PARKER ADVANTAGE SHEET
HORIZONTAL DRUM SECTIONAL WATER TUBE STEAM BOILERS
70 TO 150 H.P. ATMOSPHERIC OR PREMIX GAS, POWER GAS, OIL, AND COMBINATION GAS/OIL FIRED

1. **RELIABILITY**: The superior design and quality construction of the Parker Boiler assures the best available in reliable, trouble-free and long life service. Parker has manufactured dependable boiler products for over 75 years.

2. **SAFETY**: The heavy construction and all welded bent tube flexible design of the Parker provides the ultimate in safety available in a steam boiler.

3. **FAST HEAT-UP**: The boiler requires less than ten minutes to heat up to 100 PSI steam pressure from a cold start. This is a considerable time and fuel saver.

4. **SIMPLICITY**: The control system and entire boiler are furnished so that it is simple to operate by regular personnel and easy to repair without requiring special tools or skills. Simplicity is a decided advantage on atmospheric models as there are no expensive blowers, complicated controls, or burner adjustments, as necessary on many boilers.

5. **LOW COST OPERATION**: The staggered tubing design provides a 12-pass self-baffled heating surface with uniform heat distribution to permit maximum heat transfer resulting in lower stack temperatures and more economical operation.

6. **SECTIONAL TUBES**: Parker tubes are 1-5/16" O.D. Grade SA-53 steel heavy .133" thickness which is almost double that of standard gauge boiler tubing. Each tube is double welded to headers with high tensile weld metal by the inert gas process to assure full penetration and greater strength. Tubes are furnished in individual sections, each attached by two union connections for easy replacement. All sections are interchangeable and reversible. The bent tube design permits free expansion of each tube individually eliminating strain, warping and leaking, typical of rigid design.

7. **EASILY CLEANED**: The flexible design permits complete blowdowns from high pressure so that the drum, tubes and mud traps can be thoroughly flushed clean each day. Accessible inspection openings are provided in the drum, mud leg and on the headers at end of each tube for easy inspection. If necessary, internal cleaning can be accomplished effectively and economically with chemicals.

8. **HEAVY INSULATED CABINET - INTERNAL ACCESSIBILITY**: The sectional cabinet consists of two thicknesses of heavy 16-gauge steel, well insulated with a minimum 1-1/2" thick (2" thick on 150 H.P.) high temperature thermal fiber insulation. This reduces radiation loss to a minimum and protects against fire hazards. Cabinets are finished with an attractive baked enamel, heat resistant finish for long life protection. The two inspection doors on each end of the cabinet can easily be removed in minutes for complete accessibility to the internal boiler and burners.

9. **CONTROLS**: All Parker Boilers are furnished with first line quality automatic controls to assure safe and fully automatic operation. Each boiler has an enclosed boiler control panel, Parker-Lite Sequence Indicator System, flame safeguard with manual reset, electric ignition, operating pressure control and separate manual reset high limit, primary low water cutoff and dual pump controls with motor starting relays, separate secondary low water cutoff, dual fuel shutoff valves and variable rate firing. Gas fired models are furnished with a gas pressure regulator. All boilers are factory fire tested to meet the highest standards in all phases of mechanical and operating efficiencies before shipment.

10. **COMPACT - EASY TO INSTALL**: Parker Boilers are furnished fully assembled with electrical controls mounted and wired to the boiler control panel. Installation costs are held to a minimum since the boiler is furnished completely packaged with all trim and requires a minimum amount of valuable floor space.

11. **CODES:**

NATIONAL BOARD

All Boilers are built in accordance with the A.S.M.E. 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 AGA Certified or UL Listed. Power Gas, Oil and Combination Gas/Oil Fired Boilers are furnished with a UL Listed Burner.

The standard atmospheric natural gas fired model is furnished as an Underwriters' Laboratories, Inc. Listed Gas Fired Boiler Assembly and displays this symbol on the nameplate. Canadian and Low NOx models are C-ETL or ETL Listed Industrial and Commercial Gas Fired Packaged Boilers certified to Can1-3.1 and UL 795.

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