

Insect Solutions: Controlled Atmosphere Technology

Safe and effective insect control solution

- Rentokil's Controlled Atmosphere Technology (CAT) uses inert gases to safely and effectively eliminate insect infestations in delicate items
- Two treatment options are available: anoxic treatments, using nitrogen to reduce the oxygen level to below 0.2% or carbon dioxide at concentrations above 60%
- The use of inert gases is well suited to the treatment of delicate objects such as museum artefacts, paintings and textiles, which cannot be treated by conventional methods
- CAT leaves no residual traces of pesticide within the objects after treatment and reduces the risk of damage compared to alternative treatments, such as heating or freezing



CAT - How it works

- The items to be treated are placed in a made to measure bubble by the client's staff
- The bubble is manufactured from a gas impermeable aluminium polymer laminate and is hermetically sealed to make a gas-tight enclosure
- The air within the bubble is gradually replaced with the inert gas until the target concentration is achieved. With anoxic treatments, the nitrogen used can be humidified to prevent damage to humidity sensitive items
- Temperature and gas concentrations inside the bubble are carefully measured over the course of the treatment to ensure complete mortality of the pest species

Benefits

- Cost effective solution to protect highly valuable or delicate objects
- Minimal disruption as a single treatment kills all lifecycle stages of insects, including egg, larva, pupa and adult
- Natural, effective treatment which allows objects to be handled immediately afterwards
- Mobile system that can be used within your premises, avoiding the risks of moving valuable and fragile items
- Protects your reputation. Pest problems are solved safely and effectively.