

Environmentally Responsible



Tree Island photo courtesy of Hazco Environmental Services

How is the KM-4 Environmentally Responsible?

- *Meets or exceeds environmental standards*
- *Safe to operate in residential areas*
- *Sealed material processor*

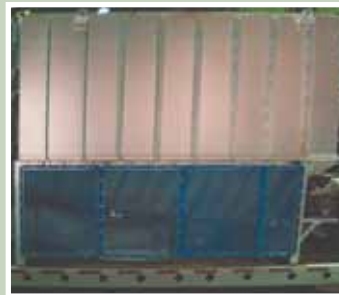
The KM-4 easily meets or exceeds environmental standards worldwide.

Because the soil processing components are so compact and efficient, 75% of the space on the trailer can be devoted to managing the air emissions. And, since the air control components are completely sealed from outside air, the system easily maintains particulates, total petroleum hydrocarbons, and carbon dioxide at completely safe levels.

In fact, the KM-4 is so clean that air emissions from a day's operations are equivalent to a diesel-powered truck driving for 24 hours within city limits. Enviro-Klean takes pride in making certain the KM-4 does its part in keeping the environment safe.

Thermal Oxidizer

Hydrocarbons released in the material processor are converted to water vapor and carbon dioxide within the thermal oxidizer. The KM-4 provides a 2-second residence time for >99% hydrocarbon destruction.

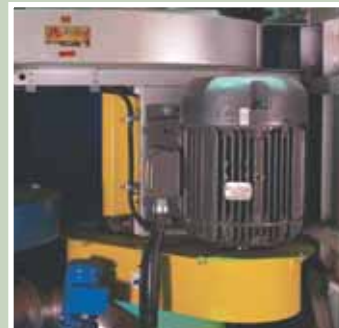


Baghouse

The KM-4 baghouse controls particulate emissions by extracting clean dust from the airstream and conveying it back to the pugmill for rehydration.

ID Fan

In order to manage the complex air flow through the various components of the KM-4, a powerful I.D. fan automatically senses the air pressures required for hydrocarbon destruction and for recycling clean air from the combustion system to the atmosphere.



Heat Exchanger

In some applications, it's important to instantly reduce the thermal oxidizer gas output to below 200C (400F). The KM-4 is fitted with a powerful, air-tight heat exchanger.



Environmental Benefits



Permanent Solution to Restore Brownfields

A thermal desorber like the KM-4 provides landowners and end users with a permanent solution to contaminated soils.

There are millions of contaminated sites world-wide and each of them poses serious potential risk to humans and wildlife. Hauling the contaminated material to a landfill can be a temporary solution and may shift the clean-up burden to future generations.

Thermal desorption, especially with portable equipment like the KM-4, can remediate the soil on the site and use the cleaned material as backfill.



Fast Solution for Landowners

From the time material enters the system until it's cleaned usually requires less than three minutes. The KM-4 can remediate 500 tonnes in a single day.

Accurate Results for Engineers

The operating stability of the KM-4, especially when fitted with a continuous emissions monitor, makes certain the system works within prescribed environmental limits.

Energy Conservation for Contractors

Thermal remediation contractors strive to minimize energy consumption. Not only does the KM-4 reduce total operating costs, but it reduces transport expense for fuel, thus helping them do their part to protect the environment.