

**PARKER BOILER CO.**  
**BOILER ROOM FLOOR PLAN SPECIFICATION SHEET**  
**HORIZONTAL DRUM GAS FIRED STEAM BOILER 30-50 H.P.**

BRFP-104  
PAGE 1  
7C

<b>(IA) RECOMMENDED BOILER ROOM SIZE, SINGLE BOILER, ATMOSPHERIC GAS FIRED:</b>				
NO.	ITEM	30 H.P.	40 H.P. ****	50 H.P.
A	Boiler Room Size (Recommended I.D. Width x Length x Height)	10-1/2' x 12' x 12'	10-1/2' x 13-1/2' x 12'	10-1/2' x 15' x 12'
D1	Door No. 1 (Width x Height)	6' x 7'	6' x 7'	6' x 7'
D2	Door No. 2 (Width x Height)	2-1/2' x 7'	2-1/2' x 7'	2-1/2' x 7'
AO *	Air Openings- Total Free Area	1260 sq. in. *	1680 sq. in. *	2100 sq. in. *
WIF	Width in Front	40"	40"	40"
1WA	Width Boiler Cabinet	42"	42"	42"
WIR	Width in Rear	44"	44"	44"
LOL	Length on Left	39"	43"	43"
2LA	Length Boiler Cabinet	59"	73"	91"
LOR	Length on Right	46"	46"	46"
3HA	Cabinet Height	61"	61"	61"
4A	Vent Stack Diameter with Draft Hood (Standard)	14"	16"	18"
4BD	Chimney Stack Diameter with Barometric Damper (Special Order)	12"	14"	16"
7A	Gas Inlet Size - Standard Natural Gas	1-1/2"	2"	2"
7B	Gas Inlet Size - High Pressure Natural Gas and LPG Gas	1-1/2"	1-1/2"	1-1/2"
7C	B.T.U. Input required at rating	B.T.U./HR. 1,260,000	1,680,000	2,100,000
9A HP	Steam Outlet Size - High Pressure	1-1/4"	1-1/2"	2"
9 LP	Steam Outlet Size - Low Pressure	2-1/2"	3"	4" FLG.
10	Water Inlet Pipe Size to Boiler	1"	1"	1"
11	Main Blowdown Line Size	1-1/4"	1-1/4"	1-1/2"
12A HP	Safety Valve Drain Size (100 PSI)	1-1/2"	1-1/2"	2"
12A LP	Safety Valve Drain Size (15 PSI)	2"	2"	2"
18	Water Column Drain Size	1"	1"	1"
22	Return Tank Size (Width x Length x Height)	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" **	1-1/2" **
26	Return Tank Water Inlet Line Size	1"	1"	1"
27A	Return Tank Vent Size Required	1-1/2"	1-1/2"	1-1/2"
27B	Return Tank Vent with Dry Cleaning Steam Vacuum	3"	3"	3"
28	Return Tank Overflow	1"	1"	1"
29	Return Tank Drain Line Size	1"	1"	1"
30	Blowdown Tank Size (Diameter x Height)	20" x 71"	24" x 73"	30" x 76"
32	Blowdown Tank Vent Outlet Size	3"	3"	4"
32L ***	Minimum Reduced Vent Line Size for up to 150 PSI	2-1/2" ***	2-1/2" ***	3" ***
33	Blowdown Tank Drain Line Size	1-1/4"	1-1/4"	1-1/2"
FS	Recommended Drain Line Size from floor sump to sewe (Minimum)	3"	3"	3"
ES	Electrical Service - Main Line Disconnect Switch	15 AMP	15 AMP	15 AMP

\* Air Opening sizes based on horizontal ducts to outdoors. See GBI 101-5, Page 2, 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.

**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.

<b>(IB) MINIMUM RECOMMENDED BOILER ROOM SIZE, SINGLE BOILER WITH RETURN TANK AND BLOWDOWN TANK:</b>				
NO.	ITEM	30 H.P.	40 H.P.	50 H.P.
A	Boiler Room Size (W x L x H) I.D.	10' x 11-1/2' x 9'	10' x 13' x 9'	10' x 14-1/2' x 9'
WIF	Width in Front	36"	36"	36"
WIR	Width in Rear	42"	42"	42"
LOL	Length on Left	33"	37"	37"
LOR	Length on Right	46"	46"	46"
<b>(IC) MINIMUM ALLOWABLE BOILER ROOM SIZE FOR SINGLE BOILER ONLY Return System, Blowdown Tank and All Other Equipment Outside Boiler Room</b>				
A	Boiler Room Size (W x L x H) I.D.	8-1/2' x 10-1/2' x 9'	8-1/2' x 11-1/2' x 9'	8-1/2' x 13' x 9'
<b>(ID) RECOMMENDED BOILER ROOM SIZE, DUAL BOILERS:</b>				
A	Boiler Room Size (W x L x H) I.D.	13-1/2' x 16-1/2' x 12'	14-1/2' x 16-1/2' x 12'	16' x 16-1/2' x 12'
AO*	Air Openings- Total Free Area	2520 Sq. In. *	3360 Sq. In. *	4200 Sq. In. *
WIF	Width in Front	46"	46"	46"
WIR	Width in Rear	57"	55"	55"
LOL	Length on Left	36"	36"	36"
LBB	Length Between Boilers	45"	45"	45"
LOR	Length on Right	33"	33"	33"
22	Return Tank Size (W x L x H)	36" x 48" x 63"	36" x 60" x 63"	36" x 60" x 63"
23 **	Return Line Inlet Size	(2) 2" **	(2) 2" **	(2) 2" **
26	Return Tank Water Inlet Line Size	1"	1"	1"
27A	Return Tank Vent Size Required	2"	2"	2"
29	Return Tank Drain Line Size	1"	1"	1"
30	Blowdown Tank Size (D x H)	20" x 71"	24" x 73"	30" x 76"
<b>(IV) RECOMMENDED BOILER ROOM SIZE, SINGLE BOILER, OIL FIRED:</b>				
A	Boiler Room Size (W x L x H)	10-1/2' x 13-1/2' x 12'	10-1/2' x 15' x 12'	10-1/2' x 16-1/2' x 12'

\* Air Opening sizes based on horizontal ducts to outdoors. See GBI 101-5, Page 2, 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.