

**TRIM AND DESCRIPTION PARKER INDUSTRIAL STEAM BOILERS**  
**ATMOSPHERIC GAS FIRED 1-1/2 TO 150 HP - HIGH OR LOW PRESSURE STEAM**

MODEL	102-1.5	102-3	103-7	103-9.5	103-15	103-20	103-25	104-30	104-40	104-50	105-70	105-90	105-115	105-150
<b>BOILER &amp; ACCESSORIES</b>	1.5 HP	3 HP	7 HP	9.5 HP	15 HP	20 HP	25 HP	30 HP	40 HP	50 HP	70 HP	90 HP	115 HP	150 HP
Steam Boiler Group Trim	AB	AB	AB	AB	AB	AD	AD	AE	AE	AE	F	F	F	F
Return System Model	R1--	R1--	R3--	R3--	R3--	R4--	R4--	R5--	R6--	R6--	R7--	R8--	R9--	R9--
Kompact Mounting	Available 1-1/2 to 25 HP													
Blowdown Tank Model	BD1248	BD1248	BD1248	BD1248	BD1648	BD2048	BD2048	BD2048	BD2448	BD3048	BD3672	BD3672	BD3672	BD4272
Automatic Compound Feeder	Model ST15-115													
<b>SPECIFICATIONS</b>	Model ST30-115													
<b>STEAM OUTPUT</b>	LBS/HR	52	104	242	328	518	690	863	1035	1380	1725	2415	3105	3968
STEAM OUTPUT	15 PSI	1-1/4"	1-1/4"	1-1/2"	2"	2"	2"	2-1/2"	2-1/2"	3"	4" FLG	5" FLG	5" FLG	6" FLG
STEAM OUTPUT	Above 15 PSI	1/2"	1/2"	3/4"	1"	1"	1"	1-1/4"	1-1/4"	1-1/2"	2"	2-1/2"	2-1/2"	3"
BTU INPUT		65M	129M	301M	398M	645M	860M	1075M	1260M	1680M	2100M	2940M	3780M	4830M
GAS	STD. NATURAL GAS	3/4"	3/4"	3/4"	3/4"	1"	1-1/2"	1-1/2"	1-1/2"	2"	2"	2-1/2"	2-1/2"	3"
INLET	HI PRES. NG & PROPANE	3/4"	3/4"	3/4"	3/4"	3/4"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	1-1/2"	2"
VENT	DRAFT HOOD	5"	6"	8"	10"	12"	14"	14"	14"	16"	18"	NA	NA	NA
STACK	BAROMETRIC DAMPER	5"	5"	6"	8"	10"	10"	12"	12"	14"	16"	18"	20"	22"
STANDARD	15 PSI	115 Volt, 60 Hz, 1 Phase												
ELECTRICAL	16-125 PSI	115 Volt, 60 Hz, 1 Phase												
SERVICE	Above 125 PSI	230 Volt, 60 Hz, 3 Phase												
NATURAL GAS	15 PSI	TWO STAGE												
TYPE OF FIRING	16-200 PSI	OFF-ON												
PROPANE TYPE OF FIRING	Above 200 PSI	OFF-ON												
<b>SHIPPING WEIGHTS</b>		TWO STAGE												
Boiler		440#	515#	950#	1235#	1430#	1860#	2175#	3040#	3970#	4680#	6200#	7600#	9300#
Boiler & Return System		625#	700#	1240#	1525#	1720#	2215#	2530#	3560#	4510#	5220#	7050#	8540#	10550#
Boiler, Return System & BD Tank		805#	880#	1420#	1705#	1940#	2510#	2825#	3855#	4945#	5795#	7980#	9470#	11480#

**DESCRIPTION:** Parker Industrial Packaged Gas Fired Steam Boiler. Bent water tube design with 1-5/16" O.D. steel tubes welded to headers for pressures up to 250 PSI. Assembled in heavy steel insulated cabinet with controls mounted and wired. Each unit factory fire tested. Recommended for all applications requiring high or low pressure steam. For specifications and dimensions, see Specification Sheets D-102-105-1.

**WORKING PRESSURE:** All sizes are standardly furnished with 100 PSI MAWP stamped pressure and the safety valve set 100 PSI (for operation up to 90 PSI maximum). All models are available for higher pressures at additional charge with safety valve settings of 125 PSI (112 PSI operation), 150 PSI (135 PSI operation), 200 PSI (180 PSI operation) and 240 PSI (216 PSI operation). All models are available with safety valve setting of 15 PSI (11 PSI operation) which includes a larger steam outlet (steam valve is not furnished), larger safety valve and "H" Heating Boiler Stamp in place of "S" Stamp.

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<b><u>CODES:</u></b>	All models are built in accordance with the ASME Power Boiler Code and registered with the National Board of Boiler and Pressure Vessel Inspectors. 15 PSI boilers are stamped "H" in accordance with the ASME Heating Boiler Code. The Standard Natural Gas Fired Model is listed by Underwriters Laboratories, Inc., and displays the Listing Label as a complete Gas Fired Boiler Assembly. All Controls and trim are in compliance with UL Standard 795.
<b><u>GROUP TRIM:</u></b>	
<b><u>Trim STD:</u></b>	Standard all Sizes: Safety valve, pressure gage, water gage fixtures, column drain valve, steam valve (except 15 PSI), water feed stop and check valve, main line blow-off valve, operating pressure control and separate manual reset high limit, two main gas cocks, gas pressure regulator, primary and secondary electric gas valves, 100% electronic flame safety with electric ignition and manual reset, separate manual reset secondary probe type low water cutoff and boiler control panel. All boilers (except 15 PSI) include the ASME Code boiler external piping (BEP). Boilers with MAWP over 100 PSI include a slow opening blow off valve mounted with forged steel fittings and schedule 80 pipe.
<b><u>Trim A:</u></b>	<u>Standard 1-1/2 to 50 HP:</u> Draft Hood, and motor starting relay. Warrick P3 probe type primary low water cutoff and pump control. Off-on or variable rate firing on Natural Gas as shown on front.
<b><u>Trim B:</u></b>	<u>Standard 1-1/2 to 15 HP:</u> Honeywell S8610H Intermittent Pilot Module instant response with electric ignition. Combination gas control (main and pilot gas cock; primary and secondary electric gas valves; and gas pressure regulator).
<b><u>Trim D:</u></b>	<u>Standard 20 to 25 HP:</u> Control transformer (except 15 PSI). Electronic flame safeguard (Fireye ME Series or Honeywell RM7890) instant response with electric ignition and intermittent pilot.
<b><u>Trim E:</u></b>	<u>Standard 30 to 50 HP:</u> Same as Trim D except two blow-off valves, primary positive close motorized electric gas valve, and Parker-Lite 5-Light Sequence Indicator System.
<b><u>Trim F:</u></b>	<u>Standard 70 to 150 HP:</u> Barometric damper with flue gas spillage switch, two main blow-off valves and two header blow-off valves. Warrick P4 probe type primary low water cutoff and dual pump control for two pumps, motor starting relays, control transformer (except 15 PSI), safety lockout and low water horn, high and low gas pressure switches, primary positive close motorized electric gas valve (proof-of-closure switch on 150 HP only), butterfly valve and modulating control on Natural Gas, Fireye MEP560 Series or Honeywell RM7895C electronic flame safeguard, instant response with electric ignition and interrupted pilot, and Parker-Lite 5-Light Sequence Indication System.
<b><u>CALIFORNIA CODE TRIM:</u></b>	1- 1/2 to 9.5 HP above 100 PSI, require high and low water alarm. 15 HP and larger above 15 PSI, require high and low water alarm.
<b><u>FUEL:</u></b>	
<b><u>Natural Gas:</u></b>	Burners standard for natural gas 950 to 1150 BTU content. Boiler rated at 4" W.C. gas pressure at burner. Required gas pressure at inlet: Boilers 1-1/2 to 90 HP: Minimum: 7" W.C.; Maximum: 14" W.C. (1/2 PSI). Boilers 115 to 150 HP: Minimum: 10" W.C.; Maximum: 14" W.C. (1/2 PSI). For lower inlet pressures, consult Factory. Higher pressures require additional high gas pressure trim.
<b><u>Propane Gas:</u></b>	Propane Gas Fired Boilers are ETL Listed and the controls and trim are in compliance with UL Standard 795. They require higher gas pressure and additional charge. All boilers are rated for 18" W.C. gas pressure at burner. Burners are furnished for Propane Gas 2500 to 3200 BTU Content. Required gas pressure at inlet on all sizes: Minimum 1 PSI; Maximum: 5 PSI. See front for Propane Type of Firing.
<b><u>NOTE:</u></b>	Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.