



**TECHMARK, INC.**  
*technology from the ground up*

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## Techmark's NEW Bunker Exhaust System and Ozone Odor Reduction



Techmark exclusively introduces the first commercially available Bunker Exhaust System with Ozone Odor Reduction for the Mushroom Industry. This innovative technology is derived by combining functionality of roofed bunkers with the benefits of proven ozone injection.

- Ozone is proven to reduce the odor units caused by sulfur compounds.
  - Ozone is a powerful oxidizer that quickly converts organics into inert substances. Odors in the air are simply organic compounds that are “tasted” by the nose. Break those compounds down into something else and the odors are reduced and in some cases eliminated.
- Exhaust system improves visibility during filling and emptying.
  - The exhaust ventilation system removes the air from inside the bunker and out the exhaust vent. This migration of air reduces the fog formed by the temperature differential between the air and the compost.
  - In cold weather, the visibility can be increase dramatically which reduces the potential for injury to workers as well as to equipment.
- Very low upfront and maintenance costs compared to bio-filters.
  - Compared to bio-filters, ozone injection systems are substantially less expensive, not only in up-front costs but in operational costs as well. Very little power is required to operate the system.
  - Operation of system will last for years with minimal maintenance.
  - Bio-filters are not as effective as ozone due to the high sulfur compounds emitted which in turn limit the ability of the bio-filter to function.
- Operates in conjunction with Techmark's bunker control systems.
  - The staging of the ozone injection systems is controlled by the Techmark bunker controller. This interlocking system allows for seamless operation for maximum efficiency and effectiveness.
- Compact size with out of the way location.
  - Techmark's Bunker Exhaust System and Ozone Injection System is placed on top of the bunker roof. This out of the way location allows easy access to the system and saves considerable space compared to a bio-filter.
- Mushroom farm tested for more than 8 months.