

PARKER BOILER CO.
BOILER ROOM FLOOR PLAN SPECIFICATION SHEET
HORIZONTAL DRUM GAS FIRED STEAM BOILER 70-150 H.P.

(IA) RECOMMENDED BOILER ROOM SIZE, SINGLE BOILER, ATMOSPHERIC GAS FIRED:					
NO.	ITEM	70 H.P.	90 H.P.	115 H.P.	150 H.P.
A	Boiler Room Size (Recommended I.D. Width x Length x Height)	14' x 14' x 12'	14' x 15-1/2' x 12'	15' x 17' x 12'	15' X 20-1/2' X 12'
D1	Door No. 1 (Width x Height)	8' x 8'	8' x 8'	8' x 8'	8' x 8'
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'
AO *	Air Openings- Total Free Area	2940 sq. in. *	3780 sq. in. *	4830 sq. in. *	6300 sq." *
WIF	Width in Front	44"	44"	50"	50"
1WA	Width Boiler Cabinet	56"	56"	56"	56"
WIR	Width in Rear	68"	68"	74"	74"
LOL	Length on Left	48"	48"	48"	48"
2LA	Length Boiler Cabinet	80"	98"	116"	156"
LOR	Length on Right	40"	40"	40"	42"
3HA	Cabinet Height	72"	72"	72"	72"
4	Vent Stack Diameter with Barometric Damper (Standard)	18"	20"	22"	26"
5A	Vent Stack Height above Boiler - Minimum at Sea Level	6'	6'	6'	6'
7A	Gas Inlet Size - Standard Natural Gas	2"	2-1/2"	3"	3"
7B	Gas Inlet Size - High Pressure Natural Gas and LPG Gas	1-1/2"	1-1/2"	2"	2"
7C	B.T.U. Input Required at Rating	B.T.U./HR. 2,940,000	3,780,000	4,830,000	6,300,000
9 HP	Steam Outlet Size - High Pressure	2-1/2"	2-1/2"	3"	3" FLG.
9 LP	Steam Outlet Size - Low Pressure	5" FLG.	5" FLG.	6" FLG.	6" FLG.
10	Water Inlet Pipe Size to Boiler	1-1/2"	1-1/2"	1-1/2"	1-1/2"
11	Main Blowdown Line Size	2"	2"	2"	2"
12A HP	Safety Valve Drain Size (100 PSI)	OUTLET IN. (1) 2"	(1) 2"	(2) 1-1/2"	(2) 1-1/2"
12A LP	Safety Valve Drain Size (15 PSI)	OUTLET IN. (1) 2-1/2"	(1) 3"	(2) 2"	(2) 2-1/2"
18	Water Column Drain Size	1"	1"	1"	1"
22	Return Tank Size (Width x Length x Height)	36" x 48" x 63"	36" x 60" x 63"	42" x 60" x 69"	42" x 60" x 69"
23 **	Return Line Inlet Size	2" **	2" **	(2) 2" **	(2) 2" **
26	Return Tank Water Inlet Line Size	1"	1"	1-1/4"	1-1/4"
27	Return Tank Vent Size Required	2"	2"	2"	2"
28	Return Tank Overflow	1-1/4"	1-1/4"	1-1/4"	1-1/4"
29	Return Tank Drain Line Size	1"	1"	1"	1"
30	Blowdown Tank Size (Diameter x Height)	36" x 103"	36" x 103"	36" x 103"	42" x 106"
32	Blowdown Tank Vent Outlet Size	5"	5"	5"	5"
32L ***	Minimum Reduced Vent Line Size for up to 150 PSI	4" ***	4" ***	4" ***	4" ***
33	Blowdown Tank Drain Line Size	2"	2"	2"	2"
FS	Recommended Drain Line Size from floor sump to sewer (Minimum)	4"	4"	4"	4"
ES	Electrical Service - Main Line Disconnect Switches	(2) 20 AMP	(2) 20 AMP	(2) 20 AMP	(2) 20 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. Specifications 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	70 H.P.	90 H.P.	115 H.P.	150 H.P.
A	Boiler Room Size (W x L x H) I.D.	13' x 13' x 9'	13-1/2' x 14-1/2' x 9'	14' x 16' x 9'	14' x 19-1/2' x 9'
WIF	Width in Front	40"	43"	43"	43"
WIR	Width in Rear	60"	63"	69"	69"
LOL	Length on Left	36"	36"	36"	36"
LOR	Length on Right	40"	40"	40"	42"
(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.	10-1/2' x 11-1/2' x 9'	10-1/2' x 13' x 9'	10-1/2' x 14-1/2' x 9'	10-1/2' x 18' x 9'
(ID) RECOMMENDED BOILER ROOM SIZE, DUAL BOILERS:					
A	Boiler Room Size (W x L x H) I.D.	15-1/2' x 23' x 12'	17-1/2' x 23' x 12'	19' x 23' x 12'	22-1/2' x 23' x 12'
AO*	Air Openings- Total Free Area	5880 Sq. In. *	7560 Sq. In. *	9660 Sq. In. *	12600 Sq. In. *
WIF	Width in Front	40"	40"	40"	41"
WIR	Width in Rear	66"	72"	72"	73"
LOL	Length on Left	56"	56"	56"	56"
LBB	Length Between Boilers	62"	62"	62"	62"
LOR	Length on Right	46"	46"	46"	46"
22	Return Tank Size (D x L x H)	42" x 60" x 69"	48" x 96" x 72"	48" x 96" x 72"	48" x 96" x 72"
23 **	Return Line Inlet Size	(2) 2" **	(2) 2" **	(2) 2" **	(2) 2" **
26	Return Tank Water Inlet Line Size	(2) 1"	(2) 1"	(2) 1-1/4"	(2) 1-1/4"
27A	Return Tank Vent Size Required	3"	3"	3"	3"
29	Return Tank Drain Line Size	2"	2"	2"	2"
30	Blowdown Tank Size (D x H)	36" x 103"	36" x 103"	36" x 103"	42" x 106"
(IV) RECOMMENDED BOILER ROOM SIZE, SINGLE BOILER, OIL FIRED:					
A	Boiler Room Size (W x L x H)	14' x 15-1/2' x 12'	14' x 16-1/2' x 12'	15' x 18' x 12'	15' x 21' 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.