



## Description

Thermal oxidizers designed to incinerate low BTU streams efficiently typically consume a forbidding amount of fuel gas to maintain destruction temperature. The fuel gas consumption may be reduced by introducing some form of heat or energy recovery.

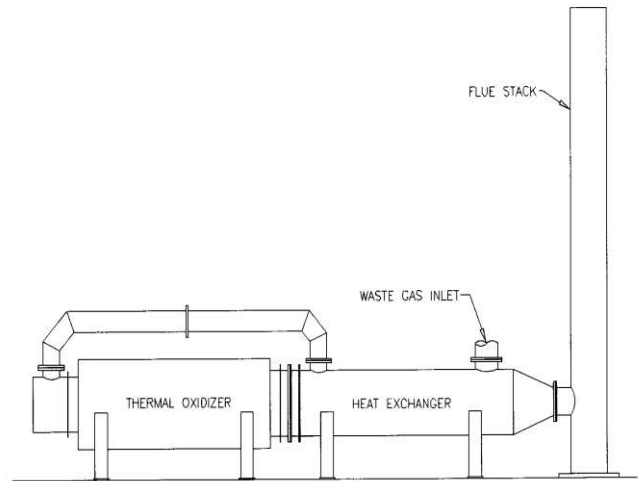
FIRECAT™ Recuperative Oxidizers employ shell-and-tube heat exchangers, boilers or hot oil heaters to take advantage of the heat available in flue gases. In this way, the heat from flue gases is constantly used to heat oil, generate steam, or preheat waste gas and combustion air, thereby reducing fuel gas consumption and related costs.

## Advantages

- 50-65% Heat Recovery
- Drastically Reduced Fuel Costs
- Destruction of a wide range of solvents and VOCs
- Lower Operating Costs
- Steam Generation or Oil Heating
- No Visible Flame
- No Radiation
- Low Noise

### Principal Applications

- Low BTU waste gases
- Petroleum refining
- Petroleum production
- Chemical processing



### Specifications

- Arrangement: Vertical, horizontal or modular
- Draft System: Forced
- Materials: Carbon Steel & Stainless Steel
- Connections: 150# ANSI Flanges
- Connection Line Size: 2 inch to 48 inch
- Length: 20 ft to 150 ft
- Diameter: 36 inch to 180 inch
- Destruction Efficiency: 99% to 99.9%

### Design Features

- Gas / Gas or Gas / Liquid Heat Exchanger
- Combustion or Retention Chamber
- PLC Controlled
- Exhaust Stack
- Refractory-Lined Chambers for Minimum Heat Loss