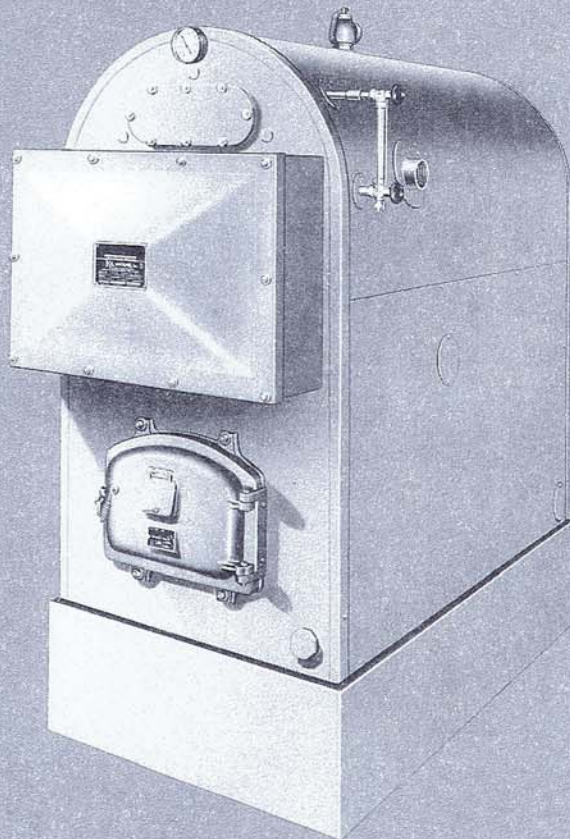


KEWANEE®

Type 'R' Boiler



- ASME Code Constructed Boiler for 15 psi Steam or 30 psi Water Working Pressure.
- Three Pass Design extracts maximum heat from the gases, assures high operating efficiency while maintaining low stack temperature.
- Large firebox with self-cleaning, arched, upright crown sheet allows thorough mixing of fuel and air, giving complete combustion before the hot gases enter the firetubes.
- All heating surfaces are accessible, reducing inspection and maintenance costs. No refractory baffles to burn out causing short circuiting of gases, nor expensive replacement costs. 3" boiler tubes are roller expanded.
- Twelve sizes range in gross outputs from 324,000 to 1,800,000 Btuh or 9 to 54 hp.
- Boilers furnished with standard trim, safety valve(s), compound steam and vacuum gauge and water gauge and glass. Standard water trim consist of, relief valve(s) and combination altitude gauge and thermometer.

VERSATILITY . . . ability to burn any Fuel . . . ability to deliver efficiently far beyond rated capacity . . . makes this boiler ideal for any medium size building. Kewanee Type "R" Boilers are giving economical, trouble-free service in thousands of office and store buildings, schools, motels, hospitals, small factories, etc.

It operates at top efficiency when oil, gas or stoker fired. Change from one fuel to another or back again, quickly and inexpensively.

Teamed with radiant baseboards, wall, floor or ceiling coils or panels, convectors or conventional radiators, Kewanee Type "R" Boilers provide a sturdy steel heart for the system. It can be pushed far beyond rated capacity yet operate at full efficiency.

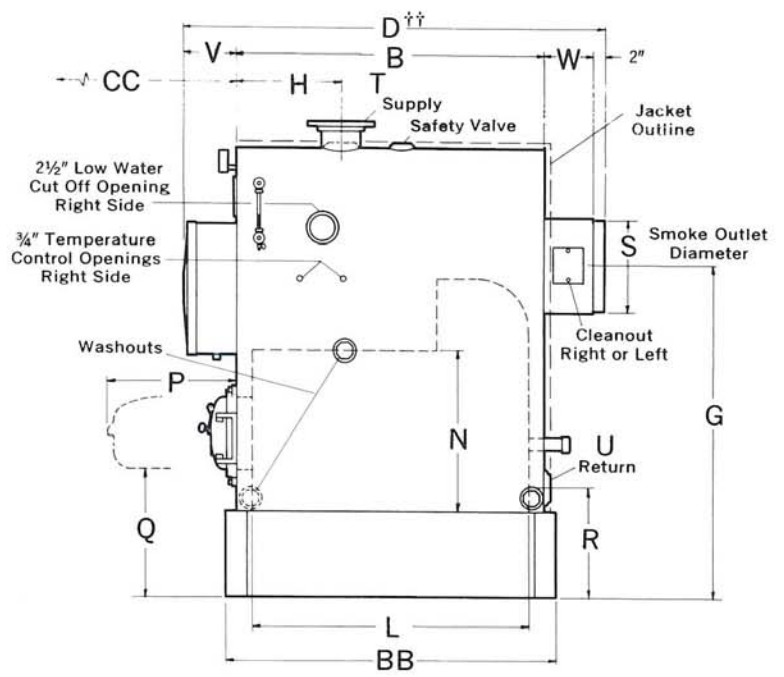
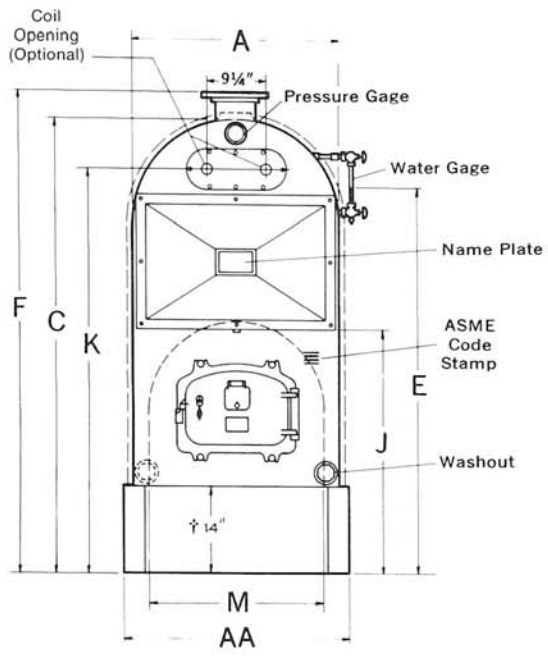
The result of over a century of experience, this boiler offers the medium size buildings all the heating dependability and economy for which Kewanee Boilers have always been famous.

A.S.M.E. Code requirements have been followed to the last detail. But more than that, Kewanee guarantees performance well beyond any code requirements.

Ratings and Data												
BOILER NUMBER	3R1	3R2	3R3	3R4	3R5	3R6	3R7	3R8	3R9	3R10	3R11	3R12
gross output MBh	324	396	468	540	648	792	936	1080	1260	1440	1620	1800
—horsepower	9	11	14	16	19	23	28	32	37	43	48	54
—steam per hour, 212° lbs.	334	408	482	557	668	816	965	1113	1299	1484	1670	1855
steam—sq. ft.	1350	1650	1950	2250	2700	3300	3900	4500	5250	6000	6750	7500
Net Rating—Steam	1010	1240	1460	1690	2020	2480	2930	3380	3940	4500	5060	5620
*Firing Rate—Oil Gph	2.9	3.5	4.2	4.8	5.8	7.1	8.4	9.6	11.2	12.9	14.5	16.1
—Gas MBtuh	405	495	585	675	810	990	1170	1350	1575	1800	2025	2250
—Stoker Lb. per hr.	36	44	52	60	72	88	104	120	140	160	180	200
Heating Surface												
—Primary Sq. Ft.	20.5	22.8	25.2	27.5	33.0	36.6	40.4	44.5	49.5	54.1	58.4	62.6
—Total Sq. Ft.	53	65	77	88	106	129	153	177	206	236	265	294
Furnace Volume Cu. Ft.	8.2	10.0	11.8	13.6	16.4	20.0	23.6	27.3	31.8	36.3	40.9	45.4
Firebox Volume above Mudring Cu. Ft.	8.8	10.4	12.0	13.5	17.2	20.1	23.0	26.3	32.6	37.0	41.1	45.3
Safety Valve Capacity Lb. Steam per hr.	424	520	616	704	848	1032	1224	1416	1648	1888	2120	2352

*Firing rates based on 140,000 Btu Oil; 12,000 Btu Coal.

KEWANEE
TYPE "R" BOILER



BOILER NUMBER	3R1	3R2	3R3	3R4	3R5	3R6	3R7	3R8	3R9	3R10	3R11	3R12
A — Boiler Width Overall	30½	30½	30½	30½	35	35	35	35	41½	41½	41½	41½
B — Boiler Length	30½	36½	42½	48½	42½	50½	58	67	56½	64½	72	79½
C — Boiler Height	65½	65½	65½	65½	73	73	73	73	82	82	82	82
D — Boiler Length Overall	48½	54½	60½	66½	61½	69½	77	86	77½	85½	93	100½
E — Water Line Height	55½	55½	55½	55½	62½	62½	62½	62½	70½	70½	70½	70½
F — Steam or Water Supply Height	66½	66½	66½	66½	73½	73½	73½	73½	86	86	86	86
G — Smoke Outlet Height	46½	46½	46½	46½	51½	51½	51½	51½	58	58	58	58
H — Steam or Water Supply	10	12	14	16	14	17	19	22	16	18	20	24
J — Floor to bottom of smokebox	34½	34½	34½	34½	39	39	39	39	44½	44½	44½	44½
K — Coil Connection Height (Optional)	57½	57½	57½	57½	64½	64½	64½	64½	72½	72½	72½	72½
L — Firebox—Length	25½	31½	37½	43½	37½	45	53	62	51	59	66½	74
M — —Width	24	24	24	24	28	28	28	28	35	35	35	35
N — —Height	21½	21½	21½	21½	26	26	26	26	31	31	31	31
P — Opened Firedoor to Boiler	21½	21½	21½	21½	21½	21½	21½	21½	21½	21½	21½	21½
Q — Floor to bottom of Firedoor	19½	19½	19½	19½	21	21	21	21	21½	21½	21½	21½
R — Return Height	17½	17½	17½	17½	18	18	18	18	18	18	18	18
S — Smoke Outlet Diameter	12	12	12	12	15	15	15	15	18	18	18	18
T — Steam Supply Size	4	4	4	4	4	4	4	4	6**	6**	6**	6**
U — Return Size	3	3	3	3	4	4	4	4	4	4	4	4
V — Front Smokebox Depth	8	8	8	8	9	9	9	9	10	10	10	10
W — Rear Smokebox Depth	8	8	8	8	8	8	8	8	9	9	9	9
—Standard Rear Outlet	12½	12½	12½	12½	14½	14½	14½	14½	16½	16½	16½	16½
—Oval Top Outlet	8	8	8	8	8	8	8	8	9	9	9	9
AA—Base—Width	32½	32½	32½	32½	36½	36½	36½	36½	44	44	44	44
BB— —Length	34½	40½	46½	52½	46½	54½	62	71	60	68	75½	83
CC—Tube Replacement Space	31½	37½	43½	49½	43½	51½	59	68	57½	65½	73	80½
Chimney—Diameter	10	11	12	12	13	14	15	16	16	17	18	18
—Height	30	35	35	40	35	40	40	45	35	40	45	50
Outside Surface to Cover	Sq. Ft. 38	43	48	53	58	65	73	82	82	90	99	107
Approximate Weight, Unjacketed	Lb. 1500	1650	1800	1950	2250	2475	2725	3000	3375	3650	3850	4200

**150 Lb. ANSI Flange. Eight ¾ in. bolts, 9½ in. bolt circle.
 †Other base heights change vertical dimensions C, E, F, G, J, K, Q and R.
 ††Add for increased length if top smoke outlet used. See dimension "W".