

AMSTO-1



**Ratings & Data
of
Discontinued
KEWANEE[®]
Boilers**

Volume 1



PRICE — \$10.00

$$\frac{5.1 \text{ Rating}}{\text{net EDR} \times 240} = \text{net BTU/hr}$$

$$\frac{\text{gross}}{\text{BTU/hr}} = 150 \times \text{net BTU/hr}$$

$$\text{Frag rate} = \frac{\text{gross}}{.8} = \text{BTU/hr.}$$

Actual heating surface $\times 17 = \text{gross S&I rating on 1969 basis}$ The 140% frag rate assumes
 $\times 11.3 = \text{gross S&I rating on 1959 basis}$ frag $\frac{17}{12} = 1.4$

$$1 \frac{1}{2} \text{ E.D.C.} = \frac{240 \text{ BTU/hr}}{\text{steam}} \text{ or } \frac{150 \times 10^6}{\text{water}}$$

Old S&I ratings of old boilers should maintain the in ^{old} steam ratings even when replaced with new heating today. Boiler is old and cannot be replaced 150% rating.

This book is for determining frag rate for any fuel for low heating surface rating.

$\begin{aligned} &\text{Boiler Rating} \\ &\rightarrow \frac{1000000}{\text{BTU/hr}} \end{aligned}$	$\begin{aligned} &\text{Production} \\ &\text{and steam} \\ &\text{demand} \rightarrow 90 \text{ BTU/hr} \\ &\text{Total E.D.C.} \\ &= 1,000,000 \times 90 \text{ BTU/hr} \\ &= 90,000,000 \text{ BTU/hr} \end{aligned}$	$\begin{aligned} &\text{Net S&I rating on} \\ &\text{2nd EDR} \rightarrow 4166 \times 240 \\ &= 1,000,000 \text{ BTU/hr} \end{aligned}$	$\begin{aligned} &\text{Gross S&I} \\ &\rightarrow 150 \times 11.3 \text{ E.D.C.} \\ &= 1,500,000 \text{ BTU/hr} \end{aligned}$	$\begin{aligned} &\text{Frag rate} \\ &\rightarrow \frac{\text{gross S&I}}{.8} \\ &= 1,875,000 \text{ BTU/hr} \\ &\text{Fuel required} \\ &80\% \text{ efficiency} \end{aligned}$
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FOREWORD

This booklet consolidates reproductions of catalog pages on the old KEWANEE BOILERS which are obsolete.

To simplify this data, only a single page of any listed unit is included. Some will show hand fired coal ratings, some will have oil capacities. By the use of the factors which we list below, the rating for any fuel can be calculated.

This listing has been compiled to enable you to size boiler replacements. Since many existing installations, while originally sized for hand fired operation will now be automatically fired, we recommend your calculating all listed units on the old SBI basis as follows:

- (1) For hand fired coal $\frac{\text{Heating surface} \times 14}{\text{square feet (EDR)}} = \text{SBI GROSS output}$
- (2) For oil-Gas-Stoker $\frac{\text{Heating surface} \times 17}{\text{square feet (EDR)}} = \text{SBI GROSS output}$

Ratings so calculated are comparable in their usage to current SBI GROSS outputs.

*Note: This does not apply to our Scotch Marine Boilers other than the original Scottie Junior riveted, HM-6 through HM-30. No other Scotch Marine Boilers have been offered by us for coal fired operation.

FIRING RATES

All of our recent catalogs have listed firing rates at 150% or 141.5% of SBI rating. In the case of such a catalog listing, the firing rates may be safely followed.

It is not advisable to calculate the firing rates on our older boilers in the same manner. Those boilers that have been installed for some time, the ratings for which have been calculated as above, should have their firing rates selected on 100% of capacity. Furthermore, the overall efficiency of automatic gas or oil fired boilers should be assumed to be 75% (stoker fired units as 65%). On this basis, the firing rate would be determined as follows:

$$\frac{\text{Square feet EDR (SBI)} \times 240 \text{ BTU}}{\text{Fuel value in BTU} \times .75 (\text{Note a. efficiency})} = \text{Firing Rate}$$

*BTU content of fuels is listed below:

Coal-Stoker Fired -	12,000 BTU/LB.
	11,000 BTU/LB.
	10,000 BTU/LB.
Gas -	1,000 BTU/FT. ³
Oil - Light #2	140,000 BTU/GAL.
Heavy #5 & #6	150,000 BTU/GAL.

*Note a. 65% efficiency stoker fired

EXAMPLE

Rating

#419 - Heating surface 1168 FT²

$1168 \times 17 = 19,856 \text{ FT}^2 \text{ EDR (SBI)}$

Firing Rate

$$\frac{19,856 \text{ FT}^2 \times 240 \text{ BTU}}{150,000 \text{ BTU/GAL} \times .75} = \frac{4,765,440 \text{ BTU}}{112,500 \text{ BTU}} = 42.4 \text{ Gal.}$$

REPLACEMENT SIZING

This catalog data is being sent to you to assist you in sizing replacement boilers. Selection of a boiler on the basis of the size of the existing equipment does not relieve you of the responsibility for determining the total load to be carried by the new unit(s). Due regard must be given to the condition of the system and to all additional loads added since the original installation, including, but not necessarily limited to, service hot water, additional heating equipment, pipe loss, start up allowances, etc.

SIZING WITHOUT NUMBER PLATES

On many old installations identifying number plates will be missing. Some were attached to the base ashpit doors and in the process of conversion to automatic firing, the identification is lost.

Several reliable alternatives are available.

- (1) Look for the boiler stamping as shown Appendix, Page V. This includes the boiler number and the safety valve capacity. The latter is an excellent basis for selecting a replacement size, in the same fuel.
- (2) Identify boiler type; up draft, downdraft, firebox, compact, Scotch Marine, horizontal return tubular, etc.
- (3) Check the number, diameter and length of boiler tubes, direct and return, and compare with current Bulletin 100-3-100H and/or listings of obsolete units on Appendix pages I, II, III, IV.
- (4) Compare size as determined #3, with dimensions of shells listed in this booklet, including the very important inside firebox dimensions. Only when all three, tube, outside and inside firebox dimensions coincide, can you be sure of exact boiler number.
- (5) Be sure the unit in question was made in Kewanee, Illinois. Some years ago, Fitzgibbons Boiler Company sold a unit under the name of Kewanee which was not ours.

In general, our units have four or three digit numbers. In the case of four digits, the first two identify the model eg M 8080 is a Scotch Marine boiler, 8000 series. The three digit numbers use the first number to identify the model eg #419 is a 400 series updraft with 4" tubes. In both cases the last two numbers identify the size or capacity within a given model number.

A word about conversion of downdraft bituminous (smokeless) boilers. These units had a tubular water grate between the upper and lower firebox areas. The surface of these tubes is included in the cataloged heating surface. When converted to gas, oil or stoker, this water grate need not be removed if the installer properly sets the burner equipment so that fire will not impinge on the water grate.

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APPENDIX

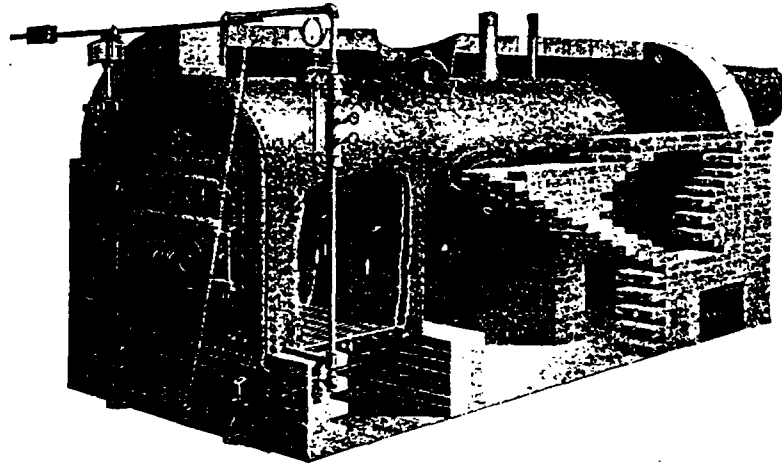
Tubes: * Size Length and Number, and Stamping

- | | | |
|-----|--|---|
| I | Brickset, Type K, 300-400-500-800-900 Series | |
| II | 5000, 6000, G, Round R, Square R, 749-up Type C | |
| III | K, P, G, Scottie Jr. - 8000-300-400-500 Series Simplified Practice | } |
| IV | Round R, Square R, 83 R, Type C, 5000, 6000 Series Simplified Practice | |
| V | Boiler Stamping | |

* For current series use Bulletin 100-3-100H, P & D Book.

*SIMPLIFIED PRACTICE - STANDARDIZATION
OF HEATING SURFACE AND RATINGS-INDUSTRY
CONSOLIDATION - (S. B. I.) STEEL BOILER
INSTITUTE - (1935 APPROX.).*

Kewanee Boiler Brick-set for Heating



The Kewanee Up-Draft Boiler will burn any kind of fuel; hard, soft or lignite coal; coke, gas or oil. It will secure the maximum efficiency for an up-draft boiler; but when soft coal is used, we recommend our smokeless type of boiler, which is designed especially for burning soft coal smokelessly.

The heating surface of a Kewanee boiler is that portion of the boiler containing water, with which the fire and gases come in contact. This

includes the fire-box of the boiler which is surrounded by water, the tubes, and the outside surface of the cylinder or shell below the water line. Kewanee boilers are practically all heating surface.

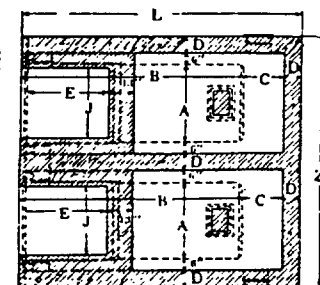
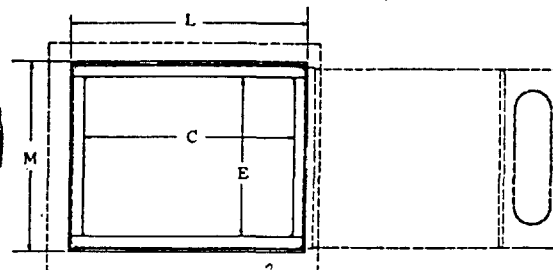
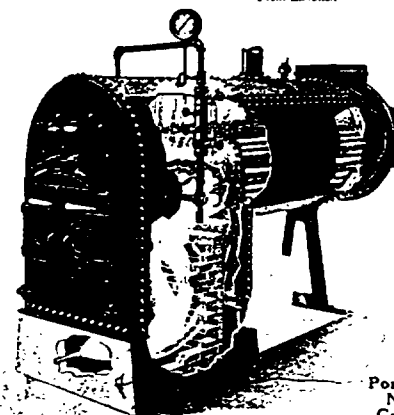
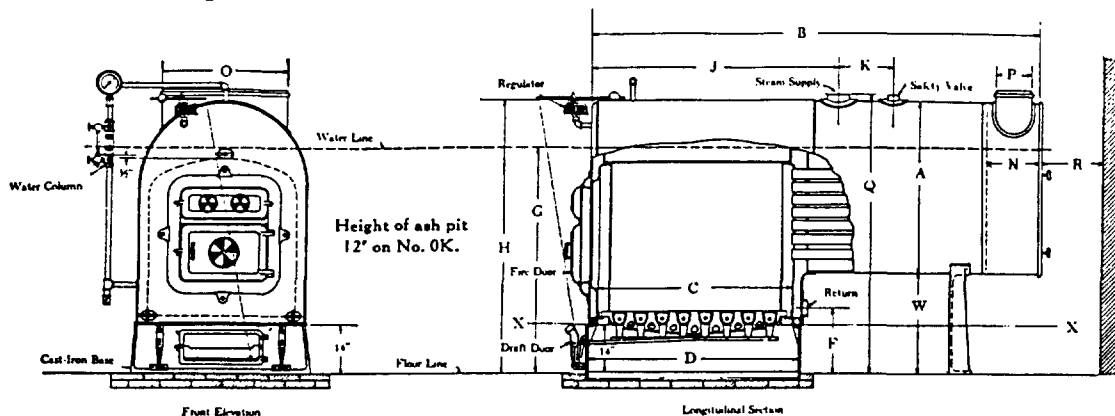
The ratings shown below are based on a standard for steam of two pounds pressure at the boiler, and for water on a mean temperature of 180 degrees Fahrenheit as the water leaves the boiler.

Specifications

Number of Boiler.....	0	1	2	3	4	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20
Capacity, Steam... E. D. A. sq. ft.	700	900	1050	1200	1400	1700	2000	2600	3000	3500	4000	4500	5500	6500	7500	8700	10000	11000	12000	14000
Capacity, Water... E. D. R. sq. ft.	1150	1500	1700	2000	2300	2800	3300	4300	5000	5800	6600	7400	9100	10700	12400	14400	16500	18200	19800	23100
Diameter Boiler..... in.	24	30	30	30	36	36	36	42	42	48	48	48	54	54	60	60	66	66	72	72
Length Boiler over-all..... ft. in.	6-10	6-5	7-6	8-6	7-6	9-0	10-6	11-6	10-6	12-0	13-6	13-11	16-5	15-6	18-0	18-0	16-0	18-0	16-0	18-0
Approximate Weight, Pounds....	1900	2400	2700	2900	3300	3700	4200	5400	6000	6700	7300	8000	10600	11900	14400	16000	17800	19100	21700	23500
Width of Fire-box..... in.	19	24	24	24	30	30	30	36	36	42	42	42	48	48	53	53	59	59	65	65
Length of Fire-box..... in.	26	26	32	38	32	38	44	44	44	50	50	56	56	62	62	68	62	68	68	74
Height of Fire-box..... in.	30	35	35	35	38	38	38	41	41	44	44	44	49	49	54	54	59	59	64	64
Heating Surface..... sq. ft.	84	113	131	147	180	215	250	305	350	368	420	472	560	673	743	873	954	1080	1167	1329
Area of Grate..... sq. ft.	3.5	4.4	5.4	6.4	6.8	8.0	9.3	11.1	12.6	12.9	14.7	16.5	18.8	20.8	22.9	25.1	28.0	30.8	33.5	33.5
Diameter of Breeching..... in.	10	12	14	16	16	18	18	20	22	22	24	24	28	28	32	32	32	32	36	36
Diameter of Stack..... in.	10	12	14	14	16	16	18	20	20	22	22	22	26	26	30	30	30	30	34	34
Minimum Height of Stack..... ft.	35	40	40	40	40	40	45	45	45	45	50	50	50	50	55	55	60	60	60	60
Diam. of Breeching, 2 Boilers..... in.	16	18	20	22	22	24	24	28	32	32	34	34	36	36	40	40	40	42	44	46
Diam. of Stack, 2 Boilers..... in.	16	18	18	20	20	22	22	26	28	30	32	34	34	36	36	40	40	40	42	42
Min. Hgt. of Stack, 2 Boilers..... ft.	40	45	45	45	45	45	45	50	50	50	50	50	55	55	60	60	70	70	70	70
Size of Steam Opening..... in.	3	4	4	5	5	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8
Size of Return..... in.	2	2 1/4	2 1/4	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5
Size of Safety Valve..... in.	1	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	2	2	2	2	2 1/4	2 1/4	2 1/4	3	3	3 1/4	3 1/4	3 1/4	4	4
Height of Water Line..... in.	47	52	52	52	55	55	55	58 1/2	58 1/2	61	61	61	66	66	75	75	80	80	85 1/4	85 1/4
Height from Floor to Top of Brick Work..... in.	64	70	70	70	77	77	77	83	83	90	90	90	96	96	108	108	114	114	120	120

Kewanee Up-Draft Boilers

Portable Type K and Brick-Set



Portable Type K
Nos. 0K-12K
Cast Iron Base

Type K
Foundation Plan
at XX
Nos. 0K-12K

Brick-set No. 0-20
Double Setting Foundation Plan
Single Setting Plan Similar

Specifications

Number of Boiler, Type K.....	0K	1K	2K	3K	4K	5K	6K	8K	9K	10K	11K	12K	13K	14K	15K	16K	17K	18K	19K	20K
Capacity, Steam.....Sq. Ft.	510	690	940	1240	1380	1830	2410	3340	3850	4170	4730	5290	6260	7520	8440	9910	11070	12540	13890	15810
Capacity, Water.....Sq. Ft.	820	1100	1500	1980	2210	2930	3860	5340	6160	6670	7570	8460	10020	12030	13500	15860	17710	20060	22220	25300
Approximate Weight.....Pounds	2600	2900	3200	3500	3900	4400	4900	6300	6900	7600	8300	9000	11100	12400	15000	16600	17900	19200	21900	23700
Oil, Gas or Stoker.....Sq. Ft.	1040	1410	1580	1770	2360	2790	3230	4100	4680	5060	5740	6420	7600	9130	10250	12040	13450	15230	16860	19190
Capacity Steam, E.D.R.....Sq. Ft.	10.3	14.8	18.6	22.4	23.6	28.4	33.1	43.6	49.8	51.2	58.9	66.6	85.4	95.1	115.8	127.6	140.8	155.5	186.1	203.4
Furnace Volume.....Cu. Ft.	2300	2650	2900	3130	3550	3950	4400	5650	6180	6900	7500	8100	9900	11100	13500	15000	16250	17400	20000	21500
Approximate Weight.....Pounds	2300	2650	2900	3130	3550	3950	4400	5650	6180	6900	7500	8100	9900	11100	13500	15000	16250	17400	20000	21500
Heating Surface.....Sq. Ft.	61	83	93	104	139	164	190	241	275	298	338	378	447	537	603	708	791	896	992	1129
Length of Boiler Overall.....Ft. In.	7-9	7-10	8-10	9-10	8-10	10-4	11-10	11-4	12-10	11-10	13-4	14-10	15-4	17-10	17-0	19-6	17-6	19-6	17-6	19-6
Minimum Height of Stack.....Feet	35	35	35	35	35	35	40	40	40	40	45	45	45	45	50	50	55	55	55	55
Minimum Height of Stack, Two Boilers.....Feet	40	40	40	40	40	40	40	45	45	45	45	45	50	55	55	65	65	65	65	65
Height from Floor to Top of Boiler.....Inches	51	59	59	59	65	65	65	71	71	77	77	77	83	83	93	93	99	99	105	105
Type K and Brick-set																				
Area of Grate.....Sq. Ft.	3.5	4.4	5.4	6.4	6.8	8.0	9.3	11.1	12.6	12.9	14.7	16.5	18.8	20.8	22.9	25.1	25.5	28.0	30.8	33.5
Width of Fire-box.....Inches	19	24	24	24	30	30	30	36	36	42	42	42	48	48	53	53	59	59	65	65
Length of Fire-box.....Inches	26	26	32	38	32	38	44	44	50	44	50	56	56	62	62	68	68	68	68	74
Height of Fire-box.....Inches	30	35	35	35	38	38	38	41	41	44	44	44	49	49	54	54	59	59	64	64
Diameter of Boiler.....Inches	24	30	30	30	36	36	36	42	42	48	48	48	54	54	60	60	66	66	72	72
Diameter of Breeching.....Inches	10	12	14	16	16	18	18	20	22	22	24	24	28	28	32	32	32	32	36	36
Diameter of Stack.....Inches	10	12	12	14	14	16	16	18	20	20	22	22	26	26	30	30	30	30	34	34
Diam. of Breeching, Two Boilers.....In.	16	18	20	22	22	24	24	28	32	32	34	36	36	40	40	40	40	42	44	46
Diam. of Stack, Two Boilers.....Inches	16	18	18	20	20	22	22	26	28	28	30	32	34	34	36	36	36	38	40	42
Size of Steam Opening.....Inches	3	4	4	5	5	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8
Size of Return.....Inches	2	2 1/2	2 1/2	3	3	3	3	4	4	4	4	5	5	5	5	5	6	6	6	6
Size of Safety Valve.....Inches	1	1 1/4	1 1/4	1 1/4	1 1/2	1 1/2	2	2	2	2	2 1/2	2 1/2	2 1/2	3	3	3 1/2	3 1/2	3 1/2	4	4
Height of Water-line.....Inches	45	52	52	52	55	55	55	58 1/2	58 1/2	61	61	61	66	66	75	75	80	80	85 1/2	85 1/2
Number of Boiler, Brick-set	0	1	2	3	4	5	6	8	9	10	11	12	13	14	15	16	17	18	19	20
Capacity, Steam.....Sq. Ft.	510	690	940	1240	1380	1830	2410	3340	4170	4300	5130	6070	7440	8770	10310	12080	12420	14670	16340	18610
Approximate Weight.....Pounds	1900	2400	2700	2900	3300	3700	4200	5400	6000	6700	7300	8000	10600	11900	14400	16000	17800	19100	21700	23500
Capacity, Steam, Oil, Gas or Stoker.....Sq. Ft.	1440	1920	2230	2500	3060	3650	4250	5180	5950	6250	7140	8020	9520	11440	12630	14840	16210	18260	19840	26600
Furnace Volume, Oil, Gas or Stoker.....Cu. Ft.	10.3	14.8	18.6	22.4	23.6	28.4	33.1	43.6	49.8	51.2	58.9	66.6	85.4	95.1	115.8	127.6	140.8	155.5	186.1	203.4
Approximate Weight, Oil, Gas or Stoker.....Pounds	1800	2200	2400	2500	2900	3300	3700	4800	5300	6000	6500	7100	9400	10600	12900	14400	16200	17300	19800	21300
Heating Surface.....Sq. Ft.	84	113	131	147	180	215	250	305	350	368	420	472	560	673	743	873	954	1080	1167	1329
Min. Hgt. of Stack, 2 Boilers.....Feet	35	40	40	40	40	40	45	45	45	45	50	50	50	50	55	55	60	60	60	60
Height from Floor to Top of Brick Work.....Inches	64	70	70	70	77	77	77	83	83	90	90	90	96	96	108	108	114	114	120	120

(Rated Capacity for Water Boiler, 60% Greater than Steam.) Measurements Tables on next page.

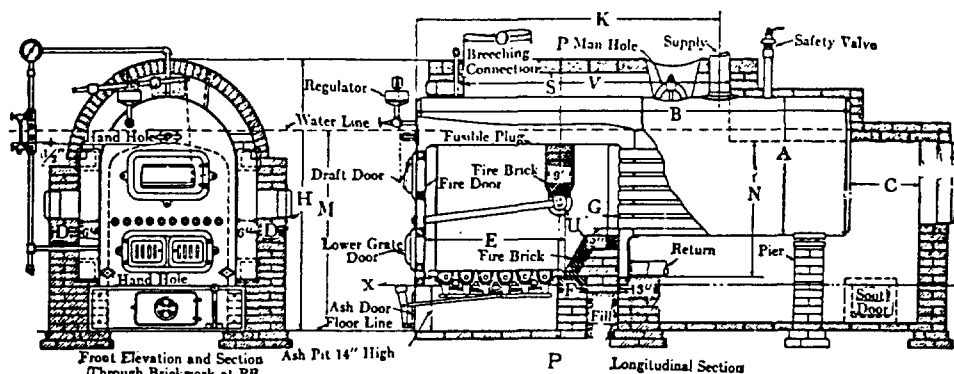
The Plumbing and Heating Catalog

not true 1.6 WATER E.D.R. = 1.0 STEAM E.D.R.
But 1.6 x 150 BTU/hr = 1.0 x 240 BTU/hr
240 BTU/hr = 240 BTU/hr

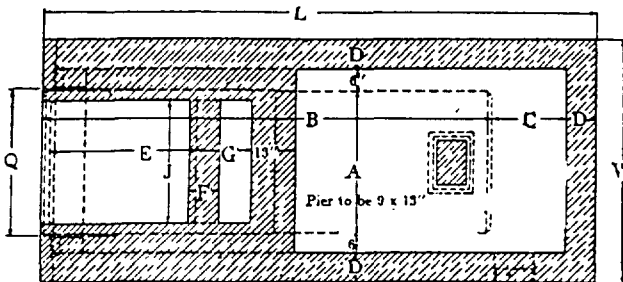
Kewanee Smokeless Boilers

The Kewanee Up-Draft Boiler will burn any kind of fuel; hard, soft or lignite coal; coke, gas or oil. It will secure the maximum efficiency for an up-draft boiler. When soft coal is to be used smokelessly, we recommend our down-draft type of boiler, which is designed especially for burning soft coal smokelessly.

Kewanee Smokeless Boiler with Stack Connection at Front



Sectional View
Smokeless
Boiler
—Brick-set
with Stack
Connection at
Rear



Foundation Plan at XX

The heating surface of a Kewanee boiler is that portion of the boiler containing water, with which the fire and gases come in contact. This includes the fire-box of the boiler which is surrounded by water, the tubes, and the outside surface of the cylinder or shell below the water line. Kewanee boilers are practically all heating surface.

"The ratings published in this catalog are in conformity with the Steel Heating Boiler Institute's Code for Rating Low Pressure Heating Boilers." Fifteen pounds steam pressure is regular. Higher pressures are special.

Specifications

Number of Boiler	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Capacity, Steam.....Sq. Ft.	1650	2320	3120	3250	4260	5020	5250	6270	7490	8790	10370	11750	13620	14900	16720	18070	20380
Capacity, Water.....Sq. Ft.	2640	3710	4990	5200	6820	8030	8400	10030	11980	14060	16590	18800	21790	23840	26750	28910	32610
Approximate Weight.....Pounds	4600	5100	5600	6200	6800	7300	8500	9100	9800	12500	13900	16400	18000	20400	22100	23800	25800
Diameter of Boiler.....Inches	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72
Length of Boiler Over-all.....Ft. In.	8-7	10-1	11-7	9-10	11-4	12-10	12-4	13-10	15-4	15-9	18-3	17-10	20-4	18-4	20-4	18-4	20-4
Width of Fire-box.....Inches	30	30	30	36	36	36	42	42	42	48	48	53	53	59	59	65	65
Length of Fire-box.....Inches	45	51	57	54	60	66	66	72	78	78	84	90	96	90	96	96	102
Heating Surface.....Sq. Ft.	206	243	288	297	345	393	425	480	535	628	741	839	973	1064	1194	1291	1456
Area of Upper Grate.....Sq. Ft.	5.9	7.2	8.4	8.6	10.1	11.4	11.8	13.2	15.0	17.1	19.1	21.1	23.3	25.9	28.5	31.3	31.3
Diameter of Breaching.....Inches	20	20	22	22	22	24	24	27	27	30	30	34	34	36	36	38	38
Diameter of Stack.....Inches	18	18	20	20	20	22	22	24	24	28	28	32	32	34	34	36	36
Minimum Height of Stack.....Feet	45	45	45	50	50	50	55	55	55	60	60	60	60	70	70	70	70
Diam. of Breaching, Two Boilers.....Inches	26	26	28	28	30	32	32	34	34	36	38	42	42	44	45	48	50
Diam. of Stack, Two Boilers.....Inches	24	24	26	26	28	30	30	32	32	34	36	38	38	40	42	44	46
Minimum Height of Stack, Two Boilers.....Feet	55	55	55	60	60	60	60	60	60	70	70	70	75	75	80	80	80
Size of Steam Opening.....Inches	5	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8
Size of Return.....Inches	3	3	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6
Size of Safety Valve.....Inches	1½	1½	2	2	2	2	2	2½	2½	3	3	3	3	3½	3½	4	2-2½
Height of Water-line.....Inches	55	55	55	58½	58½	58½	61	61	61	66	66	75	75	80	80	85½	85½
Height from Floor to Top of Brickwork.....Inches	77	77	77	83	83	83	90	90	90	96	96	108	108	114	114	120	120

Capacity for Oil, Gas or Stoker.....Steam, 3500 to 24,750 sq. ft.

—Water 60% Greater than Steam

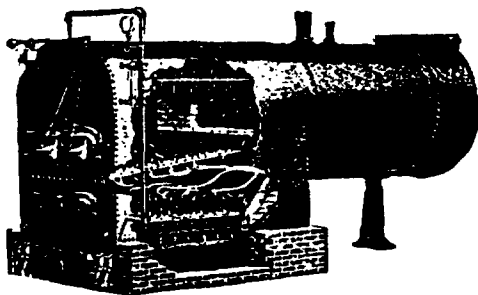
Setting Measurements

Number of Boiler	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
A—Diameter of Boiler.....Inches	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72
B—Length of Boiler.....Ft. In.	8-7	10-1	11-7	9-10	11-4	12-10	12-4	13-10	15-4	15-9	18-3	17-10	20-4	18-4	20-4	18-4	20-4
C—Rear Space.....Inches	17	17	17	22	22	22	22	22	22	24	24	24	24	24	24	28	28
D—Thickness Wall.....Inches	9	9	9	9	9	9	9	9	9	13	13	13	13	13	13	13	13
E—Length Grate.....Inches	31	37	43	37	43	49	43	49	55	55	61	61	67	61	67	67	73
J—Width Ash-pit.....Inches	31	31	31	37	37	37	43	43	43	49	49	54	54	60	60	66	66
F—Thickness Bridge Wall.....Inches	9	9	9	9	9	9	13	13	13	18	18	18	18	18	18	18	18
G—Grate to Tube Sheet.....Inches	14	14	14	17	17	17	23	23	23	23	23	29	29	29	29	29	29
U—Header to Bridge Wall.....Inches	7	8	9	9	10	12	10	11	12½	13	14	14	15½	14	15½	16	17
H—Height Brickwork.....Inches	77	77	77	83	83	83	90	90	90	96	96	108	108	114	114	120	120
K—Location Steam Supply.....Ft. In.	6-0	7-0	8-0	7-6	8-0	8-9	8-10	9-8	10-4	11-0	11-6	11-10	13-0	12-0	11-4	12-1	12-1
L—Length Over-all.....Ft. In.	10-9	12-3	13-9	12-5	13-11	15-5	14-11	16-5	17-11	18-10	21-4	20-11	23-5	21-5	23-5	21-9	23-9
M—Height Water-line.....Inches	55	55	55	58½	58½	58½	61	61	61	66	66	75	75	80	80	85½	85½
N—Height Side Flue.....Inches	36	36	36	39	39	39	42	42	42	48	48	51	51	58	58	63	63
O—Diam. Breaching Conn.....Inches	20	20	22	22	22	24	24	27	27	30	30	34	34	36	36	38	38
P—Anchor Bolt Ctr. Ash-pit.....Inches	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72
Q—Anchor Bolt Ctr. Ash-pit.....Inches	47	47	47	50	50	50	53	53	53	56	56	63	63	66	66	69	69
S—Top Flue Space.....Inches	36	42	54	36	48	60	54	66	80	84	102	90	108	90	108	84	102
T—Length Brick Shell.....Ft. In.	5-3	6-3	7-3	7-0	7-6	8-0	8-1	8-11	9-9	10-0	10-6	10-10	12-0	11-0	12-0	11-1	12-1
W—Width Over-all.....Ft. In.	5-6	5-6	5-6	6-0	6-0	6-0	6-6	6-6	6-6	7-8	7-8	8-2	8-2	8-8	8-8	9-2	9-2
Z—Width Double Setting.....Ft. In.	10-3	10-3	10-3	11-3	11-3	11-3	12-3	12-3	12-3	14-3	14-3	15-3	15-3	16-3	16-3	17-3	17-3
*Number Common Brick.....	2200	2350	2450	2600	2850	3100	3700	4000	4300	6000	6600	7350	7900	7800	8300	8700	9300
*Number Fire Brick.....	85	85	85	100	100	100	130	130	130	155	155	215	215	250	250	310	310
*Common Brick for Two Boilers.....	3900	4100	4300	4500	4950	5350	6500	7000	7550	10500	11500	12750	13700	13200	14200	15000	16000

*Foundation not included. Key letters N and V apply only to boiler settings with breaching connection at front as shown above.

**Key letters R and T apply only to boiler settings with breaching connection at rear; and letter Z applies only to Double settings both, as on Bracket Up-Draft Boiler diagram on preceding page.

1915-1935



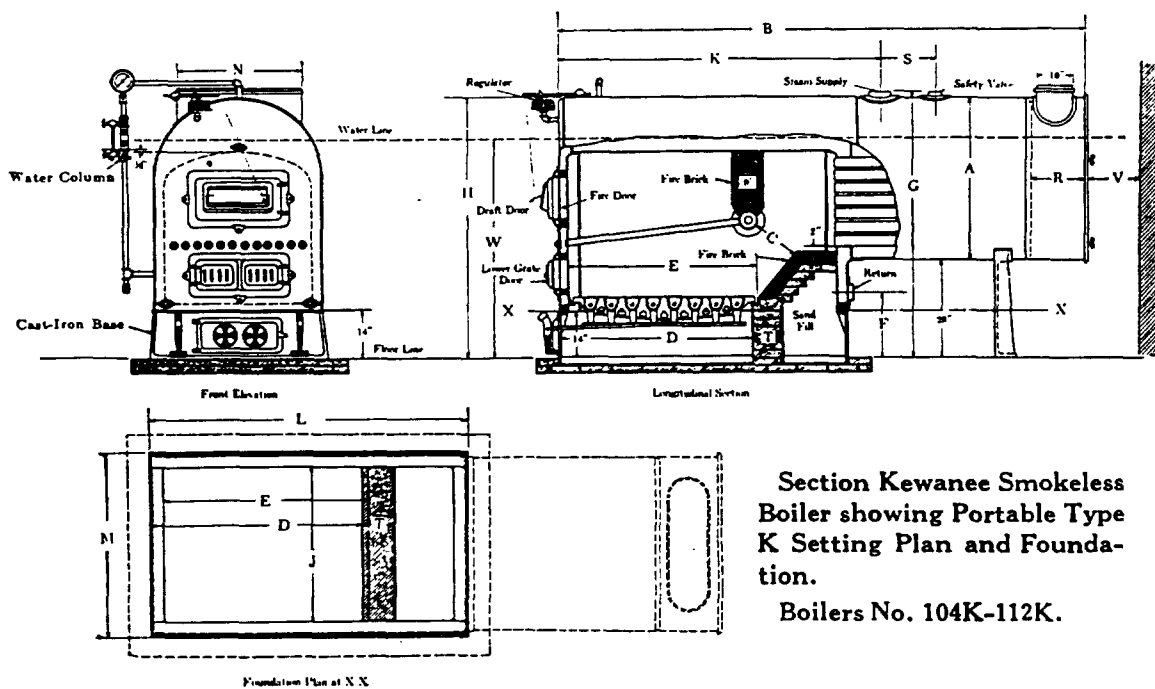
Kewanee Smokeless Portable Type K Boiler.
104K-112K Have C. I. Base.

Kewanee Smokeless Portable Type K Boilers

There is a Kewanee Boiler the right size for every building from the 2-apartment building to the largest hotel, factory, or business block. Portable Type K Boiler for smaller buildings is constructed along the same lines that the larger Kewanee Boilers are built. It is made in both the smokeless and up-draft types. The Smokeless boiler in this type K has a rated capacity of from 1500 to 15200 square feet in steam, and from 2450 to 25000 square feet in water.

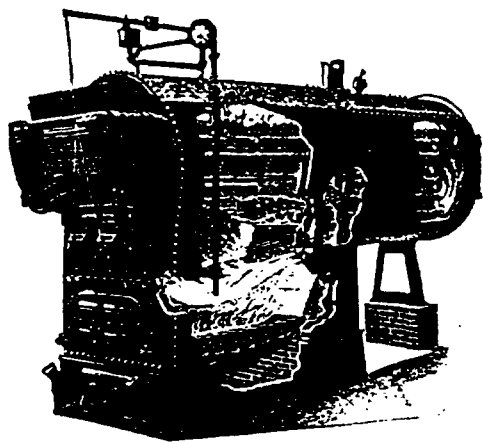
Specifications

Number of Boiler.....	104 K	105 K	106 K	107 K	108 K	109 K	110 K	111 K	112 K	113 K	114 K	115 K	116 K	117 K	118 K	119 K	120 K
Capacity, Steam.....sq. ft.	1500	1900	2200	2500	2900	3400	3800	4400	5200	6200	7100	8100	9500	10900	12300	13300	15200
Capacity, Water.....sq. ft.	2450	3100	3600	4100	4800	5600	6300	7400	8600	10100	11800	13300	15700	18000	20400	21900	25000
Approximate Weight, Pounds.....	5000	5600	6100	6900	7500	8100	9200	9900	10600	12600	14000	16500	18100	20500	22200	24000	26000
Diameter of Boiler.....in.	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72
Length Boiler Over-all.....ft. in.	9-11	11-5	12-11	11-2	12-8	14-2	13-8	15-2	16-8	17-1	19-7	19-4	21-10	19-10	21-10	19-10	21-10
Width of Fire-box.....in.	30	30	30	36	36	36	42	42	42	48	48	53	53	59	59	65	65
Length of Fire-box.....in.	45	61	67	54	60	66	66	72	78	78	84	90	96	90	96	96	102
Heating Surface.....sq. ft.	157	185	220	234	271	308	338	381	425	500	590	677	787	879	987	1090	1230
Area of Upper Grate.....sq. ft.	5.9	7.2	8.4	8.6	10.1	11.4	11.8	13.2	15.0	17.1	19.1	21.1	23.3	25.5	25.9	28.5	31.3
Diameter of Breaching.....in.	20	20	22	22	22	24	24	27	27	30	30	34	34	36	36	38	38
Diameter of Stack.....in.	18	18	20	20	20	22	22	24	24	28	28	32	32	34	34	36	36
Minimum Height of Stack.....ft.	40	40	40	45	45	45	45	50	50	55	55	65	65	70	70	75	75
Diameter of Breaching, Two Boilers.....in.	26	26	28	28	30	32	32	34	34	36	38	42	42	44	44	48	50
Diameter of Stack, Two Boilers.....in.	24	24	26	26	28	30	30	32	32	34	36	38	38	40	40	44	46
Minimum Height of Stack, Two Boilers.....ft.	50	50	50	55	55	55	55	55	55	65	65	65	70	70	75	75	75
Size of Steam Opening.....in.	5	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8
Size of Return.....in.	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5	5
Size of Safety Valve.....in.	1 1/2	1 1/2	2	2	2	2	2	2 1/2	2 1/2	3	3	3	3 1/2	3 1/2	4	4	Two-2 1/2
Height of Water-line.....in.	65	65	65	58 1/2	58 1/2	58 1/2	61	61	66	66	75	75	80	80	85 1/2	85 1/2	85 1/2
Height from Floor to Top of Boiler.....in.	65	65	65	71	71	71	77	77	83	83	93	93	99	99	105	105	108



Section Kewanee Smokeless
Boiler showing Portable Type
K Setting Plan and Founda-
tion.

Boilers No. 104K-112K.

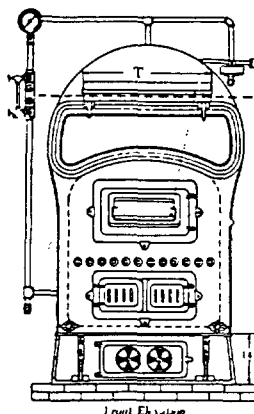


Section Kewanee Smokeless Portable Boiler

Nos. 307-309 have bell top and cast iron base as shown above.

Nos. 310-314 have bell top and brick base.

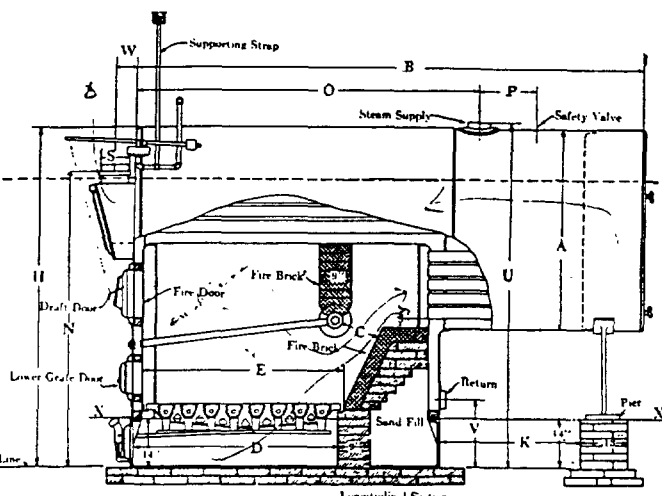
Nos. 315-324 with brick base as shown on opposite page.



Kewanee Smokeless Portable Boiler

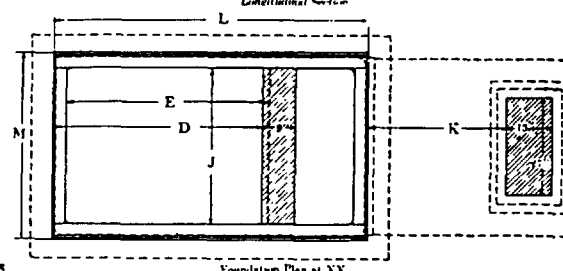
The Kewanee Smokeless Portable firebox heating boiler eliminates brick setting. Built of riveted steel, it goes into the building in one piece. Any kind of coal is burnt smokelessly and the extreme heat of burning oil is developed and absorbed with high efficiency by the large water content kept in rapid circulation by the water grate.

Boiler No. 314 (and smaller) constructed with enlarged cylinder. Iron ash pit furnished with Boiler No. 309 (and smaller). Boiler No. 310 (and larger) set on brick foundation. Manholes are provided on 54-inch boilers and larger.



Section Kewanee Smokeless Boiler Showing Portable Type Setting Plan Boilers Nos. 307-314

Note—Boilers Nos. 310, 311, 312, 313 and 314 are constructed with bell top as shown above, but are set on brick foundation instead of cast iron base as shown. Manhole is located in rear head.



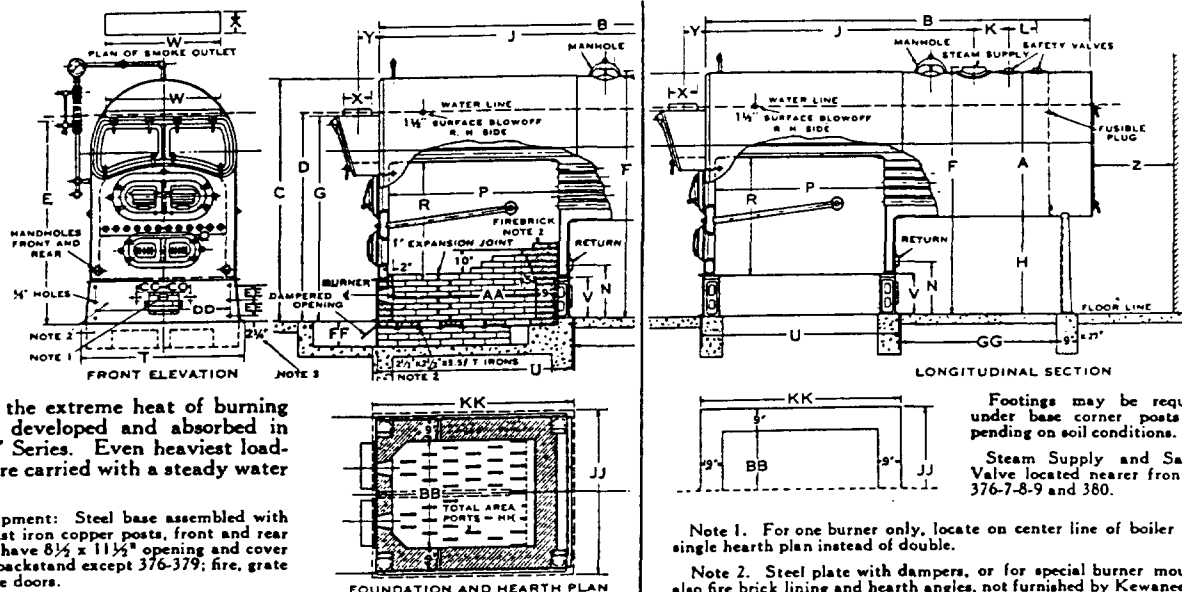
Specification

Foundation Plan at XX

Number of Boiler	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324
Capacity, Steam, Sq. Ft.	3390	4260	5020	6100	6950	7650	8290	9000	10100	10820	12770	14740	16860	18420	20410	21690	29040	36810
Capacity, Water, Sq. Ft.	5420	6820	8030	9760	11120	12240	13260	14400	16160	17310	20430	23580	26980	29470	32660	34700	46460	58900
Oil, Gas or Stoker:																		
Capacity, Steam, Sq. Ft.	5050	5990	6650	7580	8430	9290	10070	10920	12260	13130	15500	17900	20460	22360	24800	26350	35300	44700
Furnace Volume, Cu. Ft.	51.8	58.1	64.3	82.1	89.4	96.9	114.9	124.4	152.1	164.0	181.0	193.9	220.5	231.2	256.0	272.5	367.8	388.9
Approx. Weight, Pounds	7300	8000	8600	9600	10200	10900	13300	14000	15500	16200	19300	21100	23100	24400	26600	27800	34300	40000
Approximate Weight, Pounds	7800	8600	9300	10400	11100	11900	14500	15300	16900	17800	20900	22900	25000	26500	28800	30000	37000	43000
Diameter of Boiler, Inches	48	48	48	54	54	54	60	60	60	60	66	66	72	72	78	78	84	84
Lgth. Boiler Overall, Ft. In.	9-1	10-5	11-5	10-11	11-11	12-11	12-11	13-11	15-3	16-3	15-9	17-9	16-7	17-11	17-10	18-10	20-1	24-1
Width of Fire-box, Inches	36	36	36	42	42	42	48	48	53	53	59	59	65	65	71	71	77	77
Length of Fire-box, Inches	54	60	66	72	78	84	78	84	90	96	90	96	96	102	102	108	114	120
Heating Surface, Sq. Ft.	297	352	391	446	496	546	592	643	721	773	912	1053	1204	1316	1458	1549	2074	2629
Area of Upper Grate, Sq. Ft.	8.8	10.1	11.4	12.9	14.7	16.5	17.1	18.5	20.0	21.4	23.5	25.9	28.5	29.9	32.6	34.6	41.7	44.8
Diam. of Breeching, Inches	22	22	22	24	24	24	26	26	28	28	30	32	34	34	36	36	40	42
Diameter of Stack, Inches	20	20	20	22	22	22	24	24	26	26	28	30	32	32	34	34	38	40
Min. Height of Stack, Feet	50	55	55	55	55	60	60	60	65	65	65	70	70	70	80	90	90	100
Diameter of Breeching, Two Boilers, Inches	30	30	30	34	34	34	38	38	40	40	44	46	50	50	52	52	56	56
Diameter of Stack, Two Boilers, Inches	28	28	28	31	31	31	34	34	36	36	40	42	46	46	48	48	54	54
Minimum Height of Stack, Two Boilers, Feet	60	65	65	65	65	70	70	70	75	75	75	80	80	80	90	100	100	110
Size of Steam Opening, Inches	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	10	10
Size of Return, Inches	4	4	4	4	4	4	5	5	5	5	5	6	6	6	6	6	6	6
Size of Safety Valve, Inches	2	2	2	2½	2½	2½	3	3	3	3½	3½	4	4	4	2-2½	2-3	2-3	2-3½
Height of Water-line, Inches	71	71	71	76	76	76	83	83	87	87	90	90	96	96	97	97	105	105
Height Floor to Top of Shell, Inches	84	84	84	89	89	89	98	98	101	101	107	107	113	113	115	115	121	121
Distance Required to Open Rear Flue Doors, In.	26	26	26	28	28	28	32	32	32	32	35	35	37	37	40	40	43	43

Rated Capacity for Water Boiler, 60% Greater than Steam.

KEWANEЕ Down-Draft Firebox Boiler "300" Series For Oil, Gas or Stoker



All the extreme heat of burning oil is developed and absorbed in "300" Series. Even heaviest loadings are carried with a steady water line.

Equipment: Steel base assembled with four cast iron copper posts, front and rear panels have 8 1/2 x 11 1/2" opening and cover plate; backstand except 376-379; fire, grate and flue doors.

Also flue and tube cleaners with handles, socket wrench.

Manhole furnished on boiler numbers 380 and larger.

Trimings for Steam only: Safety valve, steam gauge with syphon and cock, water column with water gauge, glass and cocks.

For Cut-away View
"300" Series Oil or
Gas, see page 24.

Footings may be required under base corner posts depending on soil conditions.

Steam Supply and Safety Valve located nearer front on 376-7-8-9 and 380.

Note 1. For one burner only, locate on center line of boiler and use single hearth plan instead of double.

Note 2. Steel plate with dampers, or for special burner mountings, also fire brick lining and hearth angles, not furnished by Kewanee Boiler Corporation.

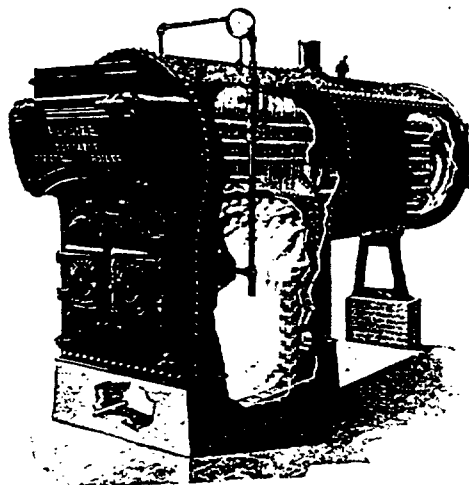
Note 3. This dimension 1 1/4" on boiler numbers 376-381 inclusive.

Note 4. Average Firebox Height is computed by dividing the firebox volume by the plan area. On stoker fired boilers 385 to 390 additional furnace height and volume for S.H.B.I. standard may be provided in base. Or extended water leg may be ordered, and two fire doors.

Specifications and Setting Measurements

	3" Tubes					4" Tubes														
Boiler Number	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390					
Rating—Steam Radiation.....	Sq. Ft. 4250	4860	5470	6080	7290	8500	10330	12150	15180	18220	21250	24290	30360	36430	42500					
Water Radiation.....	Sq. Ft. 6800	7770	8750	9720	11660	13600	16520	19440	24280	29150	34000	38860	48570	58280	68000					
Btu. per Hour.....	1000's 1020	1166	1313	1459	1750	2040	2479	2916	3643	4373	5100	5830	7286	8743	10200					
Heating Surface (SHBI min.).....	Sq. Ft. 250	286	322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500					
Furnace Volume (SHBI min.).....	Cu. Ft. 30.4	34.8	39.1	43.5	52.1	60.8	73.8	86.8	108.5	130.2	151.8	173.5	216.9	260.3	303.6					
Net Furnace Volume, Oil-Gas.....	Cu. Ft. 56.3	58.3	69.6	72.2	92.1	104.5	119.6	137.5	162.2	170.7	198.2	228.3	260.8	304.4	323.3					
Firebox Vol. Above Mud Ring.....	Cu. Ft. 49.1	50.7	60.1	62.1	79.5	89.4	97.0	110.4	130.9	137.2	160.2	183.2	207.8	231.9	245.5					
Average Firebox Height (See Note 4) In.	37.6	37.6	39.3	39.3	44.4	44.4	43.8	43.8	46.6	46.6	49.4	49.5	49.5	51.0	51.0					
Added Furnace Hgt. for Stoker (SHBI) In.																				
Hi-Firebox Volume.....	Cu. Ft. 15.7	16.2	18.4	18.9	21.5	24.2	26.6	30.3	33.7	35.9	41.9	44.5	50.4	54.6	57.8					
Plan Area.....	Sq. Ft. 15.7	16.2	18.4	18.9	21.5	24.2	26.6	30.3	33.7	35.9	41.9	44.5	50.4	54.6	57.8					
Breaching Diameter.....	In. 19	20	21	22	23	24	26	28	30	31	33	35	39	41	43					
Stack Diameter.....	In. 17	18	19	20	21	22	24	26	28	29	31	33	36	38	40					
Stack Height.....	Ft. 45	50	45	50	45	55	50	60	60	70	70	70	85	85	100					
Breaching Diameter, Two Boilers.....	In. 25	26	27	28	30	31	34	36	40	41	44	47	50	54	56					
Stack Diameter, Two Boilers.....	In. 23	24	25	26	28	29	32	34	37	38	41	44	47	50	52					
Stack Height, Two Boilers.....	Ft. 55	60	55	60	55	65	60	70	70	80	80	80	95	95	110					
Steam Supply Size.....	In. 6	6	6	6	8	8	8	8	8	8	8	8	10	10	10					
Return Size.....	In. 3	3	3	3	4	4	4	4	4	4	4	4	6	6	6					
Safety Valve Size.....	In. 2	2	2	2 1/2	2 1/2	2 1/2	3	3	2-2	2-2 1/2	2-2 1/2	2-2 1/2	2-2 1/2	2-3	2-3					
Shipping Weight.....	Lb. 6200	6900	7400	8000	9100	10100	12500	14100	16500	18900	21200	23200	27500	31500	35200					
A—Boiler Diameter.....	In. 42	42	48	48	54	54	60	60	66	66	72	78	84	84	84					
B—Boiler Length.....	Ft. 8-3	9-3	8-7 1/2	9-5	11-2 1/2	12-11	12-8 1/2	14-9	14-11	17-4	16-5	17-0 1/2	20-7 1/2	19-11	22-8					
C—Boiler Height Overall.....	In. 80	80	86	86	94	94	101	101	107	107	113	113	115	125	125					
D—Water Line.....	In. 70	70	73	73	78	78	85	85	88 1/2	88 1/2	94 1/2	95	95	107 1/2	107 1/2					
E—Water Column Height.....	In. 68	68	71	71	76	76	83	83	86 1/2	86 1/2	92 1/2	93	93	105 1/2	105 1/2					
F—Steam Supply Height.....	In. 82	82	88	88	96	96	103	103	109	109	115	117	117	127 1/2	127 1/2					
G—Breaching Connection Height.....	In. 70	70	74 1/2	74 1/2	81	81	86	86	89	89	96	97	97	109	109					
H—Rear Stand Height.....	In. 38	38	38	38	40	40	41	41	41	41	41	37	37	41	41					
J—Steam Supply Location.....	Ft. In. 1-10	2-0	1-10	2-0	2-0	9-8	9-8	10-6	10-8	11-6	11-6	11-8	13-4	13-2	14-0					
K—Safety Valve Location.....	In. 16	16	16	16	16	15	14	15	15	21	18	21	28	26	36					
L—Safety Valve Location.....	In. 12	12	12	12	12	12	12	12	12	12	12	12	12	12	12					
N—Return Height.....	In. 19	19	19	19	19 1/2	19 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	23 1/2	27 1/2	27 1/2					
O—Firebox Width.....	In. 36	36	42	42	48	48	53	53	59	59	65	71	71	77	77					
P—Firebox Length.....	In. 62	64	62	64	64	72	72	82	82	86	90	102	102	108	108					
R—Firebox Height.....	In. 41 1/2	41 1/2	44	44	49	49	49	49	52	52	54 1/2	55	55	57	57					
T—Base Width.....	In. 47 1/2	47 1/2	53 1/2	53 1/2	59 1/2	59 1/2	66	66	72	72	78	84	84	90 1/2	90 1/2					
U—Base Length.....	In. 71 1/2	73 1/2	72	74	74	82	83	93	93	97	101 1/2	113 1/2	113 1/2	119 1/2	119 1/2					
V—Base Height.....	In. 14	14	14	14	14	14	17	17	17	17	17	17	17	21	21					
W—Breaching Connection Length.....	In. 32	32	34	34	40	40	44	44	51	51	54	60	60	64	64					
X—Breaching Connection Width.....	In. 9	9	11	11	12	12	14	14	15	15	19	18	18	22	22					
Y—Breaching Connection Location.....	In. 6 1/2	6 1/2	7 1/2	7 1/2	8	8	9	9	9 1/2	9 1/2	11 1/2	11	11	13	13					
Z—Rear Door Clearance.....	In. 42	42	48	48	30	30	33	33	36	36	39	42	42	45	45					
AA—Furnace Length.....	In. 53	55	53	55	55	63	63	73	73	77	77	81	93	93	99					
BB—Furnace Width.....	In. 24	24	30	30	36	36	42	42	48	48	54	60	60	66	66					
CC—Burners Location.....	In. 8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	9 1/2	9 1/2	11	11	12 1/2	14	14	15	15					
DD—Bolt Centers in Plate.....	In. 37 1/2	37 1/2	43 1/2	43 1/2	49 1/2	49 1/2	55 1/2	55 1/2	61 1/2	61 1/2	67 1/2	73 1/2	73 1/2	79 1/2	79 1/2					
EE—Bolt Centers in Plate.....	In. 4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2					
FF—Pit Depth.....	In. 9	9	9	9	10	10	10	10	10	10	11	11	12	13	13					
GG—Rear Stand Location.....	In. 44	44	44	44	44	57	54	66	69	94	82	82	96	96	114					
HH—Total Area Ports or Openings.....	Sq. In. 64	73	83	92	110	127	155	182	230	273	320	365	455	545	640					
JJ—Foundation Width.....	In. 54	54	60	60	65 1/2	65 1/2	70 1/2	70 1/2	76 1/2	76 1/2	82	88	88	94	94					
KK—Foundation Length.....	In. 72 1/2	74 1/2	73	75	75	83	84	94	94	98	102 1/2	114 1/2	114 1/2	120 1/2	120 1/2					
Size of Dampered Openings.....	In. 6x11	6x12	6x14	6x16	7x16	7x18	7x22	7x26	2-7x16	2-8x17	2-8x20	2-9x20	2-9x23	2-10x27	2-10x32					
Number of Fire Brick.....	375	390	410	425	450	480	575	625	660	680	715	780	835	990	1020					
*Outside Surface to Cover.....	Sq. Ft. 110	120	130	140	185	210	220	255	280	320	330	360	435	450	510					

*Front smokebox and front head below smokebox NOT included.



Kewanee Up-Draft Portable Boiler

Kewanee Up-Draft Portable firebox heating boilers need no brick setting and go into the building in one piece. They burn any kind of fuel. Every joint and seam is firmly riveted at the factory. Sufficient handholes are provided for cleaning purposes, and in portable boilers 54 inches and larger, manholes are included.

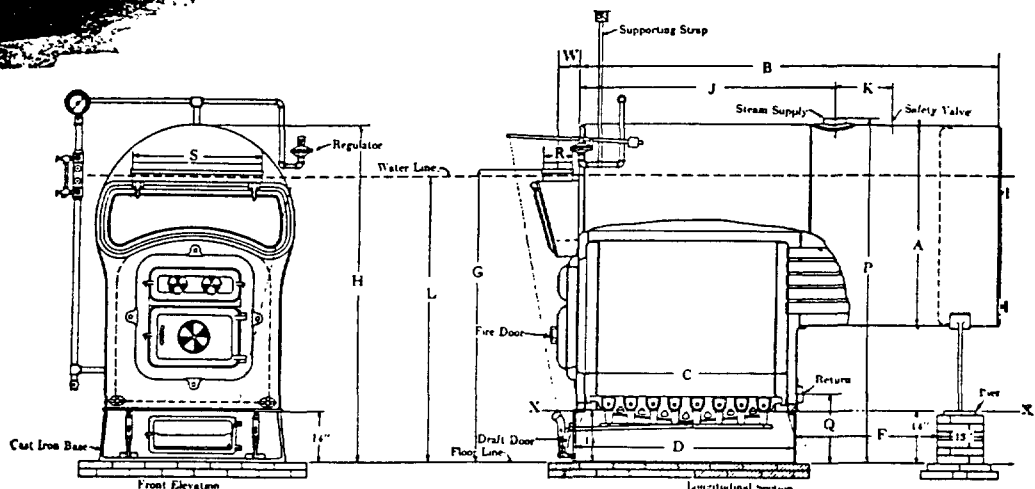
Boiler No. 414 (and smaller) is made with enlarged cylinder as shown. Iron ash pits, as illustrated furnished with No. 409 and smaller. No. 410 (and larger) set on brick foundation. No. 415 and larger made with firebox same width as cylinder.

Section Kewanee Up-Draft Portable Boiler

Nos. 407-409 have bell top and cast iron base as shown above.

Nos. 410-414 have bell top with brick base.

Nos. 415-424 have brick base, as shown on opposite page.



Section Kewanee Boiler—Showing Portable Type Setting Plan Boilers No. 407-414

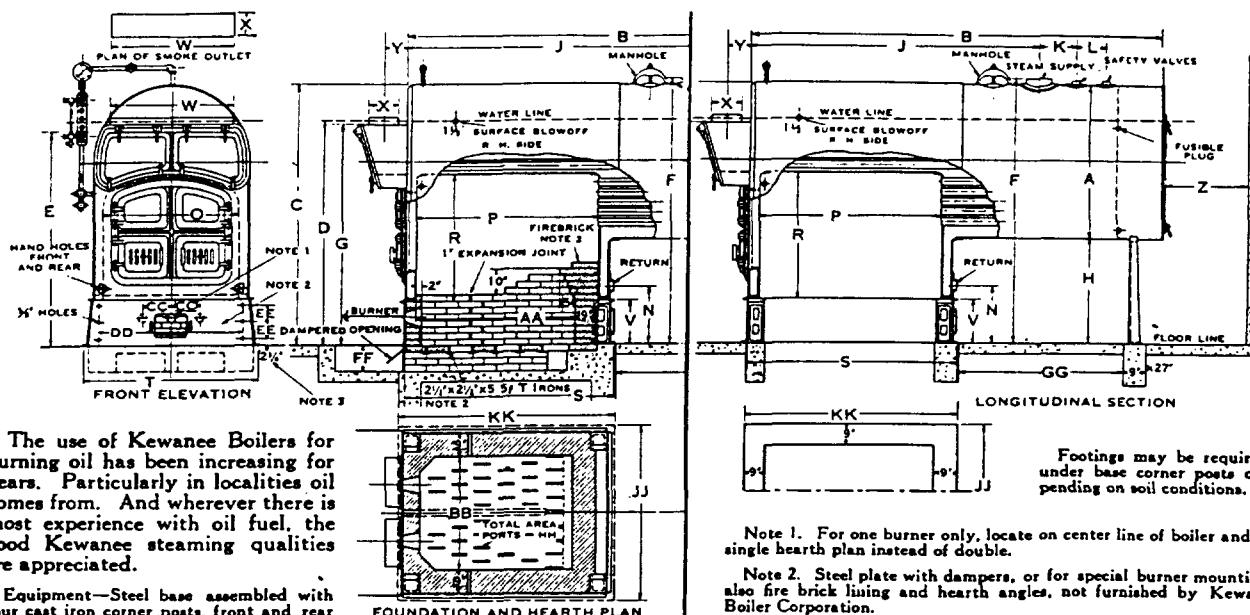
Note—Boilers Nos. 410, 411, 412, 413 and 414 are constructed with bell top as illustrated above but are set on brick base instead of cast iron ash-pit. In Nos. 410 and 411 the manhole is located in rear head; in 412 and larger it is in cylinder.

Specifications

Number of Boiler	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424
Capacity, Steam, H.P.	2550	3340	4170	4300	5130	6070	7440	8760	8700	10310	12420	14560	16350	18240	21200	23950	30930	33980
Capacity, Water, Sq. Ft.	4080	5340	6670	6880	8210	9710	11900	14020	13920	16500	19870	23300	26160	29180	33920	38320	49490	54370
Oil, Gas or Stoker:																		
Capacity, Steam, Sq. Ft.	4730	5270	6340	7040	7900	8760	9600	10640	11480	13220	15780	17680	19850	22150	25730	29080	37500	40480
Furnace Volume, Cu. Ft.	35.9	42.3	48.6	50.3	57.9	65.3	84.2	93.9	96.1	107.1	127.4	140.5	159.8	174.6	193.3	209.9	267.9	289.1
Approximate Weight, Pounds	6400	6800	7600	8300	9000	9700	12000	12800	14600	15900	18800	20200	22000	23600	25800	28600	34300	37100
Approximate Weight, Pounds	6900	7400	8300	9000	9800	10600	13200	14100	15900	17300	20400	22000	24000	25700	28000	31000	37000	40000
Diameter of Boiler, Inches	48	48	48	54	54	54	60	60	60	60	66	66	72	72	78	78	84	84
Length of Boiler, Ft. In.	8-7	9-6	11-1	10-0	11-1	12-1	12-5	13-7	14-4	16-2	15-9	17-4	15-11	17-6	17-11	19-11	20-1	22-1
Width of Fire-box, Inches	36	36	36	42	42	42	48	48	53	53	59	59	65	65	71	71	77	77
Length of Fire-box, Inches	38	44	50	44	50	56	56	62	56	62	62	68	68	74	74	80	80	86
Height of Fire-box, Inches	41½	41½	41½	44	44	44	49	49	49	49	52	52	54½	54½	55	55	58	58
Heating Surface, Sq. Ft.	278	310	373	416	465	515	565	626	676	778	929	1040	1168	1303	1514	1711	2209	2427
Area of Grate, Sq. Ft.	9.6	11.1	12.6	12.9	14.7	16.5	18.8	20.8	20.7	22.9	25.5	28.0	30.8	33.5	36.6	39.6	42.9	46.1
Diameter of Breeching, Inches	22	22	22	24	24	24	26	26	28	28	30	32	34	34	36	36	40	42
Diameter of Stack, Inches	20	20	20	22	22	22	24	24	26	26	28	30	32	32	34	34	38	40
Minimum Height of Stack, Feet	50	50	55	55	55	60	60	60	65	65	65	70	70	70	80	90	90	100
Diameter of Breeching, Two Boilers, Inches	30	30	30	34	34	34	38	38	40	40	44	46	50	50	52	52	56	56
Diam. of Stack, Two Boilers, Inches	28	28	28	31	31	31	34	34	36	36	40	42	46	46	48	48	54	54
Minimum Height of Stack, Two Boilers, Feet	60	60	65	65	65	70	70	70	75	75	75	80	80	80	90	100	100	110
Size of Steam Opening, Inches	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	10	10
Size of Return, Inches	4	4	4	4	4	4	5	5	5	5	6	6	6	6	6	6	6	6
Size of Safety Valve, Inches	2	2	2	2	2½	2½	2½	3	3	3	3½	3½	4	4	2-2½	2-3	2-3	2-3
Height of Water Line, Inches	71	71	71	76	76	76	83	83	87	87	90	90	96	96	97	97	105	105
Height Floor to Top of Shell, Inches	84	84	84	89	89	89	98	98	101	101	107	107	113	113	115	115	121	121
Distance Required to Open Rear Flue Doors, Inches	26	26	26	28	28	28	32	32	32	32	35	35	37	37	40	40	43	43

Rated Capacity for Water Boiler, 60% Greater than Steam.

KEWANEE Up-draft Firebox Boiler "400" Series For Oil, Gas or Stoker



The use of Kewanee Boilers for burning oil has been increasing for years. Particularly in localities oil comes from. And wherever there is most experience with oil fuel, the good Kewanee steaming qualities are appreciated.

Equipment—Steel base assembled with four cast iron corner posts, front and rear panels have $8\frac{1}{2} \times 11\frac{1}{2}$ " opening and cover plate; backstand; fire and flue doors; flue cleaner and handle. Manhole furnished on all sizes.

Trimings for Steam Only—Safety valve, steam gauge with syphon and cock, water column with water gauge, glass and cocks.

For Cut-away View "400" Series Oil-Gas, see page 24. And for Stoker, Similar to page 2.

Note 1. For one burner only, locate on center line of boiler and use single hearth plan instead of double.

Note 2. Steel plate with dampers, or for special burner mountings, also fire brick lining and hearth angles, not furnished by Kewanee Boiler Corporation.

Note 3. This dimension $1\frac{1}{2}$ " on No. 480 and 481.

Note 4. Average Firebox Height is computed by dividing the firebox volume by the plan area. On stoker fired boilers 485 to 490 additional furnace height and volume for S.H.B.I. standard may be provided in base. Or extended water leg may be ordered, and two firedoors.

Specifications and Setting Measurements

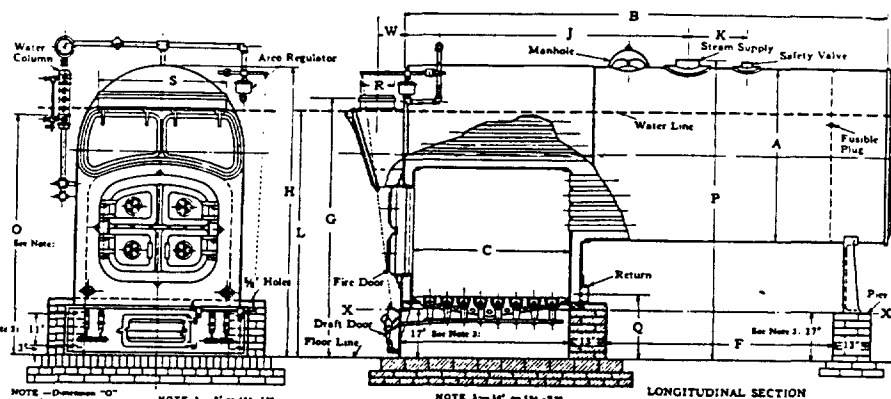
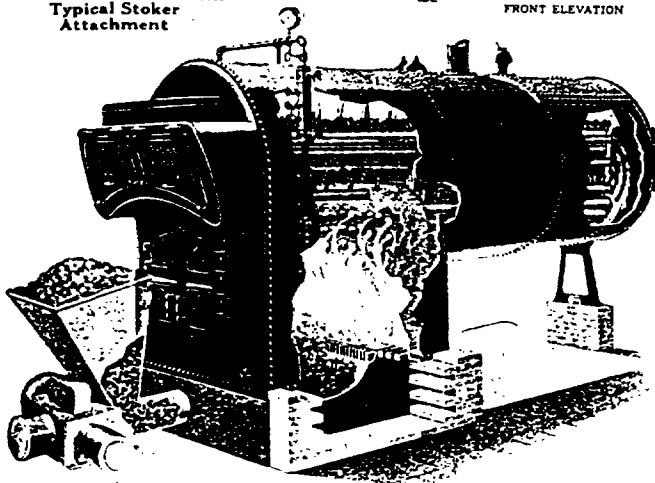
Boiler Number.	480	481	482	483	484	485	486	487	488	489	490
Rating—Steam Radiation.....	Sq. Ft. 7290	8500	10330	12150	15180	18220	21250	24290	30360	36430	42500
Water Radiation.....	Sq. Ft. 11660	13600	16520	19440	24280	29150	34000	38860	48570	58280	68000
Btu. per Hour.....	1000's 1750	2040	2479	2916	3643	4373	5100	5830	7286	8743	10200
Heating Surface (SHB) min.....	Sq. Ft. 429	500	608	715	893	1072	1250	1429	1786	2143	2500
Furnace Volume (SHB) min.....	Cu. Ft. 52.1	60.8	73.8	86.8	108.5	130.2	151.8	173.5	216.9	260.3	303.6
Net Furnace Volume, Oil-Gas.....	Cu. Ft. 70.0	79.4	119.6	137.5	162.2	170.7	198.2	228.3	260.8	304.4	323.3
Firebox Volume Above Mud Ring.....	Cu. Ft. 62.1	69.6	97.0	110.4	130.9	137.2	160.2	183.2	207.8	231.9	245.5
Average Firebox Height (See Note 4).....	In. 44.4	44.4	43.8	43.8	46.6	46.6	49.4	49.5	49.5	51.0	51.0
Added Furnace Height, for Stoker (SHB).....	In. 15	15	15	15	15	15	15	15	15	15	15
Hi-Firebox Volume.....	Cu. Ft. 16.8	18.8	26.6	30.3	33.7	35.3	38.9	44.5	50.4	54.6	57.8
Plan Area.....	Sq. Ft. 23	24	26	28	30	31	33	35	39	41	43
Breeching Diameter.....	In. 21	22	24	26	28	29	31	33	36	38	40
Stack Diameter.....	In. 45	55	50	60	60	70	70	70	85	85	100
Stack Height.....	Ft. 30	31	34	36	40	41	44	47	50	54	56
Breeching Diameter, Two Boilers.....	In. 28	29	32	34	37	38	41	44	47	50	52
Stack Diameter, Two Boilers.....	In. 55	65	60	70	70	80	80	80	95	95	110
Stack Height, Two Boilers.....	Ft. 8	8	8	8	8	8	8	8	10	10	10
Steam Supply Size.....	In. 4	4	4	4	4	4	4	4	6	6	6
Return Size.....	In. 2 1/2	2 1/2	3	3	2-2	2-2 1/2	2-2 1/2	2-2 1/2	2-2 1/2	2-3	2-3
Safety Valve Size.....	Lb. 9300	10400	12200	13600	15800	18100	20300	22300	26400	30200	33800
Shipping Weight.....	In. 54	54	60	60	66	66	72	78	78	84	84
A—Boiler Diameter.....	In. 11-5	13-1 1/2	13-4 1/2	15-5 1/2	15-6 1/2	18-0 1/2	17-0	17-3 1/2	21-3 1/2	20-7	23-4
B—Boiler Length.....	FL. In. 94	101	101	101	107	107	113	113	115	125	125
C—Boiler Height Overall.....	In. 78	78	85	85	88 1/2	88 1/2	94 1/2	95	95	107 1/2	107 1/2
D—Water Line.....	In. 76	76	83	83	86 1/2	86 1/2	92 1/2	93	93	105 1/2	105 1/2
E—Water Column Height.....	In. 96	96	103	103	109	109	115	117	117	127 1/2	127 1/2
F—Steam Supply Height.....	In. 81	81	86	86	89	89	96	97	97	109	109
G—Breeching Connection Height.....	In. 40	40	41	41	41	41	37	37	37	41	41
H—Rear Stand Height.....	In. 8-0	9-0	10-0	10-9	11-0	11-6	11-6	12-0	13-9	13-6	14-0
J—Steam Supply Location.....	In. 15	15	15	16	18	21	18	21	28	28	42
K—Safety Valve Location.....	In. 19 1/2	19 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	22 1/2	23 1/2	27 1/2	27 1/2
L—Safety Valve Location.....	In. 48	48	53	53	59	59	65	71	71	77	77
O—Firebox Width.....	In. 50	56	72	82	82	86	90	102	102	108	108
P—Firebox Length.....	In. 49	49	49	49	52	52	54 1/2	55	55	57	57
R—Firebox Height.....	In. 60	66	83	93	93	97	97	101 1/2	113 1/2	113 1/2	119 1/2
S—Base Length.....	In. 59 1/2	59 1/2	66	66	72	72	78	84	84	90 1/2	90 1/2
T—Base Width.....	In. 14	14	17	17	17	17	17	17	17	21	21
V—Base Height.....	In. 40	40	44	44	51	51	54	60	60	64	64
W—Breeching Connection Length.....	In. 12	12	14	14	15	15	19	18	18	22	22
X—Breeching Connection Width.....	In. 8	8	9	9	9 1/2	9 1/2	11 1/2	11	11	13	13
Y—Breeching Connection Location.....	In. 30	30	33	33	36	36	39	42	42	45	45
Z—Rear Door Clearance.....	In. 41	47	63	73	73	77	77	81	93	93	99
AA—Furnace Length.....	In. 36	36	42	42	48	48	54	60	60	66	66
BB—Furnace Width.....	In. 8 1/2	8 1/2	9 1/2	9 1/2	11	11	12 1/2	14	14	15	15
CC—Burners Location.....	In. 49 1/2	49 1/2	55 1/2	55 1/2	61 1/2	61 1/2	67 1/2	73 1/2	73 1/2	79 1/2	79 1/2
DD—Bolt Centers in Plate.....	In. 4 1/2	4 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
EE—Bolt Centers in Plate.....	In. 10	10	10	10	10	10	11	11	11	11	11
FF—Pit Depth.....	In. 64	78	63	76	86	86	92	92	106	96	120
CC—Rear Stand Location.....	In. 110	127	155	182	230	273	320	365	455	545	640
HH—Total Area Ports or Openings.....	Sq. In. 65 1/2	65 1/2	70 1/2	70 1/2	76 1/2	76 1/2	82	88	88	94	94
JJ—Foundation Width.....	In. 61	67	84	94	94	98	98	102 1/2	114 1/2	114 1/2	120 1/2
KK—Foundation Length.....	In. 7x16	7x18	7x22	7x26	2-7x16	2-8x17	2-8x20	2-9x20	2-9x25	2-10x27	2-10x32
Size of Dampered Opening.....	In. 395	420	575	625	660	680	715	780	835	990	1020
Number of Fire Brick.....	Sq. Ft. 185	210	235	275	290	335	345	375	450	465	520
*Outside Surface to Cover.....											

*Front smokebox and front head below smokebox NOT included.

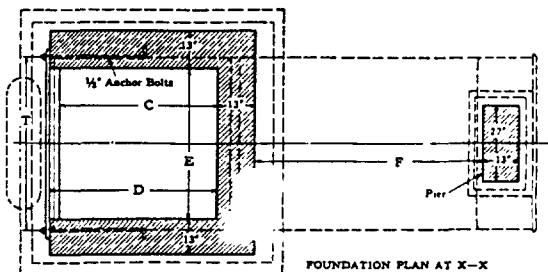
Kewanee Up-Draft Portable Boiler

The high-class workmanship on Kewanee Boilers is proverbial in the Trade and in the Architectural profession. This "500" series reflects the best Kewanee practice based on generations of continuous experience.

"500" Series Boiler with
Typical Stoker
Attachment



Section Kewanee Boiler Nos. 524-544



Setting Plan and Foundation

In the "500" series Kewanee Steel-Riveted Boilers the grate area and firebox are enlarged somewhat and a greater number of return tubes is provided.

There is a corresponding increase in heating surface, steam space, disengaging area, furnace volume and water content, all in the correct ratio and proportionate to the requirements for definite service condition.

Specifications and Setting Measurements

Number of Boiler.....	524	526	528	530	532	534	536	538	540	542	544
Capacity, Steam..... Sq. Ft.	7060	8770	10160	10310	13720	16380	18340	19460	21840	25540	28880
Capacity, Water..... Sq. Ft.	11300	14030	16260	16500	21950	26210	29340	31140	34940	40860	46210
Capacity, Steam, Oil, Gas or Stoker..... Sq. Ft.	10110	11390	12920	14650	16660	19890	22270	23630	26520	31010	35070
Furnace Volume, Oil, Gas or Stoker..... Cu. Ft.	72.2	93.1	102.9	106.4	128.5	152.9	165.7	188.4	203.0	239.9	259.0
Approx. Weight, Oil, Gas or Stoker..... Pounds	10150	11250	12100	13500	14900	18100	19300	20800	22300	24200	26300
Heating Surface..... Sq. Ft.	600	670	760	862	980	1170	1310	1390	1560	1824	2063
Area of Grate..... Sq. Ft.	18.2	20.8	22.7	22.9	27.2	30.5	32.8	36.1	38.8	39.5	42.5
Height of Firebox..... Inches	44	49	49	49	49	52	52	54 1/2	54 1/2	55	55
Diameter of Breaching..... Inches	24	26	26	28	28	30	32	34	34	36	36
Diameter of Stack..... Inches	22	24	24	26	26	28	30	32	32	34	34
Minimum Height of Stack..... Feet	60	65	70	80	80	80	90	80	95	85	95
Diameter of Breaching, Two Boilers..... Inches	34	38	38	40	40	44	46	50	50	52	52
Diameter of Stack, Two Boilers..... Inches	30	34	34	36	36	40	42	46	46	48	48
Min. Height of Stack, Two Boilers..... Feet	70	75	80	90	90	90	100	90	105	95	105
Size of Steam Opening..... Inches	6	8	8	8	8	8	8	8	10	10	10
Size of Return..... Inches	4	5	5	6	6	6	6	6	6	6	6
Size of Safety Valve..... Inches	2 1/2	3	3	3	3 1/2	4	4	2-2 1/2	2-3	2-3	2-3
Diam. and Length Direct Tubes..... Inches	3x78	4x65	4x73	4x87	4x97	4x90	4x103	4x84	4x97	4x102	4x119
Diam. and Length Return Tubes..... Inches	3x143	3x130	3x144	3x153	3x175	3x168	3x187	3x168	3x187	3x186	3x209
Dis. Required to Open Flue Doors..... Inches	28	32	32	32	32	35	35	37	37	40	40
Approximate Weight..... Pounds	11160	12560	13550	15000	16640	20040	21500	23250	24870	26640	28870
A—Diameter of Boiler..... Inches	54	60	60	60	60	66	66	72	72	78	78
B—Length of Boiler..... Ft. In.	13-5	12-5	13-7	14-4	15-2	15-9	17-4	15-11	17-6	17-5	19-4
C—Length of Grate..... Inches	62	62	68	62	74	74	80	80	86	80	86
D—Length of Ash-pit..... Inches	66	66	72	66	78	78	84	84	90	84	90
E—Width of Ash-pit..... Inches	42	48	48	53	53	59	59	65	71	71	71
F—Ash-pit Wall to Pier..... Ft. In.	6-0	4-8	5-4	6-6	7-0	6-6	7-6	6-0	7-0	7-10	9-0
G—Height of Breaching Connection..... Inches	80	88	88	90	90	93	93	100	100	101	101
H—Height of Boiler..... Inches	89	98	98	101	101	107	107	113	113	115	115
J—Location of Steam Supply..... Ft. In.	8-6	8-8	9-2	8-11	10-5	10-4	11-2	10-7	11-9	11-3	10-11
K—Location of Safety Valve..... Inches	16	16	18	21	23	26	34	16	16	31	46
L—Height of Water-line..... Inches	76	83	81	87	87	90	96	96	96	97	97
O—Height of Water Column..... Inches	73 1/2	81	81	84	84	87 1/2	87 1/2	93 1/2	93 1/2	94	94
P—Height of Steam Supply..... Inches	90	99	99	103	103	109	109	115	115	117	117
Q—Height of Return..... Inches	19	20	20	23	23	23	23	23	23	23	23
R—Width of Breaching Connection..... Inches	10	12 1/2	12 1/2	12 1/2	12 1/2	15	15	17	17	17	17
S—Length of Breaching Connection..... Inches	42	46	46	46	46	50	50	54	54	60	60
T—Ctr. to Ctr. Bolts in Ash-pit Front..... In.	48	54	54	60	60	66	66	72	72	78	78
W—Boiler to Center of Breaching..... Inches	8	9 1/4	9 1/4	9 1/4	9 1/4	10 1/2	10 1/2	11 1/2	11 1/2	11 1/2	11 1/2
*Number of Common Brick.....	540	560	590	710	770	790	820	850	880	885	930
Outside Surface to Cover..... Sq. Ft.	185	190	220	250	280	290	310	315	345	385	425

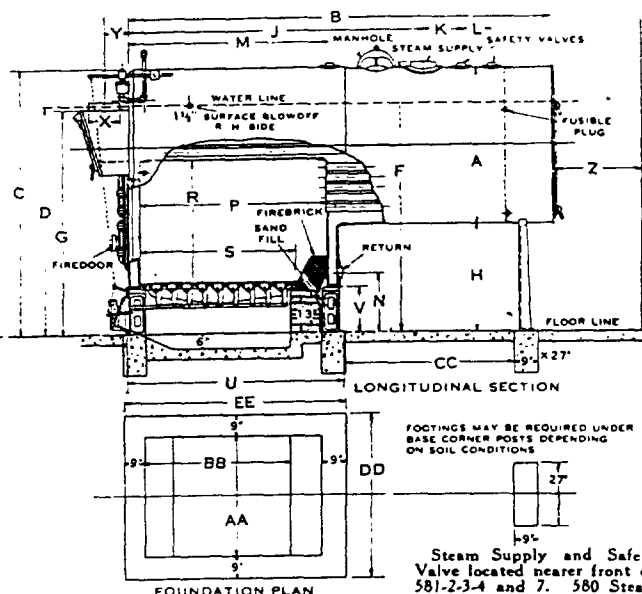
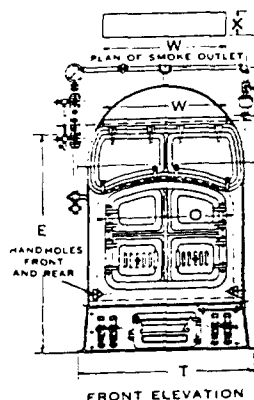
*Foundations not included. Rated Capacity for Water Boiler, 60% Greater than Steam.

1935-1960

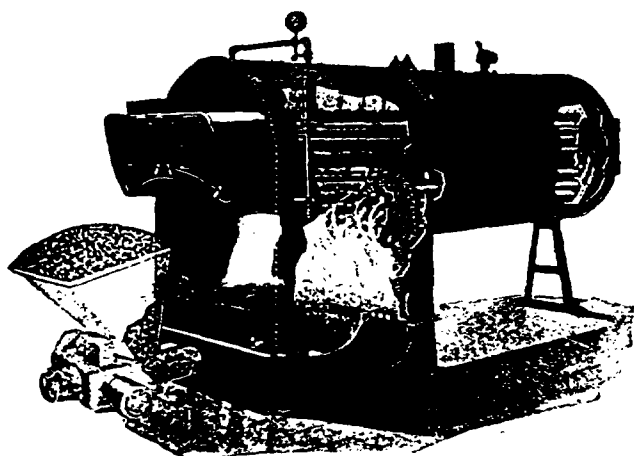
KEWANEE Up-Draft Firebox Boiler "500" Series For Coal

The high-class workmanship on Kewanee Boilers is proverbial in the Trade and in the Architectural profession. This "500" series reflects the best Kewanee practice based on generations of continuous experience.

"500" Series
Riveted Up-Draft Firebox Boiler
With Two-Pass Three Inch Tubes



Steam Supply and Safety Valve located nearer front on 581-2-3-4 and 7. 580 Steam Supply only in front.



"500" series conforms to the A.S.M.E. boiler code for construction 15 lbs., and for rating with the S.H.B.I. simplified practice recommendation. Also built for 100-150 lb. pressures.

Equipment—Steel base assembled with cast iron ash pit front and four cast iron corner posts; heavy rocking or dumping grates; backstand, fire and flue doors. Manhole furnished on No. 580 and larger. No fire brick furnished. Bridgwall omitted 576-581.

Firing Tools—Hoe, poker, slice bar, flue cleaner and handle.

Trimming for Steam Only—Safety valve, steam gauge with syphon and cock, water column with water gauge, glass and cocks, damper regulator.

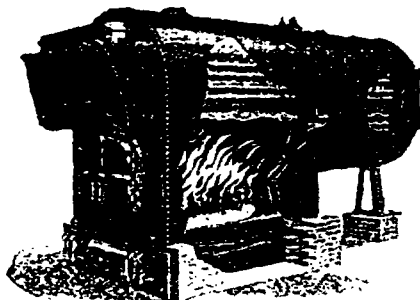
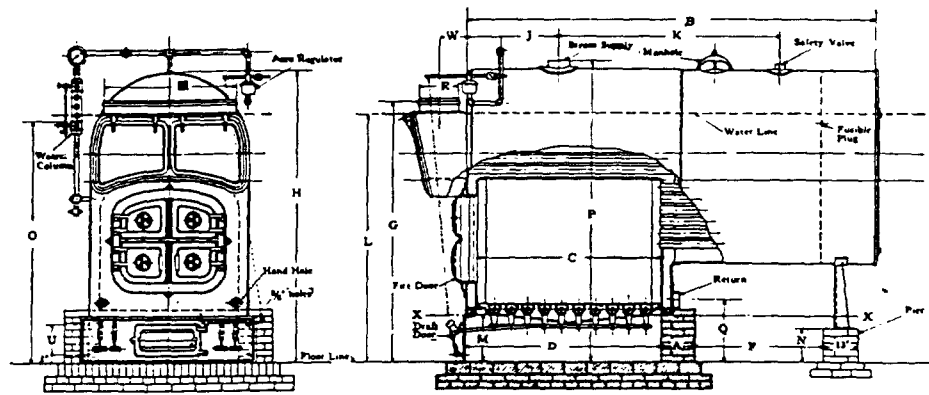
For Cut-away View "500" Series Hand-Fired Coal, see page 24.

Specifications and Setting Measurements

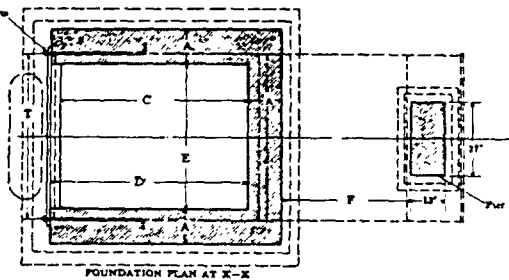
Boiler Number	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590
Rating—Steam Radiation.....Sq. Ft.	3500	4000	4500	5000	6000	7000	8500	10000	12500	15000	17500	20000	25000	30000	35000
Water Radiation.....Sq. Ft.	5600	6400	7200	8000	9600	11200	13600	16000	20000	24000	28000	32000	40000	48000	56000
Btu. per Hour.....1000's	840	960	1080	1200	1440	1680	2040	2400	3000	3600	4200	4800	6000	7200	8400
Heating Surface (S.H.B.I. min.).....Sq. Ft.	250	286	322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500
Grate Area (S.H.B.I. min.).....Sq. Ft.	11.4	12.2	13.4	14.5	16.4	18.1	20.5	22.5	25.6	28.4	30.9	33.2	37.4	41.2	44.7
Breaching Diameter.....In.	19	20	21	22	23	24	26	28	30	31	33	35	39	41	43
Stack Diameter.....In.	17	18	19	20	21	22	24	26	28	29	31	33	36	38	40
Stack Height.....Ft.	55	60	55	60	60	65	60	70	70	80	80	85	95	100	110
Breaching Diameter, Two Boilers.....In.	25	26	27	28	30	31	34	36	40	41	44	47	50	54	56
Stack Diameter, Two Boilers.....In.	23	24	25	26	28	29	32	34	37	38	41	44	47	50	52
Stack Height, Two Boilers.....Ft.	65	70	65	70	70	75	70	80	80	90	90	95	105	110	120
Steam Supply Size.....In.	6	6	6	6	8	8	8	8	8	8	8	8	10	10	10
Return Size.....In.	3	3	3	3	4	4	4	4	4	4	4	4	6	6	6
Safety Valve Size.....In.	2	2	2	2½	2½	2½	3	3	2-2½	2-2½	2-2½	2-2½	2-2½	2-3	2-3
Shipping Weight.....Lb.	6100	6700	7300	7900	9000	10000	11500	13000	15200	17300	19300	21200	25000	28400	31700
A—Boiler Diameter.....In.	42	42	48	48	54	54	60	60	66	66	72	78	78	84	84
B—Boiler Length.....Ft.	8-7	9-6½	8-10	9-6½	9-21½	10-6	11-1	12-9	12-10	14-9	14-9	14-9	17-7½	17-9½	20-0½
C—Boiler Height Overall.....In.	80	80	86	86	94	94	101	101	107	107	113	113	115	125	125
D—Water Line.....In.	70	70	73	73	79½	79½	84½	84½	89½	89½	94½	94½	96½	105	105
E—Water Column Height.....In.	68	68	71	71	77½	77½	82½	82½	87½	87½	92	94½	94½	103	103
F—Steam Supply Height.....In.	82	82	88	88	96	96	103	103	109	109	115	117	117	127½	127½
G—Breaching Connection Height.....In.	70	70	74½	74½	81	81	86	86	89	89	96	96	97	109	109
H—Rear Stand Height.....In.	38	38	38	38	40	40	41	41	41	41	41	37	37	41	41
J—Steam Supply Location.....Ft. In.	6-0	6-6	6-0	6-6	2-6	2-6	3-0	3-0	3-0	11-0	11-0	3-0	12-4	12-4	13-0
K—Safety Valve Location.....In.	14	15	14	15	20	16	16	16	16	16	15	16	18	18	18
L—Safety Valve Location.....In.									12			12	12	12	12
M—Safety Valve Location.....Ft. In.										7-6	7-6				
N—Return Height.....In.	19	19	19	19	19½	19½	22½	22½	22½	22½	22½	22½	23½	27½	27½
O—Firebox Width.....In.	36	36	42	42	48	48	53	53	59	59	65	71	71	77	77
P—Firebox Length.....In.	50	50	50	50	50	56	72	82	82	86	86	90	102	102	108
R—Firebox Height.....In.	41½	41½	44	44	49	49	49	49	52	52	54½	55	55	57	57
S—Grate Length.....In.	50	50	50	50	50	56	61	61	67	73	73	67	79	79	85
T—Base Width.....In.	47½	47½	53½	53½	59½	59½	66	66	72	72	78	84	84	90½	90½
U—Base Length.....In.	59½	59½	60	60	60	66	83	93	93	97	97	101½	113½	113½	119½
V—Base Height.....In.	14	14	14	14	14	14	17	17	17	17	17	17	17	21	21
W—Breaching Connection Length.....In.	32	32	34	34	40	40	44	44	51	51	54	60	60	64	64
X—Breaching Connection Width.....In.	9	9	11	11	12	12	14	14	15	15	19	18	18	22	22
Y—Breaching Connection Location.....In.	6½	6½	7½	7½	8	8	9	9	9½	9½	11½	11	11	13	13
Z—Rear Door Clearance.....In.	42	42	48	48	30	30	33	33	36	36	39	42	42	45	45
AA—Ash Pit Width.....In.	36	36	42	42	47½	47½	52½	52½	58½	58½	64	70	70	76	76
BB—Ash Pit Length.....In.	42½	42½	43	43	43	49	56	56	62	68	68	62	74	74	80
CC—Rear Stand Location.....In.	33	44	36	44	39	48	36	46	48	66	66	62	88	80	84
DD—Foundation Width.....In.	54	54	60	60	65½	65½	70½	70½	76½	76½	82	88	88	94	94
EE—Foundation Length.....In.	60½	60½	61	61	61	67	84	94	94	98	98	102½	114½	114½	120½
Number of Common Brick.....	No Bridgwall	No Bridgwall	No Bridgwall	No Bridgwall	No Bridgwall	No Bridgwall	185	185	200	200	220	240	240	315	315
Number of Fire Brick.....	No Bridgwall	No Bridgwall	No Bridgwall	No Bridgwall	No Bridgwall	No Bridgwall	48	95	80	60	68	150	150	160	160
*Outside Surface to Cover.....Sq. Ft.	115	125	130	140	155	170	195	225	245	280	295	310	365	400	450

*Front smokebox and front head below smokebox NOT included.

Kewanee Up-Draft Portable Boiler "800" Series



Section Kewanee Up-Draft Bulldog Boiler Setting Plan and Foundation.
Boilers Nos. 832-843

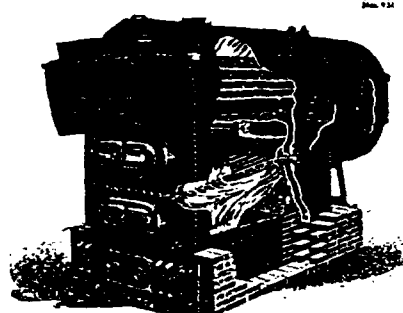
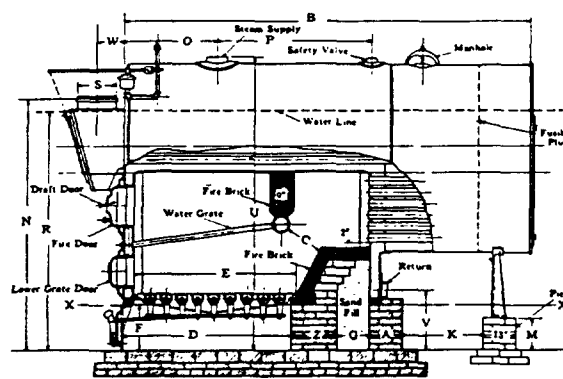
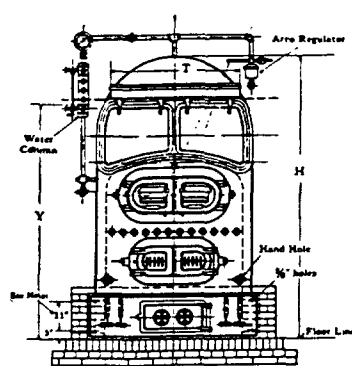


Specifications and Setting Measurements

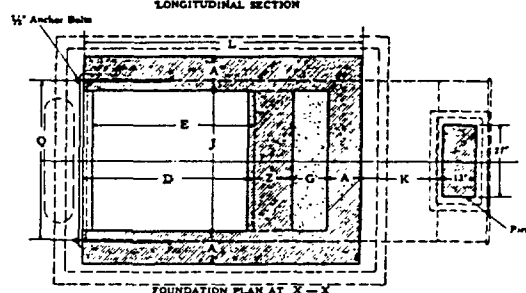
Number of Boiler.....	832	833	834	835	836	837	838	839	840	841	842	
Capacity, Steam..... Sq. Ft.	7920	8750	8770	10310	12170	14210	16000	17930	20710	24230	30700	35170
Capacity, Water..... Sq. Ft.	12670	14000	14030	16500	19470	22740	25600	28690	33140	38770	49120	56270
Width of Boiler..... Inches	48	48	54	54	60	60	66	66	72	72	78	78
Area of Grate..... Sq. Ft.	19.9	21.7	20.8	22.9	25.2	25.2	30.5	32.9	36.3	38.9	42.6	45.5
Heating Surface..... Sq. Ft.	566	625	666	763	910	1018	1143	1281	1479	1731	2193	2512
Width of Firebox..... Inches	42	42	48	48	53	53	59	59	65	65	71	71
Height of Firebox..... Inches	44	44	49	49	49	49	52	52	54½	54½	55	55
Size of Steam Opening..... Inches	8	8	8	8	8	8	8	8	8	8	10	10
Size of Return Opening..... Inches	5	5	5	5	6	6	6	6	6	6	6	6
Size of Safety Valve Opening..... Inches	3	3	3	3	3½	3½	4	4	2-2½	2-3	2-3	2-3
Outside Surface to Cover..... Sq. Ft.	175	190	195	210	235	255	260	285	300	335	370	410
Diameter of Breeching, One Boiler..... Inches	26	26	28	28	30	32	34	34	36	36	40	42
Diameter of Stack, One Boiler..... Inches	24	24	26	26	28	30	32	32	34	34	38	40
Height of Stack, One Boiler..... Feet	60	60	65	65	65	70	70	70	80	80	90	100
Diameter of Breeching, Two Boilers..... Inches	38	38	40	40	44	46	50	50	52	52	56	56
Diameter of Stack, Two Boilers..... Inches	34	34	36	36	40	42	46	46	48	48	54	54
Height of Stack, Two Boilers..... Feet	70	70	75	75	75	80	80	80	90	100	100	110
Approximate Weight..... Pounds	11400	12200	13000	14400	16000	17000	19800	21500	23600	25700	29400	32000
A—Thickness of Foundation Walls..... Inches	9	9	9	9	13	13	13	13	13	13	13	13
B—Length of Boiler..... Ft. In.	11-5	12-5	10-10	12-1	12-7	13-10	13-0	14-3	13-11	15-8	16-8	18-7
C—Length of Firebox..... Inches	68	74	62	68	68	74	74	80	80	86	86	92
D—Length of Ash-pit..... Inches	71	77	65	71	72	78	78	84	84	90	90	96
E—Width of Ash-pit..... Inches	43	43	49	49	53	53	59	59	65	65	71	71
F—Ash-pit Wall to Pier..... Inches	40	45	38	48	48	60	48	57	51	66	78	94
G—Height of Breeching Connection..... Inches	82	82	91	91	94	94	99	99	104	104	105½	105½
H—Height of Boiler..... Inches	92½	92½	101	101	106	106	112½	112½	118	118	119½	119½
J—Location of Steam Supply..... Inches	33	35½	25	33	33½	36	30	32	32½	41½	41½	39½
K—Location of Safety Valve..... Inches	74	81½	76½	78	81½	85	88	96	89	92	106	129
L—Height of Water-line..... Inches	78	78	87	87	91	91	96	96	101	101	102½	102½
M—Height of Ash-pit..... Inches	14	14	14	14	17	17	17	17	17	17	17	17
N—Height of Pier..... Inches	10½	10½	13½	13½	12	12	11½	11½	11	11	12½	12½
O—Height of Water Column..... Inches	76	76	85	85	88	88	93	93	98	98	99½	99½
P—Height of Steam Supply..... Inches	95	95	103	103	108	108	115	115	120	120	122	122
Q—Height of Return..... Inches	20	20	20	20	23	23	23	23	23	23	23	23
R—Width of Breeching Connection..... Inches	14	14	14	14	15	15	17	17	19	19	21	21
S—Length of Breeching Connection..... Inches	38	38	42	42	50	50	54	54	54	54	60	60
T—Ctr. to Ctr. Bolts in Ash-pit Front..... Inches	48	48	54	54	60	60	66	66	72	72	78	78
U—Ctr. to Ctr. Bolts in Ash-pit Front..... Inches	8	8	8	8	11	11	11	11	11	11	11	11
W—Boiler to Center of Breeching..... Inches	10	10	10	10	10½	10½	11½	11½	12½	12½	13½	13½
Size of Steam Supply..... Inches	8	8	8	8	8	8	8	8	8	8	10	10
Size of Return..... Inches	5	5	5	5	6	6	6	6	6	6	6	6
Size of Safety Valve..... Inches	3	3	3	3	3½	3½	4	4	2-2½	2-3	2-3	2-3
*Number of Common Brick Outside Surface to Cover..... Sq. Ft.	380	400	425	450	725	755	775	805	835	865	915	960
	175	190	195	210	235	255	260	285	300	335	370	410

*Foundation not included. Capacity for Oil, Gas or Stoker—Steam, 9620 to 42700 sq. ft.; Water, 60% Greater than Steam.

Kewanee Smokeless Portable Boiler "900" Series



Section Kewanee
Smokeless Bulldog
Boiler Setting Plan
and Foundation.
Boilers Nos. 932-943



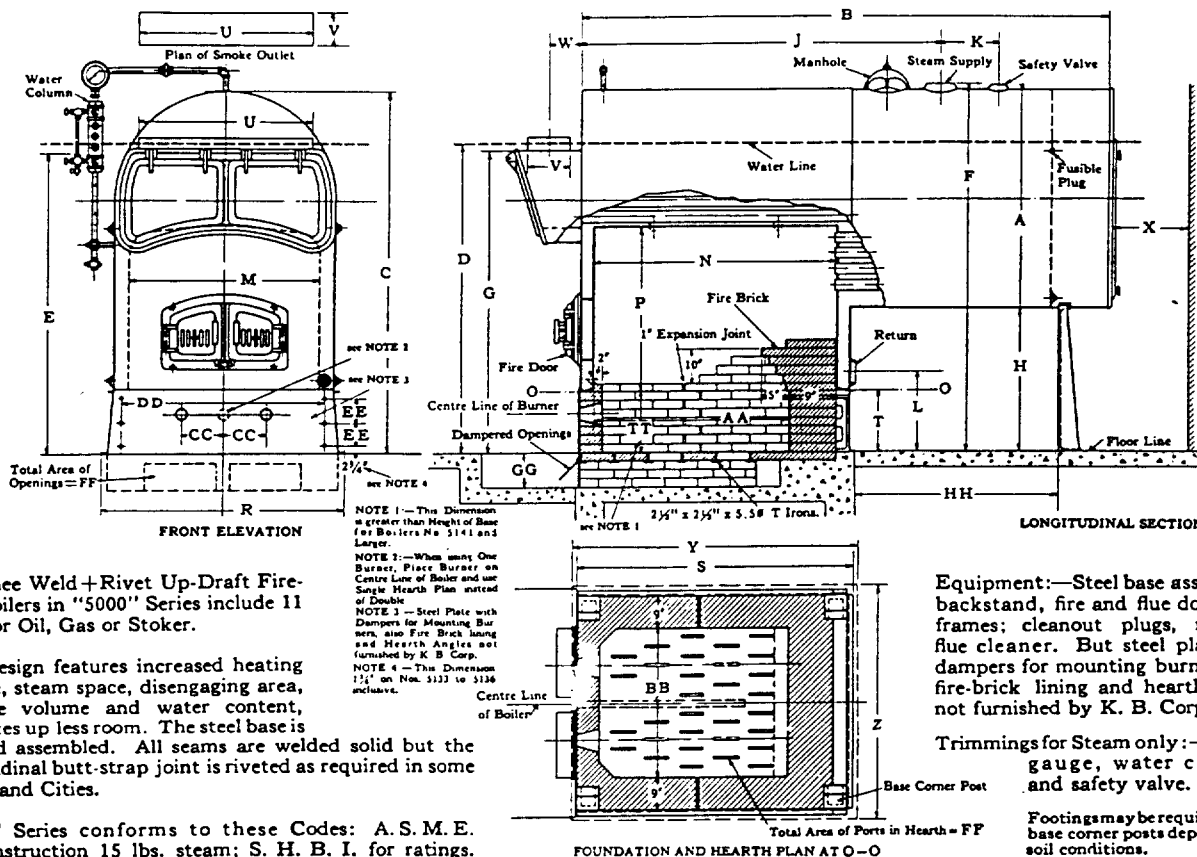
Specifications and Setting Measurements

Number of Boiler.....	932	933	934	935	936	937	938	939	940	941	942	943
Capacity, Steam.....Sq. Ft.	7560	8840	10070	10810	12940	15260	17110	18300	20870	21760	29010	36790
Capacity, Water.....Sq. Ft.	12100	14140	16110	17300	20700	24420	27380	29280	33390	34820	46420	58860
Width of Boiler.....Inches	48	48	54	54	60	60	66	66	72	72	78	78
Area of Upper Grate.....Sq. Ft.	15	16.5	18.13	19.48	21.03	23.25	25.86	27.09	29.90	31.71	38.59	41.56
Heating Surface.....Sq. Ft.	592	644	719	772	924	1090	1222	1307	1491	1554	2072	2628
Approximate Weight.....Pounds	12100	12700	14600	15400	18000	19700	21900	22900	25800	26700	30700	35000
Length of Firebox.....Inches	78	84	84	90	90	96	96	102	102	108	114	120
Width of Firebox.....Inches	42	42	48	48	53	53	59	59	65	65	71	71
Height of Firebox.....Inches	44	44	49	49	49	49	52	52	54½	54½	55	55
Size of Steam Opening.....Inches	8	8	8	8	8	8	8	8	8	8	10	10
Size of Return Opening.....Inches	5	5	5	5	6	6	6	6	6	6	6	6
Size of Safety Valve Opening.....Inches	2½	3	3	3	3½	3½	4	4	2-2½	2-2½	2-3	2-3
Outside Surface to Cover.....Sq. Ft.	180	190	205	220	240	270	280	295	305	320	365	435
Diameter of Breaching, One Boiler.....Inches	26	26	28	28	30	32	34	34	36	36	40	42
Diameter of Stack, One Boiler.....Inches	24	24	26	26	28	30	32	32	34	34	38	40
Minimum Height of Stack, One Boiler.....Feet	60	60	65	65	65	70	70	70	80	90	90	100
Diameter of Breaching, Two Boilers.....Inches	38	38	40	40	44	46	50	50	52	52	56	56
Diameter of Stack, Two Boilers.....Inches	34	34	36	36	40	42	46	46	48	48	54	54
Minimum Height of Stack, Two Boilers.....Feet	70	70	75	75	75	80	80	80	90	100	100	110
A—Thickness of Foundation Walls.....Inches	9	9	9	9	13	13	13	13	13	13	13	13
B—Length of Boiler.....Ft. In.	11-8	12-6½	11-8½	12-5½	13-0	14-9	13-11	14-9	14-4	14-11	16-7	19-9
C—Header to Bridgwall.....Inches	12½	14	14	15	15	16	16	17	17	18	18	19
D—Length of Ash-pit.....Inches	56	62	62	68	63	69	69	75	75	75	81	87
E—Length of Grate.....Inches	55	61	61	67	61	67	67	73	73	73	79	85
F—Height of Ash-pit.....Inches	14	14	14	14	17	17	17	17	17	17	17	17
G—Bridgwall to Rear Wall.....Inches	12	12	12	12	13	13	13	13	13	19	19	19
H—Height of Boiler.....Inches	92½	92½	101	101	106	106	112½	112½	118	118	119½	119½
J—Width of Ash-pit.....Inches	43	43	49	49	53	53	59	59	65	65	71	71
K—Rear Wall to Pier.....Inches	32	36	38	31	33	49	36	41	34	34	48	81
L—Length of Foundation.....Inches	90	96	96	102	107	113	113	119	119	125	131	137
M—Height of Pier.....Inches	10½	10½	13½	13½	12	12	11½	11½	11	11	12½	12½
N—Height of Breaching Connection.....Inches	82	82	91	91	94	94	99	99	104	104	105½	105½
O—Location of Steam Supply.....Inches	25	26	36	35	35	33½	30	32	32	30½	32	42
P—Location of Safety Valve.....Inches	55	59½	50	57	56½	65½	68	71	57½	66	69½	66
Q—Bolts Centers Ash-pit Front.....Inches	48	48	54	54	60	60	66	66	72	72	78	78
R—Height of Water-line.....Inches	78	78	87	87	91	91	96	96	101	101	102½	102½
S—Width of Smoke Neck.....Inches	14	14	14	14	15	15	17	17	19	19	21	21
T—Length of Smoke Neck.....Inches	38	38	42	42	50	50	54	54	54	54	60	60
U—Height of Steam Supply.....Inches	95	95	103	103	108	108	115	115	120	120	122	122
V—Height of Return.....Inches	20	20	20	20	23	23	23	23	23	23	23	23
W—Boiler to Center of Breaching.....Inches	10	10	10	10	10½	10½	11½	11½	12½	12½	13½	13½
Y—Height of Water Column.....Inches	76	76	85	85	88	88	93	93	98	98	99½	99½
Z—Thickness of Bridgwall.....Inches	13	13	13	13	18	18	18	18	18	18	18	18
*Number of Common Brick.....	625	650	1050	1075	1250	1300	1325	1375	1400	1475	1500	1575
Number of Fire Brick.....	155	155	185	185	190	190	220	220	230	230	290	290

*Foundation not included. Capacity for Oil, Gas or Stoker—Steam, 10060 to 44670 sq. ft.; Water, 60% Greater than Steam.

KEWANEE WELD+RIVET FIREBOX BOILER—For Oil, Gas or Stoker

□ □ □ □



Kewanee Weld+Rivet Up-Draft Firebox Boilers in "5000" Series include 11 sizes for Oil, Gas or Stoker.

This design features increased heating surface, steam space, disengaging area, furnace volume and water content, yet takes up less room. The steel base is shipped assembled. All seams are welded solid but the longitudinal butt-strap joint is riveted as required in some States and Cities.

"5000" Series conforms to these Codes: A. S. M. E. for construction 15 lbs. steam; S. H. B. I. for ratings.

Equipment:—Steel base assembled, backstand, fire and flue doors with frames; cleanout plugs, manhole, flue cleaner. But steel plate with dampers for mounting burners, also fire-brick lining and hearth angles not furnished by K. B. Corp.

Trimming for Steam only:—Steam gauge, water column, and safety valve.

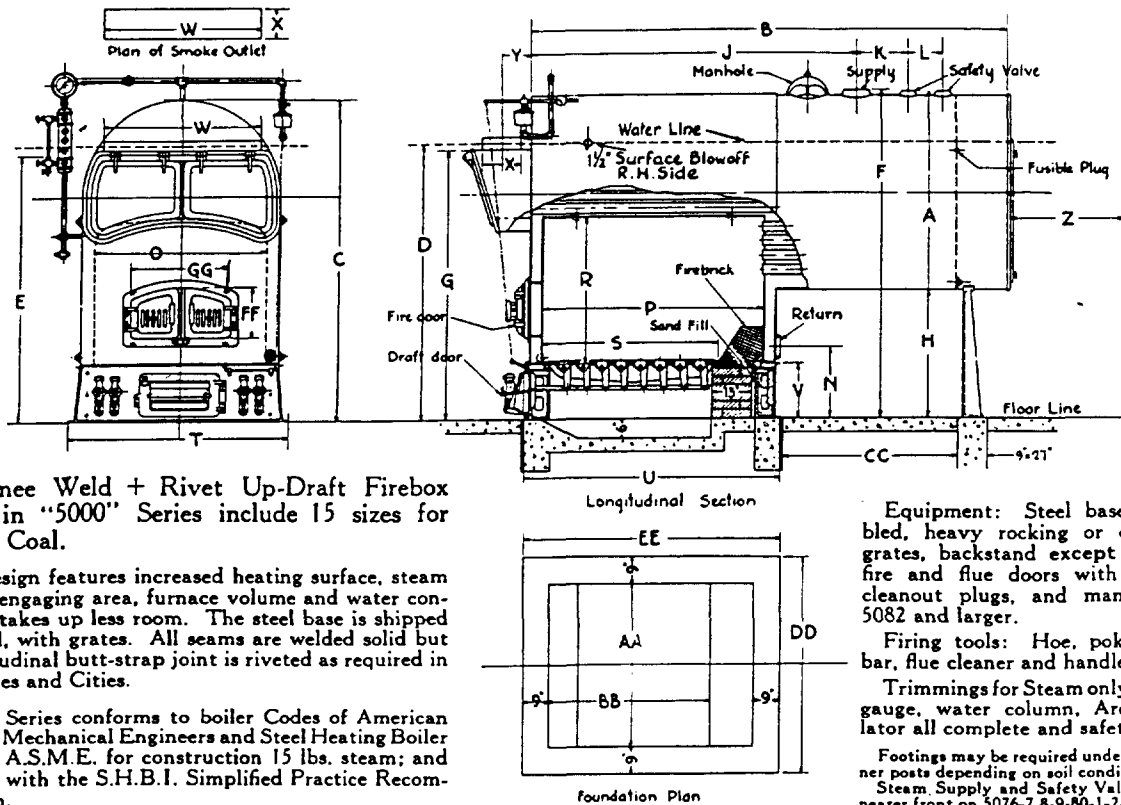
Footings may be required under base corner posts depending on soil conditions.

Boiler Number	5133	5134	5136	5138	5139	5140	5141	5142	5143	5144	5145
Rating—Steam	9110	10740	12530	15080	17580	21180	24450	29310	33490	39540	45000
—Water	14580	17180	20050	24130	28130	33890	39120	46900	53580	63260	72000
Heating Surface	536	632	737	887	1034	1246	1438	1724	1970	2326	2647
Furnace Volume	78	87	96	114	125	151	175	209	239	282	321
A—Boiler Diameter	54	54	54	60	60	66	66	72	72	78	78
B—Boiler Length	9-9	11-2	12-9	12-3	13-11	14-1	15-10	15-5	17-3	17-9	19-8
C—Boiler Height Over-all	92 1/2	92 1/2	92 1/2	100 1/2	100 1/2	105	105	111	111	117	117
D—Water-line	78	78	78	86 1/2	86 1/2	88 1/2	88 1/2	95	95	98	98
Breeching Diameter	25	26	28	29	31	32	34	36	39	41	43
Stack Diameter	23	24	26	27	29	30	32	34	36	38	40
Stack Height	55	65	75	75	85	80	90	90	100	100	115
Breeching Diameter, Two Boilers	32	34	36	39	41	43	45	48	51	54	56
Stack Diameter, Two Boilers	30	32	34	36	38	40	42	45	47	50	52
Stack Height, Two Boilers	65	75	85	85	95	90	100	100	110	110	125
Steam Supply Size	8	8	8	8	8	8	8	10	10	10	10
Return Size	5	5	6	6	6	6	6	6	6	6	6
Safety Valve Size	3	3	3 1/2	3 1/2	4	2-2 1/2	2-2 1/2	2-3	2-3	2-3	2-3 1/2
Shipping Weight	8200	9100	10000	11500	12600	15500	17000	19400	21300	24200	26500
E—Water Column Height	76	76	76	83 1/2	83 1/2	85 1/2	85 1/2	92	92	95	95
F—Steam Supply Height	94	94	94	102	102	106	106	112	112	118	118
G—Breeching Connection Height	77	77	77	83 1/2	83 1/2	85 1/2	85 1/2	92 1/2	92 1/2	96	96
H—Rear Stand Height	38	38	38	40	40	38	38	38	38	38	38
J—Steam Supply Location	1-6	8-0	9-3	8-9	10-0	10-0	11-0	10-8	12-0	12-0	13-0
K—Safety Valve Location	18	14	14	14	14	14	16	16	16	16	24
L—Return Height	19	19	19	22	22	22	22	22	22	22	22
M—Firebox Width	48 1/2	48 1/2	48 1/2	54	54	60	60	66	66	72	72
N—Firebox Length	56	62	68	68	74	74	80	80	86	86	92
P—Firebox Height	46	46	46	46	46	48	48	51	51	54	54
R—Base Width	58 1/2	58 1/2	58 1/2	65	65	71	71	77	77	83	83
S—Base Length	66	72	78	79	85	85	91	91	97	97	103
T—Base Height	14	14	14	17	17	17	17	17	17	17	17
U—Breeching Connection Length	40	40	40	44	44	51	51	54	54	60	60
V—Breeching Connection Width	15 1/2	15 1/2	15 1/2	17	17	18	18	24	24	26	26
W—Breeching Connection Location	9 1/2	9 1/2	9 1/2	10 1/2	10 1/2	11	11	14	14	15	15
X—Rear Door Clearance	30	30	30	33	33	36	36	39	39	42	42
Y—Foundation Length	67	73	79	80	86	86	92	92	98	98	104
Z—Foundation Width	65 1/2	65 1/2	65 1/2	70 1/2	70 1/2	76 1/2	76 1/2	82	82	88	88
AA—Furnace Length	47	53	59	59	65	65	71	71	77	77	83
BB—Furnace Width	36	36	36	42	42	48	48	54	54	60	60
CC—Burners Location	8 1/2	8 1/2	8 1/2	9 1/2	9 1/2	11	11	12 1/2	12 1/2	14	14
DD—Bolt Centers in Plate	49 1/2	49 1/2	49 1/2	55 1/2	55 1/2	61 1/2	61 1/2	67 1/2	67 1/2	73 1/2	73 1/2
EE—Bolt Centers in Plate	4 1/2	4 1/2	4 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2
FF—Ports or Openings Total Area	136	160	188	230	264	317	366	440	500	590	670
Pit Depth	10	10	10	10	10	11	18	22	27 1/2	31 1/2	38 1/2
—Rear Stand Location	3-6	4-6	5-6	4-9	5-11	5-10	7-2	6-7	8-0	8-4	9-10
—Hearth to Bottom of Boiler	14	14	14	17	17	17	24	27	32 1/2	36 1/2	43
Number of Fire Brick	460	500	520	620	650	700	860	970	1150	1300	1550
Outside Surface to Cover	157	178	201	211	238	258	289	306	341	376	418

KEWANEE WELD+RIVET FIREBOX BOILER

"5000" Series Up-Draft For Coal

For Coal



Kewanee Weld + Rivet Up-Draft Firebox Boilers in "5000" Series include 15 sizes for Burning Coal.

This design features increased heating surface, steam space, disengaging area, furnace volume and water content, yet takes up less room. The steel base is shipped assembled, with grates. All seams are welded solid but the longitudinal butt-strap joint is riveted as required in some States and Cities.

"5000" Series conforms to boiler Codes of American Society of Mechanical Engineers and Steel Heating Boiler Institute: A.S.M.E. for construction 15 lbs. steam; and for rating with the S.H.B.I. Simplified Practice Recommendation.

Equipment: Steel base assembled, heavy rocking or dumping grates, backstand except 5076-7; fire and flue doors with frames; cleanout plugs, and manhole on 5082 and larger.

Firing tools: Hoe, poker, slice bar, flue cleaner and handle.

Trimings for Steam only: Steam gauge, water column, Arco regulator all complete and safety valve.

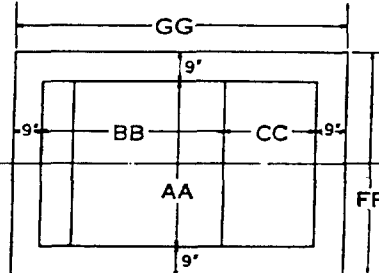
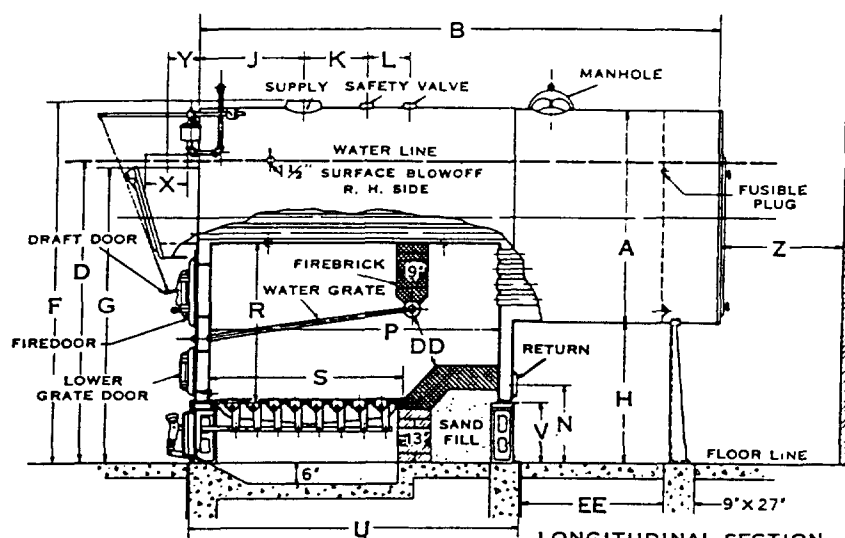
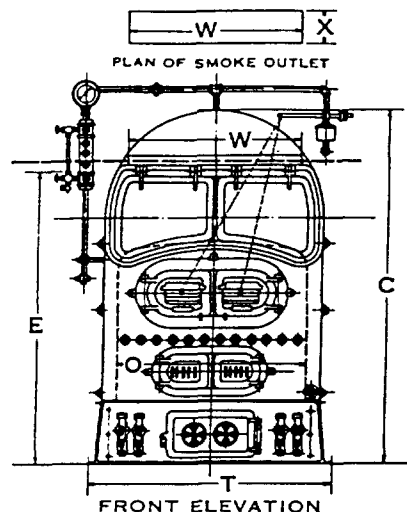
Footings may be required under base corner posts depending on soil conditions. Steam, Supply and Safety Valve located nearer front on 5076-7-8-9-80-1-2-3-4 and 6.

Specifications and Setting Measurements

Boiler Number	5076	5077	5078	5079	5080	5081	5082	5083	5084	5085	5086	5087	5088	5089	5090
Rating—Steam Radiation..... Sq. Ft.	3500	4000	4500	5000	6000	7000	8500	10000	12500	15000	17500	20000	25000	30000	35000
Water Radiation..... Sq. Ft.	5600	6400	7200	8000	9600	11200	13600	16000	20000	24000	28000	32000	40000	48000	56000
Btu. per Hour..... 1000's	840	960	1080	1200	1440	1680	2040	2400	3000	3600	4200	4800	6000	7200	8400
Heating Surface (SHBI min.)..... Sq. Ft.	250	286	322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500
Grate Area (SHBI min.)..... Sq. Ft.	11.4	12.2	13.4	14.5	16.4	18.1	20.5	22.5	25.6	28.4	30.9	33.2	37.4	41.2	44.7
Breaching Diameter, One Boiler..... In.	19	20	21	22	23	24	26	28	30	31	33	35	39	41	43
Stack Diameter, One Boiler..... In.	17	18	19	20	21	22	24	26	28	29	31	33	36	38	40
Stack Height, One Boiler..... Ft.	50	55	60	60	60	65	65	70	70	80	80	85	90	100	110
Breaching Diameter, Two Boilers..... In.	25	26	27	28	30	31	34	36	40	41	44	47	50	54	56
Stack Diameter, Two Boilers..... In.	23	24	25	26	28	29	32	34	37	38	41	44	47	50	52
Stack Height, Two Boilers..... Ft.	60	65	70	70	70	75	75	80	80	90	90	95	100	110	120
Steam Supply Size..... In.	6	6	6	6	6	8	8	8	8	8	8	8	10	10	10
Return Size..... In.	3	3	3	3	3	4	4	4	4	4	4	4	6	6	6
Safety Valve Size..... In.	2	2	2	2 1/2	2 1/2	2 1/2	3	3	3	2-2 1/2	2-2 1/2	2-2 1/2	2-2 1/2	2-3	2-3
Shipping Weight..... Lbs.	5100	5600	6100	6600	7500	8400	9600	10800	12600	14400	16100	17900	21200	24400	27500
A—Boiler Diameter..... In.	42	42	42	42	48	48	54	54	60	60	66	66	72	78	78
B—Boiler Length..... Ft.-In.	7-3	8-0	8-11	9-10	9-9	11-1 1/2	11-1	12-9	13-2 1/2	14-5 1/2	16-0 1/2	16-8 1/2	17-5 1/2	19-8 1/2	19-8 1/2
C—Boiler Height Overall..... In.	81	81	81	81	86 1/2	86 1/2	92 1/2	92 1/2	100 1/2	100 1/2	105	105	112	117	117
D—Water Line..... In.	70	70	70	70	73 1/2	73 1/2	78	78	84	84	86	86	94 1/2	96	96
E—Water Column Height..... In.	68	68	68	68	71 1/2	71 1/2	76	76	82	82	84	84	92 1/2	94	94
F—Steam Supply Height..... In.	81 1/2	81 1/2	81 1/2	81 1/2	88	88	94	94	102	102	106	106	113	118	118
G—Breaching Connection Height..... In.	70	70	70	70	74	74	77 1/2	77 1/2	83 1/2	83 1/2	85 1/2	85 1/2	93	96	96
H—Rear Stand Height..... In.	38	38	38	38	38	38	38	38	40	40	38	38	39	38	38
J—Steam Supply Location..... Ft.-In.	1-4	1-4	1-5	1-5	1-5	1-5	2-0	2-6	2-6	10-9	2-9	11-0	12-0	12-3	13-0
K—Safety Valve Location..... In.	17	17	18	18	18	18	18	18	18	18	18	18	18	18	24
L—2nd Safety Valve Location..... In.	18	18	18	18	18	18	18	18	12	12	12	12	12	15	15
N—Return Height..... In.	18	18	18	18	18	18	18	18	21	21	21	21	22	22	22
O—Firebox Width..... In.	36 1/2	36 1/2	36 1/2	36 1/2	42 1/2	42 1/2	48 1/2	48 1/2	53 1/2	53 1/2	59 1/2	59 1/2	65 1/2	71 1/2	71 1/2
P—Firebox Length..... In.	50	50	56	56	62	62	72	82	82	86	86	90	102	102	108
R—Firebox Height..... In.	42	42	42	42	44	44	46	46	47	47	47 1/2	47 1/2	50 1/2	53 1/2	53 1/2
S—Grate Length..... In.	50	50	56	56	62	62	61	67	73	79	79	85	85	85	91
T—Base Width..... In.	47 1/2	47 1/2	47 1/2	47 1/2	53 1/2	53 1/2	59 1/2	59 1/2	66	66	72	72	78	84	84
U—Base Length..... In.	60	60	66	66	72	72	82	92	93	97	97	101 1/2	113 1/2	113 1/2	119 1/2
V—Base Height..... In.	14	14	14	14	14	14	14	14	17	17	17	17	17	17	17
W—Breaching Connection Length..... In.	32	32	32	32	34	34	40	40	44	44	51	51	54	60	60
X—Breaching Connection Width..... In.	9	9	9	9	11	11	12	12	14	14	15	15	19	18	18
Y—Breaching Connection Location..... In.	6 1/2	6 1/2	6 1/2	6 1/2	7 1/2	7 1/2	8	8	9	9	9 1/2	9 1/2	11 1/2	11	11
Z—Rear Door Clearance..... In.	42	42	42	42	48	48	30	30	33	33	36	36	39	42	42
AA—Ash Pit Width..... In.	36	36	36	36	42	42	47 1/2	47 1/2	52 1/2	52 1/2	58 1/2	58 1/2	64	70	70
BB—Ash Pit Length..... In.	43	43	49	49	55	55	62	68	74	74	80	80	86	86	86
CC—Rear Stand Location..... In.	30	30	35	35	39	39	48	48	51	51	60	60	75	78	78
DD—Foundation Width..... In.	54	54	54	54	60	60	65 1/2	65 1/2	70 1/2	70 1/2	76 1/2	76 1/2	82	88	88
EE—Foundation Length..... In.	61	61	67	67	73	73	83	93	94	98	102 1/2	102 1/2	114 1/2	114 1/2	120 1/2
FFxGG—Fire Dr. Opng. for Coal, Oil & Gas..... In.	One 12x20			One 15x23			One 16x30			One 16x36			Two 15x23		
Fire Door Style.....	Single Frame & Door			Single Frame and Double Doors			Single Frame and Double Doors			Single Frame and Double Doors			R&L Single Fr. & Dr.		
Number of Common Brick.....	175			175			185			200			220		
Number of Fire Brick.....	35			50			40			40			85		
*Outside Surface to Cover..... Sq. Ft.	100	110	120	130	140	160	177	202	227	260	265	292	330	370	416

*Front smokebox and front head below smokebox NOT included.

KEWANEE WELD+RIVET SMOKELESS BOILER "6000" Series Down-Draft For Coal



Kewanee Weld + Rivet Down-Draft Smokeless Boilers in "6000" Series include 14 sizes for Burning Coal as listed.

This design features increased heating surface, steam space, disengaging area, furnace volume and water content, yet takes up less room; with the addition of the down-draft water grate for extreme smokeless operation. The steel base is shipped assembled, with lower grates. All seams are welded solid but the longitudinal butt-strap joint is riveted as required in some States and Cities.

"6000" Series conforms to the A.S.M.E. Boiler Code or construction 15 lbs. and for rating with the S.H.B.I. simplified practice recommendation.

Steam Supply and Safety Valve located rear of Manhole on 6085-87-8-9 and 90.

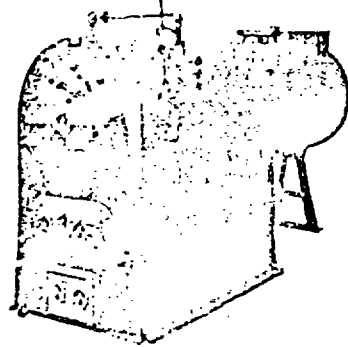
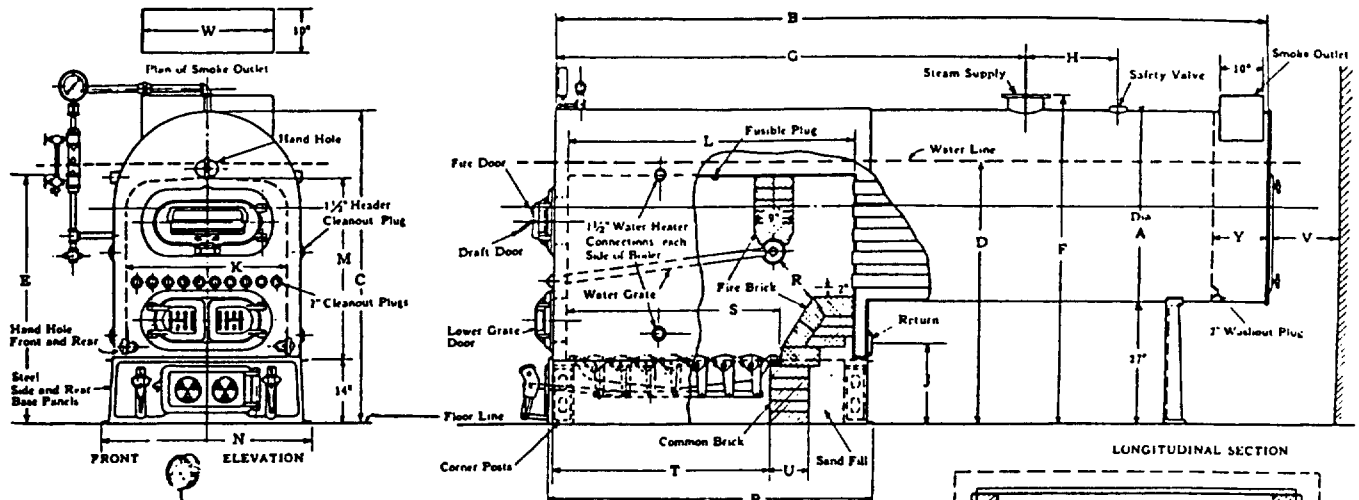
Footings may be required under base corner posts depending on soil conditions.

Specifications and Setting Measurements

Boiler Number	6077	6078	6079	6080	6081	6082	6083	6084	6085	6086	6087	6088	6089	6090
Rating—Steam Radiation	Sq. Ft. 4000	4500	5000	6000	7000	8500	10000	12500	15000	17500	20000	25000	30000	35000
Water Radiation	Sq. Ft. 6400	7200	8000	9600	11200	13600	16000	20000	24000	28000	32000	40000	48000	56000
Btu. per Hour	1000's 960	1080	1200	1440	1680	2040	2400	3000	3600	4200	4800	6000	7200	8400
Heating Surface (SHBI min.)	Sq. Ft. 286	322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500
Grate Area (SHBI min.)	Sq. Ft. 12.2	13.4	14.5	16.4	18.1	20.5	22.5	25.6	28.4	30.9	33.2	37.4	41.2	44.7
Breaching Diameter	In. 20	21	22	23	24	26	28	30	31	33	35	39	41	43
Stack Diameter	In. 18	19	20	21	22	24	26	28	29	31	33	36	38	40
Stack Height	Ft. 55	60	60	60	65	65	70	75	85	85	95	95	105	115
Breaching Diameter, Two Boilers	In. 26	27	28	30	31	34	36	40	41	44	47	50	54	56
Stack Diameter, Two Boilers	In. 24	25	26	28	29	32	34	37	38	41	44	47	50	52
Stack Height, Two Boilers	Ft. 65	70	70	70	75	75	80	85	95	95	105	105	115	125
Steam Supply Size	In. 6	6	6	8	8	8	8	8	8	8	8	10	10	10
Return Size	In. 3	3	3	4	4	4	4	4	4	4	4	6	6	6
Safety Valve Size	In. 2	2	2½	2½	2½	3	3	2-2½	2-2½	2-2½	2-2½	2-2½	2-3	2-3
Shipping Weight	Lbs. 5800	6300	6800	7700	8600	9900	11200	13100	14900	16600	18300	21500	24500	27300
A—Boiler Diameter	In. 42	42	42	48	48	54	54	60	60	66	66	72	78	78
B—Boiler Length	Ft. In. 8-2	8-8	9-6	9-7	11-0	10-8½	12-4½	12-9½	14-9½	14-0½	15-7½	16-4½	17-1	19-4
C—Boiler Height Overall	In. 81	81	81	86½	86½	92½	92½	100½	100½	105	105	112	117	117
D—Water Line	In. 70	70	70	73½	73½	78	78	84	84	86	86	94½	96	96
E—Water Column Height	In. 68	68	68	71½	71½	76	76	82	82	84	84	92½	94	94
F—Steam Supply Height	In. 81½	81½	81½	88	88	94	94	102	102	106	106	113	118	118
G—Breaching Connection Height	In. 70	70	70	74	74	77½	77½	83½	83½	85½	85½	93	96	96
H—Rear Stand Height	In. 38	38	38	38	38	38	38	40	40	38	38	39	38	38
J—Steam Supply Location	Ft. In. 1-5	1-5	1-5	1-5	1-5	2-0	2-6	2-6	10-6	2-9	11-0	11-9	12-3	13-0
K—Safety Valve Location	In. 18	18	18	18	18	18	18	18	16	18	18	18	18	24
L—Safety Valve Location	In. 18	18	18	18	18	18	18	18	12	12	12	12	14	15
N—Return Height	In. 18	18	18	18	18	18	18	18	21	21	21	21	22	22
O—Firebox Width	In. 36½	36½	36½	42½	42½	48½	48½	53½	53½	59½	59½	65½	71½	71½
P—Firebox Length	In. 62	62	66	64	72	72	82	82	86	86	90	102	102	108
R—Firebox Height	In. 42	42	42	44	44	46	46	47	47	47½	47½	50½	53½	53½
S—Grate Length	In. 37	43	43	43	49	49	55	55	61	61	61	67	67	73
T—Base Width	In. 47½	47½	47½	53½	53½	59½	59½	66	66	72	72	78	84	84
U—Base Length	In. 71½	71½	74½	73½	82	82	92	93	97	97	101½	113½	113½	119½
V—Base Height	In. 14	14	14	14	14	14	14	17	17	17	17	17	17	17
W—Breaching Connection Length	In. 32	32	32	34	34	40	40	44	44	51	51	54	60	60
X—Breaching Connection Width	In. 9	9	9	11	11	12	12	14	14	15	15	19	18	18
Y—Breaching Connection Location	In. 6½	6½	6½	7½	7½	8	8	9	9	9½	9½	11½	11	11
Z—Rear Door Clearance	In. 42	42	42	48	48	30	30	33	33	36	36	39	42	42
AA—Ash Pit Width	In. 36	36	36	42	42	47½	47½	52½	52½	58½	58½	64	70	70
BB—Ash Pit Length	In. 31	37	37	37	43	43	49	50	56	56	56	62	62	68
CC—Bridge Wall to Rear Wall	In. 23½	17½	20½	19½	22	22	26	26	24	24	28½	34½	34½	34½
DD—Header to Bridgwall	In. 10	11	11½	11	12	12	13	14	15	15	16	16	17	18
EE—Rear Stand Location	In. 54	54	54	60	60	65½	65½	70½	70½	76½	76½	82	88	88
FF—Foundation Width	In. 72½	72½	75½	74½	83	83	93	93	98	102½	102½	114½	114½	120½
GG—Foundation Length	In. 135	135	135	155	155	175	175	185	185	200	200	220	240	240
Number of Common Brick	100	100	100	120	120	150	150	175	175	190	190	280	305	305
Number of Fire Brick	100	100	100	120	120	150	150	175	175	190	190	280	305	305
*Outside Surface to Cover	Sq. Ft. 110	115	125	140	160	170	195	220	250	260	285	330	360	410

*Front smokebox and front head below smokebox NOT included.

KEWANEE "G" SERIES SMOKELESS BOILER — For Burning Coal



The Kewanee "G" Series Smokeless Boiler is a single-pass portable firebox boiler with down-draft grates. All seams electrically welded. The steel base is shipped assembled, with lower grates. For heating average to medium size buildings where smoke ordinances are stringent, this "G" Series effectively fulfills welded smokeless boiler specifications.

"G" Series conforms to boiler Codes of American Society of Mechanical Engineers and Steel Boiler Institute: A.S.M.E. for construction 15 lbs. steam; and for rating with the S.B.I. Simplified Practice Recommendation.

Equipment:—Steel base assembled, with heavy rocking grates, backstand; draft, fire, grate and flue doors with frames; handholes and cleanout plugs; special fire brick tile first course to fit header.

Firing tools:—Hoe, poker, slice bar; flue and tube cleaners, socket wrench.

Trimming for Steam only:—Steam gauge, water column, safety valve, all complete.

Damper regulator if required.

Kewanee "G" Series Boiler

Boiler Number	G-18	G-22	G-26	G-30	G-35	G-40	G-45	G-50	G-60
SBI Rating—Steam Radiation.....sq. ft.	1800	2200	2600	3000	3500	4000	4500	5000	6000
—Water Radiation.....sq. ft.	2880	3520	4160	4800	5600	6400	7200	8000	9600
—Btu per Hour.....1000's	432	528	624	720	840	960	1080	1200	1440
SBI Net Rating—Steam.....sq. ft.	1500	1830	2170	2500	2920	3330	3750	4170	5000
—Water.....sq. ft.	2400	2930	3470	4000	4670	5330	6000	6670	8000
—Btu per Hour.....1000's	360	439	521	600	700	800	900	1000	1200
Heating Surface, SBI min.....sq. ft.	129	158	186	215	250	286	322	358	429
Grate Area, SBI min.....sq. ft.	7.9	8.9	9.7	10.5	11.4	12.2	13.4	14.5	16.4
Safety Valve Capacity.....Lb. steam per hour	645	790	930	1075	1250	1430	1610	1790	2145
A—Boiler Diameter.....in.	36	36	36	36	36	42	42	42	42
B—Boiler Length.....ft. in.	8-0	9-0	10-4	11-4	12-10	11-4	12-4	13-4	15-5
C—Boiler Head Height Over-all.....in.	63	63	63	63	63	69	69	69	69
D—Water-line.....in.	54	54	54	54	54	58	58	58	58
Breeching Diameter.....in.	16	17	18	18	19	20	21	22	23
Stack Diameter.....in.	14	15	16	16	17	18	19	20	21
Stack Height.....ft.	40	40	45	45	45	45	45	45	50
Breeching Diameter, Two Boilers.....in.	22	23	24	24	25	26	27	28	30
Stack Diameter, Two Boilers.....in.	20	21	22	22	23	24	25	26	28
Stack Height, Two Boilers.....ft.	45	45	50	50	50	50	50	50	55
Steam Supply Size.....in.	6	6	6	6	6	6	6	6	8
Return Size.....in.	3	3	3	4	4	4	4	4	4
Shipping Weight.....lbs.	3500	3900	4300	4700	5100	5600	6100	6600	7500
E—Water Column Height.....in.	52	52	52	52	52	56	56	56	56
F—Steam Supply Height, Flanged***.....in.	67 1/2	67 1/2	67 1/2	67 1/2	67 1/2	73 1/2	73 1/2	73 1/2	74
G—Steam Supply Location.....ft. in.	6-0	6-9	7-6	7-11	8-7	8-1	8-8	8-11	9-6
H—Safety Valve Location.....in.	20*	12	12	16	18	12	16	21	21
J—Return Height.....in.	18	18	18	18	18	18	18	18	19
K—Firebox Width.....in.	31	31	31	31	31	37	37	37	37
L—Firebox Length.....in.	52	52	58	58	64	61	64	66	72
M—Firebox Height.....in.	37	37	37	37	37	41	41	41	41
N—Base Width.....in.	41	41	41	41	41	47	47	47	47
P—Base Length.....in.	61	61	67	67	73	70	73	75	81
R—Header to Bridgeway.....in.	9	9	10	10	11	9	10	11	11
S—Grate Length.....in.	31	37	37	43	43	37	43	49	55
T—Ash Pit Length.....in.	32	38	38	44	44	38	44	50	56
U—Bridgeway Thickness.....in.	9	9	9	9	9	9	9	9	9
V—Rear Double Door Clearance.....in.	21	21	21	21	21	24	24	24	24
—Space to Draw Tubes.....ft. in.	1-9	2-6	3-3	4-6	5-6	4-3	5-0	5-9	7-6
W—Breeching Connection Length.....in.	24	24	24	24	24	30	30	30	30
Y—Shell Extension Depth.....in.	12	12	12	12	12	12	12	12	12
Number of Common Brick.....	85	75	85	75	75	85	85	85	85
Number of Fire Brick.....	90	80	90	80	80	100	100	100	100
**Outside Surface to Cover.....sq. ft.	86	91	102	116	126	125	135	150	171

*On G-18 only Safety Valve Location H is 20" to left of steam supply, instead of to right as shown for all other sizes

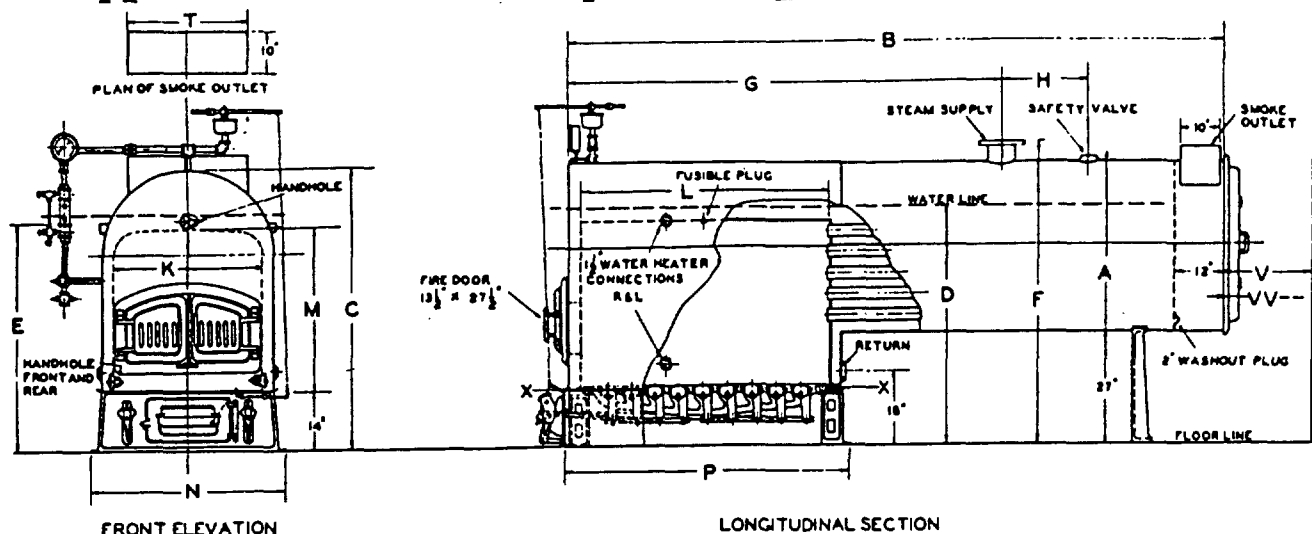
***Threaded outlet height 3" less.

**Front head NOT included

KEWANEE "GD" SERIES TWO-PASS PORTABLE SMOKELESS FIREBOX BOILER

Boiler Number	GD-40	GD-45	GD-50	GD-55	GD-60	GD-65	GD-70	GD-78	GD-85	GD-93	GD-100	GD-112	GD-125	GD-150	GD-175	GD-200	GD-250	GD-300	GD-350	GD-400
Rating—Steam.....	sq. ft. 4000	4500	5000	5500	6000	6500	7000	7800	8500	9300	10000	11200	12500	15000	17500	20000	25000	30000	35000	40000
—Water.....	sq. ft. 6400	7200	8000	8800	9600	10400	11200	12480	13600	14880	16000	17920	20000	24000	28000	32000	40000	48000	56000	64000
Heating Surface.....	sq. ft. 286	322	357	393	429	465	500	557	607	664	714	800	893	1071	1250	1429	1786	2143	2500	2857
Gross Area.....	sq. ft. 12.2	13.4	14.5	15.5	16.5	17.3	18.2	19.4	20.5	21.6	22.6	24.1	25.8	28.4	31.0	33.3	37.5	41.4	44.7	47.9
A—Boiler Diameter.....	in. 42	42	42	42	42	48	48	54	54	54	54	60	60	60	66	66	72	72	78	78
B—Boiler Length.....	ft. in. 7-10	8-9	9-6	10-4	9-9	10-4	11-0	10-0	10-9	11-8	12-3	11-3	12-3	14-3	15-9	16-1	18-6	18-11	21-1	21-1
C—Boiler Height Overall.....	in. 81	81	81	81	86	86	86	92	92	92	92	100	100	100	105	105	111	111	117	117
D—Water Line.....	in. 71	71	71	71	74	74	74	78	78	78	78	86	86	86	88	88	95	95	98	98
Breaching Diameter.....	in. 20	22	22	22	22	24	24	26	26	26	26	28	30	32	32	34	38	42	44	46
Stack Diameter.....	in. 20	20	20	20	22	22	22	24	24	24	24	26	28	30	30	32	36	38	40	42
Stack Height.....	ft. 45	45	50	55	50	55	60	60	65	70	75	70	75	85	90	90	100	100	100	115
Breaching Diameter, Two Boilers.....	in. 28	28	30	32	32	32	32	32	34	36	36	36	40	42	44	46	50	54	56	60
Stack Diameter, Two Boilers.....	in. 26	26	28	30	30	30	30	30	32	32	32	34	36	38	40	42	46	50	52	56
Stack Height, Two Boilers.....	ft. 55	55	60	65	60	65	70	70	75	80	85	80	85	95	90	100	100	110	110	125
Steam Supply Size.....	in. 6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	10	10	10	10
Return Size.....	in. 4	4	4	4	4	6	6	6	6	6	6	6	6	6	6	6	8	8	8	8
Safety Valve Size.....	in. 2	2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	3	3	3	3	3 1/2	2-2 1/2	2-2 1/2	2-2 1/2	2-2 1/2	2-3	2-3
Shipping Weight.....	lbs. 6000	6500	7000	7400	7900	8400	9100	10400	10700	11400	12300	13000	13800	15800	17800	20000	23000	28000	32000	34000
F—Water Column Height.....	in. 69	69	69	69	72 1/2	72 1/2	72 1/2	76	76	76	76	83 1/2	83 1/2	83 1/2	85 1/2	85 1/2	92	92	95	95
E—Steam Supply Height.....	in. 81 1/2	81 1/2	81 1/2	81 1/2	88	88	88	94	94	94	94	102	102	102	106	106	112	112	118	118
G—Breaching Connection Height.....	in. 70	70	70	70	74	74	74	77	77	77	77	83 1/2	83 1/2	83 1/2	85 1/2	85 1/2	92 1/2	92 1/2	96	96
H—Rear Stand Height.....	in. 38	38	38	38	38	38	38	38	38	38	38	38	40	40	40	40	46	46	46	46
J—Steam Supply Location.....	ft. 1-5	1-5	1-5	1-5	1-4	1-4	1-5	1-4	1-5	1-5	1-5	1-5	1-6	10-6	10-8	11-6	13-0	13-6	15-0	15-0
K—Safety Valve Location.....	in. 18	18	18	18	17	17	18	17	18	17	17	17	18	16	12	14	16	16	16	24
L—Return Height.....	in. 18	18	18	18	19	19	19	19	19	19	19	22	22	22	22	22	22	22	22	22
M—Firebox Width.....	in. 36 1/2	36 1/2	36 1/2	36 1/2	42 1/2	42 1/2	42 1/2	48 1/2	48 1/2	48 1/2	48 1/2	54	54	54	60	60	66	66	72	72
N—Firebox Length.....	in. 58	64	66	72	69	69	72	69	72	78	78	78	82	87	90	93	96	102	102	108
P—Firebox Height.....	in. 42	42	42	42	44	44	44	46	46	46	46	46	46	46	48	48	51	51	54	54
Q—Grate Length.....	in. 37	43	43	49	43	49	49	49	49	49	55	49	55	61	61	67	67	73	73	79
R—Base Width.....	in. 46 1/2	46 1/2	46 1/2	46 1/2	52 1/2	52 1/2	52 1/2	58 1/2	58 1/2	58 1/2	58 1/2	65	65	65	71	71	77	77	83	83
S—Base Length.....	in. 67	73	75	81	79	79	82	79	82	88	88	89	93	98	101	104	107	113	113	119
T—Base Height.....	in. 14	14	14	14	14	14	14	14	14	14	14	14	17	17	17	17	17	17	17	17
U—Breaching Connection Length.....	in. 32	32	32	32	34	34	34	40	40	40	40	44	44	44	51	51	54	54	60	60
V—Breaching Connection Width.....	in. 11 1/2	11 1/2	11 1/2	11 1/2	13 1/2	13 1/2	13 1/2	15 1/2	15 1/2	15 1/2	15 1/2	17	17	17	18	18	24	24	26	26
W—Breaching Connection Location.....	in. 7 1/2	7 1/2	7 1/2	7 1/2	8 1/2	8 1/2	8 1/2	9 1/2	9 1/2	9 1/2	9 1/2	10 1/2	10 1/2	10 1/2	11	11	14	14	15	15
X—Rear Door Clearance.....	in. 24	24	24	24	27	27	27	27	30	30	30	33	33	33	36	36	39	39	42	42
Y—Ash Pit Width.....	in. 36	36	36	36	42	42	42	47 1/2	47 1/2	47 1/2	47 1/2	49 1/2	49 1/2	55 1/2	58 1/2	58 1/2	64	64	70	70
Z—Ash Pit Length.....	in. 31	37	37	37	43	43	43	43	43	43	43	43	49 1/2	55 1/2	55 1/2	61 1/2	62	68	68	74
AA—Bridgeway Thickness.....	in. 9	9	9	9	13	13	13	13	13	13	13	13	18	18	18	18	18	18	18	18
BB—Bridgeway to Rear Foundation Wall.....	in. 19	19	21	21	25	19	22	19	22	28	22	28 1/2	26 1/2	25 1/2	28 1/2	25 1/2	28 1/2	28	28	28
CC—Header to Bridgeway.....	in. 9 1/2	10	11	12	11	11 1/2	12 1/2	11 1/2	13	13	13 1/2	14	15	15	15	16	16	18	18	19
DD—Rear Stand Location.....	ft. in. 1-6	1-10	2-5	2-10	2-3	2-10	3-3	2-6	3-0	3-5	4-0	2-10	3-6	5-1	4-8	5-11	7-10	8-3	9-11	9-11
Number of Common Brick.....	85	95	95	155	155	155	155	175	175	175	175	330	330	330	365	365	395	395	430	430
Number of Fire Brick.....	100	115	115	165	150	150	155	175	175	195	175	210	200	200	250	240	290	280	315	315
Outside Surface to Cover.....	sq. ft. 110	118	126	136	144	151	160	162	173	186	195	196	213	244	262	289	319	365	401	446

KEWANEE "P" SERIES FIREBOX BOILER — For Burning Coal



The Kewanee "P" Series Firebox Boiler is a single-pass portable up-draft boiler. All seams are welded. Steel base is shipped assembled with grates in place.

"P" Series conforms to A S M E Boiler Code for construction 15 lbs steam, 30 lbs water, and with S B I rating code.

EQUIPMENT:—Steel base assembled with cast iron ash pit front, and four cast iron corner posts, and heavy rocking or dumping grates; backstand; fire and flue doors with frames; handholes and cleanout plugs.

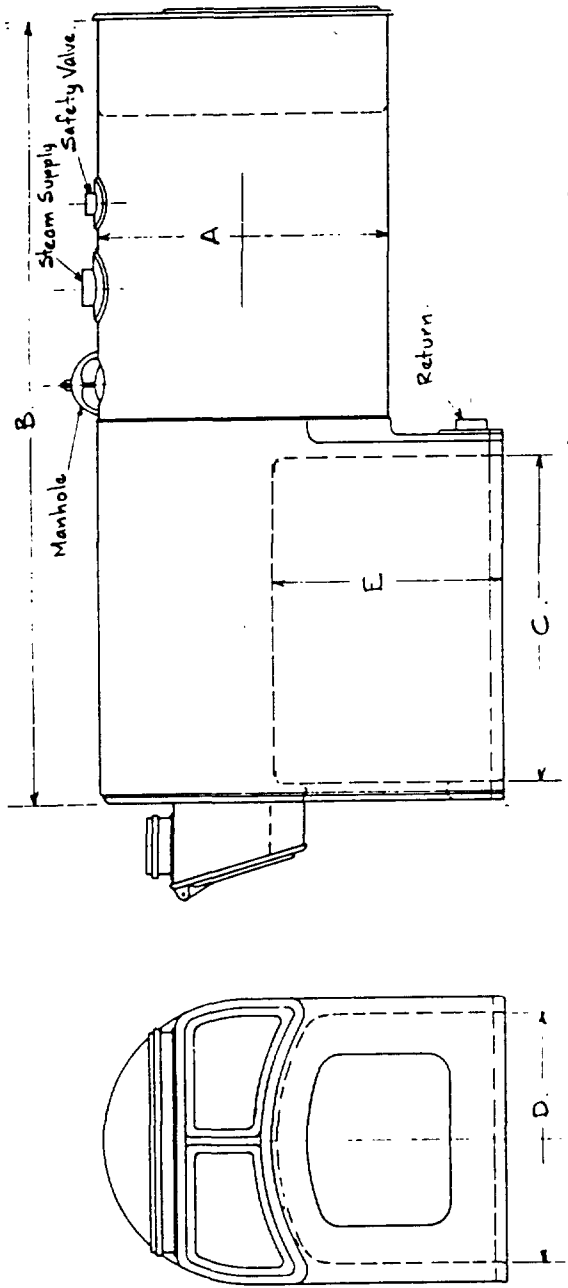
FIRING TOOLS:—Hoe, poker, slice bar, flue cleaner and handle.

TRIMMINGS for Steam Only:—Safety valve, steam gauge, syphon and cock, water column with gauge and cocks, damper regulator all complete.

Boiler Number	P-18	P-22	P-26	P-30	P-35	P-40	P-45	P-50	P-60
SBI Rating--Steam Radiation Sq Ft	1800	2200	2600	3000	3500	4000	4500	5000	6000
Water Radiation Sq Ft	2880	3520	4160	4800	5600	6400	7200	8000	9600
--Btu per Hour. 1000's	432	528	624	720	840	960	1080	1200	1440
SBI Net Rating--Steam Sq Ft	1500	1830	2170	2500	2920	3330	3750	4170	5000
Water Sq Ft	2400	2930	3470	4000	4670	5330	6000	6670	8000
--Btu per Hour. 1000's	360	439	521	600	700	800	900	1000	1200
Heating Surface, SBI min. Sq Ft	129	158	186	215	250	286	322	358	429
Grate Area, SBI min. Sq Ft	7.9	8.9	9.7	10.5	11.4	12.2	13.4	14.5	16.4
Safety Valve Capacity Lb. Steam per Hour	645	790	930	1075	1250	1430	1610	1790	2145
A-Boiler Diameter In	36	36	36	36	36	42	42	42	42
B-Boiler Length Ft In	7-7	9-0	10-4	11-4	12-11	11-0	12-4	13-7	15-8
C-Boiler Head Height In	63	63	63	63	63	69	69	69	69
D-Water Line In	54	54	54	54	54	58	58	58	58
Breeching Diameter. In	16	17	18	18	19	20	21	22	23
Stack Diameter. In	14	15	16	16	17	18	19	20	21
Stack Height. Ft	35	35	35	40	40	40	40	45	45
Breeching Diameter, 2 Boilers In	22	23	24	24	25	26	27	28	30
Stack Diameter, 2 Boilers In	20	21	22	22	23	24	25	26	28
Stack Height, 2 Boilers Ft	40	40	40	45	45	45	45	50	50
Steam Supply Size In	6	6	6	6	6	6	6	6	8
Return Size In	3	3	3	4	4	4	4	4	4
Shipping Weight Lbs	3240	3550	3900	4160	4550	5020	5500	5980	6940
E-Water Column Height In	52	52	52	52	52	56	56	56	56
F-Steam Supply Height, Flanged** In	67½	67½	67½	67½	67½	73½	73½	73½	74
G-Steam Supply Location Ft In	5-2	5-10	7-0	7-6	8-0	7-6	8-0	9-0	10-0
H-Safety Valve Location In	12	12	12	16	18	12	16	21	16
K-Firebox Width In	31	31	31	31	31	37	37	37	37
L-Firebox Length In	38	44	50	50	56	50	56	62	68
M-Firebox Height In	37	37	37	37	37	41	41	41	41
N-Base Width In	41	41	41	41	41	47	47	47	47
P-Base Length In	47	53	59	59	65	59	65	71	77
T-Breeching Connection Length In	24	24	24	24	24	30	30	30	30
V-Rear Single Door Clearance, min In	36	36	36	36	36	42	42	42	42
VV-Rear Space to Draw Tubes Ft In	2-5	3-4	4-2	5-2	6-3	4-10	5-8	6-5	8-0
*Outside Surface to Cover Sq Ft	80	83	106	116	132	130	144	158	182

*Front Head NOT included. ** Threaded outlet height 3" less.

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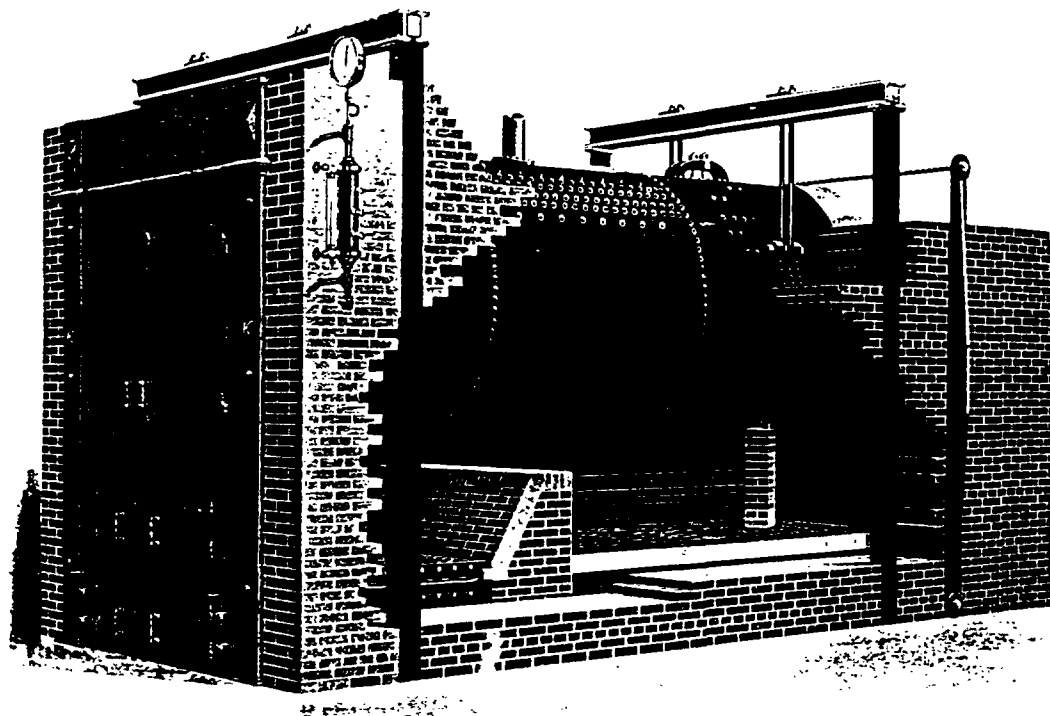


4000 Series Portable Firebox Boilers for Oil Burning in California

Number of Boiler.	4073	4083	4093	4103	4113	4123	4133	4143	4153	4163	4173	4183	4193	4203	4213	4223
Capacity Steam	SAFT	4100	4700	5600	6300	7000	7800	10000	11500	13000	15000	18000	20000	22000	25000	30000
Capacity Water	SAFT	6750	7750	9250	10400	11500	12900	16500	19000	21500	24800	29800	33000	36000	41000	56000
Diameter of Boiler	A in.	48	48	48	54	54	54	60	60	60	60	66	66	72	72	78
Length of Boiler	B Ft+in	8-7	9-6	11-1	10-0	11-1	12-1	12-5	13-7	14-4	16-2	15-9	17-4	15-11	17-6	19-4
Heating Surface	SAFT	278	310	373	416	465	515	668	760	862	979	1171	1311	1389	1552	2063
Grate Area	SAFT	96	111	126	129	147	165	207	227	228	272	305	328	361	388	425
Firebox Length	C in.	38	44	50	44	43	43	56	62	62	74	74	80	80	86	86
Firebox Width	D in.	36	36	36	43	44	44	44	48	48	53	59	59	65	65	71 1/4
Firebox Height	E in.	41 1/2	41 1/2	41 1/2	44	44	44	44	44	44	44	52	52	54 1/2	54 1/2	55
Direct Tubes	in x in	3 x 43	3 x 48	3 x 61	3 x 54	3 x 61	3 x 67	4 x 65	4 x 73	4 x 87	4 x 97	4 x 95	4 x 103	4 x 84	4 x 97	4 x 119
Return Tubes	in x in	3 x 83	3 x 85	3 x 114	3 x 101	3 x 114	3 x 126	3 x 130	3 x 144	3 x 153	3 x 175	3 x 168	3 x 187	3 x 168	3 x 187	3 x 209
Dia Breaching - 18lr	in.	22	22	22	24	24	24	24	26	28	28	30	32	34	34	36
Dia Stack - 18lr	in.	20	20	20	22	22	22	24	24	26	26	28	30	32	32	34
Height Stack - 18lr	Ft.	50	50	55	55	55	60	65	70	80	80	80	90	80	95	95
Dia Breaching - 28lrs	in.	30	30	30	34	34	34	38	38	40	40	44	46	50	50	52
Dia Stack - 28lrs	in.	28	28	28	31	31	31	34	34	36	36	40	42	46	46	48
Height Stack - 28lrs	Ft.	60	60	65	65	65	70	75	80	90	90	90	100	90	105	105
Steam Opening	in.	6	6	6	6	6	6	8	8	8	8	8	8	8	10	10
Return Opening	in.	4	4	4	4	4	4	5	5	5	5	6	6	6	6	6
Safety Valve Opening	in.	2	2	2 1/2	2 1/2	2 1/2	3	3	3	3 1/2	3 1/2	4	4	2-2 1/2	2-3	2-3
Height of Water Line	in.	71	71	71	76	76	76	83	83	87	87	90	90	76	96	98
Height from Floor to Top of Blr	in.	84	84	84	89	89	89	98	98	101	101	107	107	113	113	115
Approximate Weight	Lbs	6400	6800	7600	8300	9000	10200	11600	12440	13400	15240	18580	19920	21570	23050	24890
To Open Rear Doors Allow	in	26	26	26	28	28	28	32	32	32	32	35	35	37	37	40

Kewanee Horizontal Tubular Boiler

HRT



With Full-Front Setting—Suspended Independent of Masonry

Specifications for Kewanee Horizontal Tubular Boilers, Half or Full Front

Longitudinal Seams, all Butt Jointed, Quadruple Riveted

For 150 Pounds Working Pressure

Horsepower of Boiler as Rated	80	90	100	110	125	150	165	180	200
Code	PAGAN	PAGOD	PAISE	PALET	PALLA	PALSY	PANCH	PANCY	PAPER
Diameter of Boiler	60	60	66	66	72	72	72	78	78
Length of Tubes	16	18	16	18	16	18	20	18	20
Number of 3½-Inch Tubes	54	54	66	66	86	86	86	110	110
Number of 4-Inch Tubes	44	44	54	54	70	70	70	88	88
Heating Surface for 3½-Inch Tubes	791.7	890.6	967.6	1088.6	1260.8	1418.4	1576.0	1814.0	2015.9
Heating Surface for 4-Inch Tubes	737.2	823.4	901.8	1017.9	1172.9	1319.5	1466.0	1658.8	1843.1
Heating Surface for Shell	167.6	188.5	184.3	207.4	201.1	226.2	231.3	245.2	272.4
Thickness of Shell	1½	1½	1½	1½	1½	1½	1½	1½	1½
Thickness of Heads	1½	1½	1½	1½	1½	1½	1½	1½	1½
Width of Grates	60	60	66	66	72	72	72	78	78
Length of Grates	54	60	54	60	54	60	66	60	66
Area of Grates	22.5	25.0	24.75	27.5	27.0	30.0	33.0	32.5	35.75
Diameter of Stack	28	28	30	30	34	34	34	38	38
Length of Stack	60	60	60	60	60	60	70	60	70
Gauge of Stack	14	14	14	14	14	14	14	12	12
Length of Guys	600	600	600	600	600	600	700	600	700
Diameter of Guys	1½	1½	1½	1½	1½	1½	1½	1½	1½

Trimming

Size of Steam Opening	4	5	5	5	6	6	6	6	6
Size of Pop Safety Valves	Two 2½	Two 2½	Two 3	Two 3	Two 3	Two 3	*Two 3	Two 3½	*Two 3½
Size of Water Gauge Glass and Gauge Cocks	1½	1½	1½	1½	1½	1½	1½	1½	1½
Size of Water Column Connections	2	2	2	2	2½	2½	2½	2½	2½
Size of Blow-off	1½	1½	1½	1½	1½	1½	1½	2	2
Size of Feed and Check Valves	1½	1½	1½	1½	1½	1½	1½	2	2
Size of Steam Gauge Dial	8½	8½	8½	8½	8½	8½	8½	8½	8½

Weights

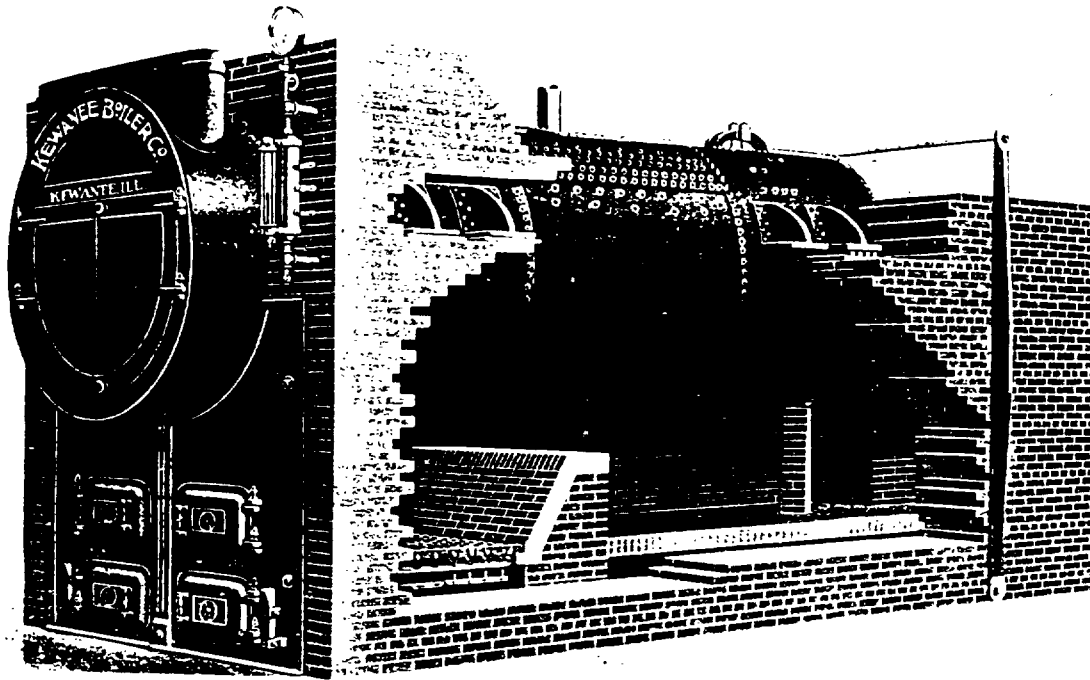
Bare Boiler, for Full-front Setting	13350	14700	16025	17660	19930	21900	23970	26810	29370
Bare Boiler, for Half-front Setting	13830	15180	16615	18250	20755	22725	24795	27835	30395
Full Front	2400	2400	2390	2310	2970	2970	2970	3170	3170
Half Front	1140	1140	1280	1280	1510	1510	1510	1700	1700
Grates	1040	1420	1090	1490	1145	1560	1890	1705	2065
Other Castings	380	380	395	395	430	430	430	725	725
Trimming	145	145	235	235	275	275	300	310	310
Stack and Guys	1600	1600	1750	1750	2000	2000	2300	2800	3300
Weight Complete, Full-front Setting	18915	20645	22105	24140	26750	29135	31860	35520	38940
Weight Complete, Half-front Setting	18135	19865	21385	23420	26115	28500	31225	35075	38495

Extras and Changes

Four Wall Plates and Rollers	500	500	500	500	500	500	500	500	500
Four Buck Bars and Cross Rods	575	575	630	630	750	750	750	800	800
Two Rear Diamond Washers with Rods	250	260	250	260	250	260	280	260	280
Fire-door Arch Liners	475	475	475	475	475	475	475	500	500

*With 3½-inch tubes safety valves are one size larger. †All openings over 3 inches will be forged steel flanged nozzles.

Kewanee Horizontal Tubular Boiler



With Half-Front Setting—Boiler Supported on Walls

Specifications for Kewanee Horizontal Tubular Boilers, Half or Full Front

Longitudinal Seams, all Butt Jointed, Triple Riveted

For 125 Pounds Working Pressure

Boiler as Rated	80	90	100	110	125	150	165	180	200
Code	OBDOCE	OBESE	OBJUR	OBLAT	OBOLB	OBTEB	OBTEB	ODELER	ODLER
Diameter of Boiler	60	60	66	66	72	72	72	78	78
Length of Tubes	16	18	16	18	16	18	20	18	20
Number of 3 1/4-Inch Tubes	54	54	66	66	86	86	86	110	110
Number of 4-Inch Tubes	44	44	54	54	70	70	70	88	88
Heating Surface for 3 1/4-Inch Tubes	791.7	890.6	967.6	1088.6	1260.8	1418.4	1576.0	1814.0	2015.9
Heating Surface for 4-Inch Tubes	737.2	829.4	904.8	1017.9	1172.9	1319.5	1466.0	1658.8	1843.1
Heating Surface for Shell	167.6	188.5	184.3	207.4	201.1	226.2	251.3	245.2	272.4
Thickness of Shell	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Thickness of Heads	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2
Width of Grates	60	60	66	66	72	72	72	78	78
Length of Grates	54	60	54	60	54	60	66	60	66
Area of Grates	22.5	25.0	24.75	27.5	27.0	30.0	33.0	32.5	35.75
Diameter of Stack	28	28	30	30	34	34	34	38	38
Length of Stack	60	60	60	60	60	60	70	60	70
Gauge of Stack	14	14	14	14	14	14	14	12	12
Length of Guys	600	600	600	600	600	600	700	600	700
Diameter of Guys	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2	1/2

Trimmings

Size of Steam Opening	4	5	5	5	6	6	6	6	6
Size of Pop Safety Valves	Two 2 1/2	Two 3	Two 3	Two 3	Two 3	Two 3 1/2	Two 3 1/2	Two 3 1/2	Two 4
Size of Water Gauge Glass and Gauge Cocks	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Size of Water Column Connections	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4
Size of Blow-off	2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Size of Feed and Check Valves	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2
Size of Steam Gauge Dial	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2	8 1/2

Weights

Bare Boiler, for Full-front Setting	pounds	12360	13790	14970	16460	18530	20380	22230	25480	27900
Bare Boiler, for Half-front Setting	pounds	13040	14270	15560	17050	19355	21205	23075	26505	28925
Full Front	pounds	2100	2400	2590	2590	2970	2970	2970	3170	3170
Half Front	pounds	1140	1140	1280	1280	1510	1510	1510	1700	1700
Grates	pounds	1040	1420	1090	1190	1145	1360	1890	1705	2065
Other Castings	pounds	380	380	395	395	430	430	430	725	725
Trimmings	pounds	225	225	225	225	235	260	260	335	335
Stack and Guys	pounds	1600	1600	1750	1750	2000	2000	2300	2800	3300
Weight Complete, Full-front Setting	pounds	18205	19815	21020	22910	25310	27600	30100	34215	37495
Weight Complete, Half-front Setting	pounds	17425	19035	20300	22190	24675	26965	29465	33770	37050

Extras and Changes

Four Wall Plates and Rollers	pounds	500	500	500	500	500	500	500	500	500
Four Buck Bars and Cross Rods	pounds	575	575	630	630	750	750	800	800	800
Two Rear Diamond Washers with Rods	pounds	250	260	250	260	250	260	280	280	280
Re-door Arch Liners	pounds	475	475	475	475	475	475	500	500	500

*With 3 1/4-inch tubes this boiler has two 3-inch safety valves

†All openings over 3 inches will be forged steel flanged nozzles.

KEWANEE HI-TEST Series HT

Specifications—

BOILER NUMBER		HT 50	HT 60	HT 75	HT 100	HT 125	HT 150
HORSEPOWER		50	60	75	100	125	150
STEAM RADIATION—HAND FIRED	SQ. FT.	7000	8400	10500	14000	17500	21000
—MECHANICALLY FIRED	SQ. FT.	8500	10200	12750	17000	21250	25500
HEATING SURFACE	SQ. FT.	500	600	750	1000	1250	1500
GRATE AREA OR PLAN AREA	SQ. FT.	18.3	20.3	22.5	27.5	30.2	35.7
FURNACE VOLUME	CU. FT.	72	90	105	140	181	213
FURNACE WIDTH	IN.	48	48	53	59	65	65
LENGTH	IN.	55	61	61	67	67	79½
HEIGHT ABOVE GRATES	IN.	40	46	46	50	60	60
CYLINDER DIAMETER, FRONT	IN.	42	42	42	48	54	54
REAR	IN.	66	66	72	78	84	84
BOILER LENGTH OVERALL	FT. IN.	12-5	13-5	14-3	15-5	16-2	18-6
BOILER HEIGHT, FLOOR TO TOP OF SHELL	IN.	107	113	113	125	142	142
WATER LINE HEIGHT	IN.	95	101	101	110	124	124
*STEAM SUPPLY SIZE	IN.	4	4	4	5	6	6
BLOW-OFF SIZE	IN.	2	2	2	2	2½	2½
FEED WATER SIZE	IN.	1¼	1½	1½	1½	1½	1½
INJECTOR SUPPLY SIZE	IN.	1	1	1¼	1¼	1½	1½
SAFETY VALVE NO. AND SIZE—125 LB.	IN.	2-2½	2-2½	2-3	2-3	2-3	2-3
150 LB.	IN.	2-2½	2-2½	2-3	2-3	2-3	2-3
SIZE MAY VARY WITH SET PRESSURE OF VALVE.							
BREECHING DIAMETER	IN.	24	26	29	31	33	36
STACK DIAMETER	IN.	22	24	27	29	31	34
STACK HEIGHT—HAND FIRED	FT.	55	60	65	70	75	80
STACK HEIGHT—MECHANICALLY FIRED	FT.	45	50	55	60	65	70
BREECHING DIAMETER, TWO BOILERS	IN.	31	34	38	41	44	48
STACK DIAMETER, TWO BOILERS	IN.	29	32	36	38	41	45
STACK HEIGHT, TWO BOILERS, HAND FIRED	FT.	65	70	75	80	85	90
STACK HEIGHT, TWO BOILERS, MECHANICALLY FIRED	FT.	55	60	65	70	75	80
FIREBRICK 9 IN. WALL, ABOVE BASE LINE	NUMBER	1300	1450	1700	2050	2450	2600
COMMON BRICK IN BASE AND PIER	NUMBER	650	700	800	1000	1150	1200
2 IN. INSULATION LINING	SQ. FT.	130	155	160	195	225	250
OUTSIDE SURFACE TO COVER	SQ. FT.	115	145	165	200	250	300
APPROX. SHIPPING WEIGHT							
BOILER, HAND-FIRED, 125 LB.	LB.	13660	15380	18870	22920	26720	30200
150 LB.	LB.	13760	15580	19270	23420	27420	30900
MECHANICALLY-FIRED, 125 LB.	LB.	12620	14230	17580	21270	24850	28220
150 LB.	LB.	12720	14430	17980	21770	25550	28920
FURNACE REFRACTORY & INSULATION	LB.	10150	10750	13250	16550	18700	19400
**CODE WORD, STEAM BOILER—125 LB. W. P.		HTETF	HTETG	HTETH	HTETI	HTETJ	HTETK
—150 LB. W. P.		HTEFF	HTEFG	HTEFH	HTEFI	HTEFJ	HTEFK

**For Oil, Gas or Stoker, add word to code; example—ship one HTETF OIL.

*Series 30 Nozzles for 250 lb. cast-iron or 300 lb. steel fittings.

Steam supply and blow-off sizes given are openings regularly found on boilers in stock.

EQUIPMENT—Flue Gas Chambers—Rear, with Lining, insulated Doors and Frame; Front, with Doors and Frame; Damper in Outlet; Rear and Center Saddles; Steel Casing extending to top of base with front.

Coal Hand Fired—Fire and Ash Doors; Dead Plate, Stationary Grates; or Shaking, Semi or Full Dumping assemblies at extra cost.

FIRE TOOLS for Coal—Hoe, Poker, Slice Bar, Flue Cleaner with handle.

FIRE TOOLS for Oil, Gas, Stoker—Flue Cleaner only with handle.

Full Metal Bases can be furnished at additional cost. Boiler may be shipped on skids; no Refractory Fire-box Lining included.

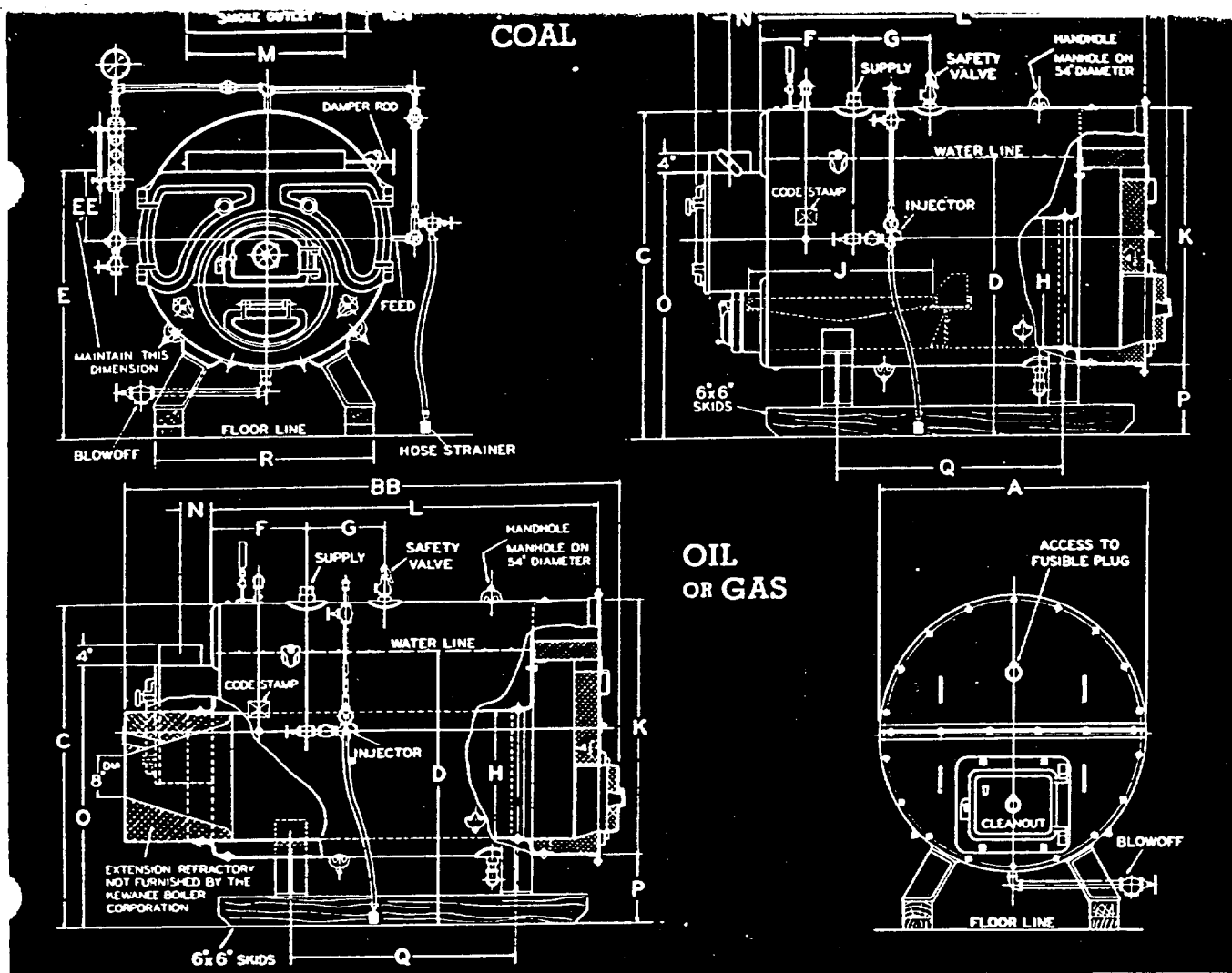
TRIMMINGS for Coal, Stoker, Oil, Gas—Steam Gauge with Syphon and Cock; extra heavy cast iron Water Column with Water Gauge and Gauge Cocks, Compression Try Cocks; Safety Valves as required by A.S.M.E. Code; Blow-off Valve and Cock; Globe and Check Valve for feed pipe.

No other accessories or piping.

Special trimmings furnished at additional cost.

*1 1/2" H₂O
-2DP
across
boiler*

1928 1960



KEWANEE Return Tube SCOTCH MARINE BOILER

SPECIFICATIONS	NEW	100 Lb. Steam	A.S.M.E. CODE	NEW	High Pressure Steam
Boiler Number	HM6	HM9 HM15 HM20 HM25 HM30	Boiler Number	HM6	HM9 HM15 HM20 HM25 HM30
Rating, Mechanical-Fired			A—Boiler Width Overall	in. 47	53 53 53 59 59
—Horsepower	7	12 18 24 30 36	B—Length, Overall, hand-fired	in. 77 1/2	89 101 122 127 140
—Thousands of Btu per Hour	234	400 600 800 1020 1200	BB—oil-gas	in. 82 1/2	84 1/2 105 1/2 126 1/2 144
—Pounds of Steam per Hour	242	410 620 830 1050 1240	C—Height Overall Shell	in. 54 1/2	62 62 62 67 1/2 67 1/2
Rating, Hand-Fired			D—Water Line	in. 46 1/2	53 53 53 57 1/2 57 1/2
—Horsepower	6	9.9 15 20 25 30	E—Water Column Height	in. 44 1/2	51 51 51 55 1/2 55 1/2
—Thousands of Btu per Hour	200	331 500 670 840 1020	EE—Height from Boiler CL	in. 11 1/4	13 1/4 13 1/4 13 1/4 15 15
—Pounds of Steam per Hour	207	342 520 690 865 1050	F—Steam Supply Location	in. 13	14 18 24 18 24
Heating Surface	sq. ft. 60	99 150 200 250 300	G—Safety Valve Location	in. 15	15 15 16 1/2 22 1/2 16 1/2
Grate Area	sq. ft. 3.5	4 6 8 10 12	M—Breeching Connection	in. 24	30 30 30 38 38
Furnace Volume	cu. ft. 15.5	24.1 29.4 34.6 47.3 53.1	N—Location	in. 5 1/2	6 6 6 7 1/2 7 1/2
K—Shell Diameter	in. 42	48 48 48 54 54	O—Height	in. 44 1/4	50 50 50 54 1/2 54 1/2
L—Length	in. 61	63 84 105 105 122	P—Clearance Beneath Shell	in. 12	13 1/4 13 1/4 13 1/4 13 13
H—Furnace Diameter	in. 21	24 24 24 28 28	Q—Legs Location	in. 38 1/2	39 1/2 43 61 60 77
J—Grate Length	in. 24	24 36 48 54 60	R—Skids Location	in. 37 1/2	42 42 42 45 45
Steam Supply Size	in. 2	2 2 2 2 3	Plate Thickness—Shell	in. 3/4	3/4 3/4 3/4 3/4 3/4
Blow-off Size	in. 1 1/4	1 1/4 1 1/4 1 1/4 1 1/4	—Heads	in. 3/4	3/4 3/4 3/4 3/4 3/4
Safety Valve Size—			—Furnace	in. 3/4	3/4 3/4 3/4 3/4 3/4
Coal, hand-fired	in. 1 1/4	1 1/4 1 1/4 1 1/2 2 1/2	Return Tubes—Number	in. 16	28 28 28 36 36
Oil or Gas	in. 1	1 1/4 2 2 2 2	—Diameter	in. 3	3 3 3 3 3
Stoker	in. 1	1 1/4 1 1/2 2 2 2	—Length	in. 40	42 63 84 83 100
Fire Door Opg. Width	in. 15	16 16 16 18 18	Steel Smoke Stack—Gauge No.	in. 14	14 14 14 12 12
Height	in. 10	11 11 11 12 12	—Diameter	in. 12	14 15 17 18 20
Ash Door Opg. Wdt. x Hgt.	in. 15x6 1/4	16x6 1/2 16x6 1/2 18x7 1/2 18x7 1/2	—Length	in. 30	35 40 40 40 45
Breeching Diameter	in. 14	16 17 19 20 22	—Weight	lbs. 350	450 550 650 1000 1200
Stack Diameter	in. 12	14 15 17 18 20			
Height	ft. 30	35 40 40 40 45			
Outside Surface to Cover	sq. ft. 57	67 90 111 125 145			
Shipping Weight—On Skids with					
Regular Fixtures, less Stack	lbs. 3700	4800 6300 7000 7800 8500			

EQUIPMENT—All Boilers mounted on skids; equipped with Handholes, Manholes on 34" boilers only, Smokebox with Damper, Insulated Flue Doors; Refractory and rear Combustion Chamber, Rear End Plate with cleanout door, 1/4" Fusible Plug Socket Wrench, Flue Scraper with handle.

RIMMINGS—All Steam Boilers. Cast Iron Water Column with standard Gauge Glass Cocks, Gauge Glass, Guards, three Try cocks, Steam Gauge, Syphon and Cock; Safety Valve, 1/4" Fernberthy Injector, Blow off Valve, Piping and Fittings for attaching trimmings to boiler. No trimmings furnished with hot water boilers. No mechanical firing equipment included and no damper in smokebox outlet.

COAL Hand-Fired—Cast iron Furnace front with Fire door and Liner. Ash Door with Ratchet Draft door. Stationary Grates and Supports. Refractory Bridgework, Roe, Poker.

OIL or GAS Fired—Steel Furnace extension with coverplate and perforated. STOKER Fired—Furnace Front with doors NOT furnished by K. B. Corp.

1956-1967

Same as HM-800 Series

KENAWEE HM SCOT SERIES WELDED STEEL BOILERS

DIMENSIONS & SPECIFICATIONS

125-150 lbs S. W. P.

Oil or Gas

Boiler Number.....	HM-52	HM-61	HM-74	HM-87	HM-109	HM-130	HM-152	HM-174	HM-217	HM-261	HM-304
Rating, Steam Radiation.....sq ft	7290	8500	10330	12150	15180	18220	21250	24290	30360	36430	42500
—Horsepower.....	52	61	74	87	109	130	152	174	217	261	304
—Thousands of Btu per Hour.....	1750	2040	2479	2916	3643	4373	5100	5830	7286	8743	10200
—Pounds of Steam per Hour.....	1800	2100	2560	3010	3750	4510	5260	6010	7510	9010	10510
Heating Surface.....sq ft	429	500	608	715	893	1072	1250	1429	1786	2143	2500
Combustion Volume.....cu ft	57.9	62.4	79.8	87.5	110.2	141.1	153.7	174.0	217.0	262.9	308.8
A—Boiler Diameter..... in.	60	60	66	66	72	78	78	84	90	96	102
B—Boiler Length.....ft in.	10-6	11-8½	12-0	13-8	14-10	15-3	17-3	16-4	17-6	18-6	18-6
C—Furnace Diameter, Inside..... in.	26	26	29	29	31	34	34	37	40	44	48
D—Furnace Length.....ft in.	7-11	9-1½	9-3	10-11	11-11	11-11	13-11	12-11	13-11	14-11	14-11
E—Combustion Chamber Length..... in.	24	24	26	26	28	33	33	33	35	34	34
F—Refractory Wall..... in.	7	7	7	7	7	7	7	8	8	9	9
Steam Supply Size..... in.	4	4	6	6	6	6	6	6	8	8	8
Blow-off Size..... in.	2	2	2	2	2	2	2½	2½	2½	2½	2½
Feed Water Connection Size, R&L... in.	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	2
Injector Supply Size..... in.	1	1	1½	1½	1½	1½	1½	1½	1½	1½	1½
Safety Valve Boiler Opening..... in. Verify all sizes.	2-2	2-2	2-2	4	4	4	4	4	5	5	6
Breeching Diameter..... in.	23	24	26	28	30	31	33	35	39	41	43
Stack Diameter..... in.	21	22	24	26	28	29	31	33	36	38	40
Stack Height..... ft	35	40	40	45	50	50	55	50	55	55	55
Breeching Diameter, Two Boilers.. in.	30	31	34	36	40	41	44	47	50	54	56
Stack Diameter, Two Boilers.. in.	28	29	32	34	37	38	41	44	47	50	52
Stack Height, Two Boilers.. ft	40	45	45	50	55	55	60	55	60	60	60

KEWANEE HM SCOT SERIES WELDED STEEL BOILERS

DIMENSIONS & SPECIFICATIONS

125-150 lbs S. W. P.

Oil or Gas

Boiler Number.....	HM-52 HM-61 HM-74 HM-87	HM-109 HM-130 HM-152 HM-174	HM-217 HM-261 HM-304
G--Boiler Height, Floor to top of Shell..... in.	73 73 79 79	85 91½ 91½ 97½	103½ 109½ 115½
H--Water Line Height..... in.	62 62 65½ 65½	73½ 73½ 77½	82¾ 87½ 92¾
J--Water Column Height..... in.	60 60 63½ 63½	67½ 71½ 71½ 75½	80¾ 85½ 90¾
K--Steam Supply Height..... in.	78 78 84½ 84½	90½ 96½ 96½ 102½	109½ 115½ 121½
L--Steam Supply Location..... in.	24 30 30 36	42 42 48 48	48 48 48
M--First Safety Valve Location... in.	51 52 53 60	60 60 78 66	78 84 84
--Second Safety Valve Location.. in.	12 12 12 12		
N--Blow-off Location..... in.	43 43 45 45	47 52 52 53	55 55 55
O--Furnace Height Centers..... in.	31½ 31½ 33 33	34¾ 36½ 36½ 37¾	39½ 41½ 43½
P--Supporting Saddle Location.... in.	15 15 15 18	18 18 24 24	24 24 24
R--Supporting Saddle Ctr to Ctr...ft in.	6-9 7-11 8-1 9-6	10-6 10-6 12-0 11-0	12-0 13-0 13-0
S--Saddle Length..... in.	40 40 44 44	48 52 52 56	60 64 68
T--Saddle Width..... in.	5 5 5 5	6 6 6 8	8 10 10
U--Smokebox Depth..... in.	14 14 16 16	16 18 18 18	18 20 20
V--Breeching Connection Height... in.	59½ 59½ 63½ 63½	67½ 71 71 75	80½ 85 90½
W--Breeching Connection Length... in.	47 47 52 52	56 65 65 68	71 76 83
X--Breeching Connection Width... in.	12 12 14 14	14 16 16 16	16 18 18
Return Tubes --Number.....	60 60 73 73	84 102 102 128	149 168 196
--Diameter..... in.	3 3 3 3	3 3 3 3	3 3 3
--Length.....ft in.	8-0 9-2½ 9-4 11-0	12-0 12-0 14-0 13-0	14-0 15-0 15-0
Outside Surface to Cover.....sq ft	165 184 207 236	280 311 352 359	412 465 494
Approx. Weight --125 lb W.P..... lb	10100 10800 12500 14500	17200 21200 24000 27100	31700 37500 42000
--150 lb W.P..... lb	11000 11400 13400 15500	18400 22500 25500 28900	33800 39700 44600

0-196-

PLAN OF SMOKE OUTLET

W

X

3"

P

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J

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V

BLOWOFF

RETURN-R&L

2" HEATER CONN.

2" OIL HEATER CONNECTION

1 1/4" THERMOMETER

1 1/4" AQUASTAT

SAFETY VALVE

SUPPLY

10" x 16" MANHOLE

WATER BACK TOP

FUS. PLUG

FIREBRICK

CLEANO

HANDHOLE

45°

NOTE 1

NOTE 2

NOTE 3

NOTE 4

NOTE 5

1- FIREBRICK NOT FURNISHED BY KEWANEE BOILER CORP

2- REFRACTORY LINING FURNISHED BY KEWANEE BOILER CORP

3- CIRCULAR FURNACE EXTENSION CAN BE FURNISHED AT ADDITIONAL COST IF DESIRED

4- LOCATION OF SUBMERGED WATER HEATING COIL WHEN INSTALLED

5- MANHOLE NOT FURNISHED ON BOILERS UNDER 34" DIA

1 - FIREBRICK NOT FURNISHED BY KEWANEE BOILER CORP
2 - REFRACTORY LINING FURNISHED BY KEWANEE BOILER CORP

KEWANEE

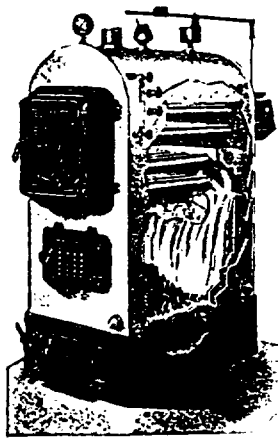
SCOTCH MARINE BOILER

15 lbs. W. P.

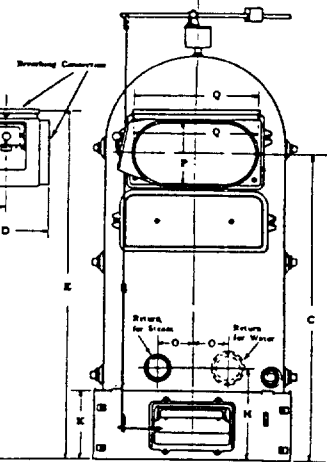
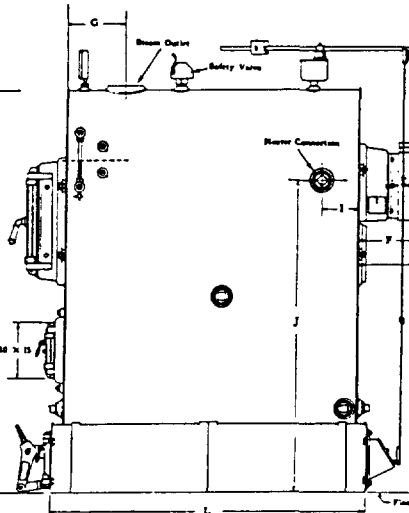
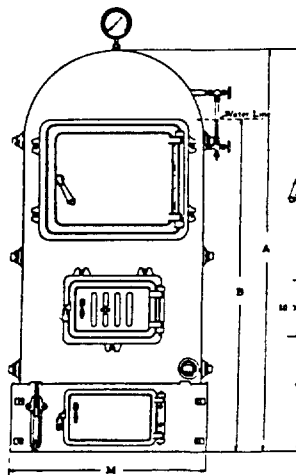
Welded M-8000 Series Oil or Gas

Boiler Number.....	M-8173	M-8174	M-8175	M-8176	M-8177	M-8178	M-8179	M-8180	M-8181	M-8182	M-8183	M-8184	M-8185	M-8186	M-8187	M-8188	M-8189	M-8190
Rating—Steam Radiation.....Sq. Ft.	2680	3160	3650	4250	4860	5470	6080	7290	8500	10330	12150	15180	18920	21250	24290	30360	36430	42500
—Water Radiation.....Sa. Ft.	4280	5050	5840	6800	7770	8750	9720	11660	13600	16520	19440	24280	29150	34000	38860	48570	58280	68000
—Btu per Hour.....1000's	643	758	876	1020	1116	1313	1459	1750	2040	2479	2916	3643	4373	5100	5830	7286	8743	10200
Heating Surface (SHBI Min.).....Sq. Ft.	158	186	215	250	286	322	358	429	500	608	715	893	1072	1250	1499	1786	2143	2500
Furnace Volume (SHBI Min.).....Cu. Ft.	19.2	22.6	26.1	30.4	34.8	39.1	43.5	52.1	60.8	73.8	86.8	108.5	130.2	151.8	173.5	216.9	260.3	303.6
Net Furnace Volume.....Cu. Ft.	26.8	29.7	31.0	34.1	37.3	47.2	50.1	59.0	64.4	82.7	90.8	121.4	134.5	160.9	174.6	225.8	277.7	311.5
Breaching Diameter.....In.	18	18	20	20	20	22	22	24	24	28	28	31	31	35	35	39	41	43
Stack Diameter.....In.	15	16	16	17	18	19	20	21	22	24	26	28	29	31	33	36	38	40
Stack Height.....Ft.	35	40	35	40	45	35	40	35	40	40	45	45	50	50	55	60	60	60
Breaching Diameter, Two Boilers.....In.	23	24	24	25	26	27	28	30	31	34	36	40	41	44	47	50	54	56
Stack Diameter, Two Boilers.....In.	21	22	22	23	24	25	26	28	29	32	34	37	38	41	44	47	50	52
Stack Height, Two Boilers.....Ft.	45	50	45	50	55	45	50	45	50	50	55	55	60	60	65	70	70	70
Steam Supply Size.....In.	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	10	10	10
Return Size.....In.	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	6	6	6
Safety Valve Size.....In.	1½	2	2	2	2	2	2½	2½	2½	3	3	2-2	2-2½	2-2½	2-2½	2-2½	2-3	2-3
Blow-Off Size.....In.	1½	1½	2	2	2	2	2	2	2	2	2	2	2	2½	2½	2½	2½	2½
Shipping Weight.....Lbs.	3300	3700	4500	4900	5300	5700	6100	6900	7500	8400	9600	12700	14200	17400	19000	22500	25750	28300

Kewanee Residence Type R Boiler

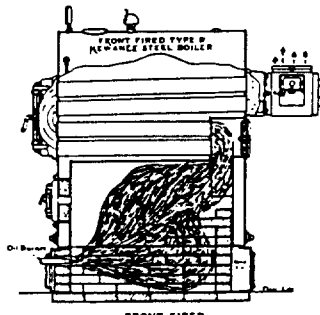


With Jacket,
or Without, as shown.

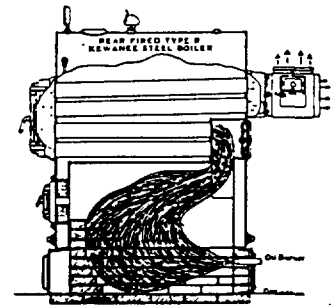


Type R Steel Boiler is a later Kewanee development employing characteristically sound steel construction in the compacted style of heating unit. It is designed to serve the smaller kind of building—such as garage, store, school, church, apartment, office or residence.

Every kind of solid fuel, coke, all grades or soft or hard coals and their briquette or powdered forms are burned with excellent success, also any liquid fuel oils, and natural or commercial gas can be used with high efficiency in Kewanee Type R Boilers. Provision is made so that Kewanee Indirect Hot Water Heating Coils may be applied in any sizes.



FRONT FIRED



REAR FIRED

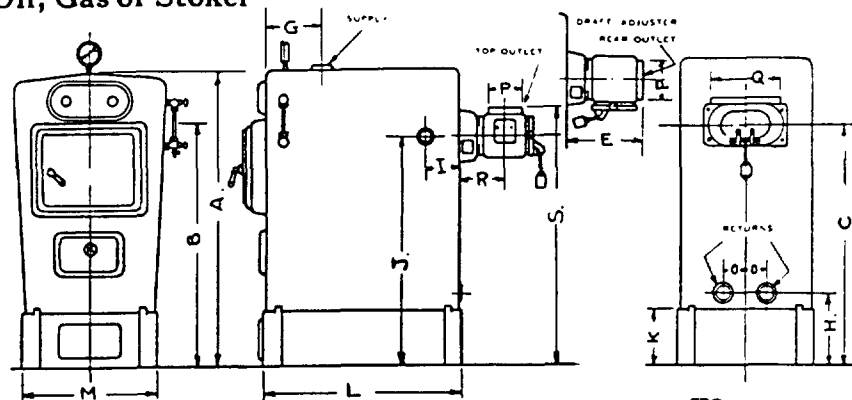
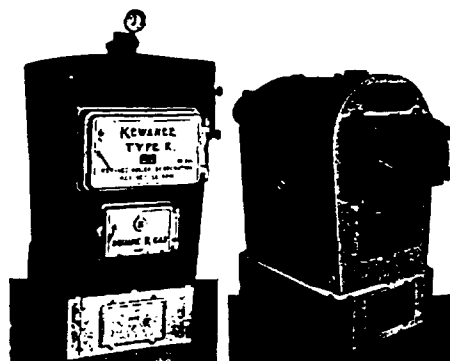
Sections Showing Type R Oil Burning Boiler Settings—Front or Rear Fired

Data and Measurements. Nos. 740 to 748—For Bituminous Coal. 2740 to 2748—Anthracite. 1740 to 1748—Oil, Gas or Stoker

Number of Boiler	740-2740	741-2741	742-2742	743-2743	745-2745	746-2746	747-2747	748-2748
Code, Boilers 740 to 748	Resam	Resay	Rescu	Reset	Resew	Resin	Resol	Rest
Code, Boilers 2740 to 2748	Rusam	Rusay	Ruscu	Ruset	Rusew	Rusin	Rusol	Rust
Rated Capacity, Steam	Sq. Ft. 430	Sq. Ft. 590	Sq. Ft. 790	Sq. Ft. 1000	Sq. Ft. 1350	Sq. Ft. 1600	Sq. Ft. 1780	Sq. Ft. 1960
Rated Capacity, Water	Sq. Ft. 690	Sq. Ft. 940	Sq. Ft. 1260	Sq. Ft. 1600	Sq. Ft. 2160	Sq. Ft. 2560	Sq. Ft. 2850	Sq. Ft. 3140
Heating Surface	Sq. Ft. 44	Sq. Ft. 54	Sq. Ft. 63	Sq. Ft. 73	Sq. Ft. 101	Sq. Ft. 114	Sq. Ft. 127	Sq. Ft. 140
Grate Area	Sq. Ft. 3.0	Sq. Ft. 3.9	Sq. Ft. 4.8	Sq. Ft. 5.6	Sq. Ft. 6.7	Sq. Ft. 7.8	Sq. Ft. 8.8	Sq. Ft. 9.9
Width of Boiler	Inches 31	Inches 31	Inches 31	Inches 31	Inches 31	Inches 31	Inches 31	Inches 31
Length of Boiler	Inches 27½	Inches 33½	Inches 39½	Inches 45½	Inches 45½	Inches 51½	Inches 57½	Inches 63½
Size of Return Inlet added for Water	Inches 2½	Inches 2½	Inches 2½	Inches 2½	Inches 4	Inches 4	Inches 4	Inches 4
Size of Safety Valve Opening	Inches 1	Inches 1	Inches 1½	Inches 1½	Inches 1½	Inches 1½	Inches 1½	Inches 2
Size of Steam or Water Outlet	Inches 3	Inches 3	Inches 4	Inches 4	Inches 5	Inches 6	Inches 6	Inches 6
Size of Steam Return Inlet	Inches 2½	Inches 2½	Inches 2½	Inches 2½	Inches 3	Inches 3	Inches 3	Inches 3
*A—Overall Height, Floor to								
Top of Shell	Inches 59½	Inches 59½	Inches 59½	Inches 59½	Inches 70½	Inches 70½	Inches 70½	Inches 70½
B—Height of Water-line	Inches 48	Inches 48	Inches 48	Inches 48	Inches 58½	Inches 58½	Inches 58½	Inches 58½
Chimney—Diameter	Inches 12	Inches 12	Inches 12	Inches 12	Inches 16	Inches 16	Inches 16	Inches 16
Chimney—Height	Feet 35	Feet 35	Feet 35	Feet 35	Feet 40	Feet 40	Feet 40	Feet 40
Breaching Diameter	Inches 14	Inches 14	Inches 14	Inches 14	Inches 18	Inches 18	Inches 18	Inches 18
Breaching Connection Size, P.Q.	Inches 8½x17	Inches 8½x17	Inches 8½x17	Inches 8½x17	Inches 11x22	Inches 11x22	Inches 11x22	Inches 11x22
C—Height of End Breaching Connection Center	Inches 49½	Inches 49½	Inches 49½	Inches 49½	Inches 54	Inches 54	Inches 54	Inches 54
D—Back of Boiler to End Breaching Connection	Inches 17½	Inches 17½	Inches 17½	Inches 17½	Inches 20	Inches 20	Inches 20	Inches 20
E—Ht. Breaching Connection	Inches 55½	Inches 55½	Inches 55½	Inches 55½	Inches 61½	Inches 61½	Inches 61½	Inches 61½
F—Back of Boiler to Top Breaching Connection Center	Inches 11½	Inches 11½	Inches 11½	Inches 11½	Inches 12½	Inches 12½	Inches 12½	Inches 12½
G—Steam or Water Outlet Center to Boiler Front								
H—Ht. of Return Inlet Centers	Inches 15½	Inches 15½	Inches 15½	Inches 15½	Inches 16	Inches 16	Inches 16	Inches 16
I—Heater Connection Size	Inches 2	Inches 2	Inches 2	Inches 2	Inches 2	Inches 2	Inches 2	Inches 2
O—Return Inlet Offset from Boiler Center	Inches 5	Inches 5	Inches 5	Inches 5	Inches 6	Inches 6	Inches 6	Inches 6
I—Heater Connection Center from Back of Boiler	Inches 6½	Inches 6½	Inches 6½	Inches 6½	Inches 6½	Inches 6½	Inches 6½	Inches 6½
J—Heater Connection Height from Floor	Inches 43½	Inches 43½	Inches 43½	Inches 43½	Inches 54½	Inches 54½	Inches 54½	Inches 54½
K—Height of Base	Inches 12	Inches 12	Inches 12	Inches 12	Inches 12	Inches 12	Inches 12	Inches 12
L—Length of Base	Inches 31½	Inches 37½	Inches 43½	Inches 49½	Inches 49½	Inches 55½	Inches 61½	Inches 67½
M—Width of Base	Inches 30	Inches 30	Inches 30	Inches 30	Inches 34	Inches 34	Inches 34	Inches 34
Outside Surface to Cover								
Unjacketed	Sq. Ft. 33	Sq. Ft. 38	Sq. Ft. 43	Sq. Ft. 48	Sq. Ft. 60	Sq. Ft. 66	Sq. Ft. 71	Sq. Ft. 77
Approximate Weight	Pounds 1700	Pounds 1900	Pounds 2150	Pounds 2360	Pounds 2800	Pounds 3050	Pounds 3300	Pounds 3550
Number of Boiler	1740	1741	1742	1743	1745	1746	1747	1748
Code	Rosam	Rosay	Roscu	Roset	Rosew	Rosin	Rosol	Rost
Rated Capacity, Steam	Sq. Ft. 450	Sq. Ft. 620	Sq. Ft. 840	Sq. Ft. 1120	Sq. Ft. 1470	Sq. Ft. 1900	Sq. Ft. 2160	Sq. Ft. 2380
Furnace Volume	Cu. Ft. 6.6	Cu. Ft. 8.8	Cu. Ft. 10.9	Cu. Ft. 13.0	Cu. Ft. 16.5	Cu. Ft. 19.0	Cu. Ft. 21.6	Cu. Ft. 24.2
Approximate Weight	Pounds 1540	Pounds 1680	Pounds 1900	Pounds 2060	Pounds 2500	Pounds 2730	Pounds 2920	Pounds 3120

*For Jacketed Boiler, add 1½-inch to overall height. For Water, add word to code; example: Ship today one RESCU WATER complete.

"83R" Series Square Boilers Oil, Gas or Stoker



Square Jacketed Type "R" Steel Boiler
DATA AND MEASUREMENTS.

83R1-83R4 with Tapered Sides, 83R6-83R9 have Straight Sides

Boiler Number	Oil or Gas Stoker	83R1 O83R1	83R2 O83R2	83R3 O83R3	83R4 O83R4	83R6 O83R6	83R7 O83R7	83R8 O83R8	83R9 O83R9
Rated Capacity—Steam	Sq. Ft.	901	1105	1326	1513	2091	2363	2652	2924
Water	Sq. Ft.	1441	1768	2121	2420	3345	3780	4243	4678
Btu. per Hour.....1000's		216	265	318	363	502	567	637	702
Heating Surface	Sq. Ft.	53	65	78	89	123	139	156	172
Net Furnace Volume	Cu. Ft.	6.6	8.8	10.9	13.0	16.5	19.0	21.6	24.2
Width Boiler Overall	In.	32 1/2	32 1/2	32 1/2	32 1/2	32	32	32	32
A—Height Boiler Overall	In.	60 3/4	60 3/4	60 3/4	60 3/4	71 1/2	71 1/2	71 1/2	71 1/2
Shell Length Overall	In.	27 1/2	33 1/2	39 1/2	45 1/2	45 1/2	51 1/2	57 1/2	63 1/2
Firebox Height	In.	21	21	21	21	24	24	24	24
Add'l. Furnace Height for Stoker**	In.	4	4	4	4	6	6	6	6
Firebox Width	In.	21 1/2	21 1/2	21 1/2	21 1/2	25 1/2	25 1/2	25 1/2	25 1/2
Firebox Length	In.	20	26	32	38	38	44	50	56
*B—Water Line Height	In.	48	48	48	48	58 1/2	58 1/2	58 1/2	58 1/2
C—Smoke Outlet End, Height	In.	49 1/2	49 1/2	49 1/2	49 1/2	54	54	54	54
E—Smokehood Length	In.	16	16	16	16	18 1/2	18 1/2	18 1/2	18 1/2
G—Steam Supply Location	In.	12 1/2	12 1/2	12 1/2	12 1/2	13 1/2	13 1/2	13 1/2	13 1/2
H—Return Height	In.	15 1/2	15 1/2	15 1/2	15 1/2	16	16	16	16
I—Heater Connection Location	In.	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2	7 1/2
J—Heater Connection Location	In.	43 1/2	43 1/2	43 1/2	43 1/2	54 1/2	54 1/2	54 1/2	54 1/2
K and M—Base Height*** x Width	In.	12x30	12x30	12x30	12x30	12x34	12x34	12x34	12x34
L—Base Length	In.	31 1/2	37 1/2	43 1/2	49 1/2	49 1/2	55 1/2	61 1/2	67 1/2
O—Return Location	In.	5	5	5	5	6	6	6	6
P—Breeching Connection Width	In.	8 1/2	8 1/2	8 1/2	8 1/2	11	11	11	11
Q—Breeching Connection Length	In.	17	17	17	17	22	22	22	22
R—Boiler to Smoke Outlet Center	In.	9 1/2	9 1/2	9 1/2	9 1/2	11	11	11	11
S—Smoke Outlet Top, Height	In.	55 1/2	55 1/2	55 1/2	55 1/2	61 1/2	61 1/2	61 1/2	61 1/2
Regal Jacket Overall 33 1/2" wide, Length	In.	59 1/2	65 1/2	71 1/2	77 1/2				
Steam Supply Size, or Water	In.	4	4	4	4	5	6	6	6
Steam Return Size	In.	2 1/2	2 1/2	2 1/2	2 1/2	3	3	3	3
Added Return for Water	In.	2 1/2	2 1/2	2 1/2	2 1/2	4	4	4	4
Safety Valve Size	In.	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2	2
Heater Connection Size	In.	2	2	2	2	2	2	2	2
Chimney Diameter x Height	In. x Ft.	10x35	11x35	12x35	12x40	14x40	14x40	15x45	16x50
Breeching Diameter	In.	12	13	14	14	16	16	17	18
Outside Surface to Cover, Unjacketed	Sq. Ft.	33	38	43	48	60	66	71	77
Shipping Weight, Jacketed	Lbs.	1600	1800	2000	2200	2800	2900	3100	3300

Regal
Smartline
Jacket for
Complete
Enclosure
with Any
Oil or Gas
Burner on
83R1-2-3-4

Also 1742-3,
and GA-2R1-2-3-4.

Kewanee 83R Series is a Jacketed Square Type "R" Residence Boiler, of substantial steel construction, especially proportioned for Oil, Gas or Stoker, retaining in all respects the Kewanee standard of Quality.

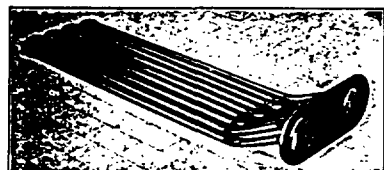
83R conforms to construction Code of A.S.M.E.

Has 2-pass tubes; with spinner blades for Oil-Gas; two-way draft adjuster; all steel base of new and improved design.

Covered Coil Box in front head for Kewanee Copper Coils of any capacity for Storage Tank Hot Water or Instantaneous Flow without Tank. Incinerator grates can be installed in larger sizes.

Stack Control Opening is provided in Rear Hood and in Front Smokebox Frame. Tapped openings either side of Boiler Shell can be used for Aquastat. There are plenty washout plugs in shell, and knock-out discs in jackets opposite all Boiler openings. All Jacketed Kewanee Boilers have indestructible baked enamel steel Jacket, with insulation lining or blanket.

Kewanee Indirect Hot Water Heating Coils Maximum Length in Each Boiler



Kewanee Hot Water Coil for Storage Tank
S6-24 means Single row 6 pipes 24" long.
D8-60 means Double rows 8 pipes 60" long

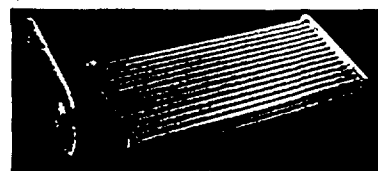
Boiler ratings do not include allowances for heating domestic hot water with Indirect Coils.

All Coil capacity ratings are with Boiler Water at steaming temperature. For summer use, and intermittently fired fuels, use capacity listed with 180° Boiler Water.

For GRAVITY CIRCULATION with STORAGE TANK, capacity listed is the number of gallons raised 100° in 3 hours. Allow 1/2 sq. ft. of steam radiation for each gallon capacity.

For INSTANTANEOUS TANKLESS PERFORMANCE, capacity listed is the number of gallons raised 100° in 1 hour.

Allow 4 sq. ft. of steam radiation for each gallon capacity, except no allowance is required when water heating demand is less than 10 minutes in any hour.



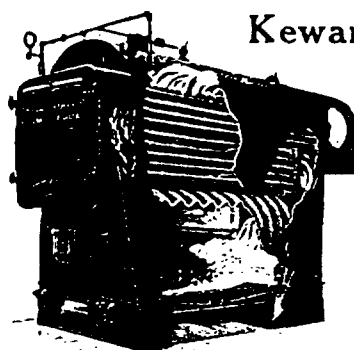
Coil for Instantaneous Flow without Tank
TN1-Triple rows of pipes for 83R Boilers.
QN1-QN9 Quadruple rows of pipes, 83R Boilers.
DN1-DN9 Double rows for Sq. "R" Boilers.

For Storage Tank Operation				For Instantaneous Flow				For Storage Tank Operation				For Instantaneous Flow			
Boiler No.	Coil No.	Rated Capacity Gals. Heated 40°-140° 3 Hrs. in Boiler Water		Boiler No.	Coil No.	Rated Capacity Gals. Heated 40°-140° 1 Hr. 1 Min.		Boiler No.	Coil No.	Rated Capacity Gals. Heated 40°-140° 3 Hrs. in Boiler Water		Boiler No.	Coil No.	Rated Capacity Gals. Heated 40°-140° 1 Hr. 1 Min.	
		212° F.	180° F.							212° F.	180° F.				
742	S6-24	90	55	742	DN1	185	3.1	83R1	SL6-24	90	55	83R1	TN-1	185	3.1
	S8-24	120	70						SL8-24	120	70		QN-1	240	4.0
	D6-24	180	110						DL6-24	180	110				
	D8-24	240	145						DL8-24	240	145				
742	D8-30	320	190	742	DN2	240	4.0	83R2	DL8-30	320	190	83R2	QN-2	310	5.2
742	D8-36	400	240	742	DN3	295	4.9	83R3	DL8-36	400	240	83R3	QN-3	375	6.3
43; 773, 745	D8-42	480	290	743; 773, 745	DN4	350	5.8	83R4, 83R6	DL8-42	480	290	83R4, 83R6	QN-4	445	7.4
746, 774	D8-48	560	335	746, 774	DN7	400	6.7	83R7	DL8-48	560	335	83R7	QN-7	510	8.5
747, 775	D8-54	640	385	747, 775	DN8	450	7.5	83R8	DL8-54	640	385	83R8	QN-8	580	9.7
748	D8-60	720	430	748, 776	DN9	510	8.5	83R9	DL8-60	720	430	83R9	QN-9	650	10.8
776	D8-66	800	480												
to 790	D8-120	1520	910												

Larger sizes on application

For larger volume, two Storage Tank Coils may be installed in some boilers.

1420-1722

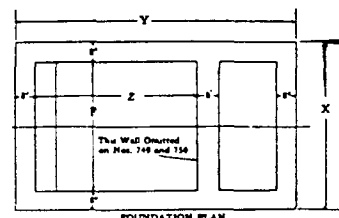
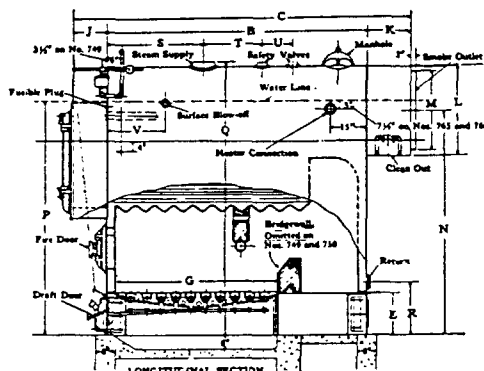
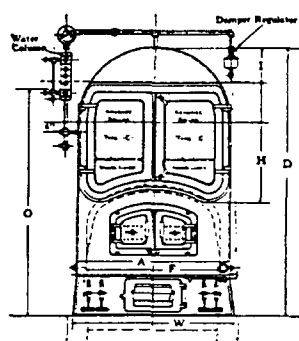
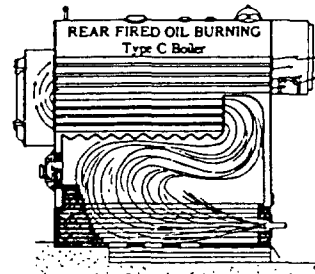
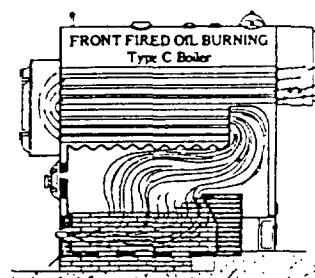


Kewanee Type C Electric-Weld Boiler

The Kewanee Type C Boiler exemplifies the latest in expert thought. It is built of steel plate, seven simple shapes, solidly welded into a homogeneous unit by the well proven electric metallic-arc-puddling process same as has been used on welded details of Kewanee Boilers for years, and it has the Patent Corrugated Crown Sheet.

This Boiler is built to the A. S. M. E. Code for low pressure heating boilers. It is a real boiler in construction—a scientifically designed steam generator.

Type "C" Boilers may be fitted at factory with Kewanee Indirect Hot Water Heating Coils at extra cost.



Specifications—Nos. 749-770 for Bituminous Coal.

Nos. 2749-2770 for Anthracite Coal.

Nos. 1749-1770 for Oil, Gas or Stoker

Number of Boilers.....	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770
Capacity, Steam, Sq. Ft.	2300	2690	3250	3630	4060	4550	5350	5950	6470	7000	8280	9610	10850	12110	14300	16380	18660	20750	22520	25530	28780	33070
Heating Surface, Sq. Ft.	164	192	232	262	290	325	375	425	462	500	591	686	775	865	1025	1170	1333	1482	1608	1824	2056	2362
Area of Grate, Sq. Ft.	9.1	10.3	11.0	11.6	12.4	13.9	15.5	18.0	19.7	21.5	22.4	24.3	24.7	26.9	27.6	30.1	32.9	35.6	36.0	38.9	42.1	45.2
Diameter of Stack, In.	18	20	20	22	22	22	22	24	24	26	26	28	30	30	32	32	34	34	38	38	40	40
Min. Ht. of Stack, Ft.	45	50	50	55	55	55	60	55	60	65	65	70	70	70	70	70	80	80	90	90	100	100
Dis. Stack, 2 Boilers, In.	26	28	28	28	31	31	31	34	34	36	36	40	42	42	46	46	48	48	52	54	54	54
Min. Height of Stack, Two Boilers, Ft.	55	60	60	65	65	65	70	65	70	75	75	80	80	80	80	80	90	100	100	110	110	110
Size Steam Opening, In.	6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	10	10	10
Size of Ret. Opening, In.	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	6	6
Size of Safety Valve Opening, In.	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
A—Width of Boiler, In.	36	36	36	36	42	42	42	48	48	48	54	54	60	60	66	66	72	72	78	78	84	84
B—Lgth. Boiler, Ft. In.	4-2	4-8	5-8	6-4	5-10	6-6	7-6	7-2	7-10	8-5	7-5	8-7	8-0	8-11	9-7	10-10	9-10	10-11	10-10	12-2	10-11	12-5
C—Overall Length of Boiler, Ft. In.	5-10	6-4	7-4	8-0	7-10	8-6	9-6	9-4	10-0	10-7	9-8	10-10	10-4	11-3	11-11	13-2	12-8	13-8	13-8	15-0	13-9	15-3
D—Ov'all Ht. Boiler, In.	77	77	77	77	83	83	83	86	86	86	99	99	108	108	112	112	118	118	122	122	135	135
E—Ht. Ash-pit Base, In.	14	14	14	14	14	14	14	14	14	14	14	14	14	17	17	17	17	17	17	17	21	21
F—Width of Grates	30	30	30	30	36	36	36	42	42	42	47	47	52	52	58	58	65	65	70	70	76	76
G—Lgth. of Grates, In.	43	49	56	56	50	56	62	62	68	74	68	74	74	68	68	74	74	80	74	80	80	86
H—Height of Front Smokebox, In.	34	34	34	34	34	34	34	35	35	35	42	42	48	48	48	48	51	51	52	52	61	61
J—Depth of Front Smokebox, In.	9	9	9	9	10	10	10	11	11	11	12	12	12	12	12	12	14	14	14	14	14	14
K—Depth of Rear Smokebox, In.	11	11	11	11	14	14	14	15	15	15	15	15	16	16	16	16	20	20	20	20	20	20
L—Ht. Rear Smkbox, In.	26	26	26	26	29	29	29	31	31	31	35	35	36	36	39	39	43	43	45	45	49	49
M—Dia. Smoke Outl. In.	20	22	22	22	24	24	24	26	26	26	28	28	32	32	34	34	36	36	40	40	42	42
N—Height Smoke Outl. above Floor, In.	64	64	64	64	69	69	69	70	70	70	81	81	90	90	93	93	96	96	99	99	110	110
O—Ht. Water Col., In.	65	65	65	65	68	68	68	70	70	70	81	81	90	90	92	92	97	97	99	99	110	110
P—Ht. Water Line, In.	69	69	69	69	72	72	72	73	73	73	85	85	94	94	95	95	101	101	103	103	114	114
Q—Ht. Steam Sup., In.	79	79	79	79	85	85	85	88	88	88	101	101	110	110	114	114	120	120	124	124	137	137
R—Ht. of Return, In.	18	18	18	18	18	18	18	19	19	19	19	19	22	22	22	22	22	22	22	22	26	26
S—Location of Steam Supply, In.	10	14	14	16	14	16	18	18	18	18	21	21	18	21	18	21	21	21	21	21	21	24
T—1st Safety Valve, In.	8	10	10	10	10	10	11	14	14	14	13	14	13	14	13	14	14	14	14	14	14	15
U—2nd Safety Valve, In.	12	12	12	12	12	12	12	12	12	12	18	24	24	24	24	24	24	24	24	24	24	24
V—Surface Blow-off, In.	12	12	12	12	12	12	12	12	12	12	18	24	24	24	24	24	24	24	24	24	24	24
W—Width of Base, In.	41	41	41	41	47	47	47	53	53	53	59	59	66	66	72	72	78	78	84	84	90	90
X—Width of Found., In.	46	46	46	46	52	52	52	58	58	58	63	63	68	68	74	74	80	80	86	86	92	92
Y—Lgth. of Found., In.	53	59	71 1/2	80	74	82	94	90	97	104	93	107	100	111	119	134	123	135	134	150	135	153
Z—Lgth. of Ash-pit, In.	37	43	51	51	45	51	57	57	63	69	63	69	64	70	64	70	76	70	76	76	76	82
Outside Surface to Cover, Sq. Ft.	62	68	80	89	93	102	115	119	128	136	145	165	172	187	210	234	231	252	265	294	294	328
Approx. Weight, Pounds	4300	4700	5200	5500	6000	6500	7100	7500	7900	8300	10600	11700	12900	14000	16300	17900	19800	21300	22600	24700	28400	31300
No. of Oil Burn Boilers	1749	1750	1751	1752	1753	1754	1755	1756	1757	1758	1759	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	1770
Capacity, Steam, Sq. Ft.	2790	3260	3940	4450	4930	5520	6370	7220	7850	8500	10040	11670	13180	14700	17420	19880	22650	25200	27300	31000	34900	40150
Furnace Volume, Cu. Ft.	24.0	26.8	31.1	35.7	44.0	47.6	52.1	63.5	69.1	74.5	86.7	96.0	113.1	124.8	151.1	168.8	185.9	201.0	230.6	256.0	275.7	309.6
Approx. Weight, lbs.	3600	3800	4200	4600	5000	5400	5900	6300	6700	7100	8800	9600	10600	11500	13700	15100	16600	17800	19200	21100	24300	27000

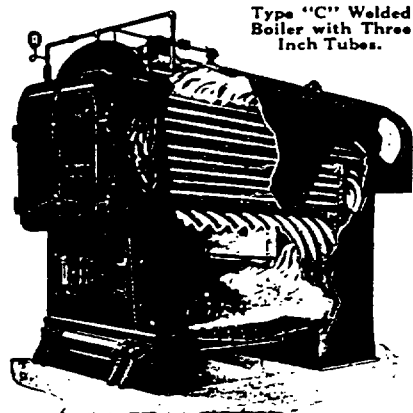
Rated Capacity for Water Boiler is 60% Greater than Steam.

Manhole on Nos. 759, 2759, 1759 and larger.

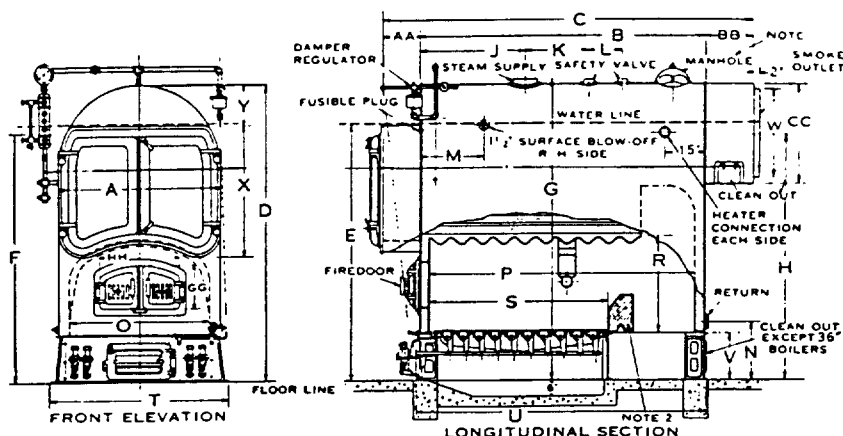
KEWANEE Type "C" Welded Boiler —For Coal

This Type "C" is a welded compact boiler. Its corrugated crown sheet has much greater strength and adds more heating surface where most effective use may be made of intense heat for quick steaming.

Boilers 774-790 with smokeless arch and drum are for use with high-volatile bituminous coal; Nos. 2773-2790 without arch are direct draft for use with smokeless fuels such as low-volatile bituminous coal, coke or anthracite.



Type "C" Welded Boiler with Three Inch Tubes.



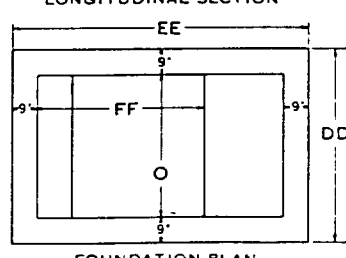
Equipment—Steel base fully assembled with heavy rocking (or dumping) grates and cast iron ash pit front, four cast iron corner posts, heavy steel flanged panels with rear cleanout opening except 36" boilers; refractory bridgewall and header wall; insulated flue door; fire door with liner; smokebox soot cleanout doors. Type "C" may be fitted at factory with Kewanee indirect hot water heating coils at extra cost.

Firing Tools—Hoe, poker, slice bar and flue cleaner and handle.

Trimings for Steam Only—Safety valve, steam gauge with syphon and cock; draft regulator; water column with water gauge, glass and cocks.

Note 1. Manhole located on boilers 782, 2782, 1782, 0782 and larger.

Note 2. Bridgewall omitted on boilers 2773; 774, 2774; 775, 2775.



Footings may be required under base corner posts depending on soil conditions.

All front smokeboxes have double doors.

Type "C" conforms to the A.S.M.E. boiler construction code for 15 lbs., and for rating with the S.H.B.I. simplified practice recommendation.

Specifications and Setting Measurements

Boiler Number	With Arch		Specifications and Settings															With Arch				
	2773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790				
Rating—Steam Radiation	2700	2600	3000	3500	4000	4500	5000	6000	7000	8500	10000	12500	15000	17500	20000	25000	30000	35000				
Water Radiation	3520	4160	4800	5600	6400	7200	8000	9600	11200	13600	16000	20000	24000	28000	32000	40000	48000	56000				
Btu. per Hour	528	624	720	840	960	1080	1200	1440	1680	2040	2400	3000	3600	4200	4800	6000	7200	8400				
Heating Surface (SHBI min.)	158	186	215	250	286	322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500				
Grate Area SHBI min.	8.9	9.7	10.5	11.4	12.2	13.4	14.5	16.4	18.1	20.5	22.5	25.6	28.4	30.9	33.2	37.4	41.2	44.7				
Breaching Diameter	In. 19	In. 19	In. 19	In. 19	In. 22	In. 22	In. 22	In. 24	In. 24	In. 28	In. 28	In. 30	In. 31	In. 35	In. 35	In. 39	In. 41	In. 43				
Stack Diameter	In. 15	In. 16	In. 16	In. 17	In. 18	In. 19	In. 20	In. 21	In. 22	In. 24	In. 26	In. 28	In. 29	In. 31	In. 33	In. 36	In. 38	In. 40				
Stack Height	Ft. 45	Ft. 50	Ft. 50	Ft. 55	Ft. 55	Ft. 55	Ft. 60	Ft. 60	Ft. 65	Ft. 65	Ft. 70	Ft. 75	Ft. 75	Ft. 80	Ft. 85	Ft. 95	Ft. 95	Ft. 110				
Breaching Diameter, Two Boilers	In. 23	In. 24	In. 24	In. 25	In. 26	In. 27	In. 28	In. 30	In. 31	In. 34	In. 36	In. 40	In. 41	In. 44	In. 47	In. 50	In. 54	In. 56				
Stack Diameter, Two Boilers	In. 21	In. 22	In. 22	In. 23	In. 24	In. 25	In. 26	In. 28	In. 29	In. 32	In. 34	In. 37	In. 38	In. 41	In. 44	In. 47	In. 50	In. 52				
Stack Height, Two Boilers	Ft. 55	Ft. 60	Ft. 60	Ft. 65	Ft. 65	Ft. 65	Ft. 70	Ft. 70	Ft. 75	Ft. 75	Ft. 80	Ft. 85	Ft. 85	Ft. 90	Ft. 105	Ft. 105	Ft. 120	Ft. 120				
Steam Supply Size	In. 6	In. 6	In. 6	In. 6	In. 6	In. 6	In. 6	In. 8	In. 8	In. 8	In. 8	In. 8	In. 8	In. 8	In. 8	In. 10	In. 10	In. 10				
Return Size	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 4	In. 4	In. 4	In. 4	In. 4	In. 4	In. 4	In. 4	In. 6	In. 6	In. 6				
Water Heater Connection Size	In. 2	In. 2	In. 2	In. 2	In. 2	In. 2	In. 2	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3				
Safety Valve Size	In. 1 1/2	In. 2	In. 2	In. 2	In. 2	In. 2	In. 2 1/2	In. 2 1/2	In. 2 1/2	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3	In. 3				
Shipping Weight—700 Series	Lb. 3900	Lb. 4400	Lb. 5000	Lb. 5500	Lb. 6000	Lb. 6500	Lb. 7500	Lb. 8400	Lb. 9700	Lb. 11000	Lb. 12900	Lb. 14900	Lb. 16600	Lb. 18400	Lb. 22000	Lb. 25200	Lb. 28400	Lb. 3400				
Shipping Weight—2700 Series	Lb. 3400	Lb. 3800	Lb. 4300	Lb. 4800	Lb. 5300	Lb. 5800	Lb. 6300	Lb. 7200	Lb. 8100	Lb. 9400	Lb. 10600	Lb. 12500	Lb. 14400	Lb. 16100	Lb. 17900	Lb. 21200	Lb. 24400	Lb. 27500				
A—Boiler Width	In. 36	In. 36	In. 36	In. 36	In. 42	In. 42	In. 42	In. 48	In. 48	In. 54	In. 54	In. 60	In. 66	In. 72	In. 72	In. 78	In. 84	In. 84				
B—Boiler Length	Ft. 4-2	Ft. 4-8	Ft. 5-2	Ft. 6-0 1/2	Ft. 5-10 1/2	Ft. 6-6 1/2	Ft. 7-2 1/2	Ft. 7-2 1/2	Ft. 8-5	Ft. 7-8	Ft. 8-11 1/2	Ft. 9-2 1/2	Ft. 9-11 1/2	Ft. 9-3 1/2	Ft. 10-6 1/2	Ft. 11-11 1/2	Ft. 11-4 1/2	Ft. 13-1 1/2				
C—Boiler Length Overall	Ft. 5-10 1/2	Ft. 6-4 1/2	Ft. 6-10 1/2	Ft. 7-9	Ft. 7-10 1/2	Ft. 8-6 1/2	Ft. 9-2 1/2	Ft. 9-4 1/2	Ft. 10-7 1/2	Ft. 9-11	Ft. 11-2 1/2	Ft. 11-6 1/2	Ft. 12-3 1/2	Ft. 12-13 1/2	Ft. 13-4 1/2	Ft. 14-9 1/2	Ft. 14-2 1/2	Ft. 15-11 1/2				
D—Boiler Height Overall	In. 77 1/2	In. 77 1/2	In. 77 1/2	In. 77 1/2	In. 83 1/2	In. 83 1/2	In. 83 1/2	In. 86 1/2	In. 86 1/2	In. 99	In. 99	In. 108 1/2	In. 112	In. 118	In. 118	In. 122	In. 135	In. 135				
E—Water Line	In. 69	In. 69	In. 69	In. 69	In. 72	In. 72	In. 72	In. 73	In. 73	In. 85	In. 85	In. 94	In. 95	In. 101	In. 101	In. 103	In. 114	In. 114				
F—Water Column Height	In. 65 1/2	In. 65 1/2	In. 65 1/2	In. 65 1/2	In. 68	In. 68	In. 68	In. 70	In. 70	In. 81	In. 81	In. 90	In. 92	In. 97 1/2	In. 97 1/2	In. 99 1/2	In. 110 1/2	In. 110 1/2				
G—Steam Supply Height	In. 79 1/2	In. 79 1/2	In. 79 1/2	In. 79 1/2	In. 85 1/2	In. 85 1/2	In. 85 1/2	In. 88 1/2	In. 88 1/2	In. 101	In. 101	In. 110 1/2	In. 114	In. 120	In. 120	In. 124	In. 137	In. 137				
H—Smoke Outlet Hgt. above Floor	In. 64 1/2	In. 64 1/2	In. 64 1/2	In. 64 1/2	In. 69	In. 69	In. 69	In. 70	In. 70	In. 81 1/2	In. 81 1/2	In. 90 1/2	In. 93	In. 96	In. 96	In. 99	In. 110	In. 110				
J—Steam Supply Location	In. 10 1/2	In. 14	In. 14	In. 16	In. 14	In. 16	In. 18	In. 18	In. 18	In. 21	In. 21	In. 21	In. 21	In. 21	In. 21	In. 21	In. 21	In. 24				
K—Safety Valve Location	In. 8 1/2	In. 10	In. 10	In. 10	In. 10	In. 10	In. 11	In. 14	In. 14	In. 13	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 15				
L—Second Safety Valve Location	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 18	In. 18	In. 24	In. 24	In. 24	In. 24	In. 24	In. 24	In. 24				
M—Surface Blow-Off Location	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 12	In. 18	In. 18	In. 24	In. 24	In. 24	In. 24	In. 24	In. 24	In. 24				
N—Return Height	In. 18	In. 18	In. 18	In. 18	In. 18	In. 18	In. 18	In. 18	In. 18	In. 18	In. 18	In. 21	In. 21	In. 21	In. 21	In. 22	In. 26	In. 26				
O—Firebox and Ash Pit Width	In. 30	In. 30	In. 30	In. 30	In. 36	In. 36	In. 36	In. 42	In. 42	In. 47 1/2	In. 47 1/2	In. 52 1/2	In. 58 1/2	In. 65	In. 65	In. 70	In. 76	In. 76				
P—Firebox Length	In. 43 1/2	In. 49 1/2	In. 55 1/2	In. 66	In. 64	In. 72	In. 79 1/2	In. 80	In. 94 1/2	In. 85 1/2	In. 101	In. 103	In. 112	In. 104	In. 119	In. 136	In. 128 1/2	In. 149 1/2				
R—Firebox Height	In. 26	In. 26	In. 26	In. 26	In. 29	In. 29	In. 29	In. 30	In. 30	In. 34	In. 34	In. 36	In. 38	In. 40	In. 40	In. 42	In. 42	In. 42				
S—Grate Length	In. 43	In. 49	In. 55	In. 55	In. 50	In. 56	In. 62	In. 62	In. 68	In. 68	In. 74	In. 74	In. 74	In. 80	In. 80	In. 80	In. 86	In. 86				
T—Base Width	In. 41 1/2	In. 41 1/2	In. 41 1/2	In. 41 1/2	In. 47 1/2	In. 47 1/2	In. 47 1/2	In. 53 1/2	In. 53 1/2	In. 59 1/2	In. 59 1/2	In. 66	In. 72	In. 78	In. 78	In. 84	In. 90 1/2	In. 90 1/2				
U—Base Length	In. 52	In. 58	In. 64	In. 74 1/2	In. 80 1/2	In. 88	In. 88	In. 103	In. 103	In. 94	In. 109 1/2	In. 113	In. 122	In. 114	In. 129	In. 146	In. 139	In. 160				
V—Base Height	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14	In. 17	In. 17	In. 17	In. 17	In. 17	In. 21	In. 21				
W—Smoke Outlet Diameter	In. 19	In. 19	In. 19	In. 19	In. 22	In. 22	In. 22	In. 24	In. 24	In. 28	In. 28	In. 30	In. 31	In. 35	In. 35	In. 39	In. 41	In. 43				
X—Front Smokebox Height	In. 34	In. 34	In. 34	In. 34	In. 34	In. 34	In. 34	In. 35	In. 35	In. 42	In. 42	In. 48	In. 48	In. 51	In. 51	In. 52	In. 61	In. 61				
Y—Fr. Smkbox. Top to Boiler Top	In. 10	In. 10	In. 10	In. 10	In. 13	In. 13	In. 13	In. 14	In. 14	In. 16	In. 16	In. 16	In. 18	In. 17	In. 17	In. 19	In. 21	In. 21				
AA—Front Smokebox Depth	In. 9	In. 9	In. 9	In. 9	In. 10	In. 10	In. 10	In. 11	In. 11	In. 12	In. 12	In. 12	In. 14	In. 14	In. 14	In. 14	In. 14	In. 14				
BB—Rear Smokebox Depth	In. 11 1/2	In. 11 1/2	In. 11 1/2	In. 11 1/2	In. 14	In. 14	In. 14	In. 15	In. 15	In. 15	In. 15	In. 16	In. 16	In. 20	In. 20	In. 20	In. 20	In. 20				
CC—Rear Smokebox Height	In. 26	In. 26	In. 26	In. 26	In. 29	In. 29	In. 29	In. 31 1/2	In. 31 1/2	In. 35	In. 35	In. 36	In. 39	In. 43	In. 43	In. 45 1/2	In. 49 1/2	In. 49 1/2				
DD—Foundation Width	In. 48	In. 48	In. 48	In. 48	In. 54	In. 54	In. 54	In. 60	In. 60	In. 65 1/2	In. 65 1/2	In. 70 1/2	In. 76 1/2	In. 83	In. 83	In. 88	In. 94	In. 94				
EE—Foundation Length	In. 53 1/2	In. 59 1/2	In. 65 1/2	In. 76	In. 74	In. 82	In. 90	In. 90	In. 104 1/2	In. 96	In. 111	In. 114 1/2	In. 123 1/2	In. 115 1/2	In. 130 1/2	In. 147 1/2	In. 140 1/2	In. 161 1/2				
FF—Length of Ash Pit	In. 35 1/2	In. 41 1/2	In. 47	In. 51	In. 45	In. 51	In. 57	In. 57	In. 63	In. 63	In. 69	In. 70	In. 70	In. 76 1/2	In. 76 1/2	In. 76 1/2	In. 82 1/2	In. 82 1/2				
*Outside Surface to Cover	Sq. Ft. 63	Sq. Ft. 69	Sq. Ft. 76	Sq. Ft. 87	Sq. Ft. 94	Sq. Ft. 103	Sq. Ft. 112	Sq. Ft. 120	Sq. Ft. 137	Sq. Ft. 150	Sq. Ft. 172	Sq. Ft. 193	Sq. Ft. 220	Sq. Ft. 223	Sq. Ft. 248	Sq. Ft. 292	Sq. Ft. 307	Sq. Ft. 348				
GG x HH—Fire Door Opening	In. One 11x16	In. One 12x20					In. One 15x23			In. One 16x30			In. One 16x36		In. Two 15x23							
Fire Door Style	Single Frame and Door																		Single Frame and Double Doors		R.&L. Single Fr. & Dr.	

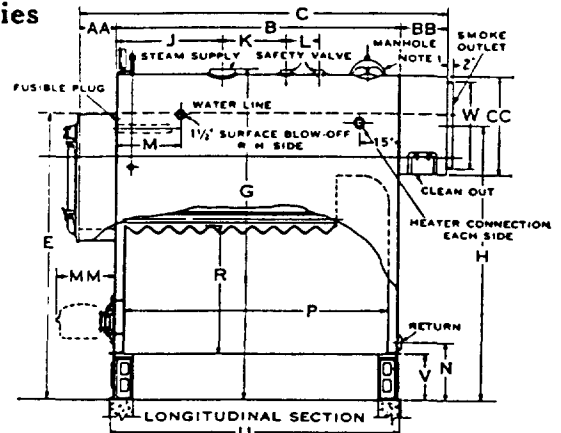
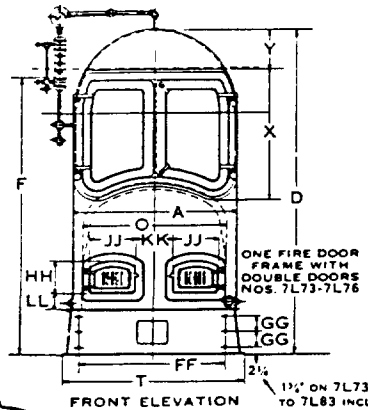
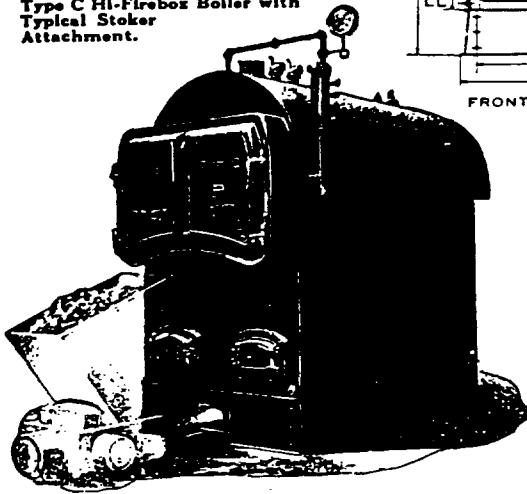
*Front smokebox and front head below smokebox NOT included.

1900-1757 KEWANEE Type "C" Hi-Firebox Welded—7L70 SeriesFor Oil, Gas or Stoker

The Kewanee Hi-Firebox boiler is built exactly right for stokers. This 7L70 series has long water legs providing the necessary height in firebox to comply with S.H.B.I. code for stoker firing.

Type "C" high operating efficiency insures life-long economy with any Oil, Gas or Stoker equipment. 27L70 Series Hi-Firebox is built with grates for hand-fired coal.

Type C Hi-Firebox Boiler with Typical Stoker Attachment.



7L70 Series conforms to A.S.M.E. boiler construction code for 15 lbs., and for rating with the Industry Standard Practice approved by the Steel Heating Boiler Institute in cooperation with U. S. Department of Commerce Recommendation R 157.

In the Kewanee Process of Corrugating Type "C" Crown Sheets not even the slightest reduction in metal thickness is discernible by micrometer measurements.

Note 1. Manhole furnished on boilers 7L82 and larger.

Equipment: Steel base assembled with four cast iron corner posts, heavy steel flanged panels have 8 1/2 x 11 1/2 front and rear opening; insulated flue door; and flue cleaner and handle. 7L70 "C" may be fitted at factory with Kewanee Hot Water Heating Coils at extra cost.

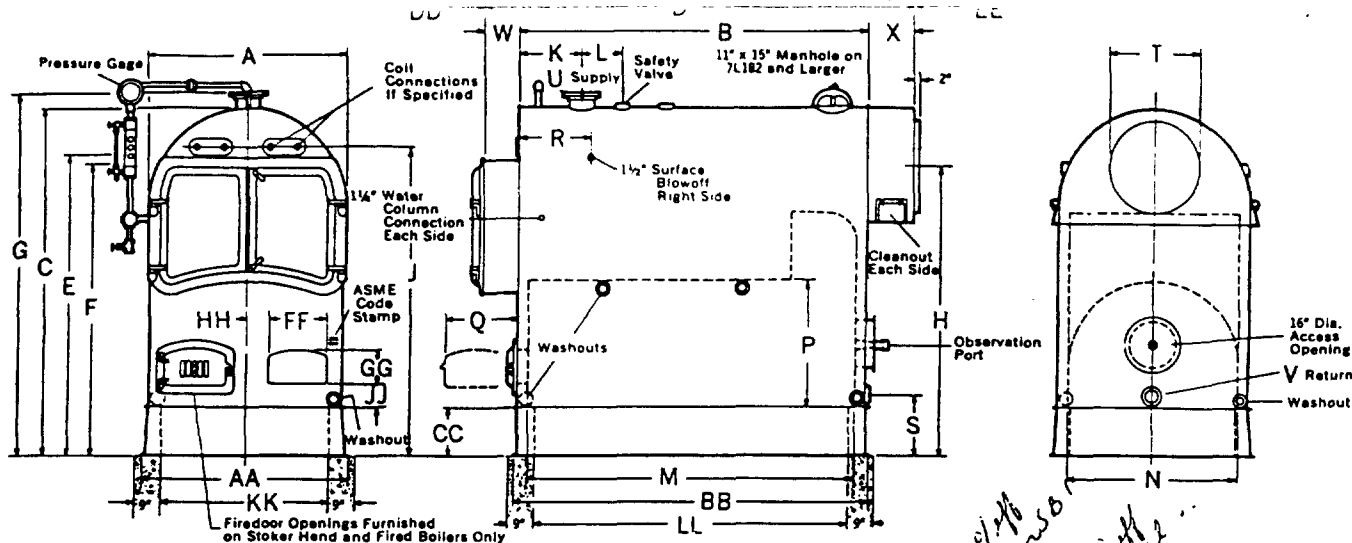
Trimings for steam only: Safety valve, steam gauge with syphon and cock; water column with water gauge, glass and cocks. All front smokeboxes have double doors.

Note 2. Average firebox height, computed by dividing the firebox volume by the plan area, complies with S.H.B.I. code when stoker dead plates are located at top of mud ring.

Specifications and Setting Measurements

Boiler Number	7L73	7L74	7L75	7L76	7L77	7L78	7L79	7L80	7L81	7L82	7L83	7L84	7L85	7L86	7L87	7L88	7L89	7L90
Rating—Steam Radiation	Sq. Ft. 2680	3160	3650	4250	4860	5470	6080	7290	8500	10330	12150	15180	18220	21250	24290	30360	36430	42500
Water Radiation	Sq. Ft. 4280	5050	5840	6800	7770	8750	9720	11660	13600	16520	19440	24280	29150	34000	38860	48570	58280	68000
Btu. per Hour	1000's 643	758	876	1020	1166	1313	1459	1750	2040	2479	2916	3643	4373	5100	5830	7286	8743	10200
Heating Surface (SHBI min.)	Sq. Ft. 158	186	215	250	286	322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500
Furnace Volume (SHBI min.)	Cu. Ft. 19.2	22.6	26.1	30.4	34.8	39.1	43.5	52.1	60.8	73.8	86.8	108.5	130.2	151.8	173.5	216.9	260.3	303.6
Average Firebox Height, See Note 2	In. 33.9	33.0	32.3	31.4	34.5	34.0	34.0	37.8	37.2	42.7	42.4	46.5	48.5	52.4	54.7	58.2	63.5	66.8
Firebox Vol. above Mud Ring	Cu. Ft. 25.5	28.3	31.1	36.1	45.8	50.8	56.0	73.5	85.2	100.5	117.4	145.4	184.5	203.7	243.4	321.6	357.2	437.0
Plan Area	Sq. Ft. 9.1	10.3	11.5	13.8	15.9	17.9	19.8	23.4	27.5	28.2	33.3	37.5	45.7	46.7	53.4	66.3	67.5	78.5
Breeching Diameter	In. 19	19	19	19	22	22	22	24	24	28	28	30	31	35	35	39	41	43
Stack Diameter	In. 15	16	16	17	18	19	20	21	22	24	26	28	29	31	33	36	38	40
Stack Height	Feet 35	35	40	45	40	45	50	50	50	55	65	65	70	65	75	90	80	100
Breeching Diameter, Two Boilers	In. 23	24	24	25	26	27	28	30	31	34	36	40	41	44	47	50	54	56
Stack Diameter, Two Boilers	In. 21	22	22	23	24	25	26	28	29	32	34	37	38	41	44	47	50	52
Stack Height, Two Boilers	Feet 45	45	50	55	50	55	60	60	70	65	75	75	80	75	85	100	90	110
Steam Supply Size	In. 6	6	6	6	6	6	6	8	8	8	8	8	8	8	8	10	10	10
Return Size	In. 3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	6	6	6
Water Heater Connection Size	In. 2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3
Safety Valve Size	In. 1 1/2	2	2	2	2	2	2	2 1/2	2 1/2	3	3	3	3	3	3	3	3	3
Shipping Weight	Lb. 3100	3500	3900	4400	4900	5400	5800	6700	7600	8800	10000	11800	13600	15300	17000	20100	23200	26100
A—Boiler Width	In. 36	36	36	36	42	42	42	48	48	54	54	60	66	72	72	78	84	84
B—Boiler Length	Feet 4-2	4-8	5-2	6-0 1/2	5-10 1/2	6-4 1/2	7-2 1/2	8-5	9-5	7-8	8-11 1/2	9-2 1/2	9-11 1/2	9-3 1/2	10-6 1/2	11-11 1/2	11-4 1/2	13-1 1/2
C—Boiler Length Overall	Feet 5-10 1/2	6-4 1/2	6-10 1/2	7-9	7-10 1/2	8-6 1/2	9-2 1/2	10-7	11-7	9-11	11-2 1/2	11-6 1/2	12-3 1/2	12-1 1/2	13-4 1/2	14-9 1/2	14-2 1/2	15-11 1/2
D—Boiler Height Overall	In. 82 1/2	82 1/2	82 1/2	82 1/2	88 1/2	88 1/2	88 1/2	94 1/2	94 1/2	108	108	119 1/2	123 1/2	131	134	140	157	161
E—Water Line Height	In. 74	74	74	74	77	77	77	81	81	94	94	105	106	114	117	121	136	140
F—Water Column Height	In. 70 1/2	70 1/2	70 1/2	70 1/2	73	73	73	78	78	90	90	101	103	110 1/2	113 1/2	117 1/2	132 1/2	136 1/2
G—Steam Supply Height	In. 84 1/2	84 1/2	84 1/2	84 1/2	90 1/2	90 1/2	90 1/2	96 1/2	96 1/2	110	110	121 1/2	125	133	136	142	159	163
H—Smoke Outlet Hgt. above Floor	In. 69 1/2	69 1/2	69 1/2	69 1/2	74	74	74	78	78	90 1/2	90 1/2	101 1/2	104	109	112	117	132	136
J—Steam Supply Location	In. 10 1/2	14	14	16	14	16	18	18	18	18	21	21	21	21	21	21	21	24
K—Safety Valve Location	In. 8 1/2	10	10	10	10	10	11	14	14	13	14	14	14	14	14	14	14	15
L—Second Safety Valve Location	In. 12	12	12	12	12	12	12	12	12	18	18	24	24	24	24	24	24	24
M—Surface Blow-Off Location	In. 18	18	18	18	18	18	18	18	18	18	18	21	21	21	21	21	21	21
N—Return Height	In. 18	18	18	18	18	18	18	18	18	18	18	21	21	21	21	21	21	21
O—Firebox Width	In. 30	30	30	30	36	36	36	42	42	47 1/2	47 1/2	52 1/2	58 1/2	65	65	70	76	76
P—Firebox Length	In. 43 1/2	49 1/2	55 1/2	66	64	72	79 1/2	80	94 1/2	85 1/2	101	103	112	104	119	136	128 1/2	149 1/2
R—Firebox Height	In. 31	31	31	31	34	34	34	38	38	43	43	47	49	53	56	60	64	68
T—Base Width	In. 41 1/2	41 1/2	41 1/2	41 1/2	47 1/2	47 1/2	47 1/2	53 1/2	53 1/2	59 1/2	59 1/2	66	72	78	78	84	90 1/2	90 1/2
U—Base Length	In. 52	58	64	74 1/2	72 1/2	80 1/2	88	88 1/2	103	94	109 1/2	113	122	114	129	146	139	160
V—Base Height	In. 14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
W—Smoke Outlet Diameter	In. 19	19	19	19	22	22	22	24	24	28	28	30	31	35	35	39	41	43
X—Front Smokebox Height	In. 34	34	34	34	34	34	34	35	35	42	42	48	48	51	51	52	61	61
Y—Fr. Smkbox. Top to Boiler Top	In. 10	10	10	10	13	13	13	14	14	16	16	16	18	17	17	19	21	21
AA—Front Smokebox Depth	In. 9	9	9	9	10	10	10	11	11	12	12	12	12	14	14	14	14	14
BB—Rear Smokebox Depth	In. 11 1/2	11 1/2	11 1/2	11 1/2	14	14	14	15	15	15	15	16	16	20	20	20	20	20
CC—Rear Smokebox Height	In. 26	26	26	26	29	29	29	31 1/2	31 1/2	35	35	36	39	43	43	45 1/2	49 1/2	49 1/2
DD—Foundation Width	In. 48	48	48	48	54	54	54	60	60	65 1/2	65 1/2	70 1/2	76 1/2	83	83	88	94	94
EE—Foundation Length	In. 53 1/2	59 1/2	65 1/2	76	74	82	90	90 1/2	104 1/2	96	111	114 1/2	123 1/2	115 1/2	130 1/2	147 1/2	140 1/2	161 1/2
FF—Bolt Centers in Front Plate	In. 31 1/2	31 1/2	31 1/2	31 1/2	37 1/2	37 1/2	37 1/2	43 1/2	43 1/2	49 1/2	49 1/2	55 1/2	61 1/2	67 1/2	67 1/2	73 1/2	79 1/2	79 1/2
GG—Bolt Centers in Front Plate	In. 4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2
HH—Firedoor Height	In. 13 1/2	13 1/2	13 1/2	13 1/2	15	15	15	16	16	16	16	16	16	16	16	16	16	16
JJ—Firedoor Width	In. 27 1/2	27 1/2	27 1/2	27 1/2	15	15	15	16	16	16	16	16	16	16	16	16	16	16
KK—Space Between Firedoors	In. 5	5	5	5	5	5	5	7	7	7	7	7	7	7	7	7	7	7
LL—Hgt. Doors from Bottom Blr.	In. 9 1/2	9 1/2	9 1/2	9 1/2	8	8	8	8	8	8	8	8	8	8	8	8	8	8
MM—Open Firedoor to Boiler	In. 20	20	20	20	20 1/2	20 1/2	20 1/2	22 1/2	22 1/2	22 1/2	22 1/2	26 1/2	26 1/2	26 1/2	26 1/2	29 1/2	29 1/2	29 1/2
*Outside Surface to Cover	Sq. Ft. 79	85	93	104	116	125	134	152	170	192	215	245	277	291	327	385	415	463

*Front smokebox and front head below smokebox IS included.



Ratings – Mechanically Fired – Oil, Gas or Stoker

Boiler Number	7L178	7L179	7L180	7L181	7L182	7L183	7L184	7L185	7L186	7L187	7L188	7L189	7L190	7L191	7L192	7L193
SBI Rating—Steam	Sq. Ft. 5800	6440	7720	9000	10940	12870	16070	19300	22500	25720	32150	38570	45000	51430	57850	64280
—Water	Sq. Ft. 5280	10300	12350	14400	17500	20590	25710	30880	36000	41150	51440	61710	72000	82290	92560	102850
—MBtuh	Lb. 1392	1546	1853	2160	2626	3089	3857	4632	5400	6173	7716	9257	10800	12340	13880	15430
—Steam per hour—212° F.	Lb. 1430	1590	1900	2220	2700	3170	3960	4760	5540	6340	7920	9510	11090	12670	14260	15840
SBI Net Rating—Steam	Sq. Ft. 5070	5640	6760	7880	9580	11260	14060	16880	19690	22510	28170	33750	39370	45000	50620	56240
—Water	Sq. Ft. 4610	9020	10820	12610	15330	18020	22500	27010	31500	36020	45060	54000	62990	72000	80990	89980
—MBtuh	Lb. 1217	1353	1622	1890	2298	2703	3376	4052	4725	5402	6787	8170	9450	10800	12150	13500
Firing Rate—Oil	Gph 16	18	22	26	31	37	46	54	64	73	91	110	127	146	164	182
—Gas	MBtuh 2460	2740	3280	3830	4650	5460	6840	8200	9560	10920	13670	16400	19120	21900	24600	27300
—Stoker	Lb. per hr. 218	244	291	340	412	485	607	729	850	972	1215	1457	1700	1943	2186	2429
Heating Surface (SBI min)	Sq. Ft. 322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500	2857	3214	3571
Furnace Volume (SBI min)	Cu. Ft. 39.1	43.5	52.1	60.8	73.8	86.8	108.5	130.2	151.8	173.5	216.9	260.3	303.6	346.9	390.3	433.6
Furnace Height (SBI min)	In. 31 1/4	31 1/4	32 1/4	34	35 1/4	37 1/4	40 1/4	43	46	48 1/4	54 1/4	60 1/4	66	71 1/4	77 1/4	83 1/4
Firebox Vol. Above Bot. of Water Leg	Cu. Ft. 49.6	54.5	66.3	76.1	89.7	103.5	127.8	161.5	191.1	215.3	294.6	361.0	415.0	477.6	542.1	606.1
Safety Valve Capacity	Lb. steam per hr. 1969	2188	2625	3060	3718	4374	5464	6559	7650	8745	10929	13114	15300	17485	19671	21855

Firing Rates calculated to develop boiler output of 141.5% of SBI Rating.
Based on 150,000 Btu. Oil; 12,000 Btu. Coal.

Dimensions and Data – Inches

Boiler Number	7L178	7L179	7L180	7L181	7L182	7L183	7L184	7L185	7L186	7L187	7L188	7L189	7L190	7L191	7L192	7L193
Shell Diameter—Inside	42	42	48	48	54	54	60	66	72	72	78	84	84	90	90	96
A —Boiler Width Overall	44	44	50	50	56	56	62	68	74	74	80	86	86	94	94	100
B —Boiler Length	80	88 1/2	87	100 1/2	92 1/2	107 1/2	112	119 1/2	114	129 1/2	145 1/2	134	155	153 1/2	170 1/2	173
C —Boiler Height	87	87	91 1/2	91 1/2	103	103	113 1/2	119	128 1/2	136	161 1/2	161 1/2	172	178	189 1/2	189 1/2
D —Boiler Length Overall	104	112 1/2	113	126 1/2	119 1/2	134 1/2	140	147 1/2	148	163 1/2	179 1/2	168	189	189 1/2	210 1/2	213
E —Water Line Height	73 1/2	73 1/2	77	77	86 1/2	86 1/2	97	100	109 1/2	109 1/2	115 1/2	138 1/2	138 1/2	149 1/2	155	164 1/2
F —Water Column Height	71 1/2	71 1/2	75	75	84 1/2	84 1/2	95	98	107 1/2	107 1/2	113 1/2	136 1/2	136 1/2	147 1/2	153	162 1/2
G —Steam Supply Height	92	92	96 1/2	96 1/2	108	108	118 1/2	123 1/2	131	131	141 1/2	167	167	178	183 1/2	183 1/2
H —Smoke Outlet Height	72	72	75 1/2	75 1/2	85	85	94 1/2	98	106 1/2	106 1/2	113 1/2	136	136	145	150 1/2	160 1/2
J —Coil Connection Height	76 1/2	76 1/2	80	80	90	90	100 1/2	103 1/2	113	113	118 1/2	142	142	152 1/2	158 1/2	168
K —Steam Supply	16	18	18	18	18	21	21	21	21	21	21	21	24	24	24	24
1L —Safety Valve	12	12	14	14	14	14	14	14	16	16	16	16	16	24	24	24
M —Firebox Length	73 1/2	82	80 1/2	94	86	101	104 1/2	112	106 1/2	122	138	126	147	144 1/2	161 1/2	163
N —Firebox Width	36 1/2	36 1/2	42 1/2	42 1/2	48 1/2	48 1/2	53 1/2	59 1/2	65	65	71	77	77	82	82	87
P —Firebox Height	32	32	34	34	37 1/2	37 1/2	40 1/2	43	49	49	54 1/2	66	66	72	77 1/2	83 1/2
Q —Opened Firedoor to Boiler	20	20	22 1/2	22 1/2	22 1/2	22 1/2	26 1/2	26 1/2	29 1/2	29 1/2	29 1/2	29 1/2	29 1/2	29 1/2	29 1/2	29 1/2
R —Surface Blowoff	12	12	12	12	18	18	24	24	24	24	24	24	24	30	30	30
S —Return Height	18	18	18	18	18	18	21	21	21	21	23	27	27	27	27	27
T —Smoke Outlet Diameter	22	22	24	24	28	28	30	31	35	35	39	41	43	46	48	50
*U —Steam Supply Size	6	6	8	8	8	8	8	8	8	8	10	10	10	12	12	12
V —Return Size	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6	6
W —Smokebox Depth—Front	10	10	11	11	12	12	12	12	14	14	14	14	14	16	16	16
X —Rear	14	14	15	15	15	15	16	16	20	20	20	20	20	24	24	24
AA —Base—Width	48	48	54	54	60	60	66 1/2	73	79	79	84 1/2	91 1/2	91 1/2	97 1/2	97 1/2	103 1/2
BB —Length	83 1/2	92	90 1/2	104	96	111	115 1/2	123	123	133	149	137 1/2	158 1/2	157 1/2	174	176 1/2
CC —Height	14	14	14	14	14	14	17	17	17	17	17	21	21	21	21	21
DD—Tube Replacement Space—Front	71	79 1/2	77	90 1/2	81 1/2	96 1/2	101	108 1/2	101	116 1/2	132 1/2	121	142	138 1/2	155 1/2	158
EE—Rear	67	75 1/2	73	86 1/2	78 1/2	93 1/2	97	104 1/2	95	110 1/2	126 1/2	115	136	130 1/2	147 1/2	150
FFxGG—Firedoor opening in blr. width x height	One 27 1/2" x 13 1/2"		Two 16" x 11"				Two 20" x 12"				Two 23" x 15"					
HH—Centerline blr. to firedoor opening	8 1/2	8 1/2	3 1/2	3 1/2	6	6	4 1/2	7 1/2	6 1/2	6 1/2	10	10	13	12	12	14
JJ—Height Doors from Bot. of Boiler	8 1/2	8 1/2	8	8	8	8	8	8	8	8	10	10	10	11	11	11
KK—Foundation—Width	36 1/2	36 1/2	42 1/2	42 1/2	48 1/2	48 1/2	53 1/2	59 1/2	65	65	71	77	77	82	82	87
LL—Length	67	75 1/2	74	87 1/2	79 1/2	94 1/2	99	106 1/2	101	116 1/2	132 1/2	121	142	140 1/2	157 1/2	160
Breaching Dia. One Boiler	22	22	24	24	28	28	30	31	35	35	39	41	43	46	48	50
Stack Diameter	18	20	21	22	24	24	28	29	31	33	36	38	40	42	44	46
—Height	45	50	50	60	55	65	65	70	65	75	90	80	100	100	110	110
Breaching Dia. Two Boilers	27	28	30	31	34	36	40	41	44	47	50	54	56	60	63	66
Stack—Diameter	25	26	28	29	32	34	37	38	41	44	47	50	52	56	59	62
—Height	55	60	60	70	65	75	80	80	85	85	100	90	110	110	120	120
**Outside Surface to Cover Approx. Weight	Sq. Ft. 122	132	145	162	180	202	231	265	285	313	375	422	469	508	571	629
	Lbs. 5400	5800	6700	7600	8800	10000	11800	13600	15300	17000	20100	23200	26100	33400	37300	42000

*150 Lb. American-Standard Flange

**Includes Front Head and Smokebox.

†One or more valves furnished depending on required capacity.

Tubes: Size, Length and Number Kewanee Firebox Boilers

Portable and Brickset
Riveted and Welded
Down-Draft and Up-Draft

Kewanee Firebox Boiler Riveted Single-Pass Up-Draft Brickset or Portable Type K

Boiler	TUBES No.Dia. Length
0	12-3"x 4' 6" "
1	17-3"x 4' 1" "
2	17-3"x 4' 8" "
3	17-3"x 5' 2" "
4	28-3"x 4' 8" "
5	28-3"x 5' 8" "
6	28-3"x 6' 8" "
8	39-3"x 6' 2" "
9	39-3"x 7' 2" "
10	46-3"x 6' 8" "
11	46-3"x 7' 8" "
12	46-3"x 8' 8" "
13	39-4"x 9' 1" "
14	39-4"x11' 1" "
15	48-4"x10' 1 1/8" "
16	48-4"x12' 1 1/8" "
17	62-4"x10' 7 1/8" "
18	62-4"x12' 1 1/8" "
19	82-4"x10' 1 1/8" "
20	82-4"x11' 7 1/8" "

Not for Boilers Built before 1918.

Kewanee Firebox Boiler Riveted Double-Pass Smokeless Down-Draft

Boiler	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
307	29-3"x 2' 9" "	28-3"x 7' 6" "
308	29-3"x 3' 7" "	28-3"x 8' 10 1/8" "
309	29-3"x 4' 1" "	28-3"x 9' 10 1/8" "
310	38-3"x 3' 1" "	36-3"x 9' 4 1/4" "
311	38-3"x 3' 7" "	36-3"x10' 4 1/4" "
312	38-3"x 4' 1" "	36-3"x11' 4 1/4" "
313	28-4"x 4' 7 1/8" "	28-4"x11' 4 3/8" "
314	28-4"x 5' 1 1/8" "	28-4"x12' 4 3/8" "
315	28-4"x 5' 10 1/8" "	28-4"x13' 8" "
316	28-4"x 6' 4" "	28-4"x14' 8" "
317	38-4"x 6' 2 1/8" "	34-4"x14' 0" "
318	38-4"x 7' 8" "	34-4"x16' 0" "
319	46-4"x 6' 4 1/8" "	46-4"x14' 8" "
320	46-4"x 7' 2 1/8" "	46-4"x16' 0" "
321	55-4"x 7' 1 1/8" "	50-4"x15'11" "
322	55-4"x 7' 7" "	50-4"x16'11" "
323	68-4"x 8' 2" "	66-4"x18' 0" "
324	68-4"x11' 8" "	66-4"x22' 0" "

Not for Boilers Built before 1918.

Kewanee Firebox Boiler Riveted Double-Pass "500" Series Up-Draft

Boiler	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
524	38-3"x 6' 6 5/8" "	36-3"x12' 0" "
526	28-4"x 5' 5 1/8" "	52-3"x10'10 3/8" "
528	28-4"x 6' 1 1/8" "	52-3"x12' 0 3/8" "
530	34-4"x 7' 3 1/8" "	52-3"x12' 9" "
532	34-4"x 8' 1 1/8" "	52-3"x14' 7" "
534	43-4"x 7' 6 1/8" "	66-3"x14' 0" "
536	43-4"x 8' 7 1/8" "	66-3"x15' 7" "
538	49-4"x 7' 0 1/8" "	82-3"x14' 0" "
540	49-4"x 8' 1 1/8" "	82-3"x15' 7" "
542	55-4"x 8' 6 1/8" "	100-3"x15' 6" "
544	55-4"x 9'11 1/8" "	100-3"x17' 5" "

Kewanee Firebox Boiler Riveted Double-Pass "800" Series Up-Draft

Boiler	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
832	46-3"x 3'10 3/4" "	46-3"x 9'10" "
833	46-3"x 4' 4 3/4" "	46-3"x10'10" "
834	58-3"x 3' 9 3/4" "	58-3"x 9' 2 3/4" "
835	58-3"x 4' 6 1/8" "	58-3"x10' 5 3/8" "
836	66-3"x 5' 0" "	66-3"x11' 0" "
837	66-3"x 5' 9" "	66-3"x12' 3" "
838	85-3"x 4' 9" "	83-3"x11' 3" "
839	85-3"x 5' 6" "	83-3"x12' 6" "
840	104-3"x 5' 0" "	103-3"x12' 0" "
841	104-3"x 6' 3" "	103-3"x13' 9" "
842	121-3"x 7' 3" "	120-3"x14' 9" "
843	121-3"x 8' 8" "	120-3"x16' 8" "

"900" Series Down-Draft

Boiler	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
932	46-3"x 3' 3 3/4" "	46-3"x10' 1" "
933	46-3"x 3' 8 1/4" "	46-3"x10'11 1/2" "
934	58-3"x 2'10 3/4" "	58-3"x10' 1 1/8" "
935	58-3"x 3' 1 3/4" "	58-3"x10'10 3/8" "
936	66-3"x 3' 7 1/8" "	66-3"x11' 4 7/8" "
937	66-3"x 4'10 1/8" "	66-3"x13' 1 1/8" "
938	85-3"x 3'10" "	83-3"x12' 2" "
939	85-3"x 4' 2 1/8" "	83-3"x13' 0" "
940	104-3"x 3' 7" "	103-3"x12' 4 7/8" "
941	104-3"x 3' 8 1/8" "	103-3"x13' 0" "
942	121-3"x 4'10 1/8" "	120-3"x14' 8" "
943	121-3"x 7' 5 3/4" "	120-3"x17' 9 3/8" "

Kewanee Firebox Boiler Riveted Single-Pass Smokeless Down-Draft Brickset or Portable Type K

Boiler	TUBES No.Dia. Length
104	28-3"x 4' 8" "
105	28-3"x 5' 8" "
106	28-3"x 6' 8" "
107	39-3"x 5' 2" "
108	39-3"x 6' 2" "
109	39-3"x 7' 2" "
110	46-3"x 6' 8" "
111	46-3"x 7' 8" "
112	46-3"x 8' 8" "
113	39-4"x 9' 1" "
114	39-4"x11' 1" "
115	48-4"x10' 1 1/8" "
116	48-4"x12' 1 1/8" "
117	62-4"x10' 7 1/8" "
118	62-4"x12' 1 1/8" "
119	82-4"x10' 1 1/8" "
120	82-4"x11' 7 1/8" "

Not for Boilers Built before 1918.

Kewanee Firebox Boiler Riveted Double-Pass Up-Draft

Boiler	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
407	29-3"x 3' 7" "	28-3"x 7' 0 1/8" "
408	29-3"x 4' 0" "	28-3"x 7'11" "
409	29-3"x 5' 1" "	28-3"x 9' 6 1/8" "
410	38-3"x 4' 6" "	36-3"x 8' 5 1/4" "
411	38-3"x 5' 1" "	36-3"x 9' 6 1/4" "
412	38-3"x 5' 7" "	36-3"x10' 6 1/4" "
413	28-4"x 5'11 1/8" "	28-4"x10'10 3/8" "
414	28-4"x 6' 7 1/8" "	28-4"x12' 0 3/8" "
415	28-4"x 7' 9 1/8" "	28-4"x12' 9" "
416	28-4"x 9' 1 1/8" "	28-4"x14' 7" "
417	38-4"x 8' 6" "	34-4"x14' 0" "
418	38-4"x 9' 7" "	34-4"x15' 7" "
419	46-4"x 8' 0 1/8" "	46-4"x14' 0" "
420	46-4"x 9' 1 1/8" "	46-4"x15' 7" "
421	55-4"x 9' 6 1/8" "	50-4"x16' 0" "
422	55-4"x11' 0 1/8" "	50-4"x18' 0" "
423	68-4"x11' 0" "	66-4"x18' 0" "
424	68-4"x12' 6" "	66-4"x20' 0" "

Not for Boilers Built before 1918.

NOTE: WHEN ORDERING TUBES GIVE DATE OF BOILER OR SERIES NUMBER, AND CHECK ACTUAL LENGTHS AND NUMBER IN EACH TUBE NEST. LENGTHS IN THESE TABLES INCLUDE 1 IN. FOR ROLLING AND BEADING. Kewanee Boiler Corp. assumes no responsibility for tubes ordered too long or too short.

**Kewanee Firebox Boiler
Weld + Rivet Double-Pass
"5000" Series Up-Draft**

BOILER Coal - Oil	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
5029-5129	30-3"x 4' 3 $\frac{3}{8}$ "	30-3"x 9' 8" "
5033-5133	49-3"x 3' 7 $\frac{3}{8}$ "	48-3"x 8' 7 $\frac{1}{8}$ "
5034-5134	49-3"x 4' 7 $\frac{1}{8}$ "	48-3"x10' 0 $\frac{3}{8}$ "
5036-5136	49-3"x 5' 7 $\frac{3}{4}$ "	48-3"x11' 7" "
5038-5138	60-3"x 4'11 $\frac{3}{8}$ "	66-3"x10'11 $\frac{1}{8}$ "
5039-5139	60-3"x 6' 1 $\frac{1}{4}$ "	66-3"x12' 7" "
5040-5140	82-3"x 6' 1 $\frac{1}{2}$ "	76-3"x12' 7 $\frac{1}{4}$ "
5041-5141	82-3"x 7' 4 $\frac{3}{8}$ "	76-3"x14' 4 $\frac{3}{8}$ "
5042-5142	101-3"x 6'10 $\frac{3}{8}$ "	98-3"x13'10 $\frac{1}{4}$ "
5043-5143	101-3"x 8' 1 $\frac{1}{8}$ "	98-3"x15' 7 $\frac{3}{4}$ "
5044-5144	122-3"x 8' 7 $\frac{1}{2}$ "	108-3"x16' 1 $\frac{3}{8}$ "
5045-5145	122-3"x10' 1 $\frac{3}{8}$ "	108-3"x18' 1 $\frac{1}{4}$ "

"6000" Series Down-Draft

6027-6127	30-3"x 2' 2 $\frac{3}{8}$ "	30-3"x 7' 9 $\frac{1}{2}$ "
6028-6128	30-3"x 2' 9 $\frac{1}{4}$ "	30-3"x 6 $\frac{3}{4}$ "
6029-6129	30-3"x 3' 2 $\frac{1}{4}$ "	30-3"x 5 $\frac{1}{8}$ "
6030-6130	40-3"x 2' 7 $\frac{3}{4}$ "	36-3"x 8" "
6031-6131	40-3"x 3' 2 $\frac{3}{4}$ "	36-3"x 9' 3" "
6032-6132	40-3"x 3' 7 $\frac{3}{4}$ "	36-3"x 9'11" "
6033-6133	49-3"x 2'10 $\frac{3}{4}$ "	48-3"x 8'11" "
6034-6134	49-3"x 3' 4 $\frac{1}{2}$ "	48-3"x 9' 7 $\frac{3}{4}$ "
6035-6135	49-3"x 3' 9 $\frac{1}{4}$ "	48-3"x10' 6 $\frac{1}{2}$ "
6036-6136	49-3"x 4' 5" "	48-3"x11' 2 $\frac{1}{4}$ "
6037-6137	60-3"x 3' 2" "	66-3"x 9'11 $\frac{3}{4}$ "
6038-6138	60-3"x 3'10 $\frac{1}{2}$ "	66-3"x11' 0 $\frac{1}{4}$ "
6039-6139	60-3"x 5' 4 $\frac{3}{4}$ "	66-3"x12'11 $\frac{1}{2}$ "
6040-6140	82-3"x 4'11 $\frac{3}{8}$ "	76-3"x12' 9 $\frac{3}{8}$ "
6041-6141	82-3"x 6' 3 $\frac{1}{8}$ "	76-3"x14' 3 $\frac{1}{8}$ "
6042-6142	101-3"x 6' 1 $\frac{5}{8}$ "	98-3"x14' 5 $\frac{1}{2}$ "
6043-6143	101-3"x 8' 1 $\frac{1}{8}$ "	98-3"x16'11" "
6044-6144	122-3"x 8' 5 $\frac{7}{8}$ "	108-3"x17' 3 $\frac{3}{4}$ "
6045-6145	122-3"x10' 2 $\frac{1}{8}$ "	108-3"x19' 6" "

**Kewanee Firebox Boiler
Welded Single-Pass
"G" Series Up-Draft**

Boiler	TUBES No.Dia. Length
G-23	36-3"x 3' 9 $\frac{7}{8}$ "
G-28	36-3"x 4' 8 $\frac{7}{8}$ "
G-32	36-3"x 5' 8 $\frac{7}{8}$ "
G-36	36-3"x 6' 7 $\frac{1}{8}$ "
G-39	52-3"x 5' 0 $\frac{7}{8}$ "
G-44	52-3"x 5'10 $\frac{1}{8}$ "
G-51	52-3"x 6'10 $\frac{3}{8}$ "
G-55	66-3"x 5'11 $\frac{1}{4}$ "
G-64	66-3"x 7' 0 $\frac{3}{4}$ "
G-71	66-3"x 7'11 $\frac{1}{4}$ "

**Kewanec Residence Boiler
Welded Two-Pass Tubes
Round Type "R"**

BOILER Coal - Oil	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
735-2735 1735	4-4"x 17" "	4-4"x 27" "
736-2736 1736	5-4"x 19 $\frac{1}{2}$ "	5-4"x 29" "

Square Type "R"

740-2740 1740	7-4"x 1' 6 $\frac{3}{4}$ "	7-4"x 2' 4 $\frac{3}{8}$ "
741-2741 1741	7-4"x 2' 0 $\frac{3}{8}$ "	7-4"x 2'10 $\frac{3}{8}$ "
742-2742 1742	7-4"x 2' 6 $\frac{3}{4}$ "	7-4"x 3' 4 $\frac{3}{8}$ "
743-2743 1743	7-4" x 3' 0 $\frac{3}{4}$ "	7-4"x 3'10 $\frac{3}{8}$ "
745-2745 1745	10-4"x 3' 0 $\frac{3}{4}$ "	10-4"x 3'10 $\frac{3}{8}$ "
746-2746 1746	10-4"x 3' 6 $\frac{3}{4}$ "	10-4"x 4' 4 $\frac{3}{8}$ "
747-2747 1747	10-4"x 4' 0 $\frac{3}{4}$ "	10-4"x 4'10 $\frac{3}{8}$ "
748-2748 1748	10-4"x 4' 6 $\frac{3}{4}$ "	10-4"x 5' 4 $\frac{3}{8}$ "

**Kewanee Type "C" Boiler
Welded Two-Pass Tubes
Smokeless and Direct Draft**

BOILER Coal - Oil	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
749-2749 1749	21-3"x 2' 5 $\frac{5}{8}$ "	24-3"x 4' 2 $\frac{3}{4}$ "
750-2750 1750	21-3"x 2'11 $\frac{1}{2}$ "	24-3"x 4' 8 $\frac{3}{4}$ "
751-2751 1751	21-3"x 3'11 $\frac{1}{2}$ "	24-3"x 5' 8 $\frac{3}{4}$ "
752-2752 1752	21-3"x 4' 7 $\frac{3}{4}$ "	24-3"x 6' 5" "
753-2753 1753	27-3"x 4' 2 $\frac{1}{4}$ "	30-3"x 5'11 $\frac{1}{2}$ "
754-2754 1754	27-3"x 4'10 $\frac{1}{4}$ "	30-3"x 6' 7 $\frac{1}{2}$ "
755-2755 1755	27-3"x 5' 9 $\frac{3}{4}$ "	30-3"x 7' 7" "
756-2756 1756	35-3"x 5' 6 $\frac{1}{4}$ "	34-3"x 7' 3 $\frac{1}{2}$ "
757-2757 1757	35-3"x 6' 1 $\frac{1}{2}$ "	34-3"x 7'10 $\frac{3}{8}$ "
758-2758 1758	35-3"x 6' 8 $\frac{1}{2}$ "	34-3"x 8' 5 $\frac{3}{8}$ "
759-2759 1759	48-3"x 5' 7 $\frac{1}{4}$ "	48-3"x 7' 6 $\frac{1}{2}$ "
760-2760 1760	48-3"x 6' 8 $\frac{3}{4}$ "	48-3"x 8' 8" "
761-2761 1761	62-3"x 6' 1 $\frac{3}{4}$ "	56-3"x 8' 1 $\frac{1}{2}$ "
762-2762 1762	62-3"x 7' 0 $\frac{1}{4}$ "	56-3"x 9' 0" "
763-2763 1763	70-3"x 7' 6 $\frac{1}{4}$ "	62-3"x 9' 8" "
764-2764 1764	70-3"x 8' 9 $\frac{1}{4}$ "	62-3"x10'11" "
765-2765 1765	82-3"x 7' 9 $\frac{3}{4}$ "	86-3"x 9'11 $\frac{1}{2}$ "
766-2766 1766	82-3"x 8'10 $\frac{1}{4}$ "	86-3"x11' 0" "
767-2767 1767	94-3"x 8' 7 $\frac{1}{4}$ "	92-3"x10'11" "
768-2768 1768	94-3"x 9'11 $\frac{3}{4}$ "	92-3"x12' 3 $\frac{1}{2}$ "
769-2769 1769	124-3"x 8' 8" "	118-3"x11' 0" "
770-2770 1770	124-3"x10' 2" "	118-3"x12' 6" "

EXCEPTIONS FOR EARLIER STYLES

Boilers Previous to Date:	Series	BOILER Coal - Oil	DIRECT TUBES No.Dia. Length	RETURN TUBES No.Dia. Length
12-	6-29 1-X	750-2750 1750	21-3"x 3' 1 $\frac{1}{2}$ "	24-3"x 4' 9 $\frac{3}{4}$ "
	1-21-31 1-X	759-2759 1759	48-3"x 6' 2 $\frac{1}{4}$ "	48-3"x 8' 1 $\frac{1}{2}$ "
	12-22-32 1-X	756-2756 1756	40-3"x 4' 4 $\frac{3}{4}$ "	44-3"x 6' 2" "
	12-22-32 1-X	757-2757 1757	40-3"x 4'10 $\frac{3}{4}$ "	44-3"x 6' 8" "
	12-22-32 1-X	758-2758 1758	40-3"x 5' 4 $\frac{3}{4}$ "	44-3"x 7' 2" "

NOTE: WHEN ORDERING TUBES GIVE DATE OF BOILER OR SERIES NUMBER, AND CHECK ACTUAL LENGTHS AND NUMBER IN EACH TUBE NEST. LENGTHS IN THESE TABLES INCLUDE 1 IN. FOR ROLLING AND BEADING EXCEPT ON RO.R-SQ.R TUBE LENGTHS INCLUDE ONLY $\frac{3}{4}$ " TO 1".

Kewanee Boiler Corp. assumes no responsibility for tubes ordered too long or too short.

Tubes: Size, Length and Number

KEWANEE Firebox Boilers (Simplified Practice) 15 Lb., also Hi Pressure.

Kewanee Firebox Boiler Riveted Double-Pass "500" Series Up-Draft

Boiler	DIRECT TUBES No. Dia. Length	RETURN TUBES No. Dia. Length
576	24-3"x3' 2 3/4"	23-3"x 7' 8 "
577	24-3"x4' 2 1/4"	23-3"x 8' 7 1/2"
578	32-3"x3' 3 3/4"	30-3"x 7' 9 "
579	32-3"x4' 0 1/4"	30-3"x 8' 5 1/2"
580	42-3"x3' 6 1/4"	39-3"x 7' 11 1/2"
581	42-3"x4' 3 3/4"	39-3"x 9' 3 "
582	53-3"x3' 4 "	50-3"x 9' 8 "
583	53-3"x4' 2 "	50-3"x11' 4 "
584	68-3"x4' 3 "	62-3"x11' 5 "
585	68-3"x5' 10 "	62-3"x13' 4 "
586	82-3"x5' 8 "	74-3"x13' 2 "
587	101-3"x5' 2 1/8"	87-3"x13' 0 "
588	101-3"x7' 0 1/2"	87-3"x15' 10 1/2"
589	117-3"x7' 0 1/2"	108-3"x15' 10 1/2"
590	117-3"x8' 9 1/2"	108-3"x18' 1 1/2"

Kewanee Firebox Boiler Riveted Double-Pass "400" Series Up-Draft

480	24-4"x 5' 8 3/4"	20-4"x10' 2 "
481	24-4"x 6' 11 1/2"	20-4"x11' 10 1/2"
482	28-4"x 5' 7 1/2"	28-4"x11' 11 1/2"
483	28-4"x 6' 10 1/2"	28-4"x14' 0 1/2"
484	38-4"x 6' 11 1/2"	34-4"x14' 1 1/2"
485	38-4"x 9' 1 1/2"	34-4"x16' 7 1/2"
486	46-4"x 7' 11 "	46-4"x15' 5 "
487	55-4"x 8' 0 3/4"	50-4"x15' 10 1/2"
488	55-4"x10' 8 3/4"	50-4"x19' 6 "
489	68-4"x 9' 10 "	66-4"x18' 8 "
490	68-4"x12' 0 3/4"	66-4"x21' 5 "

Kewanee Firebox Boiler Riveted Double-Pass "300" Series Smokeless Down-Draft

376	24-3"x 1' 10 3/4"	23-3"x 7' 4 "
377	24-3"x 2' 8 3/4"	23-3"x 8' 4 "
378	32-3"x 2' 1 1/4"	30-3"x 7' 6 1/2"
379	32-3"x 2' 8 3/4"	30-3"x 8' 4 "
380 Hi.Pr.	42-3"x 2' 4 3/4"	39-3"x 7' 11 1/2"
380	24-4"x 4' 4 1/4"	20-4"x 9' 11 1/2"
381	24-4"x 5' 4 3/4"	20-4"x11' 8 "
382	28-4"x 4' 11 1/2"	28-4"x11' 3 1/2"
383	28-4"x 6' 2 "	28-4"x13' 4 "
384	38-4"x 6' 4 "	34-4"x13' 6 "
385	38-4"x 8' 5 "	34-4"x15' 11 "
386	46-4"x 7' 4 "	46-4"x14' 10 "
387	55-4"x 7' 5 3/4"	50-4"x15' 3 1/2"
388	55-4"x10' 0 3/4"	50-4"x18' 10 1/2"
389	68-4"x 9' 2 "	66-4"x18' 0 "
390	68-4"x11' 5 "	66-4"x20' 9 "

Kewanee Firebox Boiler Riveted Single-Pass Brickset & Type K Up-Draft

Boiler	TUBES No. Dia. Length
3-3 K	17-3"x 5' 2 "
4-4 K	28-3"x 4' 8 "
5-5 K	28-3"x 5' 8 "
6-6 K	28-3"x 6' 8 "
8-8 K	39-3"x 6' 2 "
9-9 K	39-3"x 7' 2 "
10-10 K	46-3"x 6' 8 "
11-11 K	46-3"x 7' 8 "
12-12 K	46-3"x 8' 8 "
13-13 K	39-4"x 9' 1 "
14-14 K	39-4"x11' 1 "
15-15 K	48-4"x10' 1 1/8"
16 K	48-4"x12' 1 1/8"
17-	62-4"x10' 7 1/8"
18-3 K	62-4"x12' 1 1/8"
19-	82-4"x10' 1 1/8"
20-10 K	82-4"x11' 7 1/8"

Kewanee Firebox Boiler Welded Single-Pass "G" Series Down-Draft

Boiler	TUBES No. Dia. Length
G-18	36-3"x 2' 5 7/8"
G-22	36-3"x 3' 5 7/8"
G-26	36-3"x 4' 3 3/8"
G-30	36-3"x 5' 3 3/8"
G-35	36-3"x 6' 4 1/8"
G-40	52-3"x 5' 0 7/8"
G-45	52-3"x 5' 10 1/8"
G-50	52-3"x 6' 7 3/8"
G-60	52-3"x 8' 2 7/8"

Kewanee Firebox Boiler Welded Single-Pass "P" Series Up-Draft

P-18	36-3"x 3' 3 "
P-22	36-3"x 4' 2 "
P-26	36-3"x 5' 0 "
P-30	36-3"x 6' 0 "
P-35	36-3"x 7' 1 "
P-40	52-3"x 5' 8 "
P-45	52-3"x 6' 6 "
P-50	52-3"x 7' 3 "
P-60	52-3"x 8' 10 "

Kewanee Boiler Scotch Marine Type Welded "M-8000" Series

Boiler	TUBES No. Dia. Length
M8173	23-3"x 6' 6 3/4"
M8174	23-3"x 7' 8 3/4"
M8175	37-3"x 6' 0 "
M8176	37-3"x 6' 11 3/4"
M8177	37-3"x 8' 0 3/8"
M8178	53-3"x 6' 6 1/2"
M8179	53-3"x 7' 3 1/4"
M8180	71-3"x 6' 8 1/4"
M8181	71-3"x 7' 9 3/4"
M8182	89-3"x 7' 8 1/4"
M8183	89-3"x 9' 0 3/8"
M8184	109-3"x 9' 4 "
M8185	109-3"x11' 3 "
M8186	128-3"x11' 2 3/4"
M8187	128-3"x12' 10 "
M8188	148-3"x14' 0 "
M8189	178-3"x14' 0 "
M8190	200-3"x13' 4 3/4"

Kewanee High Pressure Portable Riveted "Scottie Junior" Series

Boiler	TUBES No. Dia. Length
HM 9	28-3"x 3' 6 "
HM 15	28-3"x 5' 3 "
HM 20	28-3"x 7' 0 "
HM 25	36-3"x 6' 11 "
HM 30	36-3"x 8' 4 "

NOTE: WHEN ORDERING TUBES GIVE DATE OF BOILER OR SERIES NUMBER, AND CHECK ACTUAL LENGTHS ALSO NUMBER IN EACH TUBE NEST.

LENGTHS IN THESE TABLES INCLUDE 1 IN. FOR ROLLING AND BEADING.

Kewanee Boiler Corp. assumes no responsibility for tubes ordered too long or too short.

Tubes: Size, Length and Number
Kewanee Firebox Boilers (Simplified Practice)

Kewanee Residence Boiler
Welded Two-Pass Tubes
Round Type "R"

BOILER same for 2734-2736 same for 0734-0736	DIRECT TUBES No. Dia. Length	RETURN TUBES No. Dia. Length
-1733	4-3 "x13 1/2"	4-3 "x16 1/2"
734-1734, 1X	4-3 1/2 "x12 3/4"	4-3 1/2 "x2' 0"
735-1735, 4&5X	4-4 "x1'5"	4-4 "x2' 3"
6X	4-4 "x1'5"	4-4 "x2' 4 1/8"
736-1736, 4&5X	5-4 "x1'7"	5-4 "x2' 4 3/8"
6X	5-4 "x1'7"	5-4 "x2' 6 3/8"
..... 1737, 1X	5-4 "x2'9 1/2"	5-4 "x3' 9 1/8"

Square Type "R"

BOILER same for 2740-2748 same for 0740-0748	DIRECT TUBES No. Dia. Length	RETURN TUBES No. Dia. Length
740-1740	7-4 "x1'6 3/4"	7-4 "x2' 4 3/8"
741-1741	7-4 "x2'0 3/4"	7-4 "x2'10 3/8"
742-1742	7-4 "x2'6 3/4"	7-4 "x3' 4 3/8"
743-1743	7-4 "x3'0 3/4"	7-4 "x3'10 3/8"
745-1745	10-4 "x3'0 3/4"	10-4 "x3'10 3/8"
746-1746	10-4 "x3'6 3/4"	10-4 "x4' 4 3/8"
747-1747	10-4 "x4'0 3/4"	10-4 "x4'10 3/8"
748-1748	10-4 "x4'6 3/4"	10-4 "x5' 4 3/8"

Square 83 "R"

83R1	16-2 1/2 "x1'6 3/4"	15-2 1/2 "x2' 4 3/8"
83R2	16-2 1/2 "x2'0 3/4"	15-2 1/2 "x2'10 3/8"
83R3	16-2 1/2 "x2'6 3/4"	15-2 1/2 "x3' 4 3/8"
83R4	16-2 1/2 "x3'0 3/4"	15-2 1/2 "x3'10 3/8"
83R6	21-2 1/2 "x3'0 3/4"	20-2 1/2 "x3'10 3/8"
83R7	21-2 1/2 "x3'6 3/4"	20-2 1/2 "x4' 4 3/8"
83R8	21-2 1/2 "x4'0 3/4"	20-2 1/2 "x4'10 3/8"
83R9	21-2 1/2 "x4'6 3/4"	20-2 1/2 "x5' 4 3/8"

Kewanee Type "C" Boiler
Welded Two-Pass Tubes
Smokeless and Direct Draft

BOILER same for 2773-2790 same for 0773-0790 same for 27L73-27L90	DIRECT TUBES No. Dia. Length	RETURN TUBES No. Dia. Length
1773-1773	21-3 "x 2' 5 3/8"	24-3 "x 4' 2 1/4"
774-1774-1774	21-3 "x 2'11 3/8"	24-3 "x 4' 8 3/4"
775-1775-1775	21-3 "x 3' 5 3/8"	24-3 "x 5' 2 3/4"
776-1776-1776	21-3 "x 4' 4 1/4"	24-3 "x 6' 1 1/2"
777-1777-1777	27-3 "x 4' 2 1/4"	30-3 "x 5'11 1/2"
778-1778-1778	27-3 "x 4'10 1/4"	30-3 "x 6' 7 1/2"
779-1779-1779	27-3 "x 5' 5 3/4"	30-3 "x 7' 3"
780-1780-1780	35-3 "x 5' 6 1/4"	34-3 "x 7' 3 1/2"
781-1781-1781	35-3 "x 6' 8 3/8"	34-3 "x 8' 5 3/8"
782-1782-1782	48-3 "x 5' 9 7/8"	48-3 "x 7' 9"
783-1783-1783	48-3 "x 7' 1"	48-3 "x 9' 0 1/4"
784-1784-1784	62-3 "x 7' 3 3/4"	56-3 "x 9' 3 3/8"
785-1785-1785	70-3 "x 7'10 7/8"	62-3 "x10' 0 3/8"
5-1786-1786	82-3 "x 7' 2 3/4"	86-3 "x 9' 4 1/2"
7-1787-1787	82-3 "x 8' 5 3/8"	86-3 "x10' 7 1/2"
788-1788-1788	94-3 "x 9' 8 3/4"	92-3 "x12' 0 1/2"
789-1789-1789	124-3 "x 9' 1 1/4"	118-3 "x11' 5 1/4"
790-1790-1790	124-3 "x10'10 1/4"	118-3 "x13' 2 1/4"

Kewanee Firebox Boiler
Weld + Rivet Double-Pass
"5000" Series Up-Draft

BOILER Coal - Oil	DIRECT TUBES No. Dia. Length	RETURN TUBES No. Dia. Length
5076-5176	30-3 "x1'11"	30-3 "x 6' 4"
5077-5177	30-3 "x2' 8"	30-3 "x 7' 1"
5078-5178	30-3 "x3' 1"	30-3 "x 8' 0"
5079-5179	30-3 "x3' 6"	30-3 "x 8'11"
5080-5180	40-3 "x3' 8 3/4"	36-3 "x 8' 8"
5081-5181, 1X 2X & Up	49-3 "x3' 1 3/4"	48-3 "x 8' 1"
	40-3 "x4' 7"	36-3 "x10' 0 1/4"
5082-5182	49-3 "x3' 8 3/4"	48-3 "x10' 0"
5083-5183	49-3 "x4' 6 3/4"	48-3 "x11' 8"
5084-5184	60-3 "x4' 9 3/4"	60-3 "x11'11 1/2"
5085-5185	60-3 "x6' 6 1/4"	60-3 "x14' 0"
5086-5186	78-3 "x5' 6 3/4"	78-3 "x13' 0 1/2"
5087-5187	78-3 "x6' 9 3/4"	78-3 "x14' 7 1/2"
5088-5188	97-3 "x6' 3 3/8"	98-3 "x15' 1 1/2"
5089-5199	116-3 "x7' 0 3/8"	108-3 "x15'10 1/2"
5090-5190	116-3 "x8' 9 3/8"	108-3 "x18' 1 1/2"

"6000" Series Down-Draft

6077-6177	30-3 "x1' 9 5/8"	30-3 "x 7' 2 3/4"
6078-6178	30-3 "x2' 3 3/8"	30-3 "x 7' 8 3/4"
6079-6179	30-3 "x2' 9 7/8"	30-3 "x 8' 7"
6080-6180	40-3 "x2'10 3/4"	36-3 "x 8' 6"
6081-6181	40-3 "x3' 7 3/8"	36-3 "x 9'11"
6082-6182	49-3 "x3' 4 1/4"	48-3 "x 9' 7 1/2"
6083-6183	49-3 "x4' 2 1/4"	48-3 "x11' 3 1/2"
6084-6184	60-3 "x4' 4 3/4"	60-3 "x11' 8 1/2"
6085-6185	60-3 "x6' 0 3/4"	60-3 "x13' 6 1/2"
6086-6186	78-3 "x5' 1 3/4"	78-3 "x12' 7 1/2"
6087-6187	78-3 "x6' 4 3/4"	78-3 "x14' 2 1/2"
6088-6188	97-3 "x5'11 3/8"	98-3 "x14' 9 1/2"
6089-6189	116-3 "x6' 8 1/8"	108-3 "x15' 6"
6090-6190	116-3 "x8' 5 1/8"	108-3 "x17' 9"

NOTE: WHEN ORDERING TUBES GIVE DATE OF BOILER OR SERIES NUMBER, AND CHECK ACTUAL LENGTHS ALSO NUMBER IN EACH TUBE NEST.

LENGTHS IN THESE TABLES INCLUDE 1 IN. FOR ROLLING AND BEADING. . . EXCEPT ON RO-R-SQ-R-83R BOILERS LENGTHS INCLUDE 3/4"-1".

Kewanee Boiler Corp. assumes no responsibility for tubes ordered too long or too short.

BOILER STAMPINGS

Each Kewanee Low Pressure Boiler has identifying marks stamped in the shell plate. These stampings should be uncovered and visible.

00000 lb (weight in pounds)

00000 (stock order number)

LM-000 (boiler size number)



KEWANEE (ASME clover leaf symbol)

MAX. WP
STEAM 15 lb (maximum working pressure)
WATER 30 lb

VC 0000 lb (valve capacity)



00000 (Insurance Company mark & number)

1954 (year in which boiler was built)



HEAT TRANSFER PRODUCTS DEPARTMENT

SALES OFFICES IN ALL PRINCIPAL CITIES

Executive Offices: Detroit, Michigan 48232

In Canada: 1401 Dupont St., Toronto 172, Ontario

International Export Division: 40 West 40th St., New York, N. Y. 10018