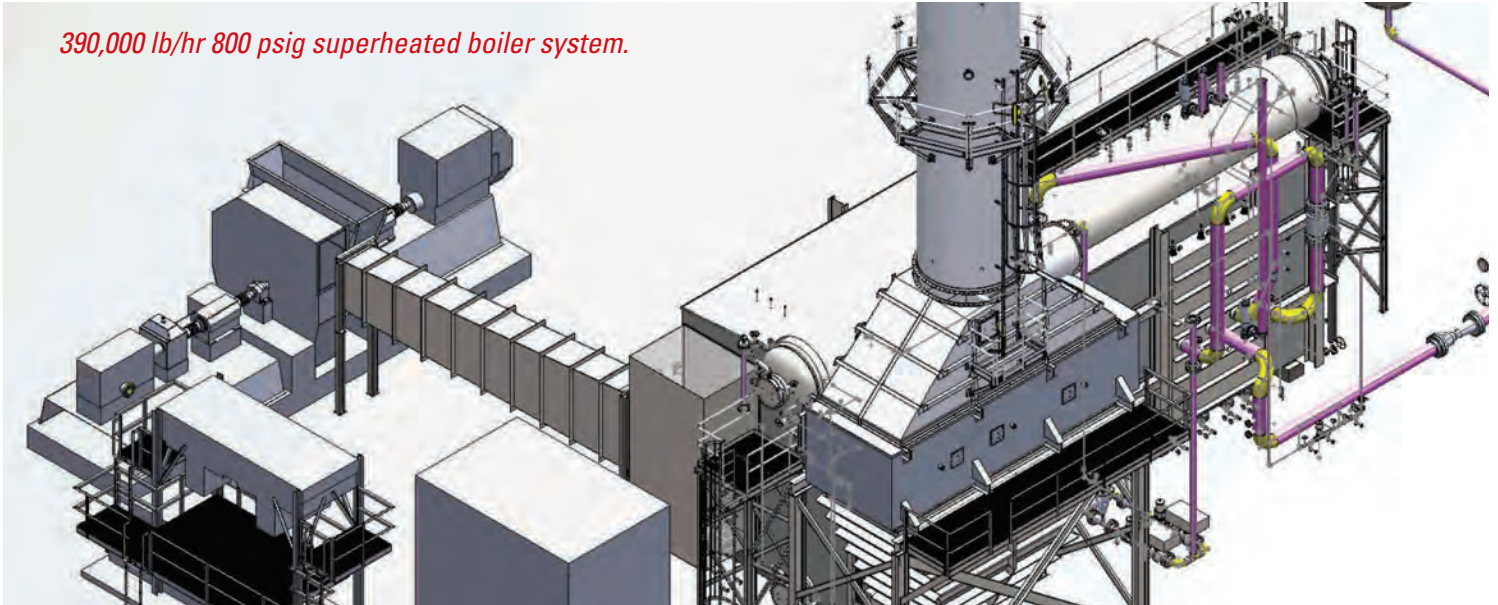


# CUSTOM WATERTUBE BOILERS



*390,000 lb/hr 800 psig superheated boiler system.*



**RENTECH Boiler Systems** provides a full range of custom-designed watertube boiler systems to meet the most demanding engineering requirements.



## CUSTOM DESIGN FEATURES

- 100% membrane construction
- Custom-designed boiler drums to meet your specific operating conditions
- Two-stage superheater assemblies
- Large furnaces for lower emissions requirements
- External unheated downcomers to assure circulation
- Large hinged and bolted manways
- Convection zones designed for reduced fan HP
- Multiple tube hole serrations for a positive tube-to-drum seat
- Optional tube-to-drum welding for the most severe operating conditions

## CUSTOM ENGINEERED SOLUTIONS



Each system can be engineered to handle:

- *Rapid steam load swing*
- *Quick startup for immediate steam demand*
- *Optimum emission performance*
- *Reduced utility loads*
- *Limited available space*
- *Unique fuel requirements*



474,000 lb/hr 900 psig superheated boiler system.

## LARGE CUSTOM BOILERS WITH SEVERE OPERATING REQUIREMENTS ARE A WAY OF LIFE AT RENTECH



RENTECH has worked with many large engineering firms and multinational companies to provide equipment specifically designed for the conditions that cannot be met with off-the-shelf boiler designs

- Projects utilizing redundant fans
- State-of-the-art control systems
- SCR systems for the most stringent emissions requirements
- Lower CO emissions and optimized furnace design for ultra-low NOx applications

### PARTIALLY FIELD-ASSEMBLED UNITS

- Designed to minimize field assembly and field labor
- RENTECH maximizes the assembly for conventional transit and can provide the furnace section in panels for ease of final assembly at customer's facility



### TOTALLY FIELD-ASSEMBLED UNITS

- Where the unit must be built on site, we ship major sub-assemblies to minimize field labor
- At RENTECH we can provide the assembly and commissioning
- We design our custom boilers with conservative sized furnaces in order to obtain optimal operating performance



### MODULAR & ELEVATED DRUM DESIGNS

- Where capacities and pressure require a unit that has the maximum plant assembly for the minimal field assembly
- RENTECH can provide elevated drums and modular furnaces



250,000 lb/hr 725 psig superheated boiler system.

### BUILT INTO EVERY RENTECH PACKAGED BOILER

- RENTECH supplies integrated boiler systems
- RENTECH's ability to provide 3D drawings
- All projects go through STAAD structural modeling analysis
- A piping analysis is done on all RENTECH furnished piping
- Optional flow modeling can be provided

### RENTECH WILL DESIGN A BOILER TO MEET YOUR SPECIFIC PLANT REQUIREMENTS

We are accustomed to supplying equipment that operates outside the packaged box. Our staff with more than 3,000 years of combined experience assures you that we will meet or exceed your expectations.



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

BOILERS FOR PEOPLE WHO KNOW AND CARE

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