



Superior Boiler helps you **outwit your challenges**

UNPLANNED DOWNTIME

EMISSIONS CONSTRAINTS

BUDGET SHACKLES

SPACE LIMITATIONS

WHY SUPERIOR BOILER?

ENGINEERED AND BUILT TO ORDER

Customized packages to meet your requirements.

- ✓ Fluctuating load demands
- ✓ Emissions compliance
- ✓ Energy efficiency
- ✓ Fuel flexibility
- ✓ Redundancy
- ✓ Footprint challenges

SUPERIOR QUALITY

We are an ISO 9001:2015 Certified company, meaning customers know they're getting a quality product.



BOILERS BUILT TO LAST

- ✓ Thicker, longer-lasting boiler shells
- ✓ Thicker, standard-spaced tubesheets
- ✓ Thicker, corrosion-protective boiler tubes



BURNER FLEXIBILITY

Superior boilers are burner neutral and work with any brand, making them easier and more cost-effective to maintain.

NON-PROPRIETARY PARTS

We use non-proprietary parts, so maintenance and repairs can be completed by the qualified boiler contractor of your choice. We carry a large selection of boiler equipment parts inventory.

GLOBAL NETWORK OF PROBLEM SOLVERS

More than 50 well-respected companies represent territories across the U.S. and around the world. Many of these companies are full line watertube/firetube representatives.



FIRETUBE



WATERTUBE



DEAERATOR



VERTICAL



WASTE HEAT RECOVERY



CONDENSING



SKID PACKAGES



HIGH TEMP FLUID GENERATORS



FIREBOX



ECONOMIZERS



DAKOTA

- ✓ 2-pass dryback design
- ✓ Compact footprint with X-ID® tubes
- ✓ Sizes from 100 - 2,500 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as natural gas, propane, hydrogen, & #2 oil
- ✓ Generous furnace volume for low heat releases & ultra low NOx compliance



APACHE

- ✓ 2-pass dryback design with turbulators
- ✓ Sizes from 10 - 2,500 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as natural gas, propane, hydrogen, & #2 oil
- ✓ Rugged, simple design



AZTEC

- ✓ 2-pass dryback design with turbulators
- ✓ Sizes from 30 - 1,000 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as natural gas, propane, hydrogen, & #2 oil
- ✓ Generous furnace volume for low heat releases & ultra low NOx compliance



SENECA

- ✓ 3-pass dryback design
- ✓ Sizes from 30 - 300 HP
- ✓ Design pressures* from 30 - 160 psig hot water
- ✓ Capable of burning fuels such as syngas, digester gas, hydrogen, bio-diesel, natural gas, #2 oil, & heavy-oil



MOHAWK

- ✓ 3-pass dryback design
- ✓ Sizes from 30 - 1,000 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as syngas, digester gas, hydrogen, bio-diesel, natural gas, #2 oil, & heavy-oil
- ✓ Generous furnace volume for low heat releases & ultra low NOx compliance



WICHITA

- ✓ 2-pass wetback design
- ✓ All X-ID® tubes for high efficiency & compact footprint
- ✓ Sizes from 200 - 2,500 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as natural gas, propane, hydrogen, & #2 oil
- ✓ Generous furnace volume for low heat releases & ultra low NOx compliance



SEMINOLE

- ✓ 3-pass wetback design
- ✓ Sizes from 50 - 2,000 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as syngas, digester gas, hydrogen, bio-diesel, natural gas, #2 oil, & heavy-oil



SUPER SEMINOLE

- ✓ 3-pass wetback design
- ✓ Highest efficiency model with X-ID® tubes
- ✓ Sizes from 50 - 2,000 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as natural gas, propane, hydrogen, & #2 oil
- ✓ Generous furnace volume for low heat releases & ultra low NOx compliance



MOHICAN

- ✓ 4-pass wetback design
- ✓ Highest efficiency model with all smooth tubes
- ✓ Sizes from 50 - 1,500 HP
- ✓ Design pressures* from 15 - 300 psig steam & 30 - 160 psig hot water
- ✓ Capable of burning fuels such as syngas, digester gas, hydrogen, bio-diesel, & heavy-oil
- ✓ Generous furnace volume for low heat releases & ultra low NOx compliance



SHAWNEE DS-TYPE

- ✓ Sizes from 10,000 - 300,000 lb/hr
- ✓ Design pressure up to 1,200 psig
- ✓ Convective type superheaters up to 900°F
- ✓ Side or top flue gas discharge



DENALI D-TYPE

- ✓ Sizes from 10,000 - 300,000 lb/hr
- ✓ Design pressure up to 1,200 psig
- ✓ Convective type superheaters up to 900°F
- ✓ Side flue gas discharge



OTTAWA O-TYPE

- ✓ Sizes from 10,000 - 300,000 lb/hr
- ✓ Design pressure up to 1,200 psig
- ✓ Radiant type superheaters up to 900°F
- ✓ Top flue gas discharge



APPALACHIA A-TYPE

- ✓ Sizes from 10,000 - 300,000 lb/hr
- ✓ Design pressure up to 1,200 psig
- ✓ Two (2) lower drums
- ✓ Radiant type superheaters up to 900°F
- ✓ Top flue gas discharge
- ✓ Option for open bottom for ash removal



TOMAHAWK TANDEM STEAM GENERATOR UNIT

- ✓ Sizes from 250,000 - 500,000 lb/hr
- ✓ Design pressure up to 1,200 psig
- ✓ Superheated steam up to 900°F
- ✓ Modular design to solve shipping constraints

MODULAR SYSTEMS

- ✓ Fully modular skidded assembly
- ✓ Includes boiler, controls, dearator, feedwater pumps, & water treatment system
- ✓ Enclosure complete with all interconnecting wiring & piping
- ✓ Can be commissioned in 2 weeks after placement on pad
- ✓ Sizes starting from 10,000 lb/hr
- ✓ Conditioned environment eliminates heat tracing of all this equipment





HURON HRSG

- ✓ Sizes from 1,000 - 200,000 lb/hr
- ✓ Supplemental & fresh air firing capabilities
- ✓ Saturated or superheated steam



KONZA iHRSG

- ✓ Integrated heat recovery steam generator
- ✓ Sizes up to 1,000 HP
- ✓ Supplemental & fresh air firing capabilities
- ✓ Saturated or superheated steam
- ✓ Low emission fresh air fired with dual fuel capability



LAKOTA HIGH TEMP HOT WATER

- ✓ High temperature hot water generator
- ✓ Patented membrane style construction
- ✓ Sizes from 20 - 250 MM btu/hr output
- ✓ Capable of burning natural gas, #2 oil, and other various liquid and gaseous fuels
- ✓ Welded tube to header joint



IROQUOIS FLEXTUBE - MPSM

- ✓ Sizes from 350 - 800 HP
- ✓ Applicable for low & high pressure steam applications
- ✓ Convertible configuration from steam to hot water or vice versa
- ✓ ASME Section I & IV
- ✓ Operating efficiency for 83% for low pressure steam, 80% for high pressure steam
- ✓ Optional radiant superheater available



IROQUOIS FLEXTUBE - MPHWH

- ✓ Sizes from 350 - 800 HP
- ✓ Available for low & medium temperature applications
- ✓ ASME Section I & IV
- ✓ Operating efficiency of 85% for low & medium temperature applications



CHEYENNE

- ✓ High-efficiency hot water condensing boiler
- ✓ 4.0 - 12.0 million BTU/HR
- ✓ Design pressure of 125 psig standard, 160 psig optional
- ✓ Choice of UL listed burner packages
- ✓ Proven efficiency
- ✓ NOx emissions of 30 PPM or less available at all firing rates
- ✓ Ultra Low NOx option (<9 ppm)
- ✓ Dual fuel capabilities with natural gas/oil



WASTE HEAT

- ✓ Engineered for specific job conditions
- ✓ Available in single-pass, 2-pass, 3-pass and dual chamber configurations
- ✓ Supplemental & fresh air firing capabilities
- ✓ Designed to meet the specific requirements of each application



UTE

- ✓ Down-fired vertical firetube boiler
- ✓ Sizes from 60 - 150 HP
- ✓ Design pressures* from 15 - 200 psig steam & 16 - 160 psig hot water
- ✓ Industry-leading furnace volume
- ✓ Dual fuel & non-standard fuel capable
- ✓ Available with low emissions <30ppm technology



OSAGE FIREBOX

- ✓ 3-pass firebox design
- ✓ Sizes from 15 - 450 HP
- ✓ Design pressures* from 15 psig steam and 30 psig hot water
- ✓ Large furnace and rear turnaround volume for complete combustion
- ✓ Capable of burning fuels such as syngas, digester gas, hydrogen, bio-diesel, & heavy-oil



ARROWHEAD MODIFIED FIREBOX

- ✓ 3-pass modified firebox design with X-ID® tubes
- ✓ Sizes from 10 - 100 HP
- ✓ Design pressures* from 15 psig steam and 30 psig hot water
- ✓ Capable of burning fuels such as natural gas, propane, hydrogen, & #2 oil
- ✓ Compact, exceptional value
- ✓ Available with NOx reduction technology to 9 ppm



TRIAD

- ✓ Sizes from 7 - 50 HP
- ✓ Design pressures* from 15 - 150 psig steam & 30 - 125 psig hot water
- ✓ Very small footprint for tight-fit applications
- ✓ Extremely rugged design
- ✓ Low-NOx pre-certified



DEARATOR SYSTEMS

- ✓ Spray scrubber, tray type, & dual tank spray designs
- ✓ ASME Section VIII Div 1 tank
- ✓ Design pressure up to 50 psig
- ✓ Sizes up to 300,000 pph for spray systems and 400,000 pph for tray systems
- ✓ Available with stainless steel surge tank or liner



BLOWDOWN SEPARATOR

- ✓ ASME Section VIII Div 1 tank
- ✓ For low & high pressure boilers
- ✓ Features a stainless steel strike plate
- ✓ Optional after cooler available



FEEDWATER TANKS

- ✓ Standard units sized to handle 30 - 1,000 gallons
- ✓ Condensate up to 190°F
- ✓ Equipped with spare tube



ECONOMIZER

- ✓ Sizes from 50 - 2,500 HP for firetube and up to 300,000 lbs/hr for watertube
- ✓ Coiled and rectangular units supplied
- ✓ Two-stage units can boost efficiency into 90% range with suitable cold water heat sink
- ✓ All units feature individually removable finned tube elements
- ✓ Available in carbon steel and stainless steel



SKID PACKAGES

- ✓ Configurations available with vertical, 2-pass, or 3-pass boilers
 - Vertical steam or hot water
 - 2-pass dryback or wetback
 - 3-pass dryback or wetback
- ✓ Very small footprint for tight-fit applications
- ✓ Design pressures up to 300 psig steam & 160 psig hot water
- ✓ Extremely rugged design
- ✓ Packages available with:
 - Single-point electric panel
 - Feedwater system
 - Blowdown separators
 - Feedwater softener
 - Chemical feed system
 - Boiler economizer

