

BOILERS FOR PEOPLE WHO KNOW AND CARE®

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RENTECH BOILER SYSTEMS, INC. was established with the mission statement to build boilers for people who know and care. Backed by over 1,700 years of combined boiler-making experience, RENTECH BOILER SYSTEMS, INC. has a reputation as the industry leader in developing new innovative designs across the range of boiler applications.

RENTECH BOILER SYSTEMS, INC. is the fastest growing boiler manufacturer in North America and has further strengthened its commitment to serve the market with the recent expansion of its Abilene, Texas, manufacturing facilities to over 100,000 sq. ft. Direct access to the Port of Houston via truck or rail allows RENTECH BOILER SYSTEMS, INC. to support international markets in a timely manner.



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Fired Packaged Watertube

BOILERS



HEADERED WATERWALL DESIGN

The exclusive RENTECH BOILER SYSTEMS, INC. headered membrane front and rear walls eliminate the problems associated with other designs, some of which still employ refractory on the front and rear walls or the use of water-cooled rear furnace walls with massive refractory seals.

- No use of refractory walls and seals
- Allows for quicker startups and shutdowns
- Extended life due to a cooler furnace environment
- Lower CO emissions and optimized furnace design for ultra-low NOx applications

"D" TYPE WATERTUBE BOILERS

- Heavy Industrial applications burning Gas, Oil, Refinery Gas, Hydrogen and Off-Gas fuels
- Furnaces can be custom designed to fit site-specific requirements or for applications requiring integration of low emissions Burner and SCR technologies
- Single piece design or partial field erection

"A" AND "O" TYPE WATERTUBE BOILERS

- Convection banks designed for tight control of gas velocities
- Custom designed for various fuel compositions, firing methods and allowable emissions

SINGLE PASS "O" TYPE WATERTUBE BOILERS

- For lower pressure gas fired applications
- Low gas side pressure drop
- Low fan horsepower
- Large furnace cross section
- Symmetrical design for ease of shipment

DESIGN FEATURES

- Available for steam capacities up to 500,000 lbs/hr, 1800 PSIG and 1000 F
- Completely drainable convective Superheater operates at lower gas side temperatures, which extends Superheater life
- Two-stage convective Superheaters dramatically improve performance over turndown
- Conservative steam drum sizing, which also employs chevron vane separation technology that minimizes moisture carryover
- 100% membrane wall fabrication provides a fully water-cooled furnace with zero gas by pass and inherently lower emissions
- No use of refractory walls or refractory seals
- Custom-engineered design for each application
- Standard five-year warranty on front and rear furnace walls

MEMBRANE CONSTRUCTION

- Waterwall technology used in all designs
- Reduces operating costs by requiring less maintenance to repair or replace damaged refractory
- Enables faster start up and cool down



HEADERED WATERWALL

