

INDIRECT FIRED HEATERS

INDIRECT FIRED HEATERS

For over forty years, Thermal Transfer has supplied fired heaters for a wide range of industrial applications. Each is custom-made for the specific conditions involved, taking into account process and material temperatures, flow distributions, corrosion potential, plant space constraints and, of course, the degree of efficiency and reliability needed for optimal economic and safe service. Whether designed for atmospheric or high pressure, all of our indirect fired heaters utilize a two-step process: generating combustion gas, and subsequently heating the process fluid through a separate heat exchanger.

DESIGN FEATURES

With integrated control systems, Thermal Transfer heaters are furnished complete or as pre-assembled components ready for simple field assembly, installation and easy startup. The products of advanced manufacturing techniques and painstaking quality assurance, they also incorporate the industry's most sophisticated, state-of-the-art technology. Thermal Transfer specializes in low NO_x emission combustion systems, with many heaters producing extremely low levels.



Our indirect fired heaters can enhance the efficiency and profitability of your process, while offering the following features:

- * High efficiency burners for lower fuel costs
- * Waste gas recycle options for the highest efficiency systems
- * Low NO_x emission designs to accommodate pollution control mandates
- * ASME Code design and stamping for high pressure applications
- * Ceramic fiber insulation for faster startups
- * Pre-assembled components to minimize field labor
- * Totally integrated control systems
- * Space saving designs
- * Guaranteed performance



THERMAL TRANSFER CORPORATION

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Duquesne, PA 15110

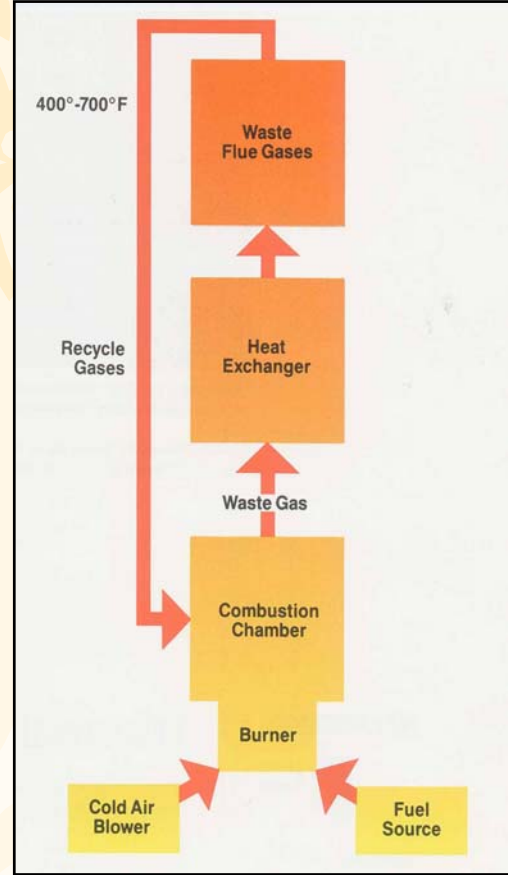
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FLUE GAS RECYCLE

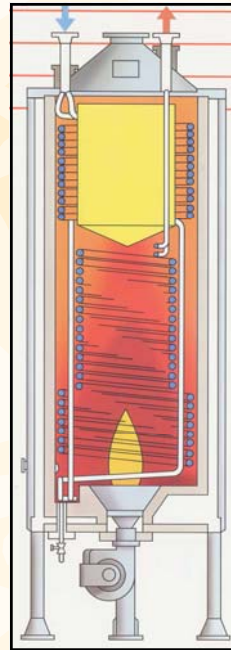
At typical temperatures of 400-700°F, flue gases can be returned to the combustion chamber, capturing heat that would otherwise be wasted. This can increase heater efficiencies to as high as 90 percent. Thermal Transfer can prepare an analysis of the recycle technology and engineer the system to meet the efficiency requirements of your process and facility.



APPLICATIONS

Applications for indirect fired heaters include the following:

- ◆ Sulfuric acid production startup
- ◆ Sulfuric acid thermal decomposition
- ◆ Aircraft component testing
- ◆ Aircraft turbine testing
- ◆ Aircraft autoclave heating
- ◆ Food drying applications
- ◆ Spray drying applications
- ◆ Process gas heating
- ◆ Catalytic regeneration
- ◆ Oxygen preheating
- ◆ Combustion air heating
- ◆ Waste incineration



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