

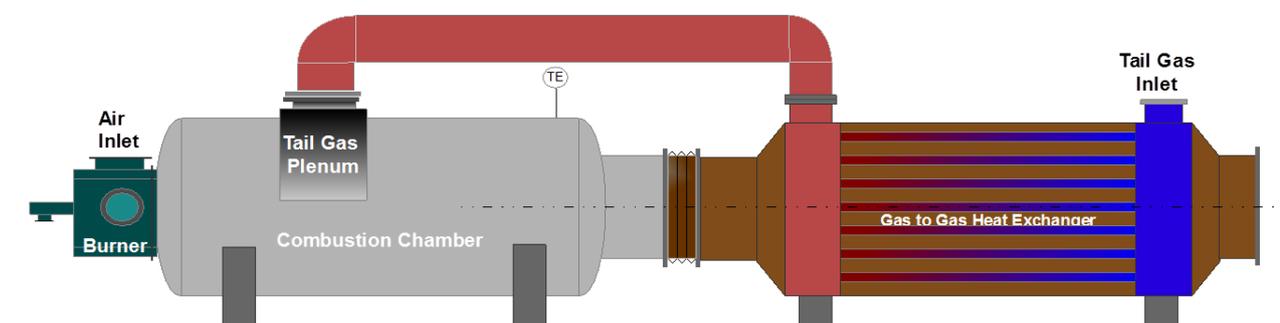
GreenBurn[®] Incinecon

Incinerators or thermal oxidisers are used to burn hazardous, toxic or odorous waste streams primarily for waste destruction or treatment purposes; however, some energy or material recovery is possible, for example in recovery of catalyst, raw materials or acids. When performed properly, incineration destroys the toxic organic constituents in hazardous waste and reduces the volume of the waste.

Incineration systems are designed for liquid and gaseous waste streams arising in the refining, petrochemical, gas processing, pharmaceutical, metallurgical and other process industries. All systems are custom designed to meet local and national emission standards by experienced engineers using tried and tested burner technology.

Greens Combustion specialises in incineration systems with waste heat recovery whether it be production of steam for export or use in an integrated process, pre-heating of waste streams or combustion air in the interests of fuel economy or heating of water, hot oil or air for other processes.

Thermal oxidiser systems are considered as 'end-of-pipe' technology but nevertheless careful consideration has to be given to minimise fuel consumption over the operating life, ease of operation and reliability. Very often incineration systems are expected to work for long periods as an essential part of a continuous production process and when unexpectedly out of service may result in unacceptable emissions, increased flaring or result in an undesirable plant shutdown. Systems can include downstream gas cleaning including wet and dry scrubbers, packed beds, bag house and electrostatic precipitators as well as SCR and SNCR for NO_x reduction where waste streams contain nitrogenous wastes. For acid gases, HCl concentration and recovery systems can be incorporated while salts incinerators may incorporate catalyst recovery.



URS is a member of Registrar of Standards (Holdings) Ltd.



GreenBurn® Incinecon

Types of Incinerators

- Tail Gas Incinerators
- Liquid Waste Incineration
- Catalytic Incineration
- Down-fired Salts Incinerator
- Reduction/Oxidation Systems for Nitrogenous Wastes

Thermal Oxidisers for:

- SRU Plant Tail Gas
- Process Off Gases
- Fumes
- Tank Vents
- Aqueous Wastes
- Hydrocarbons
- High CV Liquids

Heat Recovery Options

- Waste Gas Preheating
- Combustion Air Preheating
- Steam Raising Waste Heat Boilers
- Firetube
 - Firetube
 - Water tube
- Hot Water Heating
- Hot Oil Systems

Gas Cleaning Systems

- Wet Scrubbers
- Bag House
- ESP and WESP

Gas Cleaning Systems

- Wet Scrubbers
- Bag House
- ESP and WESP
- deNOx Systems

Configuration

- Horizontal End Fired
- Vertical Up-fired
- Down-fired

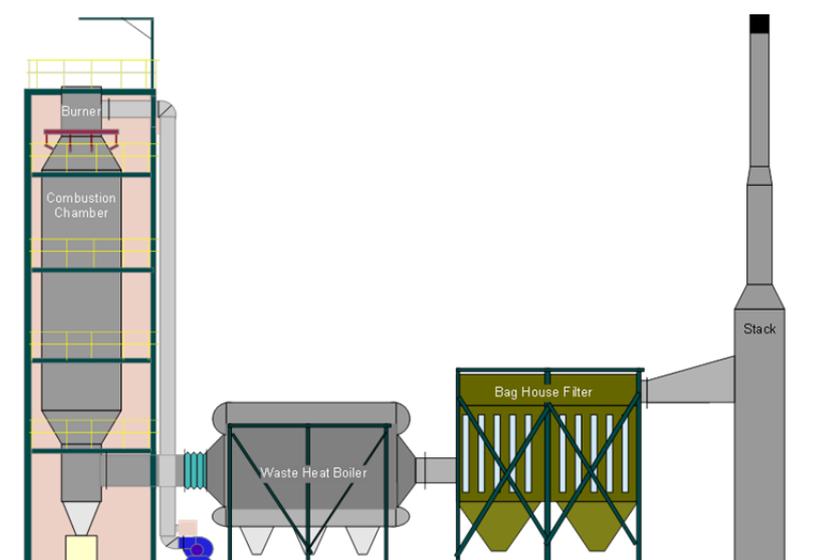
Emission Standards

EU Waste Incineration Directive (WID) 2000/76/EC
US EPA and local State Regulations
Germany TA Luft and other local and national standards

Emission Limits

(depends on application and configuration)

CO < 10 mg/Nm³
VOCs < 5 mg /Nm³
NOx < 100 mg/Nm³
H₂S < 5 mg/Nm³
HCl < 5 mg/Nm³
NH₃ < 5 mg/Nm³



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