



no pollution Industrial Systems Ltd.
heading silently towards zero emissions

Mobile Chamber for Analysis of Gas Emissions from Livestock

Gas emissions, especially Methane and CO₂, from intense livestock production are a major concern for Global Warming. It is believed that the current situation will only worsen in the future, as a richer world population will consume more meat and dairy products.

Research is undertaken across the world to reduce the impact of large scale meat and dairy production.

Research on the subject makes use of many methods.

The analysis method most widely recognised to give accurate and repeatable results involves housing animals individually inside a chamber with a closed circuit ventilation and a carefully monitored extraction.

This has only been possible with large investments in infrastructure, for the chambers and for the building and systems housing them.

Analysis in the field has been carried out with alternative methods, none of them being as accurate as housing the animals in chambers.



A specifically designed Mobile Chamber has been supplied to a primary research institute in Kenya. The key feature is the possibility to drive the chamber to different locations with a jeep, so that research can be carried out directly in the field, with more accurate replication of real conditions. The chamber has the same characteristics in construction and functionality as the fixed chambers, with the possibility to carefully control temperature, humidity, fresh air intake and exhaust rates. Experimental conditions and data are recorded and saved by the control system, to be downloaded and analysed when needed.

- **Stand-alone unit capable of operating from a small generator**
- **Robust trailer with large wheels to withstand even the harshest road conditions**
- **Fully automated control system with data capture and time stamping**
- **Flexible, modular and with possibility to lower the chamber to ground level**
- **Chamber fitted with internal stanchion, feed bin and water trough.**

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