

AIR: AMMONIUM INVERSION REACTOR



AIR IS SUSTAINABLE ORGANIC AGRICULTURE

Pure Green's AIR is a patented technology for oxidising ammonium to organic fertilizers containing high concentrations of nitrate nitrogen (NO_3^-). AIR processing facilities receive nitrogen compounds produced locally using ART: Ammonium Recovery Technology, and AIR reactors process the nitrogen in a fully organic way, yielding compounds that are beneficial and highly active nitrogen source for plants. With AIR, the nitrate (NO_3^-) is directly plant available, have immediate effect, leave zero residue, and are fully absorbable by plants.

PURE GREEN MITIGATES CAFOS, ELIMINATES THE YIELD GAP AND INCREASES PROFITABILITY

CERTIFIED ORGANIC

Products produced with AIR technology are made from fully sustainable organic sources and eligible for certification under EU organic legislation. The ART and AIR processes are not only sustainable and organic, but nitrogen which is normally emitted into the atmosphere, is instead returned directly into the organic farming cycle.



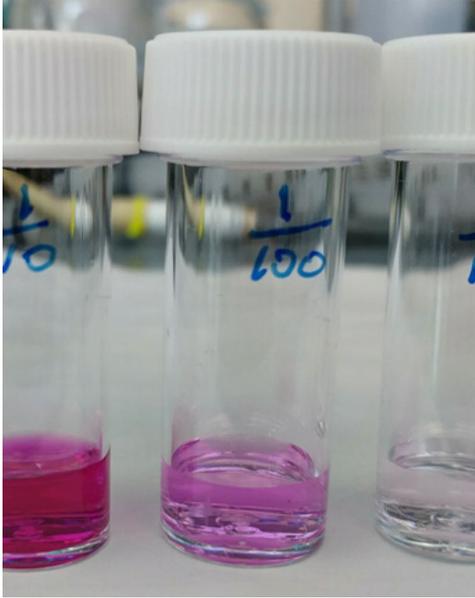
UNSURPASSED BENEFITS

- Captures nitrogen from farming emissions
- Reduces odor emissions
- Fully sustainable and organic
- Commercial alternative for chemical capture of Nitrogen
- ART and AIR do not use any harmful chemicals
- Creates revenue for farmers
- Stimulates the organic sustainable farming industry
- Mitigates CO_2 - from the production of mineral fertilizers
- Results in valuable pure plant available nitrate nitrogen (NO_3^-)





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100% CO₂ MITIGATION

The nitrogen used in AIR is both fully sustainable and from an organic source as it is captured from farming operations including composting, as well as manure/litter processing such as drying. The combination of ART and AIR mitigates 100% CO₂- from the chemical production of mineral fertilizers.

SUSTAINABLE TECHNOLOGY

ART and AIR are sustainable technologies that can be used on any location that has present CAFOs (Concentrated Animal Farming Operations). CAFOs emit valuable nitrogen in the form of ammonia (NH₃+). This form of nitrogen is a highly valuable natural resource that can be turned into desirable commercially attractive nitrogen products.



RESPONSIBLE FARMING FOR GENERATIONS

Using/implementing ART and AIR technology makes commercial and environmental sense. Sustainable farming is the future. Recovering a valuable resource in a financially attractive manner, while at the same time reducing the environmental footprint, supports the responsible farming model of the future.

LEADING PERFORMANCE

Pure Green is the leading technology provider for capture of organic nitrogen and the processing of nitrogen compounds. Products resulting from the AIR process are unique, both in environmental organic process as well as raw material origin. AIR delivers 100% sustainable products capable of outperforming any conventional mineral fertilizer alternative on any agricultural performance indicator. ART and AIR are truly the future of farming.

TECHNICAL IMPLEMENTATION AND LOGISTICS

ART and AIR from Pure Green are complementary processes. ART captures nitrogen from farming operations and AIR turns nitrogen compounds into organic fertilizers containing nitrate. AIR technology is implemented and operated in certified facilities. AIR offer farmers and companies that capture nitrogen using ART technology, a guaranteed revenue stream for captured nitrogen as well as preferred access to AIR produced products.



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