



Toxin-Pest Control Technology for Stored Grain

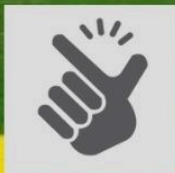
Free of Chemical
Residues



Multi Grain Use



Simple operation



Reliable grain protection against DON and Pest damages – today and tomorrow

In our changing times, the air itself can be a carrier of dangerous health pathogens. The role of avoiding major revenue losses and reduce transferred health hazards from grains is becoming more important for families and companies in our society.

Technological advancements have helped to substantially reduce these contaminants to become more efficient as new technology eras are evolving. The changing environment presents new challenges to our health, which prompts us to search for new solutions as we are often confronted with financial uncertainties.



Comprehensive preventive solution for stored grain

The ecosystems are causing a variety of new health hazards. Consumers and agro businesses are both in need healthy and risk free grain. They are looking for a full and trustworthy all around solution.

The goal of Marvelzap`s Grain Robot is to provide safer product with easy application and chemical residue free technology, while also aiming to implant this positive experience in farmers.



Future Driven Technology

Grain Robot is packed with functions that enable you to plan and perform the continuous air decontamination service, from the moment that the grain is in storage and the GR is connected and turned on. The use of GR system is approved by FDA, USDA CFR 173.368 and tested according to ISO/IEC 17025 standards and functions like OSHA safety compliance,

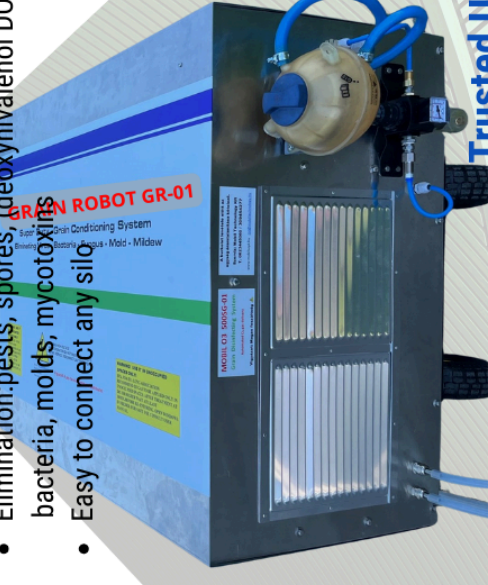
Start using it to avoid financial losses and expenses related to preventing grain damage.
Sell healthy grain at full market price.
Quickly, accurately and confidently

Benefits for the grain farm

- **Get the task done**
- Use it for any type of storage grain*
- Most efficient way for healthy grain
- Mistake free operation
- Automated operation
- *except rice
- **Increase your grain revenues**
- No consumables
- Save fumigation expenses
- Have always Class 1 grains to sell
- Chemical residue free grains

New approved Cold Plasma technology

- FDA, USDA CFR 173.368 (EU) 528/2012 (BPR) approval
- Chemical residue free method
- Elimination: pests, spores, (deoxynivalenol DON) bacteria, molds, mycotoxins
- Easy to connect any silo



Trusted USA Quality

From the first idea, through development and to the final product, all our solutions evolved agricultural engineers from the USA and EU grain industry. This solution is designed for commercial applications who are looking for a professional solution that addresses store grain quality and health hazards in a quick, easy, and reliable manner. Grain Robot is a result of over 15 years of agricultural engineering experience, real service knowledge and a drive to always improve the quality of our solutions.



Benefits and advancements of the GR system over traditional chemical grain treatment technologies:



ROI within 1 year



Easy to use



Chemical residue free



Cold Plasma Technology



Elimination of pests



Multi grain use



USA-EU approved technology



Comprehensive toxin control

- Cold Plasma produced pure O3 gas : designed for environmentally friendly and sustainable grain treatment
- Treatments: without chemical residues
- Health damage: completely harmless
- Flexibility: compact design due to small ecological footprint
- Instant operation: immediate full output power, automatic PPM control and switching options
- Durability: excellent 20000 hours lifetime and increased robustness against mechanical impacts
- Efficiency: controlled oxidant gas output to ensure optimal pathogen elimination process
- Airborne contaminants: more effective, minimizes airborne (virus) particles, residue free
- Efficacy angle: 360°
- Store your grain in hazard eliminated spaces
- Safe long term storing is accomotated with GR system
- Laboratory certified efficacy in DON removal capability
- Moderate power consumption
- Low maintenance operation

Technical specifications:

Movable cart with IP56, NEMA 4x, rust free enclosure

Voltage: 400V 3 phase

Consumption: 14-23 Amp (various models)

Cold Plasma O3 gas concentration: 140-170PPM

Compressor: Oil less operation

O2 gas: built in PSA system

Operation: Manual, automatic with RH and Temp. monitoring

Weight: 45-67Kg, 99lb-148lb (various models)

Size: Height: 75cm Width: 52cm Length: 103 cm (30"x20.5"x40.5")



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