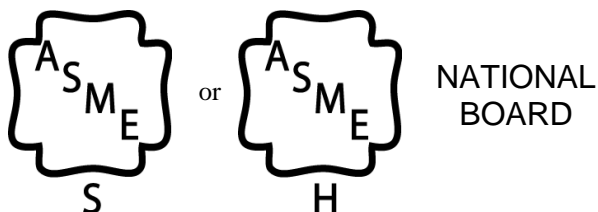


PARKER ADVANTAGE SHEET
HORIZONTAL DRUM WATER TUBE STEAM BOILERS
7 TO 25 H.P. ATMOSPHERIC OR PREMIX GAS FIRED

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 seven 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, 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 an 8-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. 0.12" (11-gauge) heavy 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 two individual sections, each attached by two union connections for easy replacement. 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 blow offs 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 1-1/2" thick, 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, and 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, flame safeguard with manual reset, operating pressure control and separate manual reset high limit, gas pressure regulator, dual electric gas valves, variable rate firing control on natural gas, primary low water cutoff and pump control with motor starting relay and separate secondary low water cutoff. 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:** 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. The "KOMPACT MODEL" is available at small additional charge to provide a fully packaged boiler with return system durably mounted to boiler frame. This assures a properly piped and electrically wired system - ready to install at considerable savings.

11. **CODES:**



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 A.S.M.E. certification mark with an "S" designator and Trim. Boilers for 15 PSI are normally furnished with the A.S.M.E. certification mark with an "H" designator 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.

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.



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 |
|---------------------------------|-----------------------|--------------------------|-------------|-------------|---------------|--------------|--------------------------|--------------|----------------------------|--------------|--------------|------------------------------|--------------|---------------|---------------|
| BOILER & ACCESSORIES | | 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 | | | | | | | Not Available 30 to 150 HP | | | | | | |
| Blowdown Tank Model | | BD1248 | BD1248 | BD1248 | BD1248 | BD1648 | BD2048 | BD2048 | BD2048 | BD2448 | BD3048 | BD3672 | BD3672 | BD3672 | BD4272 |
| Automatic Compound Feeder | | Model ST15-115 | | | | | | | | | | Model ST30-115 | | | |
| SPECIFICATIONS | | | | | | | | | | | | | | | |
| STEAM OUTPUT LBS/HR | | 52 | 104 | 242 | 328 | 518 | 690 | 863 | 1035 | 1380 | 1725 | 2415 | 3105 | 3968 | 5175 |
| STEAM OUTLET | 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 | 6" FLG |
| | 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" | 3" |
| BTU INPUT | | 65M | 129M | 301M | 398M | 645M | 860M | 1075M | 1260M | 1680M | 2100M | 2940M | 3780M | 4830M | 6300M |
| GAS INLET | STD. NATURAL GAS | 3/4" | 3/4" | 3/4" | 3/4" | 1" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | 2" | 2" | 2-1/2" | 3" | 3" |
| | 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" | 2" |
| VENT STACK | DRAFT HOOD | 5" | 6" | 8" | 10" | 12" | 14" | 14" | 14" | 16" | 18" | NA | NA | NA | NA |
| | BAROMETRIC DAMPER | 5" | 5" | 6" | 8" | 10" | 10" | 12" | 12" | 14" | 16" | 18" | 20" | 22" | 26" |
| STANDARD ELECTRICAL SERVICE | 15 PSI | 115 Volt, 60 Hz, 1 Phase | | | | | | | | | | Two 115 Volt, 60 Hz, 1 Phase | | | |
| | 16-125 PSI | 115 Volt, 60 Hz, 1 Phase | | | | | 230 Volt, 60 Hz, 3 Phase | | | | | Two 230 Volt, 60 Hz, 3 Phase | | | |
| | Above 125 PSI | 230 Volt, 60 Hz, 3 Phase | | | | | | | | | | Two 230 Volt, 60 Hz, 3 Phase | | | |
| NATURAL GAS TYPE OF FIRING | 15 PSI | OFF-ON | | | | | TWO STAGE | | | | | MODULATION | | | |
| | 16-200 PSI | OFF-ON | | | | | TWO STAGE | | | | | MODULATION | | | |
| | Above 200 PSI | TWO STAGE | | | | | | | | | | MODULATION | | | |
| PROPANE TYPE OF FIRING | | OFF-ON | | | | | TWO STAGE | | | | | | | | |
| SHIPPING WEIGHTS | | | | | | | | | | | | | | | |
| Boiler | | 440# | 515# | 950# | 1235# | 1430# | 1860# | 2175# | 3040# | 3970# | 4680# | 6200# | 7600# | 9300# | 12300# |
| Boiler & Return System | | 625# | 700# | 1240# | 1525# | 1720# | 2215# | 2530# | 3560# | 4510# | 5220# | 7050# | 8540# | 10550# | 13550# |
| Boiler, Return System & BD Tank | | 805# | 880# | 1420# | 1705# | 1940# | 2510# | 2825# | 3855# | 4945# | 5795# | 7980# | 9470# | 11480# | 14645# |

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-I.

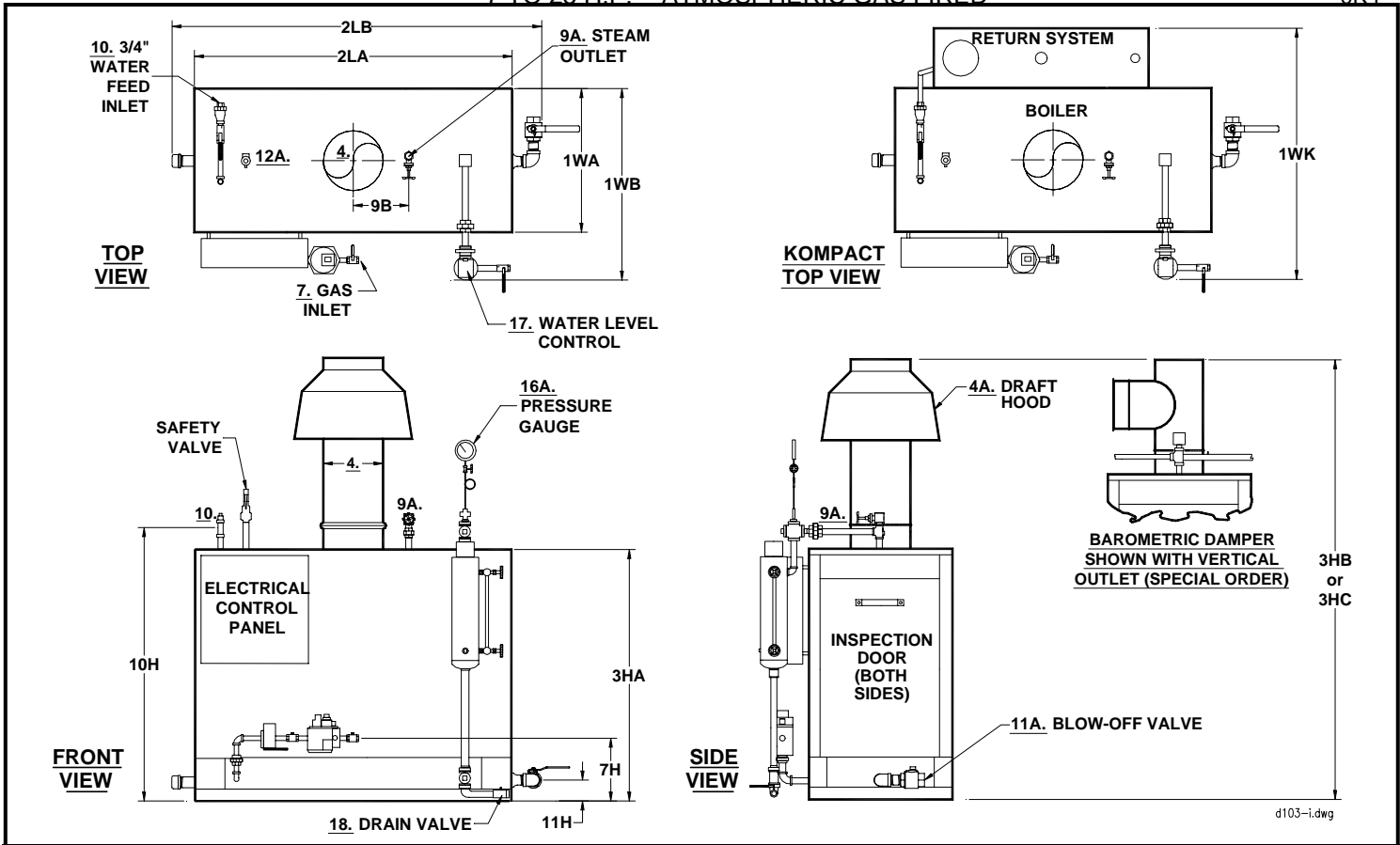
WORKING PRESSURE: All sizes are standardly furnished with 100 PSI MAWP stamped pressure and the safety valve set 100 PSI (for operation up to 90 PSI maximum). All models are available for higher pressures at additional charge with safety valve settings of 125 PSI (112 PSI operation), 150 PSI (135 PSI 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.

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

| | |
|------------------------------|--|
| CODES: | 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 Underwriter's Laboratories, Inc., and displays the Listing Label as a <u>complete Gas Fired Boiler Assembly</u> . All Controls and trim are in compliance with UL Standard 795. |
| GROUP TRIM: | |
| Trim STD: | <u>Standard all Sizes:</u> 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. |
| Trim A: | <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. |
| Trim 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). |
| Trim D: | <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. |
| Trim E: | <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. |
| Trim F: | <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. |
| CALIFORNIA CODE TRIM: | 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. |
| FUEL: | |
| Natural Gas: | 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. |
| Propane Gas: | 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. |
| NOTE: | 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. |

PARKER INDUSTRIAL HORIZONTAL DRUM STEAM BOILER
7 TO 25 H.P. - ATMOSPHERIC GAS FIRED

SPEC. SHEET D-103-I
OK4



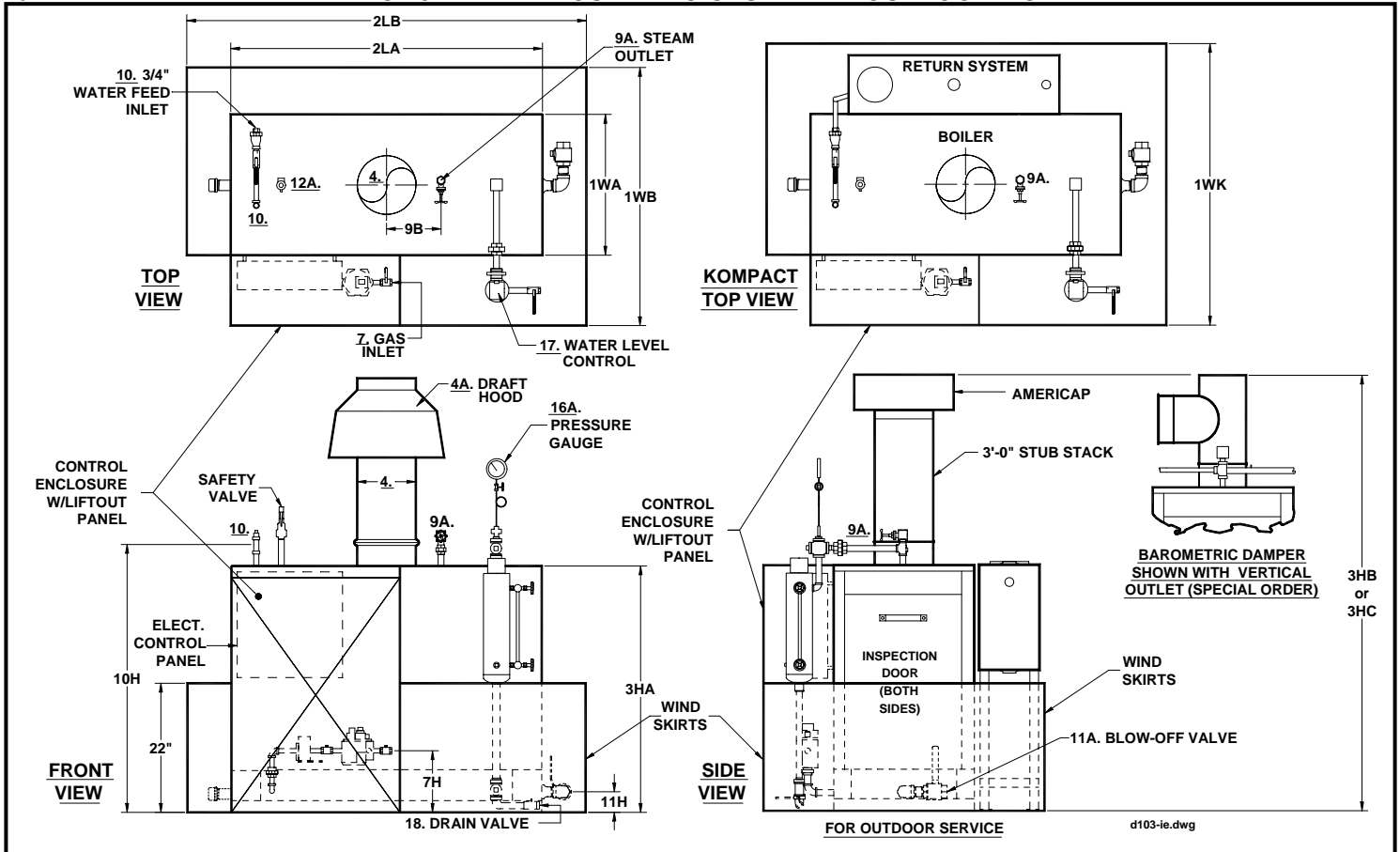
| | | MODEL NO. | 103-7 | 103-9.5 | 103-15 | 103-20 | 103-25 |
|--------|--|----------------|-------|---------|--------|--------|---------|
| | | HORSEPOWER | 7 HP | 9.5 HP* | 15 HP | 20 HP | 25 HP** |
| A | BTU Input | 1000's BTU/HR. | 301 | 398 | 645 | 860 | 1075 |
| B | BTU Output at rating from and at 212°F | 1000's BTU/HR. | 241 | 318 | 516 | 688 | 860 |
| C | Heating Surface | SQ. FT. | 47 | 68 | 82.5 | 106 | 132 |
| D | Rated Steaming Capacity from and at 212°F | LBS./HR. | 242 | 328 | 518 | 690 | 863 |
| 1WA | Width Cabinet Only | IN. | 21 | 24 | 27 | 30 | 36 |
| 1WB | Width Overall Including Controls | IN. | 30 | 34 | 38 | 41 | 47 |
| 1WK | Width Parker Kompact - Boiler With Return System | IN. | 40 | 44 | 48 | 54 | 60 |
| 2LA | Length of Cabinet Only | IN. | 42 | 53 | 53 | 61 | 62 |
| 2LB | Length Overall Including Blow-Off Valve | IN. | 50 | 61 | 61 | 70 | 71 |
| 3HA | Height of Cabinet Only | IN. | 42 | 42 | 42 | 46 | 46 |
| 3HB | Height Overall Including Draft Hood - (Standard) | IN. | 72 | 74 | 76 | 82 | 82 |
| 3HC | Height Overall Including Barometric Damper (Vert. Outlet/Horizont. Outlet)-(Spec. Order) | IN. | 58/55 | 61/59 | 64/61 | 68/65 | 72/68 |
| 4A | Vent Stack Diameter with Draft Hood - (Standard) | IN. | 8 | 10 | 12 | 14 | 14 |
| 4B | Vent Stack Diameter with Barometric Damper - (Special Order) | IN. | 6 | 8 | 10 | 10 | 12 |
| 7A | Gas Inlet Size - Standard Nat. Gas/ Supply Press. Min: 7" WC; Max: 14" WC | IN. | 3/4 | 3/4 | 1 | 1-1/2 | 1-1/2 |
| 7A1 | Natural Gas Manifold Pressure at Burner | IN. WC | 4 | 4 | 4 | 4 | 4 |
| 7B | Gas Inlet Size - High Press. Nat. Gas & Propane Gas / Supply Press. 1-5 PSI | IN. | 3/4 | 3/4 | 3/4 | 1-1/2 | 1-1/2 |
| 7B1 | Propane Gas Manifold Pressure at Burner | IN. WC | 18 | 18 | 18 | 18 | 18 |
| 7H | Gas Inlet Height From Floor | IN. | 11 | 11 | 12 | 13 | 13 |
| 9A HP | Steam Valve Size - High Pressure 60 to 250 PSI | IN. | 3/4 | 1 | 1 | 1 | 1-1/4 |
| 9 LP | Steam Outlet Size - Low Pressure 15 PSI or less - (Special Order) | IN. | 1-1/2 | 2 | 2 | 2 | 2-1/2 |
| 9B | Steam Outlet Location - From Center of Boiler | IN. | 7 | 9 | 9 | 12 | 12 |
| 10H | Water Inlet Height From Floor | IN. | 45 | 45 | 45 | 50 | 50 |
| 11A | Blow-off Valve Size | IN. | 1 | 1 | 1 | 1-1/4 | 1-1/4 |
| 11H | Blowdown Line Height From Floor | IN. | 3 | 3 | 3 | 3 | 3 |
| 12A HP | Safety Valve Drain Size - High Pressure - 100 PSI - Standard | OUTLET IN. | 1 | 1 | 1 | 1-1/4 | 1-1/4 |
| 12A LP | Safety Valve Drain Size - Low Pressure - 15 PSI ("H" Code)- (Special Order) | OUTLET IN. | 3/4 | 1-1/2 | 1-1/2 | 1-1/2 | 2 |
| 18 | Water Column Drain Valve Size | IN. | 3/4 | 3/4 | 3/4 | 1 | 1 |
| J | Net Weight Of Boiler | LBS. | 805 | 1080 | 1270 | 1680 | 1945 |
| K | Domestic Crated Shipping Weight of Boiler | LBS. | 950 | 1235 | 1430 | 1860 | 2175 |
| L | Same with Return System or Kompact Mounting | LBS. | 1240 | 1525 | 1720 | 2215 | 2530 |

| | | | | |
|--|----------------------|-------------|---------------------------|--------------------------------|
| MINIMUM LISTED CLEARANCES TO COMBUSTIBLE CONSTRUCTION: | 12" | 48" | 6" | 12" |
| | Cabinet Sides & Rear | Cabinet Top | Draft Hood Vent Connector | Baro. Damper Chimney Connector |

Recommended Clearances for Access: Inspection Doors 18"; Controls 24"; Electrical Panel 30"; Additional Space may be required by Local Codes

*10 H.P. available with same dimensions as 9.5 H.P. except: 430MBTU/Input; 344MBTU/Output, 340 Lbs./Hr., 1" Low Pressure Nat. Gas Inlet Size.
 **23 H.P. available with same dimensions as 25 H.P. except: 995MBTU/Input; 796MBTU/Output; 793 Lbs./Hr.
 Notes: All of the above dimensions are for a standard trim model. Due to continuous improvement, specifications are subject to change without notice.

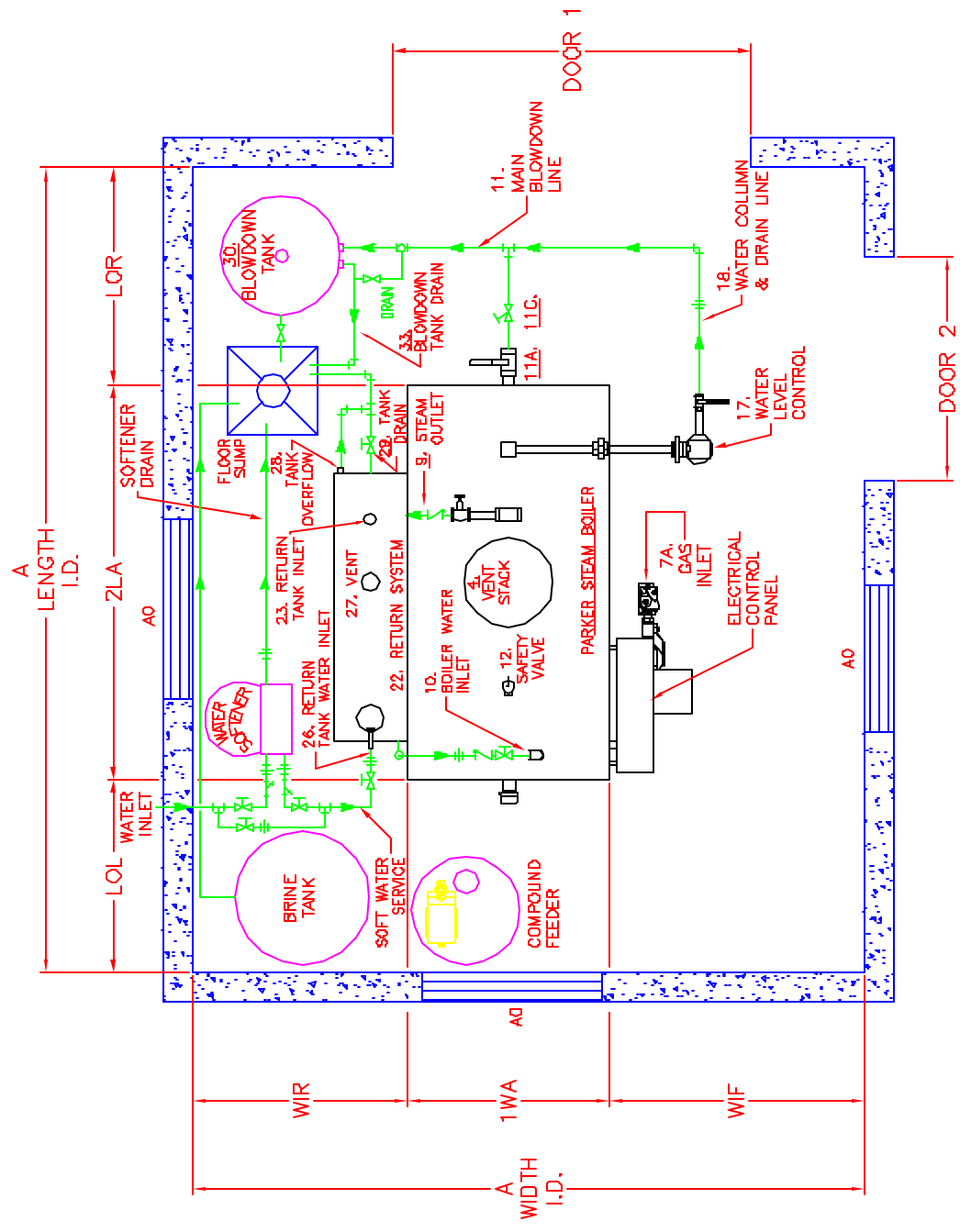
PARKER INDUSTRIAL HORIZONTAL DRUM STEAM BOILER
7 TO 25 H.P. – ATMOSPHERIC GAS FIRED - OUTDOOR MODEL



| | | MODEL NO. | 103-7 | 103-9.5 | 103-15 | 103-20 | 103-25 |
|--|--|----------------------|-------------|---------------------------|--------------------------------|--------|---------|
| NO. | | HORSEPOWER | 7 HP | 9.5 HP* | 15 HP | 20 HP | 25 HP** |
| A | BTU Input | 1000's BTU/HR. | 301 | 398 | 645 | 860 | 1075 |
| B | BTU Output at rating from and at 212°F | 1000's BTU/HR. | 241 | 318 | 516 | 688 | 860 |
| C | Heating Surface | SQ. FT. | 47 | 68 | 82.5 | 106 | 132 |
| D | Rated Steaming Capacity from and at 212°F | LBS./HR. | 242 | 328 | 518 | 690 | 863 |
| 1WA | Width Cabinet Only | IN. | 21 | 24 | 27 | 30 | 36 |
| 1WB | Width Overall Including Wind Skirts | IN. | 41 | 44 | 47 | 50 | 56 |
| 1WK | Width Parker Kompact - (Boiler With Return System) Including Wind Skirts | IN. | 45 | 48 | 51 | 57 | 63 |
| 2LA | Length of Cabinet Only | IN. | 42 | 53 | 53 | 61 | 62 |
| 2LB | Length Overall Including Wind Skirts | IN. | 57 | 68 | 69 | 76 | 78 |
| 3HA | Height of Cabinet Only | IN. | 42 | 42 | 42 | 46 | 46 |
| 3HB | Height Overall Including Draft Hood - (Std.)/ 3'0" Stub Stack & Americap (approx.) | IN. | 72/89 | 74/91 | 76/93 | 82/100 | 82/100 |
| 3HC | Height Overall Including Barometric Damper (Vert. Outlet/Horizont. Outlet)-(Spec. Order) | IN. | 58/55 | 61/59 | 64/61 | 68/65 | 72/68 |
| 4A | Vent Stack Diameter with Draft Hood - (Standard) | IN. | 8 | 10 | 12 | 14 | 14 |
| 4B | Vent Stack Diameter with Barometric Damper - (Special Order) | IN. | 6 | 8 | 10 | 10 | 12 |
| 7A | Gas Inlet Size - Standard Nat. Gas/ Supply Press. Min: 7" WC; Max: 14" WC | IN. | 3/4 | 3/4 | 1 | 1-1/2 | 1-1/2 |
| 7A1 | Natural Gas Manifold Pressure at Burner | IN. WC | 4 | 4 | 4 | 4 | 4 |
| 7B | Gas Inlet Size - High Press. Nat. Gas & Propane Gas / Supply Press. 1-5 PSI | IN. | 3/4 | 3/4 | 3/4 | 1-1/2 | 1-1/2 |
| 7B1 | Propane Gas Manifold Pressure at Burner | IN. WC | 18 | 18 | 18 | 18 | 18 |
| 7H | Gas Inlet Height From Floor | IN. | 11 | 11 | 12 | 13 | 13 |
| 9A HP | Steam Valve Size - High Pressure 60 to 250 PSI | IN. | 3/4 | 1 | 1 | 1 | 1-1/4 |
| 9 LP | Steam Outlet Size - Low Pressure 15 PSI or less - (Special Order) | IN. | 1-1/2 | 2 | 2 | 2 | 2-1/2 |
| 9B | Steam Outlet Location - From Center of Boiler | IN. | 7 | 9 | 9 | 12 | 12 |
| 10H | Water Inlet Height From Floor | IN. | 45 | 45 | 45 | 50 | 50 |
| 11A | Blow-off Valve Size | IN. | 1 | 1 | 1 | 1-1/4 | 1-1/4 |
| 11H | Blowdown Line Height From Floor | IN. | 3 | 3 | 3 | 3 | 3 |
| 12A HP | Safety Valve Drain Size - High Pressure - 100 PSI - Standard | OUTLET IN. | 1 | 1 | 1 | 1-1/4 | 1-1/4 |
| 12A LP | Safety Valve Drain Size - Low Pressure - 15 PSI ("H" Code)- (Special Order) | OUTLET IN. | 3/4 | 1-1/2 | 1-1/2 | 1-1/2 | 2 |
| 18 | Water Column Drain Valve Size | IN. | 3/4 | 3/4 | 3/4 | 1 | 1 |
| J | Net Weight Of Boiler | LBS. | 910 | 1205 | 1400 | 1820 | 2095 |
| K | Domestic Crated Shipping Weight of Boiler | LBS. | 1055 | 1360 | 1555 | 2000 | 2325 |
| L | Same with Return System or Kompact Mounting | LBS. | 1350 | 1650 | 1850 | 2360 | 2865 |
| MINIMUM LISTED CLEARANCES TO COMBUSTIBLE CONSTRUCTION: | | 12" | 48" | 6" | 12" | | |
| | | Cabinet Sides & Rear | Cabinet Top | Draft Hood Vent Connector | Baro. Damper Chimney Connector | | |
| Recommended Clearances for Access: Inspection Doors 18"; Controls 24"; Electrical Panel 30"; Additional Space may be required by Local Codes | | | | | | | |

*10 H.P. available with same dimensions as 9.5 H.P. except: 430MBTU/Input; 344MBTU/Output, 340 Lbs./Hr., 1" Low Pressure Nat. Gas Inlet Size
 **23 H.P. available with same dimensions as 25 H.P. except: 995MBTU/Input; 796MBTU/Output; 793 Lbs./Hr.
 Notes: All of the above dimensions are for a standard trim model. Due to continuous improvement, specifications are subject to change without notice.

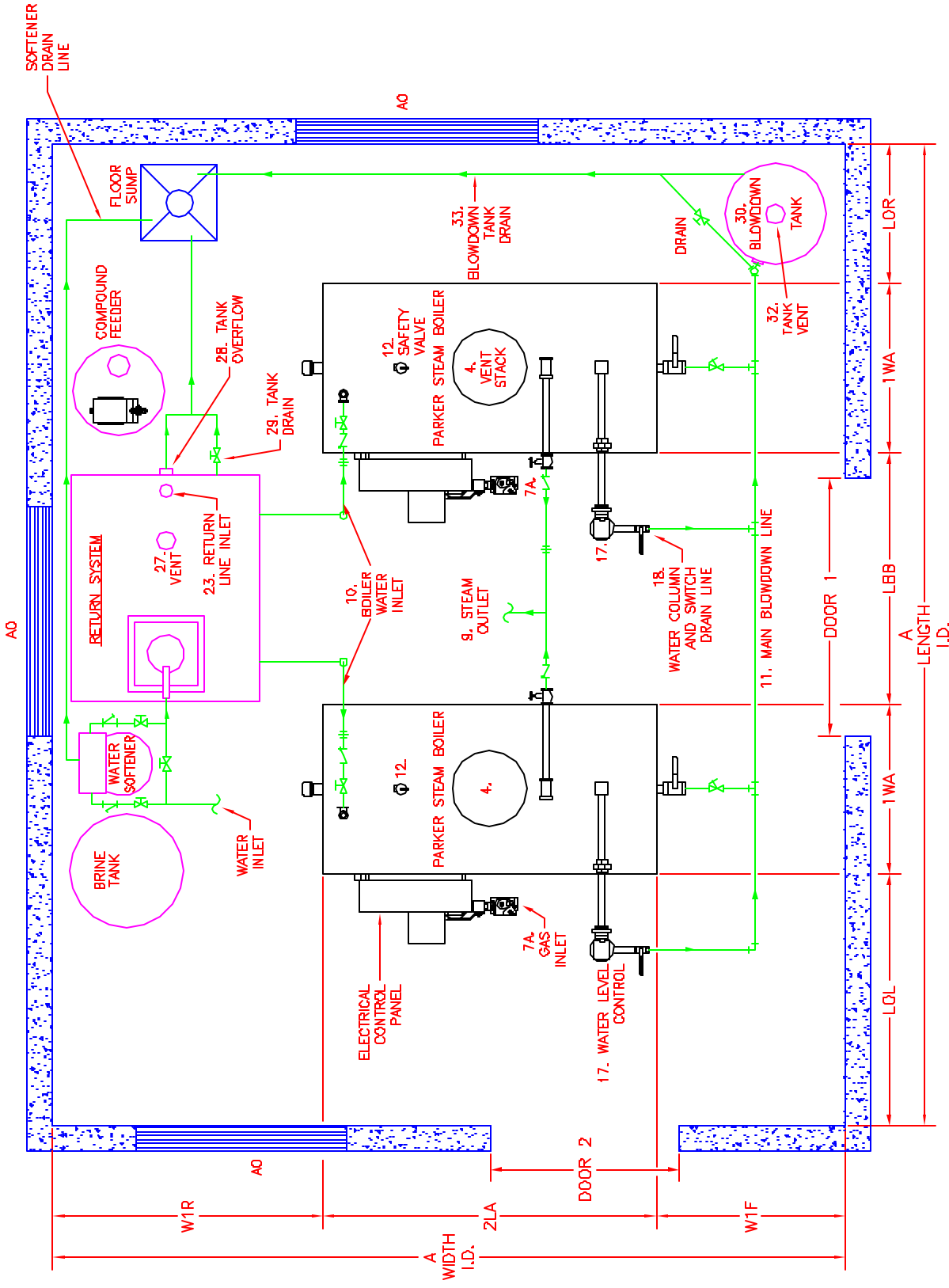
7 TO 25 H.P. PARKER INDUSTRIAL HORIZONTAL DRUM STEAM BOILER



NOTE:
FOR DIMENSIONS AND LINE SIZES SEE
BOILER ROOM FLOOR PLAN SPEC. SHEET.

| | | | |
|----------------------|--|--|--------------|
| USED ON 7 TO 25 H.P. | | PART NAME BOILER ROOM FLOOR PLAN | |
| FOR | PARKER INDUSTRIAL HORIZONTAL DRUM STEAM BOILER | | |
| DATE | DATE | SCALE | NONE |
| RPC | 9C | DRAWINGS | NONE |
| CH | | FILE DESIGNATION | 103BFRP1.DWG |
| APPROVED | | DRAW. NO. | 103 BFRP 1 |
| DATE | 8/79 | PARKER BOILER CO. 5930 BANDINI BLVD. LOS ANGELES, CA 90040 | |

BOILER ROOM FLOOR PLAN DRAWING DUAL 7 TO 25 HP PARKER INDUSTRIAL HORIZONTAL DRUM STEAM BOILERS



NOTE:
FOR DIMENSIONS AND LINE SIZES SEE
BOILER ROOM FLOOR PLAN SPEC. SHEET

| | | | |
|---------------------|---|-------------------------------|-------------|
| PROJ 017 TO 25 H.P. | | PARKER BOILER ROOM FLOOR PLAN | |
| NO. | DUAL PARKER INDUSTRIAL HORIZONTAL DRUM STEAM BOILER | SCALE | NONE |
| BY | BC | REVISION | NONE |
| APPROVED | | FILE NUMBER | BO01721.PIC |
| SUBSHEET NO. | 8/78 | REV. NO. | 03 BTRP 2 |
| PARKER BOILER CO. | | 5950 BANDING BLVD. | |
| | | LOS ANGELES, CA 90040 | |

**PARKER BOILER CO.
BOILER ROOM FLOOR PLAN SPECIFICATION SHEET
HORIZONTAL DRUM GAS FIRED STEAM BOILER 7-25 H.P.**

| (IA) RECOMMENDED BOILER ROOM SIZE, SINGLE BOILER, ATMOSPHERIC GAS FIRED: | | | | | | | | | |
|---|---|------------------|------------------|----------------------|-----------------|--------------------|--|--|--|
| NO. | ITEM | 7 H.P. | 9.5 H.P. **** | 15 H.P. | 20 H.P. | 25 H.P. | | | |
| A | Boiler Room Size (Recommended I.D. Width x Length x Height) | 7' x 8' x 9-1/2' | 7' x 9' x 9-1/2' | 7-1/2' x 9' x 9-1/2' | 8' x 10' x 10' | 8-1/2' x 10' x 10' | | | |
| D1 | Door No. 1 (Width x Height) | 3-1/2' x 7' | 4' x 7' | 4' x 7' | 4-1/2' x 7' | 5' x 7' | | | |
| D2 | Door No. 2 (Width x Height) | 2-1/2' x 7' | 2-1/2' x 7' | 2-1/2' x 7' | 2-1/2' x 7' | 2-1/2' x 7' | | | |
| AO * | Air Openings - Total Free Area | 301 sq. in. * | 398 sq. in. * | 645 sq. in. * | 860 sq. in. * | 1075 sq. in. * | | | |
| WIF | Width in Front | 39" | 36" | 40" | 40" | 40" | | | |
| IWA | Width Boiler Cabinet | 21" | 24" | 27" | 30" | 36" | | | |
| WIR | Width in Rear | 24" | 24" | 23" | 26" | 26" | | | |
| LOL | Length on Left | 24" | 24" | 24" | 26" | 26" | | | |
| 2LA | Length Boiler Cabinet | 42" | 53" | 53" | 61" | 62" | | | |
| LOR | Length on Right | 30" | 31" | 31" | 33" | 32" | | | |
| 3HA | Cabinet Height | 42" | 42" | 42" | 46" | 46" | | | |
| 4A | Vent Stack Diameter with Draft Hood (Standard) | 8" | 10" | 12" | 14" | 14" | | | |
| 4B | Chimney Stack Diameter with Barometric Damper (Special Order) | 6" | 8" | 10" | 10" | 12" | | | |
| 7A | Gas Inlet Size - Standard Natural Gas | 3/4" | 3/4" | 1" | 1-1/2" | 1-1/2" | | | |
| 7B | Gas Inlet Size - High Pressure Natural Gas and LPG Gas | 3/4" | 3/4" | 3/4" | 1-1/2" | 1-1/2" | | | |
| 7C | B.T.U./HR. | 301,000 | 398,000 | 645,000 | 860,000 | 1,075,000 | | | |
| 9A HP | Steam Outlet Size - High Pressure | 3/4" | 1" | 1" | 1" | 1-1/4" | | | |
| 9 LP | Steam Outlet Size - Low Pressure | 1-1/2" | 2" | 2" | 2" | 2-1/2" | | | |
| 10 | Water Inlet Pipe Size to Boiler | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" | | | |
| 11 | Main Blowdown Line Size | 1" | 1" | 1" | 1-1/4" | 1-1/4" | | | |
| 12A HP | Safety Valve Drain Size (100 PSI) | 1" | 1" | 1" | 1-1/4" | 1-1/4" | | | |
| 12A LP | Safety Valve Drain Size (15 PSI) | 3/4" | 1-1/2" | 1-1/2" | 1-1/2" | 2" | | | |
| 18 | Water Column Drain Size | 3/4" | 3/4" | 3/4" | 1" | 1" | | | |
| 22 | Return Tank Size (Width x Length x Height) | 10" x 36" x 42" | 10" x 36" x 42" | 10" x 36" x 42" | 13" x 36" x 46" | 13" x 36" x 46" | | | |
| 23 ** | Return Line Inlet Size | 1-1/4" ** | 1-1/4" ** | 1-1/2" ** | 1-1/2" ** | 1-1/2" ** | | | |
| 26 | Return Tank Water Inlet Line Size | 1/2" | 1/2" | 3/4" | 3/4" | 3/4" | | | |
| 27A | Return Tank Vent Size Required | 1" | 1" | 1-1/4" | 1-1/4" | 1-1/4" | | | |
| 27B | Return Tank Vent with Dry Cleaning Steam Vacuum | 3" | 3" | 3" | 3" | 3" | | | |
| 28 | Return Tank Overflow | 1" | 1" | 1" | 1" | 1" | | | |
| 29 | Return Tank Drain Line Size | 3/4" | 3/4" | 1" | 1" | 1" | | | |
| 30 | Blowdown Tank Size (Diameter x Height) | 12" x 66" | 12" x 66" | 16" x 68" | 20" x 71" | 20" x 71" | | | |
| 32 | Blowdown Tank Vent Outlet Size | 2-1/2" | 2-1/2" | 2-1/2" | 3" | 3" | | | |
| 32L *** | Minimum Reduced Vent Line Size for up to 150 PSI | 2" *** | 2" *** | 2" *** | 2-1/2" *** | 2-1/2" *** | | | |
| 33 | Blowdown Tank Drain Line Size | 1" | 1" | 1" | 1-1/4" | 1-1/4" | | | |
| FS | Recommended Drain Line Size from floor sump to sewer | 2" | 2" | 2" | 2-1/2" | 2-1/2" | | | |
| ES | Electrical Service - Main Line Disconnect Switch | 15 AMP | 15 AMP | 15 AMP | 15 AMP | 15 AMP | | | |

* Air Opening sizes based on horizontal ducts to outdoors. See GBI 101-5 Paragraph V for complete details.

** Can be decreased on high pressure or close runs. Increase on low pressure or long runs.

*** Consult Local Inspection Authority for approval before reducing Vent Line to size shown.

**** 10 H.P. available with same dimensions as 9.5 H.P. except BTU Input is 430M BTU and Air Openings are 430 Sq. In.

NOTE: All installation dimensions and specifications are adequate for operation of standard equipment. Specs. subject to change without notice. Special equipment may require additional space. All installations must comply with Local Code Requirements.

| (IB) MINIMUM RECOMMENDED BOILER ROOM SIZE, SINGLE BOILER WITH RETURN TANK AND BLOWDOWN TANK: | | | | | | | | | |
|---|-----------------------------------|-------------------------|------------------------|--------------------------|------------------------|------------------------|--|--|--|
| NO. | ITEM | 7 H.P. | 9.5 H.P. | 15 H.P. | 20 H.P. | 25 H.P. | | | |
| A | Boiler Room Size (W x L x H) I.D. | 6'-1/2' x 6'-1/2' x 7' | 6'-1/2' x 7'-1/2' x 7' | 7'-1/2' x 7'-1/2' x 8' | 8' x 8'-1/2' x 8' | 8'-1/2' x 8'-1/2' x 8' | | | |
| WIF | Width in Front | 35" | 35" | 40" | 40" | 40" | | | |
| WIR | Width in Rear | 22" | 19" | 23" | 26" | 26" | | | |
| LOL | Length on Left | 18" | 18" | 18" | 18" | 18" | | | |
| LOR | Length on Right | 18" | 19" | 19" | 23" | 22" | | | |
| (IC) MINIMUM ALLOWABLE BOILER ROOM SIZE FOR SINGLE BOILER AND RETURN SYSTEM: Blowdown Tank and All Other Equipment Outside Boiler Room | | | | | | | | | |
| A | Boiler Room Size (W x L x H) I.D. | 6' x 6'-1/2' x 7' | 6'-1/2' x 7'-1/2' x 7' | 7' x 7'-1/2' x 8' | 7'-1/2' x 8'-1/2' x 8' | 8' x 8'-1/2' x 8' | | | |
| (ID) RECOMMENDED BOILER ROOM SIZE, DUAL BOILERS: | | | | | | | | | |
| A | Boiler Room Size (W x L x H) I.D. | 9' x 11'-1/2' x 9'-1/2' | 10' x 12' x 9'-1/2' | 10'-1/2' x 13' x 9'-1/2' | 12' x 13'-1/2' x 10' | 12' x 14'-1/2' x 10' | | | |
| AO* | Air Openings - Total Free Area | 602 Sq. In. * | 796 Sq. In. * | 1290 Sq. In. * | 1720 Sq. In. * | 2150 Sq. In. * | | | |
| WIF | Width in Front | 28" | 28" | 30" | 34" | 34" | | | |
| WIR | Width in Rear | 38" | 39" | 43" | 49" | 48" | | | |
| LOL | Length on Left | 36" | 36" | 40" | 40" | 40" | | | |
| LBB | Length Between Boilers | 38" | 38" | 40" | 40" | 40" | | | |
| LOR | Length on Right | 22" | 22" | 22" | 22" | 22" | | | |
| 22 | Return Tank Size (W x L x H) | 10" x 36" x 42" | 13" x 36" x 46" | 30" x 36" x 58" | 30" x 36" x 58" | 30" x 36" x 58" | | | |
| 23 ** | Return Line Inlet Size | 1-1/2" ** | 1-1/2" ** | 2" ** | 2" ** | 2" ** | | | |
| 26 | Return Tank Water Inlet Line Size | 3/4" | 3/4" | 1" | 1" | 1" | | | |
| 27A | Return Tank Vent Size Required | 1-1/4" | 1-1/4" | 1-1/2" | 1-1/2" | 1-1/2" | | | |
| 29 | Return Tank Drain Line Size | 1" | 1" | 1" | 1" | 1" | | | |
| 30 | Blowdown Tank Size (D x H) | 12 x 66" | 12 x 66" | 16 x 68" | 20 x 71" | 20 x 71" | | | |

* Air Opening sizes based on horizontal ducts to outdoors. See GBI 101-5, Paragraph V for complete details.

** Can be decreased on high pressure or close runs. Increase on low pressure or long runs.

NOTES:

1. All other dimensions same as those shown under IA on preceding page.
2. In dual boiler rooms, gas main must accommodate twice B.T.U. shown Item 7C on preceding page.
3. Boiler room size may be smaller than shown but will not provide desired accessibility.
4. All installation dimensions and specifications are adequate for proper operation of standard equipment. Special equipment may require additional space. All installations must comply with Local Code Requirements. Specifications subject to change without notice.