

Thermal Transfer custom engineers, designs and builds products in one of the best equipped facilities in the industry.

- ① Engineered Solutions
- ① Customs Fabrication
- ① Flue Gas Heat Recovery
- ① Waste Gas, Flue Gas & Process Coolers
- ① Convection and Radiation Recuperators
- ① Heat Exchangers
- ① Equipment Repair

Highly experienced, skilled craftsmen and an unwavering commitment to quality control ensure the accuracy of every manufacturing step and the reliability of every product. To ensure quality, Thermal Transfer employs the latest QC techniques and NDE testing procedures in accordance with ISO 9001:2015 and the following certifications

- ① ASME "U" Stamp – Pressure Vessels
- ① ASME "R" Stamp – Repairs
- ① ASME "S" Stamp – Power Boilers

Manufacturing Facility in

Duquesne, Pennsylvania, USA

Wabtec Corporation is a leading global provider of equipment, systems, digital solutions, and value-added services. Whether it's freight rail, transit, mining, industrial or marine, our expertise, technologies, and people - together - are accelerating the future of transportation

 **Wabtec Components LLC dba Thermal Transfer**



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www.wabteccorp.com/heat-transfer-and-energy-solutions/high-temperature-applications

ISO 9001:2015
CERTIFIED COMPANY

 **PRI Certification**
PERFORMANCE REVIEW INSTITUTE

Engineering, Design & Custom Fabrication

Engineering, Design & Custom Fabrication

Thermal Transfer has been supplying high quality products to customers worldwide since 1938. We design and manufacture new and refurbished heat exchangers, fired heaters, and gas coolers, as well as fabrication to customer-specified designs.

Our manufacturing is performed in one of the best equipped facilities in the industry. Highly skilled, experienced craftsmen working with an unwavering commitment to quality, assure the accuracy and reliability of every product. Safety and quality are the highest priority at Thermal Transfer, and we have successfully and continuously satisfied some of the most demanding customers worldwide.



Air Preheater

Flue Type

Urea to Ammonia Hydrolyzer Skid

Feature Products & Technology

Convection Recuperators

Tubular heat exchangers that utilize convection heat transfer to preheat combustion air or gas for saving fuel. Design type, tube arrangement, tube material and flow pattern are based on the specifics of each application. These recuperators are utilized on steel, direct reduced iron and aluminum furnaces, as well as kilns, thermal oxidizers and waste incinerators.

Indirect Fired Heaters

Complete systems comprised of a combustion chamber, combustion/control system and heat exchanger. Our heaters offer high efficiency with flue gas recycle, low Nox emissions and ASME code design for high-pressure applications. They are used for a variety of applications including sulfuric acid production, aircraft component testing, product drying and process gas heating.

Heat Exchangers

Gas-to-gas and gas-to-liquid, bare tube and finned tube, tube-and-shell and coil designs are custom built for a wide range of temperatures and pressures.

Radiation Recuperators

High temperature heat exchangers that utilize radiation heat transfer to preheat combustion air or gas for saving fuel. These recuperators accommodate very high-temperature, particulate-laden flue gas streams while yielding a negligible flue gas pressure drop. We offer two types of radiation recuperators - a tubular radiation type and a double shell type. These recuperators are typically used on glass furnaces, calciners and some steel and aluminum furnaces.

Flue Gas Coolers

Heat exchangers designed to cool hot, dirty flue gas streams for entry into pollution control equipment. Air is typically the cooling medium; however, fluids can be used as well. Automatic cleaning systems can also be provided for keeping the heat transfer surfaces clean. Applications for gas coolers include electric arc, smelting and glass furnaces, along with cement kilns and other processes.

Thermal Transfer employs highly-skilled personnel in engineering, welding, and assembly. We also provide electrical panel integration and refractory installation. Our ability to offer our customers a "Single Source" for manufacturing services ensures on-time delivery and consistent quality control. Maintaining these services in house enables Thermal Transfer to maintain competitive pricing and complete control of your project to provide a successful outcome.

From the metals industry to petrochemical to power, glass, waste incineration, environmental and others, Thermal Transfer has provided engineering and manufacturing solutions for nearly 80 years. Thermal Transfer is a name you can trust to be part of your next successful project.



Refractory Work

Compressed Air Heater

Control and Piping Skid

Electrical Controls

Double Shell Radiation Recuperator

Acid Gas Preheater