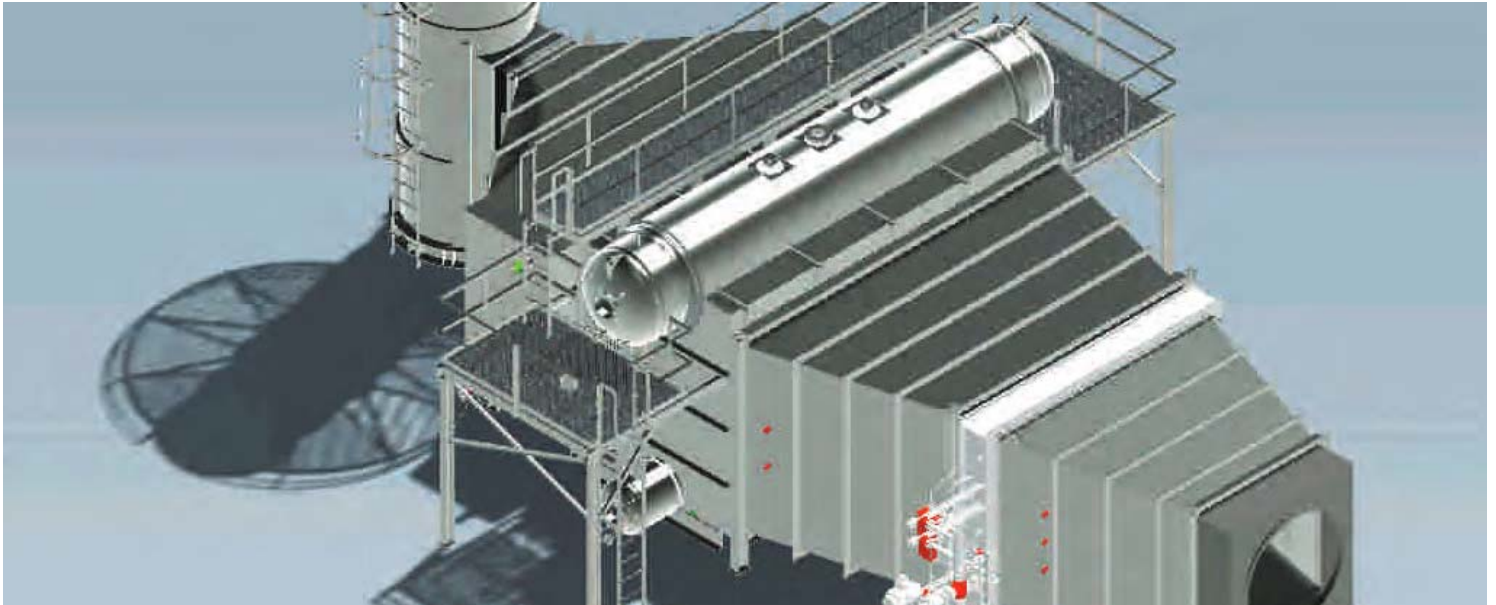


HEAT RECOVERY STEAM GENERATORS



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

Our HRSG manufacturing experience and passion for customer service has made a significant difference for our customers, who include the largest independent power producers, refining, petrochemical, and industrial companies in North America. At RENTECH, we aren't resting on our reputation – we are continually building one!

HRSG DESIGN FEATURES



- Custom-engineered HRSGs for gas turbine applications from 1 MW to 40 MW
- Applications include: steam, hot water, hot oil
- Factory assembled designs: natural circulation watertube or once-through steam generation (OTSG)
- Crossflow or waterwall designs available
- Water-cooled furnaces for high duct-fired applications
- Single or multiple pressure designs
- Design features to accommodate high cycling operation
- Variety of firing solutions to suit project requirements, including supplementary or fresh air firing
- Integrated SCR and CO systems for single source responsibility
- Feed-water and condensate heaters for maximum heat recovery
- Integral deaerators

- *Advanced thermodynamic calculations for optimized performance*
- *Unique boiler configurations optimize layout space*
- *Ability to quickly run multiple performance calculations for off design evaluation*
- *3D drafting allows for easy integration of our design into your overall plant schematics*



RENTECH Boiler Systems continues to lead the industry in producing new, innovative boiler designs.



RENTECH offers designs specifically tailored to meet your operating conditions and plant layout needs.

CROSS FLOW TWO-DRUM HRSG

The RENTECH Cross Flow HRSG is a natural circulation unit and is suitable for a variety of gas turbines and project applications. The Cross Flow boiler offers the following features/ benefits.

- Complete shop assembly to minimize installation cost
- Saturated or superheated steam application
- Remote steam drums for higher steam capacities or shipping restrictions
- Unfired or supplementary fired applications
- Multiple gas passes for smaller gas turbines

WATERWALL HRSG

Our waterwall HRSG shares many design features with our industry-leading direct fired packaged boilers. We design RENTECH waterwall HRSGs for applications that require high levels of supplemental firing.

- Single-pass gas flow to minimize gas side pressure drop
- Supplemental firing temperatures to 3,000°F
- "O" type or "A" type configurations available
- Convection type superheaters
- Fresh air firing to provide uninterrupted steam production

BUILT INTO EVERY RENTECH HRSG:

- All projects go through STAAD structural modeling analysis
- A piping analysis is done on all RENTECH furnished piping
- Optional flow modeling can be provided

ENVIRONMENTAL SOLUTIONS FOR ACHIEVING A SMALLER CARBON FOOTPRINT

Our approach to achieving lower emissions starts with optimization of the HRSG design. Coupled with RENTECH's knowledge of low emissions burner and catalytic reduction technologies, we are capable of supplying a system that fully complies with all performance criteria while meeting today's demanding emission standards.



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

BOILERS FOR PEOPLE WHO KNOW AND CARE

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