

VIBRO-THERMAL DISINFESTOR

Working Principle

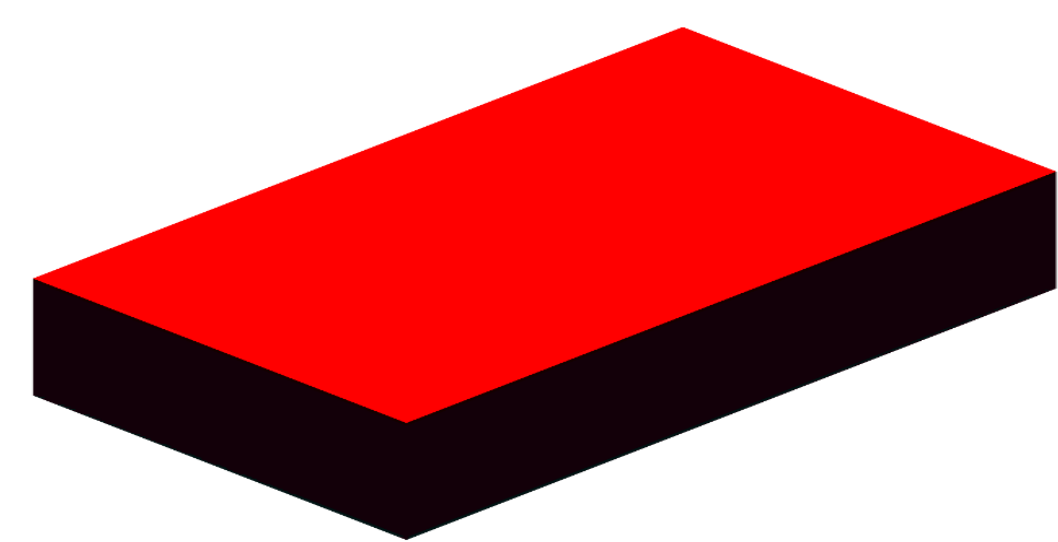
Based on killing of stored grain insects by heat

Vibrations increase effectiveness

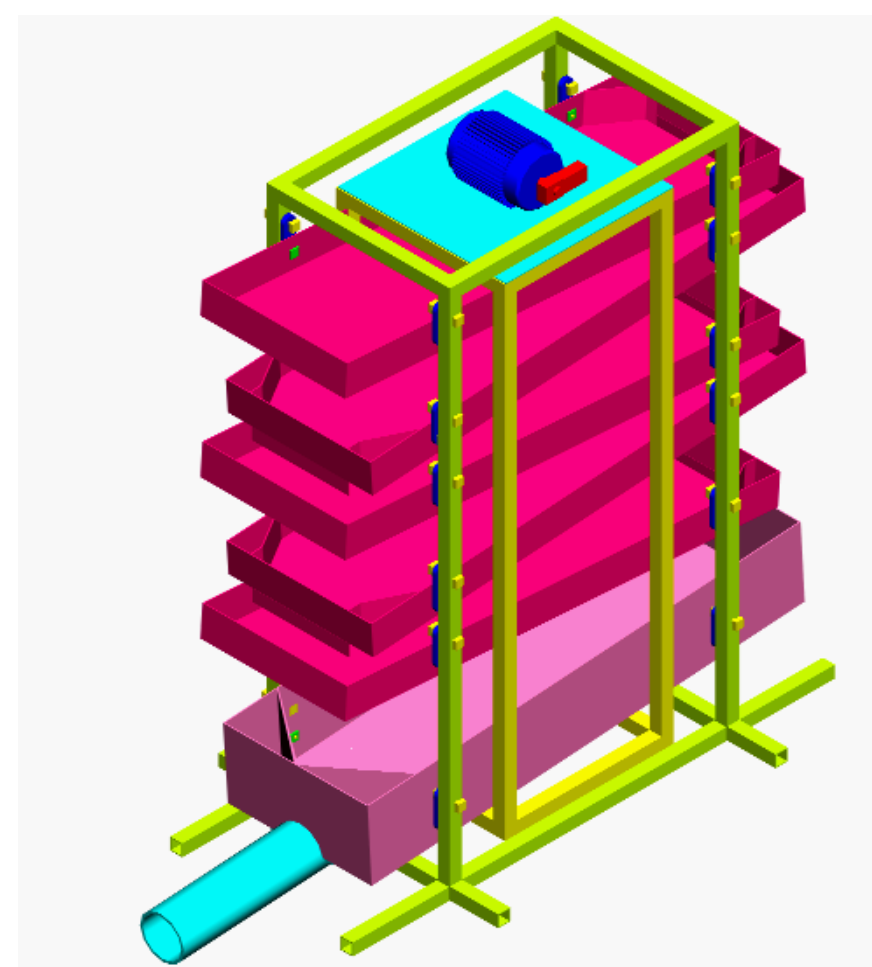
- ❖ Capacity – 40 kg/h
- ❖ Power consumption 1 kwh

Advantages

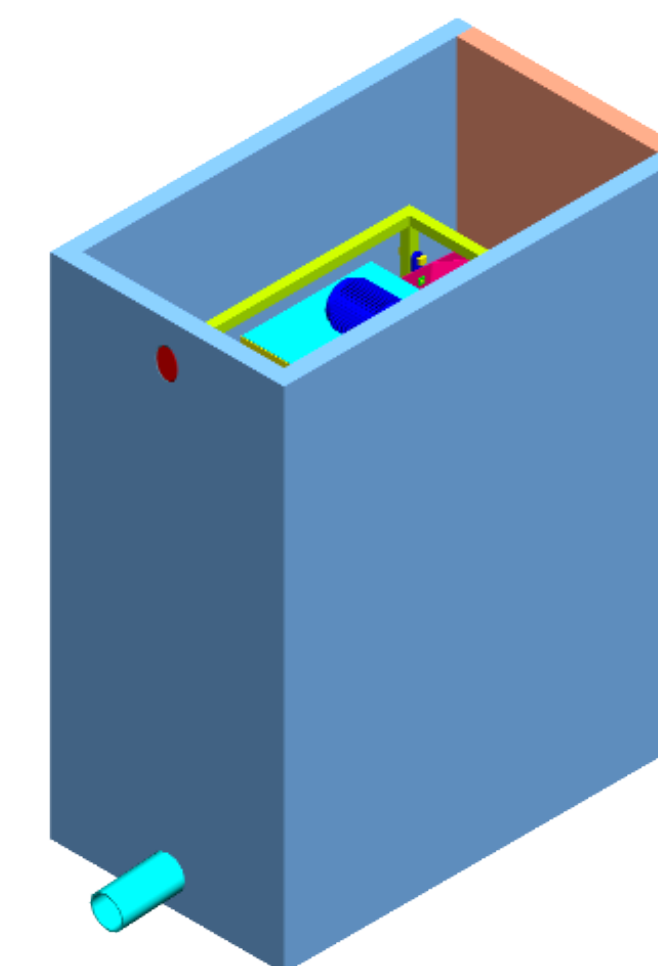
- ❖ Modular in nature
- ❖ Easy to fabricate
- ❖ Easy to operate
- ❖ Heat transfer to grains is quick, uniform & at an affordable price
- ❖ Conceptual in nature and can be scaled up.



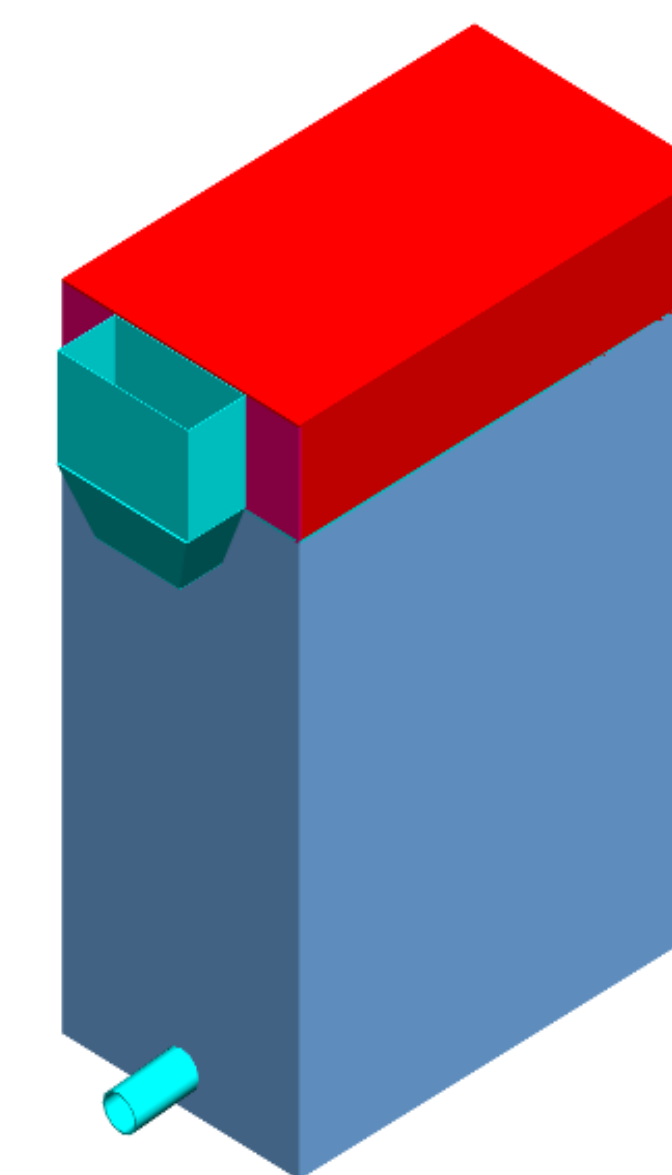
Hot air Circulating System



Conveyor System



Insulated Box



VTD

Unique Features

- ❖ Uniform heating: each grain vibrates & comes in contact with hot air being circulated inside VTD
- ❖ Intra-grain air which acts as a bad conductor of heat equilibrates with hot air

Operation

- ❖ Switch on the VTD to get the temperature of the air inside to 65°C
- ❖ Load the grains into the hopper
- ❖ Collect the grains from the outlet
- ❖ Pack in insect impermeable package or store in air tight silos



Vibro-Thermal Disinfestator

Assembly of VTD

❖ For technology transfer details, please contact headttcd@barc.gov.in



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