



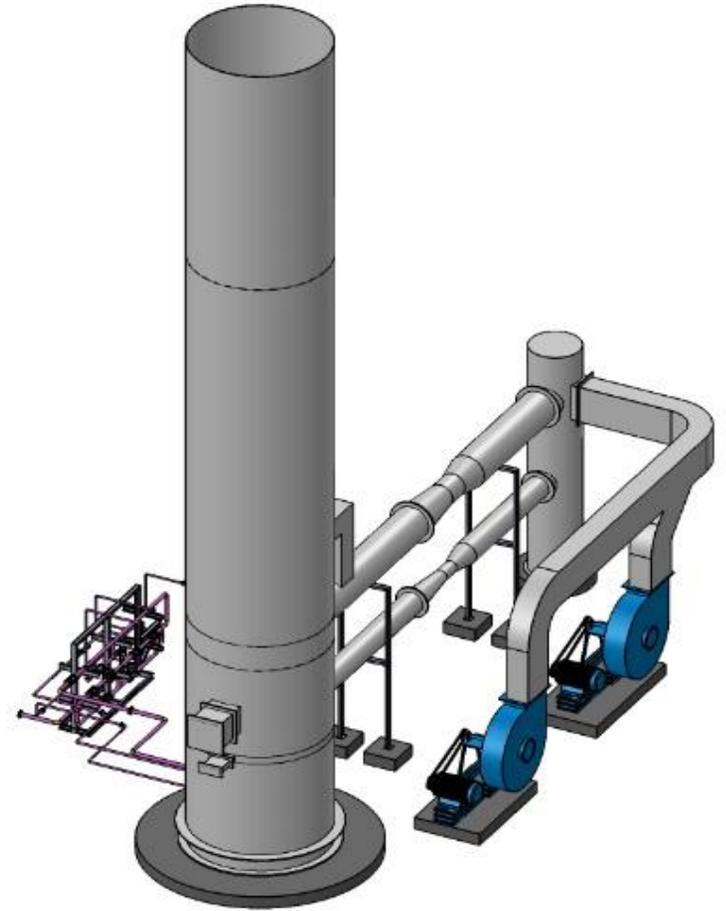
## Combustion Research Associates

### Thermal Oxidizer

A Thermal Incinerator, also known as a Vapor Combustor Unit (VCU) designed and manufactured by Combustion Research Associates acts as an emission and pollution control device to curb industrial pollution in the form of dangerous hydrocarbons such as BTEXs, Sulphur, Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs).

Our Thermal Oxidisers (Incinerators) are capable of achieving very high (over 99%) Hydrocarbon Destruction and Removal Efficiency (DRE). We also offer heat recovery (Optional) Regenerative Thermal Oxidizer (RTO) systems that offer high thermal efficiency, in turn helping achieve low operating costs, energy consumption with fast payback on investments.

Our system uses advance technologies for their active control system for effective and efficient functioning. Advantages such as burning at ground level and smokeless and invisible flame make these afterburners perfect for gases such as Natural Gas, LPG, Biogas, Landfill gas, Producer Gas, Petrochemical, Syn gas, CBM gas, vapors or any other combustible gases

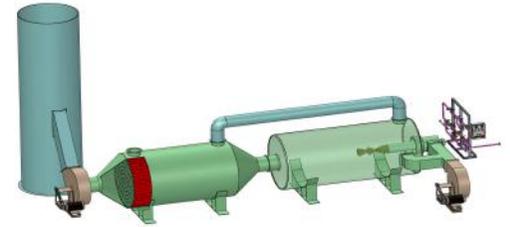


### Our Added Value

- + Customised and project specific solutions
- + CDM complaint modular systems
- + Easily containerised and transportable
- + Over 99% VOC destruction efficiency and elimination of odour concerns
- + Hidden Flame, low noise, fumes radiation to help meet strict environmental regulations
- + Flashback Resistant burners & auto ignition systems

## THERMAL OXIDIZERS

A TOX is required for thermal destruction of VOCs in waste gases. The TOX system employs a centralised management system that continually checks vapour/hydrocarbon percentage of incoming gases and maintains the furnace conditions to achieve high destruction



The CRA advantage		Applications
<b>Features</b>	Destruction Efficiency of more than 99% Available as Regenerative Thermal Oxidizers (RTO) Modular design allows for system flexibility and future expansion Regulatory compliance guaranteed	Petroleum refining Food processing Fiberglass & composite industries Landfill Sites Ethanol Industry Coal Mining Industry (VAM)
<b>Operation</b>	Our customised solutions are designed according to client & project requirements  Automated operation	Packaging & Printing Industry Chemical Industry Pharmaceutical Industry Sewage sludge treatment Plastic Industry
<b>Capacity</b>	50-50000 m <sup>3</sup> /hr. higher or lower capacity can be designed on request.	Electrical & Semiconductor Foundries, metallurgical & metal recycling industries Biogas Sites
<b>Materials</b>	Compatible material as per requirement. Special materials available on request.	
<b>Usual Wastes</b>		
Volatile Organic Compounds (VOCs)	Waste Oils	Benzene
Low BTU Gases	Halogenated Hydrocarbons	Butyl Chloride
		Trichloropropene
		Maleic Anhydride
		Chloridated Hydrocarbons
		Toluene

[www.combustionindia.com](http://www.combustionindia.com)

### Enquire

Please include the following specifications in your inquiry:

Project Details  
Gas Composition  
Flow rate  
Temperature  
Pressure  
Required Emission Regulation  
Regeneration or Recuperation of waste heat required?

### Reach out to us

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