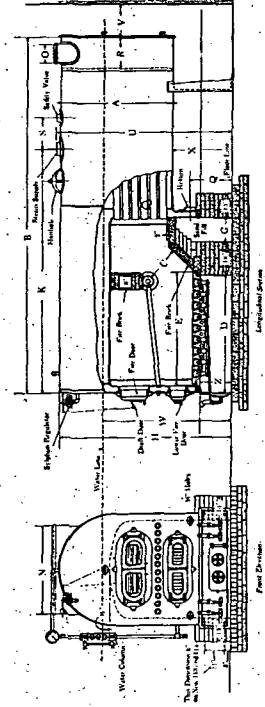
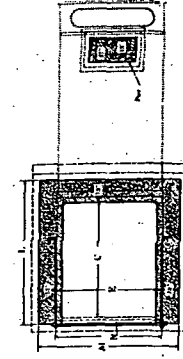
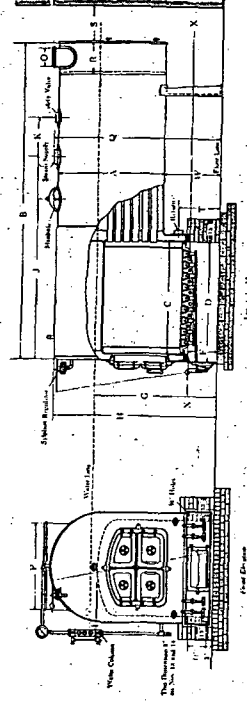
KEWANEE PORTABLE SMOKELESS BOILERS
TYPE K

Number of Boiler	104K	105K	106K	107K	108K	109K	110K	111K	112K	113K	114K	115K	116K	117K	118K	119K	120K
Capacity Steam	1500	1900	2200	2500	2900	3400	3800	4400	5200	6200	7100	8100	9200	10900	12900	13900	15200
Heating Surface	157	185	220	234	271	308	338	381	435	500	590	677	785	925	1075	1175	1290
Area of Upper Grate	5.9	7.2	8.4	9.3	10.1	11.4	11.8	13.2	15.0	17.1	19.1	21.7	25.3	29.5	34.5	39.5	43.5
Diameter of Boiler	36	36	36	36	42	42	42	48	48	54	54	60	60	66	72	72	72
Length of Boiler Over-all	18	18	18	18	20	20	20	22	22	24	24	28	32	34	34	34	36
Diameter of Stack	18	18	18	18	20	20	20	22	22	24	24	28	32	34	34	34	36
Height of Stack	40	40	40	40	45	45	45	50	50	55	55	65	75	80	80	80	86
Height of Stack, Two Boilers	24	24	24	24	26	26	26	30	30	32	32	38	44	46	46	46	48
Height of Stack, Two Boilers	50	50	50	50	55	55	55	65	65	70	70	80	90	95	95	95	100
Size of Steam Opening	5	5	5	5	6	6	6	6	6	8	8	8	8	8	8	8	8
Size of Return	1 1/2	1 1/2	1 1/2	1 1/2	2	2	2	2 1/2	2 1/2	3	3	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2	3 1/2
Size of Safety Valve	3	3	3	3	4	4	4	4	4	5	5	5	5	5	5	5	5
Size of Grate	32	32	32	32	36	36	36	40	40	44	44	48	52	56	60	64	68
Size of Ash-pit	31	31	31	31	33	33	33	36	36	40	40	44	48	52	56	60	64
Size of Center Bolts in Ash-pit Front	65	65	65	65	71	71	71	77	77	83	83	93	103	105	105	105	110
Size of Bridge Wall to Rear Wall	31	31	31	31	33	33	33	36	36	40	40	44	48	52	56	60	64
Size of Height of Ash-pit	65	65	65	65	71	71	71	77	77	83	83	93	103	105	105	105	110
Size of Location of Steam Supply	31	31	31	31	33	33	33	36	36	40	40	44	48	52	56	60	64
Size of Length of Foundation	51	51	51	51	55	55	55	59	59	63	63	71	81	83	83	83	88
Size of Length of Breaching Connection	24	24	24	24	26	26	26	30	30	32	32	38	44	46	46	46	48
Size of Height of Breaching Connection	19	19	19	19	19	19	19	19	19	20	20	22	24	24	24	24	26
Size of Depth of Smoke Box	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Size of Location of Safety Valve	15	15	15	15	16	16	16	16	16	16	16	16	16	16	16	16	16
Size of Height of Steam Supply	67	67	67	67	73	73	73	79	79	85	85	95	105	107	107	107	112
Size of Minimum Space Required at Rear	21	21	21	21	24	24	24	26	26	29	29	33	37	39	39	39	42
Size of Height of Water-line	55	55	55	55	59	59	59	63	63	67	67	75	85	87	87	87	92
Size of Floor Line to Bottom of Cylinder	29	29	29	29	31	31	31	33	33	37	37	41	45	47	47	47	50
Size of Height of Ash-pit	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Size of Height of Front to Draw Tubes	39	39	39	39	41	41	41	43	43	47	47	51	55	57	57	57	60
Size of Height of Rear to Draw Tubes	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Size of Number of Fire Brick	85	85	85	85	115	115	115	155	155	195	210	243	278	311	350	384	407
Size of Outside Surface to be Covered	93	102	115	131	148	164	180	199	218	243	278	311	350	384	407	425	447

*Foundations not included.

†If space is available at front, it is not necessary at rear, and vice-versa.

Boilers No. 104K to 112K are furnished with cast iron bases.

KEWANEE PORTABLE SMOKELESS BOILERS
TYPE K-UP-DRAFT

Number of Boiler	0K	1K	2K	3K	4K	5K	6K	8K	9K	10K	11K	12K	13K	14K	15K	16K	17K	18K	19K	20K
Capacity Steam	600	850	1000	1150	1300	1600	1900	2450	2850	3300	3800	4300	5200	6200	7100	8200	9500	10400	11400	13300
Heating Surface	61	83	93	104	119	144	164	190	221	255	298	335	400	475	550	635	745	805	895	1129
Area of Upper Grate	3.5	4.4	5.4	6.4	7.4	8.4	9.3	11.1	12.6	14.2	15.8	17.5	20.5	23.5	27.0	30.5	35.5	38.5	42.5	52.5
Diameter of Boiler	24	30	30	30	30	36	36	42	42	48	48	54	60	60	66	72	78	84	90	108
Length of Boiler Over-all	7-9	7-10	8-10	9-10	10-10	10-10	11-10	11-10	12-10	12-10	13-10	14-10	15-10	16-10	17-10	18-10	19-10	20-10	21-10	24-10
Diameter of Stack	12	12	12	12	12	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Height of Stack	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
Height of Stack, Two Boilers	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Height of Stack, Two Boilers	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
Size of Steam Opening	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
Size of Return	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Size of Safety Valve	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Size of Grate	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
Size of Ash-pit	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
Size of Height of Ash-pit	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
Size of Height of Water-line	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Size of Height of Boiler	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Size of Location of Steam Supply	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
Size of Location of Safety Valve	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Size of Length of Foundation	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Size of Width of Foundation	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Size of Center Bolts in Ash-pit Front	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Size of Length of Breaching Connection	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Size of Width of Breaching Connection	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Size of Depth of Smoke Box	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Size of Height of Steam Supply	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Size of Floor Line to Bottom of Cylinder	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Size of Height of Front to Draw Tubes	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
Size of Height of Rear to Draw Tubes	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Size of Number of Common Brick	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
Size of Outside Surface to be Covered	55	68	77	85	91	106	120	133	149	157	177	197	209	225	251	275	311	345	384	425

*Foundations not included.

†If space is available at front, it is not necessary at rear, and vice-versa.

Boilers No. 0K to No. 12K are furnished with cast iron base.