

WASTEHEAT BOILERS



RENTECH Boiler Systems offers a full range of custom-designed wasteheat systems to meet the most demanding project requirements.

WATERTUBE WASTEHEAT RECOVERY BOILERS

RENTECH offers a full range of wasteheat recovery boilers capable of producing up to 400,000 PPH steam with typical design pressures ranging from 150 to 1,000 PSIG. RENTECH is well known for its ability to provide custom-engineered solutions for these applications:

- Refinery and petrochemical processes
- Chemical plant incineration
- Hazardous waste and municipal solid waste incineration
- Open bottom "A" type for solid fuel burning systems
- Accommodates the addition of superheaters and economizers
- Biomass

FIRETUBE BOILERS: SINGLE-SHELL/SINGLE-AND MULTI-PASS

The single-shell, single-pass boiler design is the simplest, lowest cost solution for basic wasteheat applications where steam quality is not a primary concern.

The single-shell, multi-pass configuration is a compact design and is also used in more critical applications such as sulfuric acid, sulfuric condenser and sulfur reclaimer units. RENTECH engineers design these boilers with special furnace tube materials that are capable of withstanding the more severe conditions encountered in these processes.

Both of these boiler designs are somewhat limited in their flexibility to handle significant changes in process conditions and are not specified for waste gas streams with a high dew point temperature.

WASTEHEAT DESIGN FEATURES



- *Ideally suited for small incineration applications*
- *Integral steam space*
- *Optional tube-to-drum welding for the most severe operating conditions*
- *Low gas side pressure drops*



RENTECH offers high-quality boilers and other environmental products used in diverse industrial applications. Our rugged products are built for and installed in refineries, petro chemical plants, pulp and paper plants, ethanol production facilities, universities, food processing plants, and a wide variety of manufacturing plants.



FIRETUBE PROCESS GAS BOILERS

RENTECH has extensive experience in supplying boilers of this type for use in hydrogen reformer and hydrogen production systems commonly found in oil and gas, refining, and petrochemical plants.

- Normally specified for higher steam and higher gas-side pressures
- RENTECH possesses design expertise in selection of special materials depending on service conditions
- Steam drums can be remotely located
- Suitable for high gas side pressure



FIRETUBE BOILERS: ELEVATED DRUM SINGLE PASS

RENTECH designs and manufactures boilers of this type that are used with thermal oxidizers and sulfur recovery units primarily found in the refining, chemical processing and pharmaceutical industries.

- Ideally suited for high concentrations of SO₂ and HCl
- Design allows for high steam purity and good holdup times
- Normally specified for high gas-side pressure conditions
- Application limited in high particulate concentrations



FIRE BOILERS ■ HRSGs ■ WASTEHEAT BOILERS ■ SCR AND CO SYSTEMS

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