

ADVANTAGES

- 50% - 65% heat recovery
- Drastically reduced fuel costs
- Destruction of wide range of solvents and VOCs
- Lower operating costs
- Steam generation or oil heating
- No visible flame
- No radiation
- Low noise

GENERAL DESCRIPTION

Exorbitant fuel costs is perhaps the most distressing concern when considering which type of thermal oxidizer to choose. One way to hedge this variable cost is to employ 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 the flue gases. In this way, flue gases constantly heat oil, create steam, or preheat waste gases and combustion air, thereby reducing fuel gas consumption.

FIRECAT™
RECUPERATIVE
OXIDIZER



PRINCIPLE APPLICATIONS

Low BTU waste gases
 Petroleum refining
 Petroleum production
 Chemical processing

DESIGN FEATURES

Gas/gas or gas/liquid heat exchanger
 Combustion or retention chamber
 PLC controlled
 Exhaust stack
 Refractory lined chambers for minimum heat loss

SPECIFICATIONS

ARRANGEMENT:	Vertical, horizontal, modular
DRAFT SYSTEM:	Forced
MATERIALS:	Carbon or stainless steel
CONNECTIONS:	150 # ANSI flanges
CONNECTION LINE SIZE:	2" to 48"
LENGTH:	20' - 0" to 150' - 0"
DIAMETER:	36" to 180"
DESTRUCTION EFFICIENCY:	99.0% to 99.9%

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 RECUPERATIVE
 OXIDIZER

