

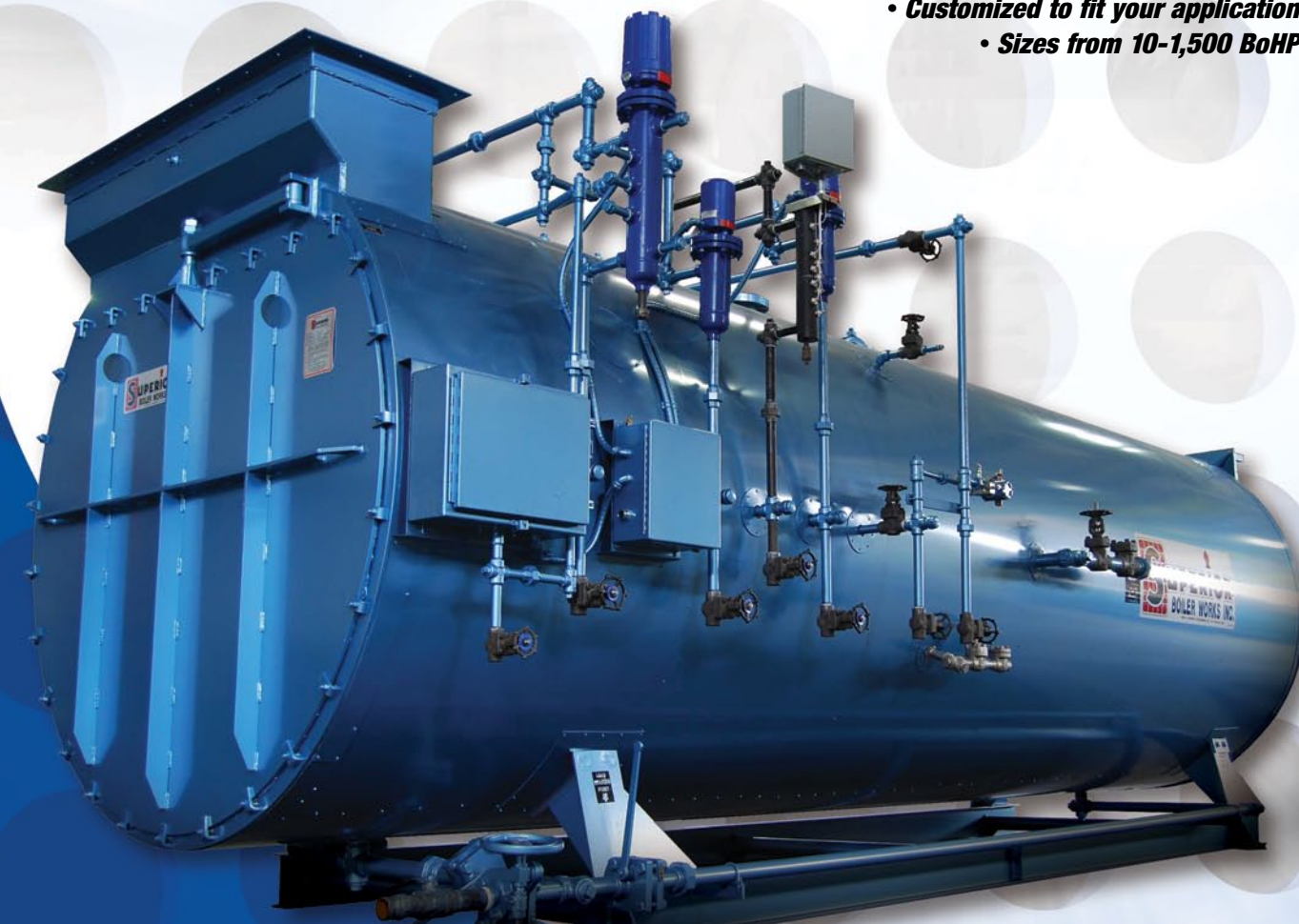


# **SUPERIOR**

**BOILER WORKS, INC.**

**Quality • Safety • Exceptional Value**

- 1, 2 and 3-pass scotch marine designs
- Customized to fit your application
- Sizes from 10-1,500 BoHP

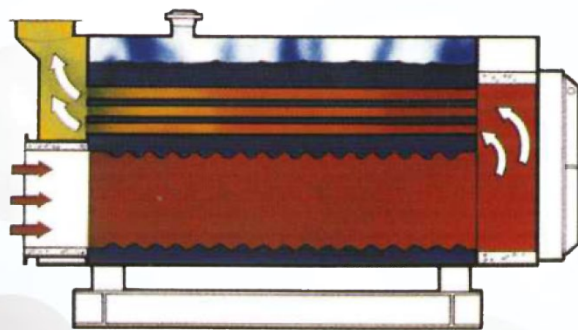


# **WASTE HEAT RECOVERY**

## **Choice**

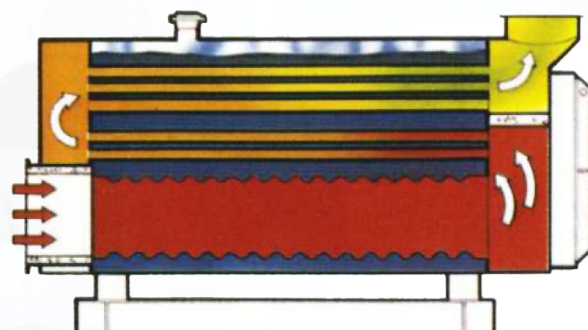
Since 1930 we have continued to improve our offering of quality, safety, and exceptional value to our respected customers in industry, energy, commerce and healthcare. Superior Boiler Works offers three basic waste heat recovery boiler designs custom engineered to fit your specific needs.

### **AZTEC**

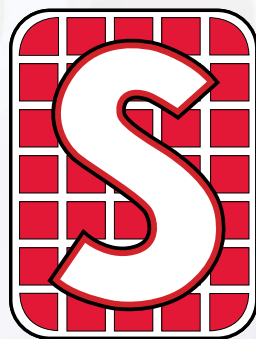


Aztec Two Pass Heat Recovery only units are designed with a large diameter furnace for gas inlet temperatures to 2400° F, 2.5" heat transfer tubes. Typical applications: low particulate levels, and high inlet temperatures .

### **MOHAWK**



Mohawk Three Pass Heat Recovery units are designed with a large diameter furnace for waste gas inlet temperatures to 2400° F with 2.5" heat transfer tubes. Typical applications: low particulate levels, high inlet temperatures, and moderate gas side pressure drop.



**"Demand Superior Performance"**

3524 E. 4th Street • Hutchinson, KS 67501 • P.O. Box 1527 • Hutchinson, KS 67504-1527

620-662-6693 • Fax: 620-662-7586

[www.superiorboiler.com](http://www.superiorboiler.com)

**Superior Boiler Works', Inc. offers Waste Heat Recovery Boilers in three basic designs to provide the greatest flexibility of any manufacturer in selecting a unit that is designed to meet the specific requirements of each application. Boiler designs are customized for specific job conditions to provide optimum performance and maximum energy savings.**

## Features

- Customized design engineered for your specific solution.
- Pressures from 15-300 psi steam and 30-160 psi hot water
- Available with dual chamber design or supplemental firing
- Temperatures to 2,400°F
- Roller-bearing supported single-hinged rear door for total fireside access (except wetback)



**Pictured: Dual Chamber Cherokee waste heat recovery boiler with supplemental firing.**



## Quality

All Waste Heat Recovery Boilers are made with 12 gauge tubes, 3/4" tube sheets with 3/4" ligament spacing and furnaces thicker than ASME code requirements. All section I furnaces above 24" diameter are corrugated to help reduce the stresses associated with expansion and contraction.



## Safety

Superior's Waste Heat Recovery Boilers are trimmed equipped with safeguards and code piping. Each boiler is inspected by independent code inspectors. Factory mounted and wired packaged burners are available from all burner manufacturers for supplemental firing.

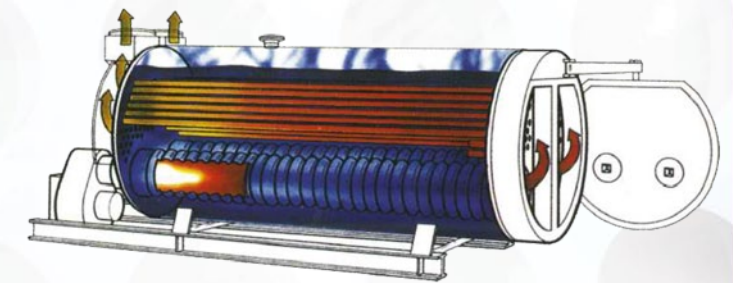
## Exceptional Value

Superior Boilers offer thicker tubesheets, thicker tubes, large corrugated furnaces, and the ability to factory mount, wire and test UL or CSA listed burners from all burner manufacturers for dual chamber applications. Full front end and fireside access is standard on all Superior boilers. Our design eliminates the necessity of disconnecting fuel lines when inspection or maintenance functions are required.

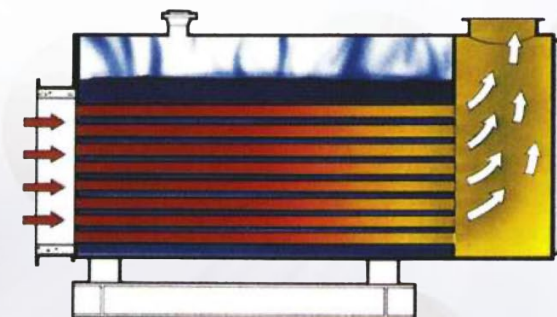
### Cherokee Dual Chamber Two Pass Heat Recovery

Superior's Cherokee Dual Chamber Units are designed to combine the advantage of waste heat recovery with the security of a fired boiler to provide steam or hot water during periods of time that waste gas is unavailable. The separated gas side passes allow for firing the forced draft burner without running the waste heat induced draft fan or for the simultaneous firing of waste gas and the supplemental forced draft burner.

## CHEROKEE



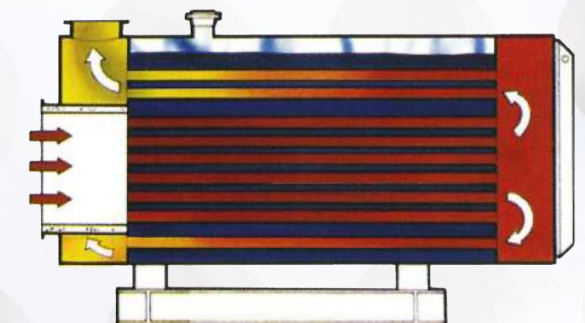
## KIOWA



### KIOWA SINGLE PASS HEAT RECOVERY

Kiowa Single Pass Heat Recovery only units are designed with 2" & 2.5" heat transfer tubes. Typical applications : high particulate levels, low gas side pressure drop, high steam pressures, inlet temperatures to 1800° F

## COMANCHE



### COMANCHE TWO PASS HEAT RECOVERY

Comanche Two Pass Heat Recovery units are designed with 2" & 2.5" heat transfer tubes. Typical applications : moderate particulate levels, space limitation, high steam pressures, inlet temperatures to 1800° F.