RTS STANDARD EQUIPMENT

- Cast iron wet-base sections
- Stainless steel flange Temperature Strikter
- Insulated manual gage glass
- Cast iron ashpan with integral damper
- Integral blow gas collector
- Burner locating plate with 1 ½” schedule 40 pipe
- Front and rear flame observation ports
- Stack thermometer
- Steel angle floor rails
- Ceramic fiber rope seal between sections
- Graphite port connectors
- 60 psi melting pressure sections
- ASME relief valve, 40 psi
- Stack thermometer
- Manual reset, Hi-Limit control (Boiler/Burner units only)
- Operating control (Boiler/Burner units only)
- Low NOx available
- 80 psi working pressure sections
- ASME relief valve, 40 psi
- Thermostat
- Manual reset, Hi-Limit control (Boiler/Burner units only)
- Operating control (Boiler/Burner units only)

Proven Heritage
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What happens in a test lab is one thing, what happens in the real world—where time, money, and long term costs are no longer hypothetical—is another. It’s true that times have changed. But the know-how to meet maintenance, install, and operational demands has not. Smith Cast Iron Boilers have what it takes.

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Note: 1. Important ordering information
2. † Add prefix for type of fuel to be burned. “LO” for Light Oil, “G” for Gas or “GO” for Gas/Oil.
3. Net I=B=R Water Ratings are based on an allowance of 1.15.
4. Light Oil having a heat content of 140,000 BTU/Gal.
5. Gas having a heat content of 1,000 BTU/Cu. Ft., 0.60 specific gravity.
6. Operating control (Boiler/Burner units only)
Efficiency [in both the short and long term]

Simplified installation and enduring performance are our hallmarks. When plans require an eye on value over time, and call for less hands-on operation and maintenance, Smith will get you there. Proven in decades past, proving it for decades to come.

Optimal Operation

Larger heat transfer surface and cast-in heat transfer pins allow for maximum thermal efficiency—during the course of its lifetime, the boiler pays for itself several times over. Additionally, our integral flue gas collector enables quieter operation.

Trouble-free Maintenance

Smith designs products with the needs of the contractor and end-user in mind. Easy access for service and maintenance provides a longer service life.

Return Temperature Stabilizer*

Preventing Service Calls & Extending Boiler Lifetime

Commercial applications cycle-off when a facility is unoccupied. Re-introducing cold water causes uneven boiler expansion/contraction. This material stress can lead to failure. Smith’s flexible line in combination with our Return Temperature Stabilizer equalizes outlet temperatures to minimize stress and extend boiler life.

- no blend pumps
- no manual or thermostatic by-pass
- no additional controls
- self-modulating, no adjustments needed
- simple installation

*Patent pending

Design [in keeping with your vision]

An architect or specifying engineer can’t control how effectively a boiler is assembled on site or how it will be maintained over time. That’s OK—Smith has done that for you.

Uncomplicated Installation

For new construction or in existing structures, Smith has built generations of experience into saving time and effort during installation.

1. Machined Feet

Smith boilers ship with their own steel floor rails that match section feet assembly; no need for shims or field adjustments. Sections are drawn together pair-by-pair to reduce stress for simplified, no-jack connection.

2. Indestructible Port Connectors

Precise sectional alignment accommodates graphite port connectors that permanently withstand exposure to flue gases or water, up to 80 psi, and any water pH factor.

3. Heat Transfer Rods

Deep sections and precision machining allow for the placement of heat transfer rods between sections to maximize thermal output (High Efficiency model only)

4. Continuous Seal/Integral Smokeshock

The exact alignment of the sections allows for a convenient continuous ceramic rope seal, as well as a cast-in smokehood in order to reduce the operational noise

Return Temperature Stabilizer

Cold return water is distributed to all boiler sections concurrently through the upper port.

Return water cascades past the heated water in the upper section.

As heated water circulates through the main section, it offsets thermal shock caused by the introduction of cold return water.

Heating the water to output temperatures is accelerated and tempered through each section.
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Return Temperature Stabilizer

Presenting Service Cuts & Extending Boiler Life
Commercial applications cycle-off when a facility is unoccupied. Re-introducing cold water causes uneven boiler expansion/contraction. This material stress can lead to failure. Smith's flexible line in combination with our Return Temperature Stabilizer equalizes water temperatures to minimize stress and extend boiler life.

• no blend pumps
• no mandatory thermostat by-pass
• no additional controls
• self-modulating, no adjustments needed
• simple installation

1. Return water is distributed via all boiler sections concurrently through the upper port.
2. Return water in the heated section cascades past the return water.
3. Return water temperature is equalized through the upper port.
4. Return water is distributed to each heated section concurrently.

1. Machined Feet
2. Indestructible Port Connectors
3. Heat Transfer Rods
4. Continuous Seal/Integral Smokehood

Smith Water Boilers
Series RTS HE

www.smithboiler.com
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RTS STANDARD EQUIPMENT
- Cast iron wet-base sections
- Stainless steel flues
- Temperature Stabilizer
- Insulated smoke hood
- Cast iron ash pan
- Integral damper
- Integral flue gas collector
- Front and rear flame observation ports
- Stack thermometer
- Steel angle floor rails
- Ceramic fiber rope seal between sections
- Graphite port connectors
- Low NOx available
- 80 psi working pressure sections
- ASME relief valve, 40 psi
- Thermostat
- Manual reset, Hi-Limit control (Boiler/Burner units only)

I B R Ratings, Burner Capacities and Dimensions (inches)
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RTS STANDARD EQUIPMENT

- Cast iron wet-base sections
- Stainless steel flue/return Temperature Stabilizer
- Insulated metal jacket
- Cast iron smokehood with integral damper
- Integral flue gas collector
- Burner mounting plate with insulation block
- Front and rear flame observation ports
- Stack thermometer
- Steel angle floor rails
- Ceramic fiber rope seal between sections
- Graphite port connectors
- 80 psi working pressure sections
- ASME relief valves, 40 psi
- Low NOx available
- Net I=B=R Water Ratings are based on an allowance of 1.15.
- Light Oil having a heat content of 140,000 BTU/Gal.
- Gas having a heat content of 1,000 BTU/Cu. Ft., 0.60 specific gravity.

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Note: I=B=R Ratings, Burner Capacities and Dimensions (inches) have been rounded.