



LOW NO_x PREMIX TECHNOLOGY INDUSTRIAL PACKAGED STEAM BOILER

Horizontal Drum Sectional Water Tube
30 to 50 HP Gas Fired

104L Steam Boilers - 30 to 50 HP

104L Steam Boilers 30 to 50 HP

THE PARKER DESIGN

The Parker water tube design offers an extremely efficient, reliable steam boiler built for the long term and ease of maintenance. The Parker design offers many advantages. Compare ours to the competition.

ADVANTAGES

1. Safety

The Parker ASME tube bundle is extremely flexible and offers a long life with a 25 year non prorated warranty against thermal shock. No Parker Boiler has ever been known to experience an internal explosion.

2. Low NO_x System

Parker was the first manufacturer to achieve SCAQMD Rule 1146.2 NO_x Certification. Initial installations began in 1991 and to date thousands of Low NO_x boilers are on-line providing reliable operation for our customers

3. Durable Low NO_x Burners

Parker heavy duty premix metal fiber burners not only provide the lowest emissions possible but also provide long durable service life

4. VFD/Premix System

Parker's fully modulating or two stage variable speed low NO_x burner systems offer digital electronic set point control, VFD blower for reduced electrical energy usage, precise fuel/air ratio control with no linkages, cams or FGR valves.



Low NO_x Premix
Industrial Packaged
Steam Boiler

Pressures
to 250 PSI



PARKER BOILER CO.

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BROCHURE 104L 0J9

5. Low Emission

Extremely LOW NO_x & CO levels are attained by our Premix Burner System. NO_x levels below 20 PPM at 3% O₂ and CO levels below 100 PPM are easily obtained, assured & repeated in numerous applications. Many 12 PPM units are on line with special burners.

6. Low-Cost Operation

The staggered tubing design provides a multi-baffled heating surface to increase efficiency.

7. Fast Heat-Up

The boiler requires less than ten minutes to heat up to 100 PSI from a cold start which saves a considerable amount of time and fuel.

8. Large Heating Surface

A large amount of heating surface provides increased efficiency & minimizes chances of scaling. Compare ours to the competition.

9. Internal Accessibility and Inspection

Full length cabinet doors can be easily removed in a matter of minutes, making the internal boiler, drum, tubes, and burners readily accessible. Easy to remove gasketed access plugs are provided at both ends of every tube. Boiler inspections can be accomplished quickly and at low costs.

"Never a Compromise for Quality or Safety"



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Horizontal Drum Sectional Water Tube

30 to 50 HP Gas Fired



104L Steam Boilers 30 to 50 HP

Secondary low water cutoff
M.R. probe type

Water level pump control &
primary low water cutoff

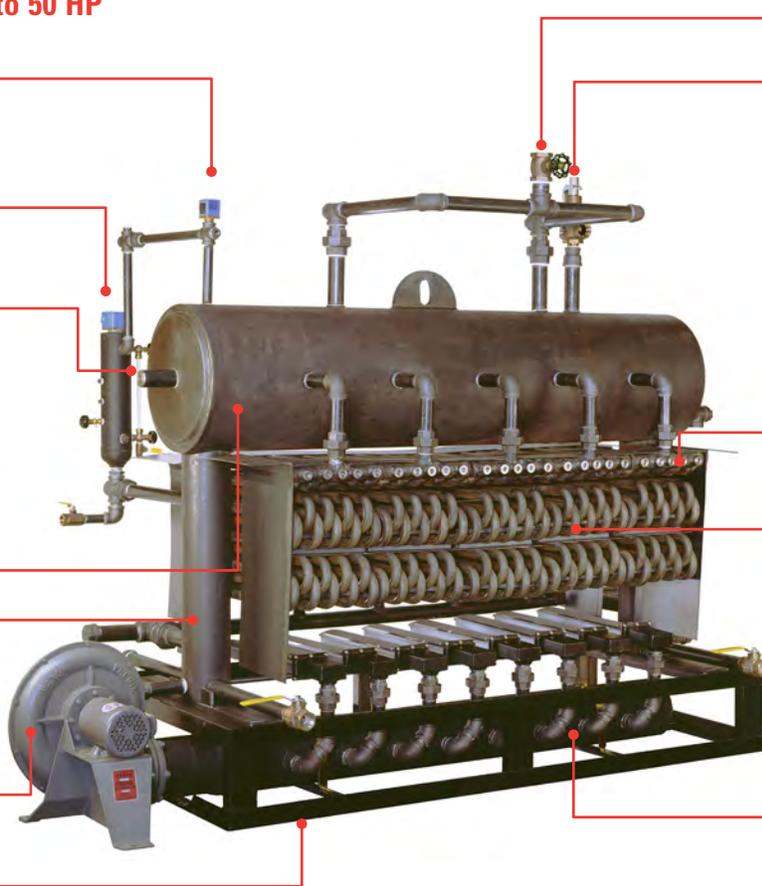
Drum inspection openings -
both heads

Horizontal steam drum 20"
diameter heavy seamless 1/2"
thick with extra heavy 1-1/8"
flat welded heads. Over 60,000
PSI tensile strength. All drum
screwed openings swaged for
extra heavy thickness.

Drum downcomer leg with
inspection cleanout openings
with blowoff valves at bottom,
both sides.

Premix blower/mixer

Heavy Steel Boiler frame for
setting on concrete floor



Steam valve

Safety valve

Tubes are furnished in
individual sections each
attached by two union
connections, are reversible
and slide through doors
30 HP - 3 sections
40 HP - 4 sections
50 HP - 5 sections

Easy to remove tube access
plugs on tube headers

Staggered tubes are
designed to flex for free
expansion and contraction

Extra heavy tubes are
1-5/16" OD, minimum
0.12"(11GA) heavy thickness
steel

Premix manifold
(bottom mounted shown)

10. Ease of Inspection and Repair

Any boiler may eventually require retubing depending on care and operating conditions. The Parker is designed with sectional tubes attached by unions so that sections can be easily and inexpensively replaced through the cabinet doors with minimum downtime. Retubing does not require special tools, skills or welding as is necessary on most boilers designed with rolled tubes.

11. Codes

All Boilers are built in accordance with the ASME Power & Heating Boiler Codes, Sections I & IV. Boilers above 15 PSI are furnished with the "S" Stamp and Trim. Boilers for 15 PSI are normally furnished with the "H" Stamp and Trim. All Boilers are inspected and registered with the National Board of Boiler and Pressure Vessel Inspectors. All individual gas and electrical controls are CSA Certified or UL Listed. All Low NO_x, outdoor, propane and natural gas fired models are ETL Listed as

"Industrial and Commercial Gas Fired Packaged Boilers" and certified to UL795.

All units are provided with trim and controls to meet ASME CSD-1 standards for "Controls & Safety Devices for Automatically Fired Boilers". In addition, all units also meet the standards of the International Conference of Building Officials, the International Association of Mechanical & Plumbing Officials and the Uniform Mechanical Code.

12. Even Heat Distribution

The burner bed provides a uniform heat distribution on all boiler tubes for improved heat transfer and boiler efficiency.

13. Low Maintenance, Simple Adjustment

The simplicity of the System with no FGR fan or valve, allows normal boiler operators to adjust and service the System.



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