RENTECH®

BOILERS FOR PEOPLE WHO KNOW AND CARE®

DATA CENTER ENERGY SOLUTIONS

RENTECH BOILER SYSTEMS POWERS MODERN DATA CENTERS WITH THE ENERGY SOLUTIONS THEY NEED TO PERFORM.

An exponential growth of generative AI and cloud computing is driving energy demand across the data center industry. Meet that challenge with Rentech's Fired Packaged Watertube Boilers and Heat Recovery Steam Generators.

FIRING UP THE FUTURE

We solve your energy puzzles. On-site power generation for Data Centers. Rentech's Fired Packaged Watertube Boiler supplies high-pressure steam to drive steam turbine generators, delivering on-site energy generation with the reliability your facility demands.

Design Features

- Steam capacity: Up to 600,000 lbs/hr (packaged)
- Steam pressures: Up to 2000 PSIG
- Temperature: Up to 1000°F
- Fuel flexibility: Gas, oil, hydrogen, off-gas fuels

100% Membrane Wall Fabrication

- Fully water-cooled furnace with zero gas by-pass
- Headered membrane front/rear walls eliminate refractory problems
- Extended life due to cooler furnace environment
- Lower maintenance and CO emissions
- Quick startup and shutdowns

Emissions Ready for Strictest Codes

- Low/ultra-low NOx burners
- SCR (Selective Catalytic Reduction) options
- Flue Gas Recirculation (FGR)
- CO catalysts

WASTE NOTHING, POWER EVERYTHING

Don't let a single degree go to waste - recover it and repurpose it to good use.

Rentech Boilers' Heat Recovery Steam Generators (HRSGs) recover heat from gas turbine exhaust to produce steam. This steam supports process applications, co-generation or drives steam turbines for electricity generation combined cycle systems.

- Custom-engineered HRSGs for gas turbines from 1–50 MW
- Steam, hot water, and hot oil applications
- Natural circulation
- Crossflow or waterwall configurations
- Single or multi-pressure systems with high cycling capability
- Flexible firing options, including supplementary and fresh air options.
- Integrated SCR/CO systems for single-source responsibility
- Heat recovery features including feedwater, condensate heaters and deaerators

Our HRSG solutions capture and repurpose waste heat to increase energy efficiency, reduce carbon emissions, and maximize the value of each BTU.

CROSS FLOW TWO-DRUM HRSG

Rentech Boiler's Cross Flow HRSG is a natural circulation unit suitable for a wide range of gas turbines and project applications. It offers the following features and 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 up 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 undergo STAAD structural modeling analysis, and a piping analysis is performed on all Rentech-furnished piping. Optional flow modeling is also available.

Meeting Tomorrow's Data Center Energy Needs

We engineer each solution to integrate seamlessly with your data center's design, environmental conditions, and energy objectives.

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Scan the QR code to learn more.

Get a Custom Quote Today — Partner with Rentech to design a boiler system built for your exact operational specs. Contact our engineering team at **sales@rentechboilers.com** or call **325.672.3400**

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