

GRAINLIFE: A THERMAL CHAMBER TO PREVENT PEST INFESTATION IN FOOD GRAINS

Sunil Gupta

INNOVATION

“GrainLife” is a thermal chamber that is used to treat food-grains of almost all types and varieties, to substantially reduce/check the risk of pest infestations. The treated food-grains can be stored thereafter in any common storage.

It is an environment friendly, chemical free preservation technique for food grains which will help save large volumes of food grains that presently perish.

SUNIL GUPTA



Sunil Gupta has many years of experience in production, quality assurance and supply chains in organic agriculture. He is a certified organic farmer for the last 10 years and has worked as consultant and implementer on various government and

non-government organic farming projects. He has promoted organic farming and farm hygiene among hundreds of farmers through a self founded farmers association, Dharani Suphalam.

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DESCRIPTION

Safe storage and shelf-life of food-grains is a major issue in organic production. Pest attack is a major source of loss of food grains. The use of hazardous chemicals in food-grain storage is harmful to health, and is not permitted in organic agriculture.

The GrainLife thermal chamber technology is suitable for use in seed production, supply chain, retail and wholesale operations, as well as in households. The treatment involves subjecting the grains to a set of temperature and air pressure, and does not use any chemicals. It has preventive as well as curative effects.

RELEVANCE

The technology is a sustainable alternative to the conventional chemical fumigation methods, making it suitable for the integration into organic operations and supply chains.



The GrainLife team at a trade fair

It is a low cost technology, is easy to use, and is portable. The capacity of the unit is customizable, ranging from kitchen to bulk storages with suitable adaptations. It can be used for all types of food grains without any adaptation to the unit.



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