

BIOGAS SAFETY HANDLING SYSTEM FLARES



WASTE MANAGEMENT RENEWABLE ENERGY

WASTE MANAGEMENT AND RENEWABLE ENERGY | BIOGAS

The Biogas Safety & Handling System is an integral part of the anaerobic digestion process, designed to ensure safe and efficient handling of biogas. This system is crucial in environments where biogas, a byproduct of organic waste decomposition, is produced and utilized.



HOW IT WORKS

The Biogas Safety & Handling System collects biogas produced in anaerobic digesters and transfers it safely for energy generation or disposal. Equipment is specifically designed for the unique characteristics of biogas, which typically contains methane, carbon dioxide, water, and trace amounts of contaminants that can be harmful to the system and require regular preventative maintenance.

TECHNICAL INFORMATION

- Enclosed Flares: Model 244E is used for disposing of excess digester gas in a safe and environmentally sound manner.
- Gas Composition Handling: Capable of managing biogas with 55-70% methane and 25-35% carbon dioxide composition, with concentrations of H₂S and saturated with water.
- Biogas Utilization: The system can be used for heating through boilers or electricity generation via engine generators.

APPLICATIONS AND MARKETS

- Municipal Wastewater Treatment: Assists in the management of biogas from municipal sewage treatment plants.
- Industrial Waste Management: Suitable for industries generating organic waste, such as food processing.
- Renewable Energy Production: Used in settings where biogas is converted to renewable energy.

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FEATURES & BENEFITS

- Adheres to NFPA 820 standards for fire protection in wastewater treatment and ANSI/CSA B149.6 standard for digester gas installations, ensuring a safe and efficient operational environment.
- Efficient Gas Handling: Enables the collection, conveyance, and utilization of biogas, maximizing the energy potential of waste.
- Environmental Compliance: Designed to meet strict environmental regulations, reducing the ecological footprint of waste management processes.

