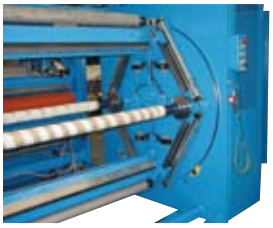
Pyradia
INDUSTRIAL OVENS & FURNACES

## DESIGNS AND MANUFACTURES INDIVIDUAL COMPONENTS AND COMPLETE TURNKEY SYSTEMS

### LAMINATORS

- + Hot Roll
- + Cold Roll
- + Moisturizer
- + Flatbed
- + Roll to Roll
- + Roll to Sheet
- + Sheet to Sheet

### UNWINDS/WINDERS



- + Single Position
- + Dual Position
- + Turret
- + Fly Splicing

### DRYERS

- + Arched (Vertical & Horizontal)
- + Straight
- + Gas & Electric Convection
- + Gas & Electric Infrared
- + Floatation
- + LEL Controls

### COATERS

- + Gravure
- + Knife Over Roll
- + Reverse Roll
- + Mayor Rod
- + Saturation
- + Split Film
- + Offset Gravure

### POLLUTION ABATEMENT

- + Thermal Oxidizers
- + Solvent Recovery
- + Heat Recovery

### COMPLETE LINES

- + Coating & Laminating Lines
- + Printing & Coating Lines
- + Custom Lines

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# THERMAL OXIDIZERS
# HEAT RECOVERY SYSTEM

+ CAPACITY UP TO 60,000 SCFM
+ WIDE RANGE OF APPLICATIONS
+ INTERIOR INSTALLATION
+ UP TO 99% VOC DESTRUCTION

ISO 9001 • 2000

**ALL OUR EQUIPMENT IS DESIGNED TO MAXIMISE YOUR OPERATION EFFICIENCY** • SINCE 1973

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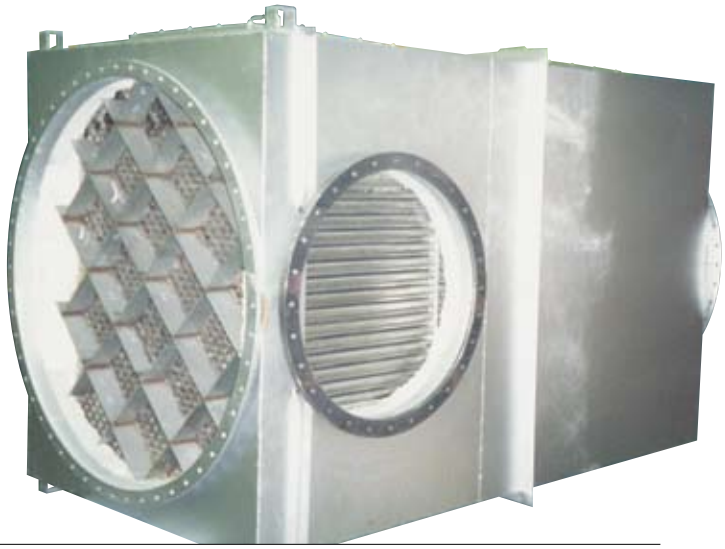
# THERMAL OXIDIZERS

PYRADIA's custom-designed thermal oxidizers offer the best VOC destruction solution for your process. PYRADIA's thermal oxidizers are used in a variety of industries and can be designed for interior or exterior installation. All our thermal oxidizers allow you to have an efficient control on VOC emissions and are custom-engineered to meet your specifications and installation requirements. They can be used for a broad range of applications and processes. As a result, you will benefit from a system that is cost-effective, maximises uptime and requires low maintenance.

Our thermal oxidizers can handle flows up to 60,000 SCFM at operating temperature ranging from 1,000 °F to 1,600 °F. They are designed to efficiently destroy up to 99% of the process emissions, whether it is air toxics or odors. In order to ensure equipment longevity each thermal oxidizer we manufacture is insulated with high quality ceramic fiber and is of heavy-duty construction.

## HEAT RECOVERY SYSTEM

By adding a heat recovery system to your thermal oxidizer you can recover up to 70% of the combustion heat. This represents significant energy savings. The system allows you to re-use the heat generated from the previous airstream in order to reduce the energy needed. With one of PYRADIA's heat recovery systems you can easily turn your pollutants into free energy and save money.




## THERMAL OXIDIZERS PROCESSES

The illustration below shows how the VOC laden air is processed inside the thermal oxidizer. The contaminants are first preheated into a heat exchanger before being passed through a burner, where they are elevated to the appropriate destruction temperature. Once the proper temperature is reached, the toxic and organic vapors are thermally converted to carbon dioxide and water vapors. The hot air is then returned to the heat exchanger and used to preheat the next contaminated airstream. Finally, cleaned air is exhausted in the atmosphere.

+ Printing
+ Curing
+ Paint spraying
+ Coating
+ Laminating

## PROCESSES