Emission R_x Ltd.

‘Prescriptions for your site emission ailments’
Waste Gas Management

Waste gas management is a critical part of oil and gas exploration, development and processing. While gas conservation should be the primary objective, when it is not economic to do so it is typically dealt with in three ways:

**Venting**
- Regulatory limits
- Significant GHG emissions
- Environmental degradation
- Major health risks
- Safety concerns

**Flaring**
- Incomplete combustion
- Unburned hydrocarbons
- Difficult to burn rich gas
- Visible flame
- Black smoke and carbon

**Enclosed Combustion**
- Enclosed combustion chamber
- Measurable efficiency
- Effective combustion of rich gas
- No exposed flame
- Effective management of H₂S
Tank Vapour Management

Operators are increasingly seeking to ensure they earn acceptance from their host communities while leveraging technology that minimizes environmental impact.

Challenges associated with the effective management of tank vapours:
- low volume, low pressure, varying flow rates and high BTU
- difficult to effectively manage with traditional combustion devices
- typically vented or flared

A well designed enclosed combustor offers:
- immediate and continuous GHG reductions
- seamless integration into a producer’s operations
- uninterrupted operation
- costs that permit the continued production of hydrocarbon resources
- advantages over other traditional forms of waste gas management
ERx C Series Combustor Design

In response to producers requirement to effectively combust smaller volumes of vent gas, ERx developed the C Series combustor. Features include:

- Ease-of-use control system
- Integrated slug catcher
- Continuous pilot
- Concrete base for simple setup and portability
- CSA compliant
- Stack top temperature monitoring and ESD
- Light weight: simple installation
- No assist fuel gas required; possible to run pilot on waste gas
- Natural draft system: no fans or blowers
- No flame, smoke or odour
- Scalable design
- >99.99% combustion efficiency
- Close spacing 10m from process equipment
- Accept streams from 2 oz/in²
- Standard capacity: $0.17e^3m^3/d – 2.6 e^3m^3/d
- Low capital cost
The ERx team has combined 25+ years experience in the waste gas combustion field

- 250+ installations of waste gas combustion equipment
- two mechanical engineers on staff
- in house design, 3D modelling and engineered drawings
- consult closely with regulators
- work with a network of fabricators to manage shop loading
- centralized fabrication, coating, assembly and testing
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Safe, Cost Effective, Compliant Waste Gas Management