

Heat Recovery Systems

Featuring Online Cleaned Hot Blast Recuperators and Coolers from Wuerz

The dirty gas heat recovery system from Kuttner North America offers proven performance for increased operational efficiency. Kuttner's systems combine years of engineering expertise with our worldwide resources and capabilities to provide customized solutions to meet your energy recovery needs.

CO₂ Reduction and Very Short ROI

The main reason to implement a heat recovery system for your cupola is to save on coke, thus achieving lower operating costs. ROI's of less than 2 years are achievable. As an added benefit, your plant's CO₂ emissions will decrease significantly with the amount of coke saved.



Known Worldwide

Our technology is embraced around the world, setting the standard in dirty gas recuperative hot blast air systems. No other design offers all of these features to enhance your operation:

- Recuperator for steady blast air temperatures up to 1,150° F from dirty gas
- Coke savings of up to 15%
- Online steel shot tube cleaning system insures steady high heat transfer between off gases and bundles; no recurring shutdowns for cleaning necessary; modular and easy exchangeable
- Oil bundle gas cooler for compact design and optional usage of thermal oil as a heat source easily available in other locations of the foundry
- Air-to-gas gas cooler for economical cooling of gas
- Waterless gas coolers for better baghouse operation, less corrosion, and reduced maintenance
- "Shock" protection bundle upstream of the air tubes for extended tube life
- Lower volumes without water vapor mean reduced operating horsepower
- Modular design for future upgrade flexibility and ease of replacement

Contact us to learn more about our proven Heat Recovery System and our full range of capabilities. We offer complete engineering, technical support, parts, and service. We will support you to reduce your energy consumption and operating costs.

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Improve Efficiency and Maximize Your Investment

Waste heat recovery is an important resource. Don't let this valuable asset go unused. Recovered waste heat can be utilized in a variety of ways, helping to improve your operational efficiency and maximize the return on your energy investment. Some typical uses include:

- Preheating the cupola blast air to minimize coke consumption; this is the most efficient way to save on energy and operating cost – ROI of 2 years are possible.
- Building and plant make up air heating
- Blast air dehumidifying – desiccant wheel regeneration
- Core and paint drying
- Water heating and steam generation
- Power generation



Reduction of CO₂ Emissions

The benefits of reusing your recovered heat don't stop with increased operational efficiency. Recovery and reuse of waste heat from the CO combustion means reducing CO₂.

Exchange of Existing Inefficient Heat Exchangers

The new generation of compact heat exchangers with online-cleaning antiquates the weekly cleaning of your partly plugged system. It provides you with steady temperatures for the process from Monday to Sunday with larger inspections only necessary once yearly.

Global Resources, Local Expertise, Make Kuttner a Smart Partner

Kuttner North America combines extensive heat recovery engineering expertise with the global technological resources of the Kuttner Group of companies. Contact Kuttner North America for single-source engineering and complete parts, service, and technical support.

Call (888) 918-4483 today for more information or a quote for your specific application.

Kuttner North America is your complete source for the planning, engineering, design, manufacture, installation, and support for state-of-the-art melt centers, gas cleaning systems, waste recovery systems, and environmental systems for many industries. Throughout our history, we have always placed a high emphasis on quality and customer care. Contact Kuttner North America for single-source engineering and complete parts, service, and technical support.