# PARKER INDUSTRIAL BOILER

## LOW NOX PREMIX TECHNOLOGY

# Industrial Packaged Bent Water Tube Steam Boilers with Heavy Duty Metal Fiber Burners

Gas Fired 70-150 HP - Models 70L-150L

Parker 115 HP

#### **ADVANTAGES**

The purchase of a Parker Boiler assures not only the ultimate in quality and safety but also a complete ready to install packaged unit, including trim with boiler controls, electrically wired, ready to connect to the utilities. Every boiler is thoroughly factory fired tested.

#### Safety

Our ASME tube bundle is extremely flexible and offers a long life with a 20 year warranty against thermal shock. No Parker Boiler has ever been known to experience an internal explosion.

#### **Low-Cost Operation**

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

#### 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.

#### **Large Heating Surface**

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

#### **Durability**

The heart of our Low NOx system is our metal fiber burner. It, as well as the entire boiler assembly, is constructed to withstand the harsh environment sometimes associated with boilers.

# Internal Accessability 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 inspection plugs are provided at both ends of every tube. Boiler inspections can be accomplished quickly and at low costs.

# 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.

#### **Low Emission**

**Extremely LOW** NOx & CO levels are attained by our Premix Burner System. NOx levels below 20 PPM at 3% O2 and CO levels below 100 PPM are easily obtained, assured & repeated in numerous applications. Optional 9 PPM units are available on certain models and applications.

#### Heavy Duty 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

assure a rugged connection.

#### **Dry Steam**

Our large horizontal steam drum provides ample steam release area to assure dry steam delivery. No steam separators are required.

#### 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 AGA Certified or UL Listed.

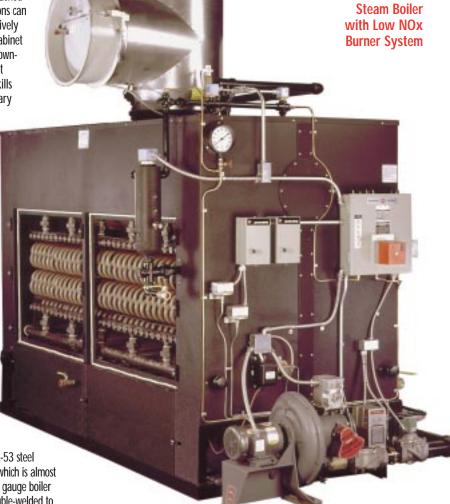
All Low NOx natural gas fired models are ETL Listed as "Industrial and Commercial Gas Fired Packaged Boilers" and certified to UL795. All units are provided with trim and controls to meet ASME CSD-1 standards for "Controls & Safety Devices for Auto-

matically 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.





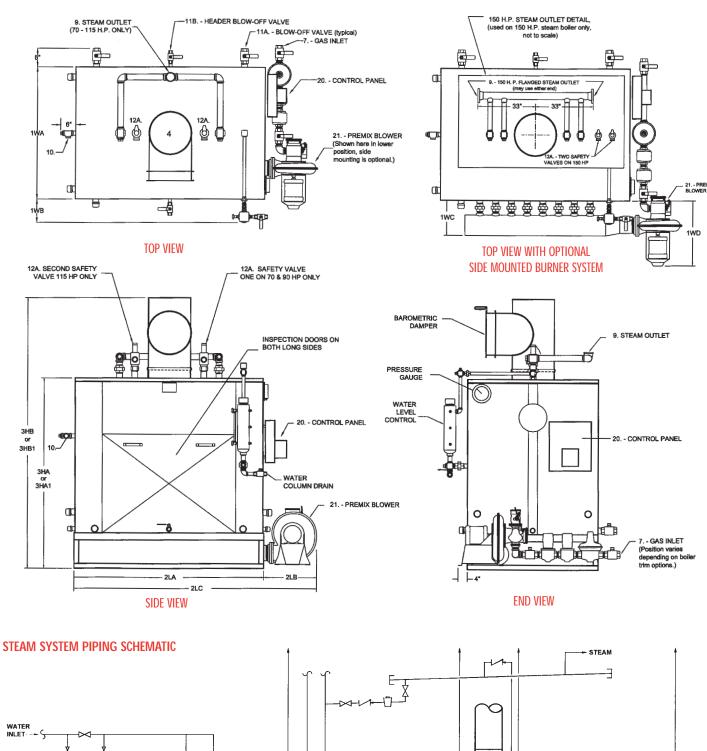


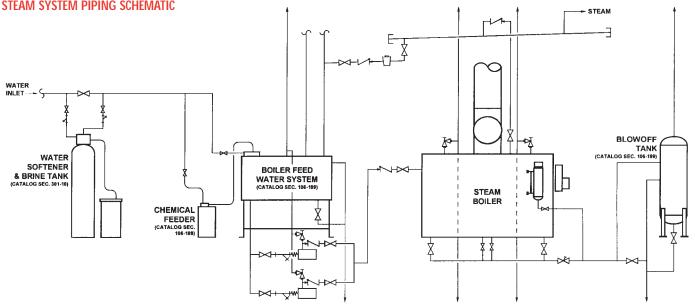




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#### PARKER 70-150 HP LOW NOX STEAM BOILERS - MODELS 70L-150L





#### PARKER STEAM BOILERS WITH PREMIX METAL FIBER BURNER SPECIFICATION SHEET

#### PARKER LOW NOx STEAM BOILERS Gas Fired 70-150 HP - Models 70L-150L

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9LP STEAM OUTLET  10 WATER INLET SIZ  11A BLOWOFF VALV  11B HEADER BLOW-  12A HP SAFETY VALVE D  12A LF SAFETY VALVE D  18 WATER COLUMN  F NET WEIGHT BO	,				1-1/2 2			2
10 WATER INLET SIZ 11A BLOWOFF VALV 11B HEADER BLOW- 12A HP SAFETY VALVE D 12A LF SAFETY VALVE D 18 WATER COLUMN F NET WEIGHT BC	SIZE HI PRESS. 60-	250 PSI		IN.	2-1/2		3	3 FLG
11A BLOWOFF VALV 11B HEADER BLOW- 12A HP SAFETY VALVE D 12A LF SAFETY VALVE D 18 WATER COLUMN F NET WEIGHT BC	SIZE LOW PRESS.	15 PSI OR LESS SPECIAL	ORDER	IN.	5 FLG 6 FLG			
11B HEADER BLOW- 12A HP SAFETY VALVE D 12A LF SAFETY VALVE D 18 WATER COLUMN F NET WEIGHT BC	ZE			IN.	1-1/2			
12A HP SAFETY VALVE D 12A LF SAFETY VALVE D 18 WATER COLUMN F NET WEIGHT BO	E SIZE ***			IN.	(2) 2			
12A LF SAFETY VALVE D  18 WATER COLUMN  F NET WEIGHT BC	OFF VALVE SIZES *	***		IN.	(2) 1			
18 WATER COLUMN F NET WEIGHT BO	RAIN SIZE - HIGH I	Press - 100 psi - Standari	D	OUTLET IN.	(1)2	(1)2	(2)2	(2)2
F NET WEIGHT BO	RAIN SIZE - HIGH I	Press - 15 PSI ("H" Stamp) S	SPECIAL ORDER	OUTLET IN.	(1)2-1/2	(1)2	(2)2	(2)2
	WATER COLUMN DRAIN SIZE IN.			IN.	1"			
	NET WEIGHT BOILER (APPROX)				5800	7000	8500	11000
G DOMESTIC CRA	DOMESTIC CRATED SHIPPING WEIGHT (APPROX)			LBS.	6200	7600	9300	12300
H WATER CONTEN	WATER CONTENT			GALLONS	105	125	149	250
20A POWER SPECIFIC	Cations (3 Separ	ATE SERVICES REQUIRED F	OR BLOWER & F					
STARTERS PROV	STARTERS PROVIDED ON PANEL FOR BLOWER & PUMPS							
20B BOILER FEED PU	MPS (2 STANDARD	)), HP, VOLTAGE & PHASE [	DEPENDS					
ON BOILER PRES	SSURE (See Parker	Spec. Sheet D-106-C)						
	CONTROLS 115V - 1PH - 60 HERTZ (TRANSFORMER PROVIDED) AMPS						5	
21 PREMIX BLOWER	R HORSEPOWER (3	3 PHASE)	НС	DRSEPOWER	1	1-1/2	2	3
MINIMI IN LISTED OLEADAN	VICES T	12"	48	) "		4.	<u></u>	
MINIMUM LISTED CLEARANCES TO COMBUSTIBLE CONSTRUCTION					12"			
	PLICTION	cabinet sides and rear	cabine	•	Baro Damper Chimney Connector moval); Controls 24"; Electrical Panel 30"			
Additional space may be re		an doore 10" (One increation	n door must be ?	o ioi lube [el	moval); CO	HII OIS 24";	Lieumical F	aner 30";

Note: All of the above dimensions are for a standard trim model. Due to continuous improvements, specifications are subject to change without notice.

 $<sup>^{\</sup>star}$   $\,$  All ratings based on feed water at 212  $^{\circ}\mathrm{F}$  and steam at 0 PSIG

 $<sup>^{\</sup>star\star}$  Barometric Damper "Tee on Run" option is available to lower overall height.

 $<sup>^{\</sup>star\star\star}$   $\,$  Pre-Piped to slow open blowoff valve connection if MAWP is over 100 PSI

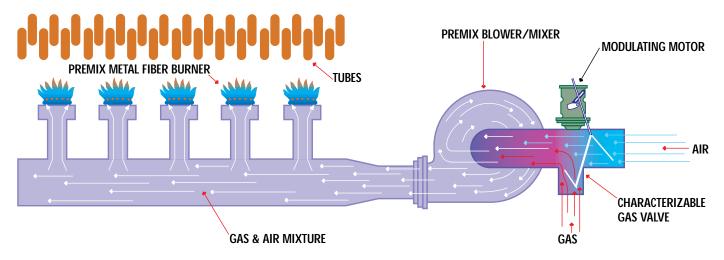
## LOW NOX PREMIX TECHNOLOGY

# Industrial Packaged Bent Water Tube Steam Boilers with Heavy Duty Metal Fiber Burners

Gas Fired 70-150 HP - Models 70L-150L



PARKER'S PREMIX COMBUSTION SYSTEM



#### **ADVANTAGES**

The Parker System consists of a burner bed of Heavy Duty Metal Fiber Burners (MFB). Through a gas/air premix manifold, the burners are linked to a fully modulating blower mixer which offers precise control of combustion through the full range of modulation.

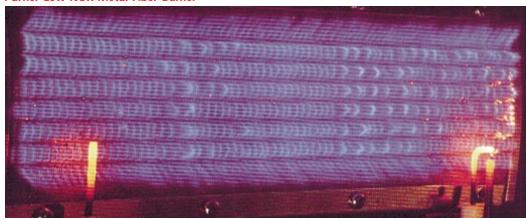
#### **Even Heat Distribution**

Unlike Conventional Power Burner Technology, the burner bed provides a uniform heat distribution on all boiler tubes for improved heat transfer and boiler efficiency. Uniform heat over the entire heating surface at high, low and modulating firing rates provides longer tube life by eliminating concentrated firing on limited tube surface.

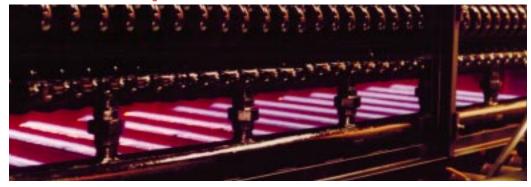
#### Low Maintenance, Simple Adjustment

The simplicity of the System with no FGR fan or valve, allows normal boiler operators to adjust and service the System. Allen screws provide simple precise adjustments through a characterizable fuel valve. Filters are not normally required.

#### **Parker Low NOx Metal Fiber Burner**



Parker Low NOx MFB Firing in a Parker 150 HP Steam Boiler



Pictured above is a view through one of the large inspection doors of our 150L model. You can see the Low NOx Metal fiber burners firing under our sectional tubes providing even heat distribution to the entire heating surface.



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