G2 is recommended. However, for systems facing heavy use, more frequent treatments can be beneficial.





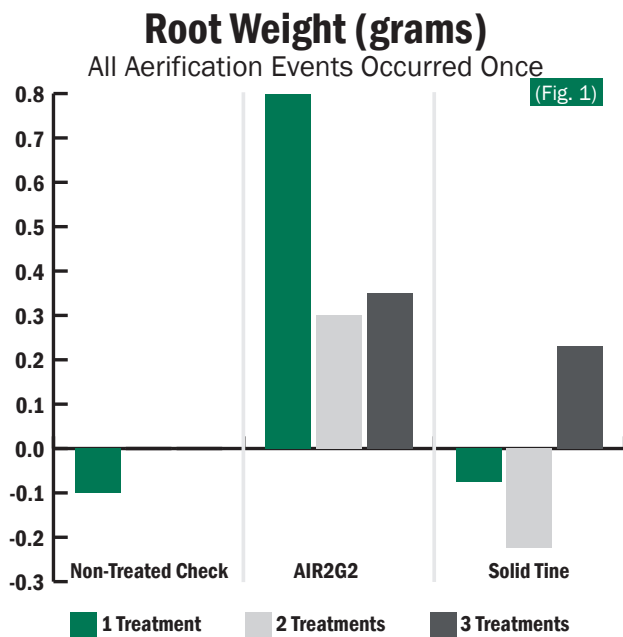
## Influences & Improves Rooting

Air2G2 treatments have proven to be highly effective in enhancing root biomass growth within just 28 days.



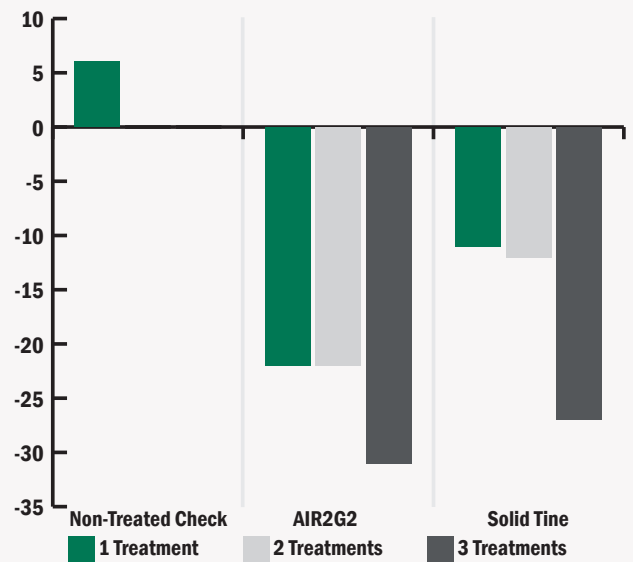
## Improves Water Infiltration & Drainage

Air2G2 treatments showcased remarkable efficiency in water infiltration rates compared to traditional solid tine aeration methods.



This stands in stark contrast to the decline in root mass seen in the untreated check plots. Out of the three solid tine treatments evaluated, two led to a decrease in root biomass. These findings underscore the positive impact of the Air2G2 in promoting healthy root development and overall plant vitality.(Fig. 1 & 2)

## Water Infiltration (s) 56 DAIT



Change in water infiltration rates in response to treatments 56 DAIT.

Whether applied once or twice, both the Air2G2 and solid tine aeration techniques outperformed the untreated control group in terms of water infiltration rates at 56 DAIT. This underscores the enduring impact of the Air2G2 treatment approach on enhancing water infiltration, proving its effectiveness months after initial application.



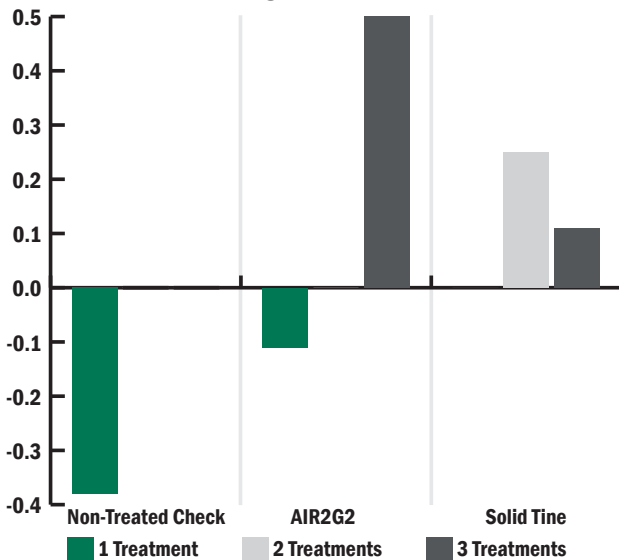
Days After Initial Treatment (DAIT)



## Improve Turfgrass Health & Aesthetic Quality

Additionally, the data revealed that the overall health and vigor of the turfgrass significantly improved with the Air2G2 aeration treatments.

### Turfgrass Color 84 DAIT



Change in turfgrass color in response to treatments 84 DAIT.

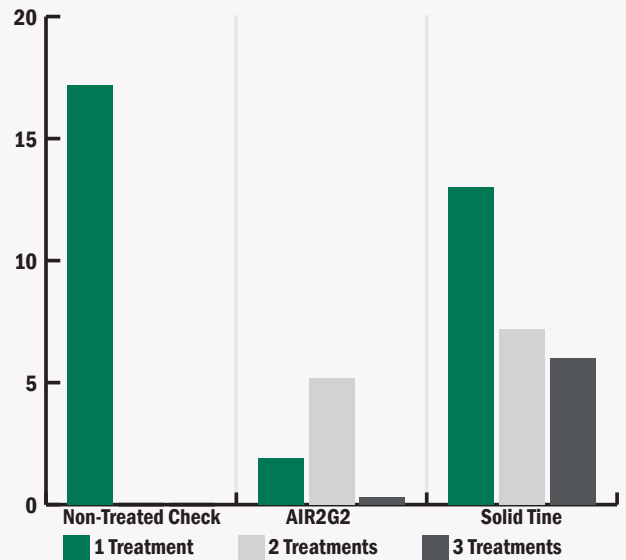
This was evident in the enhanced turfgrass color and increased Normalized Difference Vegetation Index (NDVI) readings, showcasing the positive impact of increased oxygen levels on plant growth and resilience.

These results highlight the importance of proper aeration techniques in promoting a healthy and thriving turfgrass environment.

## Relieve Surface Hardness

The data indicates that the positive impact of Air2G2 on surface hardness remains prominent even after a substantial period of 84 days, showcasing the sustained benefits of this innovative aeration method.

### Surface Hardness (Gmax) 84 DAIT



Change in surface hardness in response to treatments 84 DAIT.

## READ THE FULL REPORT

Scan The Qr Code To Read The Full University Of Georgia Air2G2 Research Report.





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