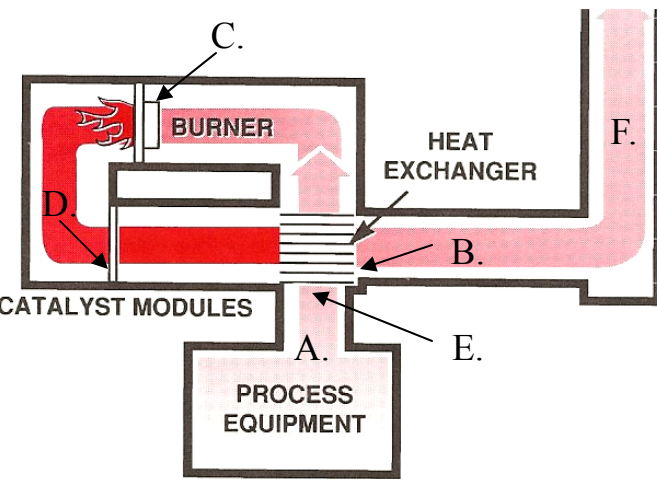


## How do Oxidizers Work?

- A. Air is exhausted from the process oven and introduced to the oxidizer.
- B. The air then passes through the tubes in a “shell and tube” heat exchanger and is elevated in temperature.



- C. This preheated air is then passed over a burner to elevate to its light-off temp. (usually 500°F to 700°F depending on the type of solvent.)
- D. The air is then passed through catalyst modules where a chemical reaction occurs which results in a further increase in temperature.
- E. The heated air then passes across the tubes of the exchanger to transfer the temperature increase described in item B.
- F. Air is then exhausted into the atmosphere.

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As the industry becomes increasingly concerned with pollution control and fuel conservation, a need for clean and energy efficient equipment has emerged.

At Jensen, we've stepped in to fill the need with custom engineered catalytic and thermal oxidizers. While effectively reducing pollution output, these oxidizers employ a "shell and tube" heat exchanger to preheat the process exhaust air before the burner chamber. The result is reduced BTU consumption at the burner.

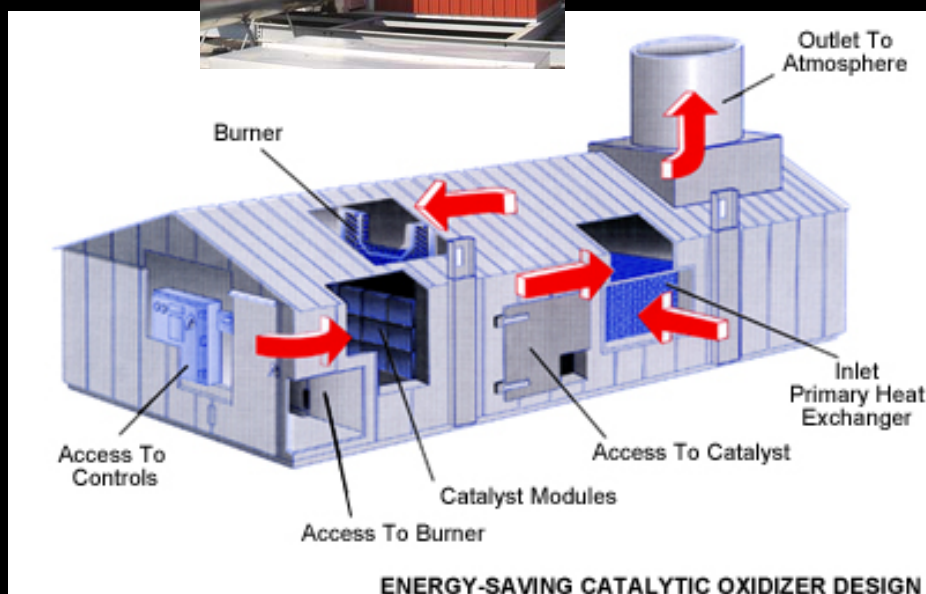


## OUR CATALYTIC SYSTEM VS. THERMAL OXIDIZATION OF

In addition to VOC's air quality agencies also strictly regulate carbon monoxide (CO) and nitrogen oxides (NOx). These increasing demands create a control problem for thermal oxidizers. That's because below the temperature of 1300°F CO is produced, and above the temperature of 1500°F NOx is produced.

In contrast, our catalytic oxidizer system operates at temperatures in the 500°F-700°F range and converts CO along with the VOC's. This temperature range is too low for NOx formation and the conversion is so efficient that it doesn't need continuous monitoring with expensive controls.

Thus, our catalytic oxidization system offers you a more economical choice while it automatically puts you in CO and NOx compliance.



## Typical Applications for Catalytic Oxidizer Systems

Paint Finishing Systems

Graphic Arts Printing

Metal Coating/Decorating

Wood/Paper Process

Automotive

Chemical Process

Pharmaceutical