

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. Input required at rating	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.