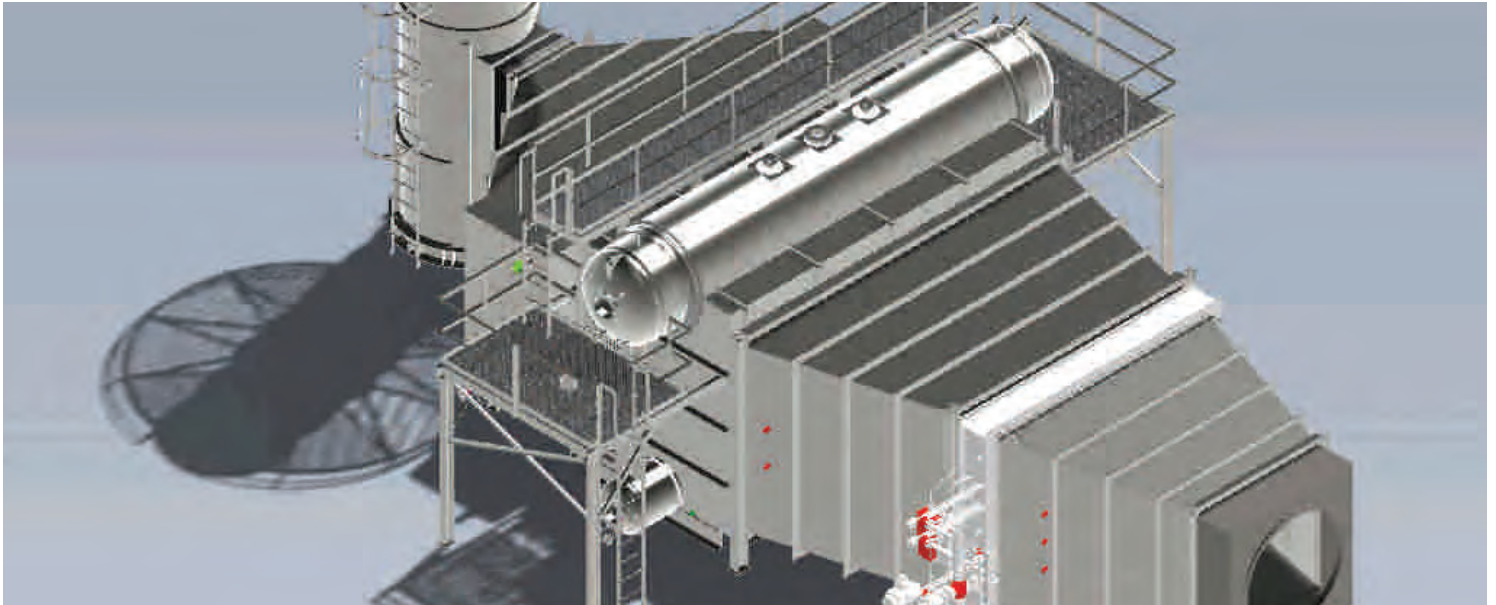


# HEAT RECOVERY STEAM GENERATORS



## 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!

- 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

### HRSG DESIGN FEATURES



- *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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