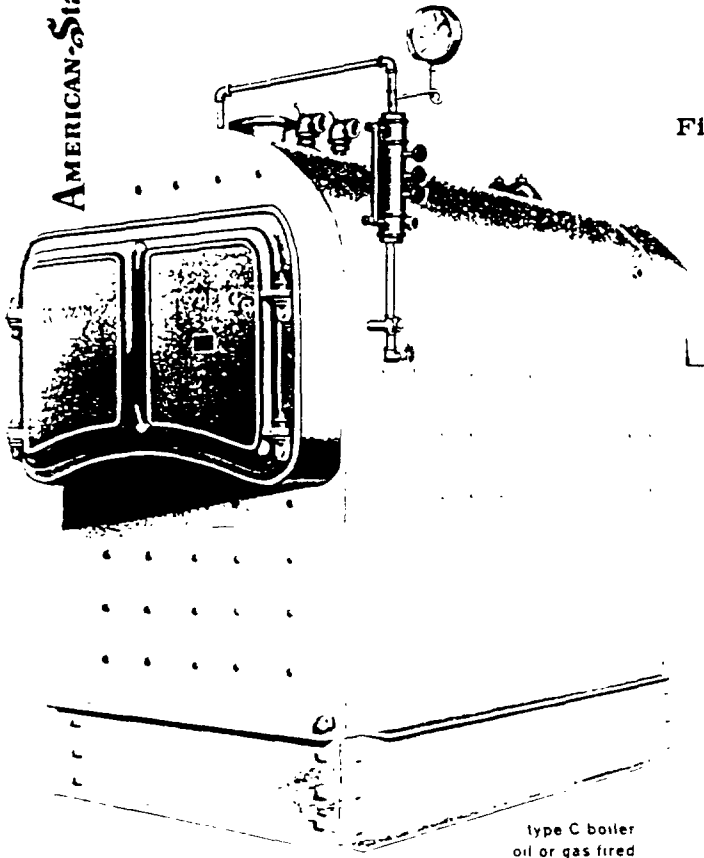


KEWANEE BOILERS

type **C** 7L series

AMERICAN-Standard

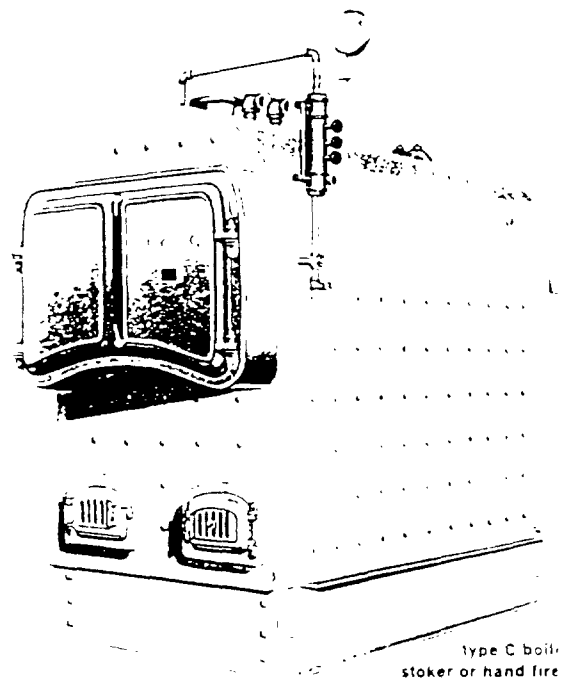


First choice of experienced engineers

The Type "C" Boilers are America's most popular for heating medium and large size buildings. Engineers continue to specify the Kewanee Type "C" because they are known for their dependability and efficient service. These compact boilers provide heat for many years with minimum amount of service or attention. Adaptable for front or rear firing, the versatile Type "C" fits most any boiler room. Ample proportions assure top efficiency whether oil, gas, stoker or hand fired.

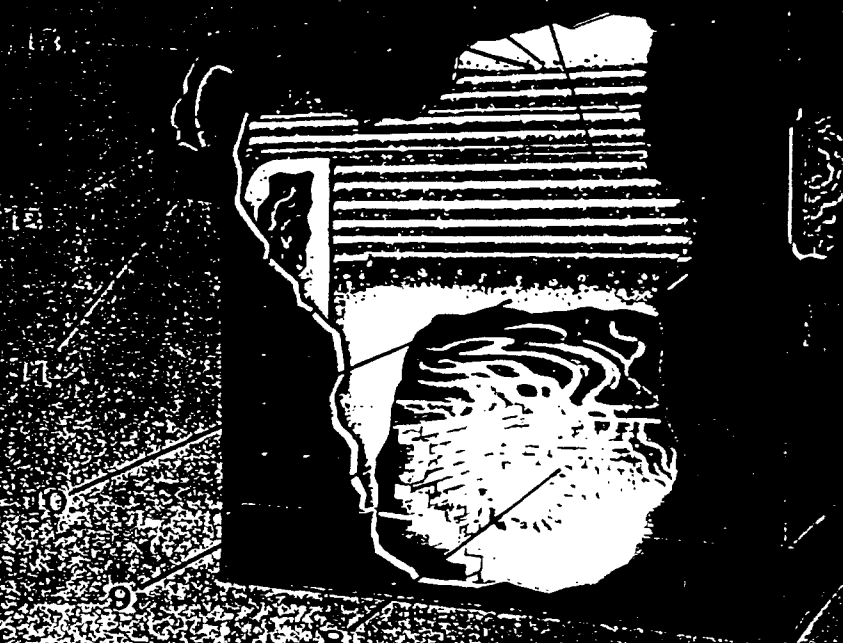
VERSATILE

Kewanee Type "C" Boilers are constructed in accordance with the ASME Low Pressure Boiler Code. Sixteen sizes range in capacity from 1,392,000 to 15,430,000 Btuh SBI Rating and are designed to develop 141.5% of this rating.

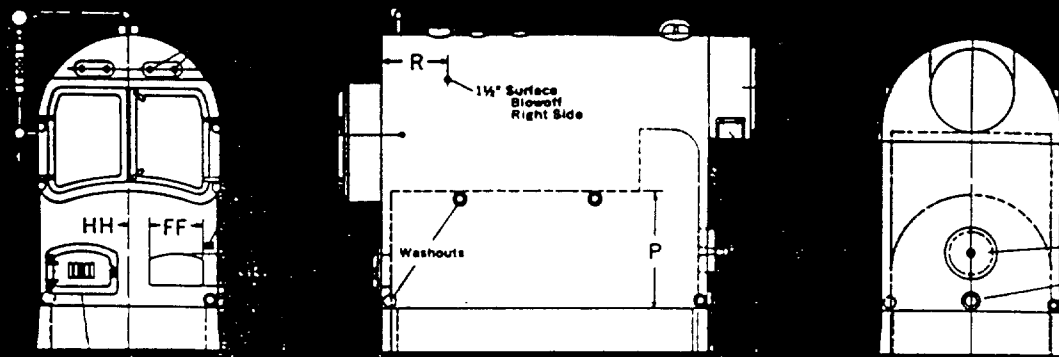


24732

KEWANEE



1. 150 pound American Standard flange—accepts flanged piping and fittings.
2. Kewanee water column—hand operated gage and air cocks. Chain operated on 7 1/2-186 and larger.
3. Firetubes—rolled and beaded for tight, permanent fit. No welded tube ends.
4. Cast iron flue doors—insulated; provide ready access to all fire tubes.
5. Flanged base panels—1/4 inch holes provided for setting insulation.
6. Steel base—substantially built with supporting corner posts.
7. Washout plugs—Hollow brass with rubber gaskets.
8. Large turnace volume—Extremely low heat rate assures quiet and complete combustion.
9. Wide water cut—provides easy water stop—permits safe and efficient cleaning.
10. Hand operated gage—allows inspection of water level—allows filling and draining of water column.
11. Chain operated gage—allows inspection of water level—allows filling and draining of water column.
12. Flue doors—cast iron, insulated; provide ready access to all fire tubes.
13. Flue doors—cast iron, insulated; provide ready access to all fire tubes.
14. Flue doors—cast iron, insulated; provide ready access to all fire tubes.
15. Flue doors—cast iron, insulated; provide ready access to all fire tubes.
16. Flue doors—cast iron, insulated; provide ready access to all fire tubes.
17. Flue doors—cast iron, insulated; provide ready access to all fire tubes.
18. Flue doors—cast iron, insulated; provide ready access to all fire tubes.



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
—Water	Sq Ft	9280	10300	12350	14400	17500	20590	25710	30880	36000	41150	51440	61710	72000	82290	92560
—MBtuh	Lb	1392	1548	1853	2160	2526	3089	3857	4632	5400	6171	7716	9257	10800	12340	13880
—Steam per hour—212° F		1430	1590	1900	2220	2700	3170	3960	4760	5540	6340	7920	9510	11090	12670	14260
SBI Net Rating—Steam	Sq Ft	5070	5640	6760	7880	9580	11260	14060	16880	19690	22510	28130	33750	39370	45000	50620
—Water	Sq Ft	8110	9020	10870	12610	15330	18020	22500	27010	31500	36020	45010	54000	62990	72000	80990
—MBtuh	Lb	1217	1353	1622	1890	2298	2703	3376	4052	4725	5402	6751	8100	9450	10800	12150
Firing Rate—Oil	Gph	16	18	22	25	31	37	46	54	64	73	91	110	127	146	164
—Gas	MBtuh	2460	2740	3280	3830	4650	5460	6840	8200	9560	10920	13670	16400	19120	21900	24600
—Stoker	Lb per hr.	218	244	291	340	412	485	607	729	850	972	1215	1457	1700	1943	2186
Heating Surface (SBI min)	Sq Ft	322	358	429	500	608	715	893	1072	1250	1429	1786	2143	2500	2857	3214
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
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
Firebox Vol. Above Bot. of Water Leg	Cu Ft	49.6	54.5	66.3	76.1	89.7	103.5	127.8	151.5	175.1	215.3	254.6	301.0	345.0	388.0	431.0
Safety Valve Capacity	Lb steam per hr.	1969	2188	2625	3060	3718	4374	5464	6559	7650	8745	10929	13114	15300	17485	19671

Firing Rates calculated to develop boiler output of 141 5/8% 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 1/4	92 1/2	107 1/2	112	129 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	145 1/2	161 1/2	161 1/2	172	178	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	193 1/2	210 1/2	213
E —Water Line Height	13 1/2	13 1/2	17	17	18 1/2	18 1/2	19	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	21 1/2	21 1/2	25	25	28 1/2	28 1/2	29	38	40 1/2	40 1/2	43 1/2	53 1/2	53 1/2	58 1/2	63 1/2	67 1/2
G —Steam Supply Height	92	92	96 1/2	96 1/2	108	108	118 1/2	123 1/2	133	133	141 1/2	157	157	178	183 1/2	195
H —Smoke Outlet Height	112	112	116 1/2	116 1/2	128	128	138 1/2	143 1/2	153	153	161 1/2	177	177	198	203 1/2	215 1/2
J —Coil Connection Height	126 1/2	126 1/2	130	130	142	142	152 1/2	157 1/2	167	167	175 1/2	191	191	212 1/2	217 1/2	229 1/2
K —Steam Supply	5	5	6	6	7	7	8	8	8	8	8	10	10	11	11	12
L —Safety Valve	12	12	14	14	16	16	17	17	17	17	17	20	20	22	22	24
M —Firebox Length	13 1/2	13 1/2	14	14	16	16	17	17	17	17	17	20	20	22	22	24
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	84 1/2	84 1/2	91 1/2
P —Firebox Height	32	32	34	34	37 1/2	37 1/2	40 1/2	43	45	45	48	56	56	62	62	67 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	34 1/2	34 1/2	39 1/2	39 1/2	44 1/2
R —Surface Blowoff	12	12	12	12	12	12	14	14	14	14	14	16	16	18	18	20
S —Return Height	18	18	18	18	18	18	21	21	21	21	21	23	23	27	27	27
T —Smoke Outlet Diameter	22	22	24	24	28	28	30	31	35	35	39	41	41	46	46	50
U —Steam Supply Size	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6
V —Return Size	4	4	4	4	4	4	4	4	4	4	4	6	6	6	6	6
W —Smokebox Depth—Front	10	10	11	11	12	12	12	12	14	14	14	16	16	18	18	20
X —Rear	14	14	15	15	16	16	16	16	18	18	18	20	20	22	22	24
AA —Base—width	48	48	54	54	60	60	66 1/2	72	78	78	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	133	133	149	158 1/2	157 1/2	174	174	190 1/2
CC —Height	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
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	96	110 1/2	126 1/2	115	136	130 1/2	147 1/2	150
FF —Firedoor opening in boiler 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 dir. to firedoor opening	8 1/2	8 1/2	8	8	8	8	8	8	8	8	8	10	10	11	11	11
JJ —Height Doors from Bot. of Boiler	8 1/2	8 1/2	8	8	8	8	8	8	8	8	8	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	84 1/2	84 1/2	91 1/2
LL —Length	67	75 1/2	73	86 1/2	78 1/2	93 1/2	97	104 1/2	96	110 1/2	126 1/2	115	136	130 1/2	147 1/2	150
Bleaching Dia. One Boiler	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Stack Diameter	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
—Height	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Bleaching Dia. Two Boilers	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Stack Diameter	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
—Height	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
Outside Surface to Cover Approx. Weight	Sq Ft	5400	5800	6700	7600	8800	10000	11800	13600	15300	17000	20100	22700	26100	33400	42000

1150 Lb. American Standard Flange

Includes Front Head and Smokebox

One or more valves furnished depending on required capacity

equipment available on

Kewanee type C boilers

standard

optional

all 7L-100 boilers	Steel Bases 14" 7L-178-7L183 17" 7L184-7L188 21" 7L-189-7L193 Rear smoke outlet with clean out openings Rear 16" diameter access opening Rear Pyrex observation port Front flue doors with insulation Flue cleaner and handle Washout plug wrench Washout plugs Manhole on 7L-182 and larger	Extra base height (top) (right hand side) (left hand side) smoke outlet Structural steel supports Bearing plate brackets Insulation angles Wing induced draft fan Explosion relief door Plain steel damper for smokebox Bearing or quadrant damper Additional height firebox Sleeves through water leg Special openings in boiler Water heating coils Opening for coil other than Kewanee Kewanee boiler conditioning compound
stoker boilers	Fire door assembly	
hand fired boilers	Fire door assembly Ash pit door assembly Shaking grates Hoe, poker, and slice bar Damper regulator (Steam boiler only)	
steam boilers	Safety valve(s) Steam gage with siphon and cock Kewanee water column with hand operated water gage and try cock assembly (chain operated on 7L-186 and larger)	Hi and lo water alarm column Chain operated water gage Chain operated try cock Inclined water gage glass
water boilers	Relief valves	Higher than 30 lbs. water working pressure

typical type C 7L series boiler specifications

The contractor shall furnish and install No. 7L Kewanee Type C Boiler(s) for (oil) (gas) (stoker) (hand fired) firing. Boiler(s) shall contain not less than sq. feet of heating surface and have an SBI steam rating of sq. feet.

Boiler shall be designed to develop 141.5% of the SBI rating indicated above and shall have minimum of cu. ft. of firebox volume above the bottom of the water leg. Boiler shall have arched crown sheet, shall be of three pass firebox design, and constructed in accordance with the A.S.M.E. code for (15 lb. steam) (30 lb. water). Boiler shall be inspected during construction by an authorized inspector and after completion shall be subjected to a 60 lb. hydrostatic test and stamped with all identifying markings and symbols as required by the latest edition of the A.S.M.E. code.

Boiler to be furnished with in high steel base cast iron front flue

doors of size permitting easy access to all tubes and lined with refractory securely keyed in place

Rear smoke box shall have cleanout openings on both sides with smoke outlet at (rear) (top) (r.h. side) (l.h. side) of smokebox. Round access opening and observation port in rear water leg.

Boiler trimmings shall consist of the following

For Steam: Safety valve(s), steam gage with siphon and cock, Kewanee water column with hand operated water gage and try cock assembly—chain operated on 7L-186 and larger.

For Water: Relief valve, or relief valves and safety valves as required by A.S.M.E. code for low pressure boilers.

NOTE: When a high setting and independent supporting structure is desired, use either of the following options:

Structural Steel Supports: Boiler(s) to be furnished less steel base(s) but with structural steel supports for setting boiler(s) independently of masonry base(s). Distance from boiler room floor to bottom of water leg to be

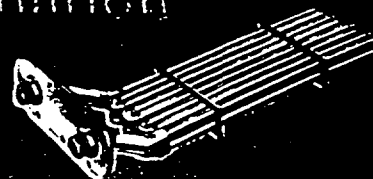
Structural supports to consist of four H columns with base plates, one pair each side of boiler and eight pairs of hot-formed steel brackets securely fastened to the boiler to provide lateral stability according to A.S.M.E. code

construction. Each H column shall be securely bolted to two pairs of boiler brackets.

Bearing Plate Brackets: Boiler(s) to be furnished less steel bases but with bearing plate brackets for supporting boiler on masonry base(s). Bearing brackets to consist of two pairs of steel bearing plates, each with necessary gussets, welded to the boiler at the bottom of water leg. Each gusset to have a 3/4 in. hole for wiring insulation to the boiler



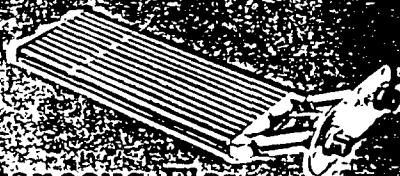
Coil selection information



Indirect Heating Type - Storage Tank Operation

FAMILIES OR BATHS	2	3	4	6	8	10	12	14	16	18	22	24	28	32	36	40	44
Gallons 40° to 140°F BW 180°F	60	90	120	180	240	300	360	420	480	560	640	720	840	960	1080	1200	1320
in 50° to 140°F BW 212°F	100	150	200	300	400	500	600	700	800	933	1067	1200	1400	1600	1800	2000	2200
3 Hours 40° to 180°F BW 210°F	81	121	161	241	321	401	481	561	641	741	841	941	1081	1221	1361	1501	1641
Coil Number—Std.	KT-50	KT-90	KT-120	KT-180	KT-240	KT-300	KT-360	KT-420	KT-480	KT-560	KT-640	KT-720	KT-840	KT-960	KT-1080	KT-1200	KT-1320
"C" Coil 7L-184 only													720 C	840 C	960 C	1080 C	1200 C
Inlet & Outlet Diameter—Inches	1	1	1 1/2	1 1/2	2	2	2	2	2	2	2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2	2 1/2
Overall Length—Inches—Std.	20	30	24	30	29	32	38	41	44	50	58	65	71	77	83	89	95
Overall Length—Inches—"C" Coil												54	60	66	72	78	84
7L-178—7L-183	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-184	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-185—7L-187	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-188—7L-190	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
7L-191—7L-192	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-193	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

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Indirect Heating Type - Instantaneous Flow

RESIDENTIAL RATINGS—Based on intermittent draw of hot water with short peak demands

FAMILIES OR BATHS	2	3	4	6	15	25	35	45	52	65	78	92	105	120	130	140	150	160	170	180	190
Gallons Per Hour 40° to 140°F BW 180°F	100	150	200	300	400	600	720	850	970	1080	1240	1400	1560	1720	1800	1900	2100	2220	2340	2450	2550

COMMERCIAL RATINGS—Based on continuous draw of hot water with long peak demands

Gallons 40° to 140°F BW 180°F	51	75	100	150	200	300	400	500	600	700	800	900	1050	1200	1350	1500	1650	1800	1950	2100	2250
Per 50° to 140°F BW 212°F	51	75	100	150	200	300	400	500	600	700	800	900	1050	1200	1350	1500	1650	1800	1950	2100	2250
Hour 40° to 180°F BW 210°F	12	18	24	36	48	72	96	120	144	168	192	216	240	270	300	330	360	390	420	450	480
Coil No.—Std.	KT-50	KT-90	KT-120	KT-180	KT-240	KT-300	KT-360	KT-420	KT-480	KT-560	KT-640	KT-720	KT-840	KT-960	KT-1080	KT-1200	KT-1320	KT-1440	KT-1560	KT-1680	KT-1800
"C" Coil 7L-184 Only																					
Inlet & Outlet Dia.—Inches	1	1	1 1/2	1 1/2	2	2	2	2	2	2	2	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
Overall Length—Inches—Std.	20	30	24	30	29	32	38	41	44	50	58	65	71	77	83	89	95	101	107	113	119
Overall Length—Inches—"C" Coil													54	60	66	72	78	84	90	96	102
7L-178—7L-183	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-184	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-185—7L-187	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-188—7L-190	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
7L-191—7L-192	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7L-193	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3

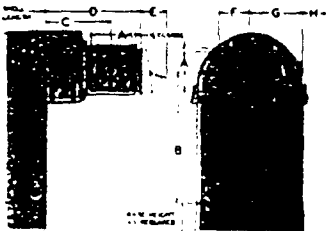
NOTE: To find coil capacity, read across top section of table to find desired coil capacity. Read down column until you reach correct coil size. The number in the box represents the maximum quantity of coils that will accommodate.

induced draft fans

WING DRAFT INDUCERS with variable speed motors provide precise draft control at all times... eliminate the need for tall stacks with Kewanee Type "C" boilers. AIR COOLED BEARINGS—pre-sealed and pre-lubricated—require no lubrication. SPRING MOUNTED MOTOR—dustproof, multispeed,

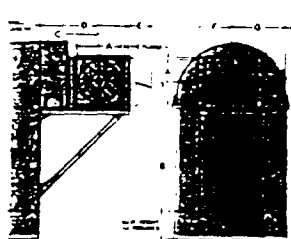
brushless... maintains correct fan belt tension. PERMANENT MOUNTING—furnished for either horizontal right or left, vertical or rear discharge as specified. Barometric dampers optional at extra cost.

Horizontal right or left discharge—mounted to smokebox



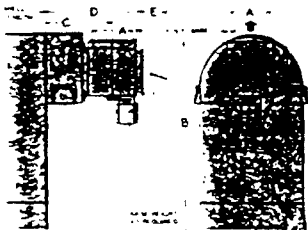
Boiler number	7L178	7L179	7L180	7L181	7L182	7L183	7L184
Inducer number*	140-W	140-W	190-W	190-W	190-W	190-W	190-W
Fan motor size							
—60 cycle—1 phase—110-220 V	hp	W	W	W	W	W	W
—60 cycle—2 or 3 phase—208-270-250 V	hp	W	W	W	W	W	W
—60 cycle—2 or 3 phase—440-480-550 V	hp	W	W	W	W	W	W
A—outlet size	14	14	19	19	19	19	19
B—bottom boiler to center of outlet	55W	55W	59W	59W	67W	67W	74
C—boiler head to center of outlet	26W	26W	30	30	30	30	31
D—overall space requirement	37W	37W	43W	43W	43W	43W	44W
E—barometric damper	9	9	12	12	12	12	12
F—boiler CL to outlet	10W	10W	14W	14W	14W	14W	14W
G—boiler CL to motor end	23	23	26W	26W	26W	30W	30W
H—fan removal clearance	19W	19W	27	27	27	27	27
I—access opening width	10	10	10	10	10	10	10
J—access opening length	33	33	33	33	33	33	30

Horizontal right or left discharge—structural mounting support



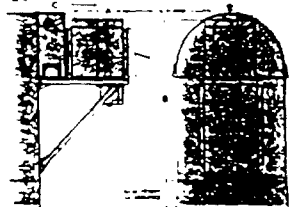
Boiler number	7L185	7L186	7L187	7L188	7L189	7L190	7L191	7L192	7L193
Inducer number*	280L-W	280L-W	280L-W	280H-W	280H-2	280H-2	280S-3	390-3	390-3
Fan motor size									
—60 cycle—1 phase—110-220 V	hp	W	W	W	W	W	3	3	3
—60 cycle—2 or 3 phase—208-270-250 V	hp	W	W	W	W	W	3	3	3
—60 cycle—2 or 3 phase—440-480-550 V	hp	W	W	W	W	W	3	3	3
A—outlet size	28	28	28	28	28	28	28	39	39
B—bottom boiler to center of outlet	77W	83	83	89	106	106	113	124W	133
C—boiler head to center of outlet	25W	39W	39W	39W	39W	39W	43W	49	49
D—overall space requirement	53W	57W	57W	57W	57W	57W	61W	72W	72W
E—barometric damper	15	15	15	15	15	15	15	18W	18W
F—boiler CL to outlet	20W	20W	20W	20W	20W	20W	20W	23W	23W
G—boiler CL to motor end	34W	34W	34W	36	36W	36W	38W	45W	45W
H—fan removal clearance	35W	35W	35W	36	36	36	36	46	46
I—access opening width	10	12	12	12	12	12	14	14	14
J—access opening length	33	33	33	33	33	33	33	39	39

Vertical discharge—mounted to smokebox



Boiler number	7L178	7L179	7L180	7L181	7L182	7L183	7L184
Inducer number*	140-W	140-W	190-W	190-W	190-W	190-W	190-W
Fan motor size							
—60 cycle—1 phase—110-220 V	hp	W	W	W	W	W	W
—60 cycle—2 or 3 phase—208-270-250 V	hp	W	W	W	W	W	W
—60 cycle—2 or 3 phase—440-480-550 V	hp	W	W	W	W	W	W
A—outlet size	14	14	19	19	19	19	19
B—bottom boiler to outlet	66	66	74	74	81W	81W	88
C—boiler head to center of outlet	26W	26W	30	30	30	30	31
D—overall space requirement	37W	37W	43W	43W	43W	43W	44W
E—barometric damper	9	9	12	12	12	12	12
F—access opening width	10	10	10	10	10	10	10
G—access opening length	33	33	33	33	33	33	30

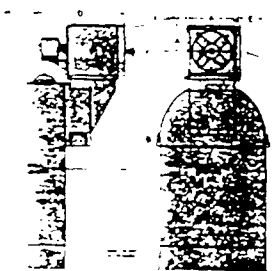
Vertical discharge—structural mounting support



Boiler number	7L185	7L186	7L187	7L188	7L189	7L190	7L191	7L192	7L193
Inducer number*	280L-W	280L-W	280L-W	280H-W	280H-2	280H-2	280S-3	390-3	390-3
Fan motor size									
—60 cycle—1 phase—110-220 V	hp	W	W	W	W	W	3	3	3
—60 cycle—2 or 3 phase—208-270-250 V	hp	W	W	W	W	W	3	3	3
—60 cycle—2 or 3 phase—440-480-550 V	hp	W	W	W	W	W	3	3	3
A—outlet size	28	28	28	28	28	28	28	39	39
B—bottom boiler to outlet	98	103W	103W	109	126	126	133W	145	156
C—boiler head to center of outlet	35W	39W	39W	39W	39W	39W	43W	49	49
D—overall space requirement	53W	57W	57W	57W	57W	57W	61W	72W	72W
E—barometric damper	15	15	15	15	15	15	15	18W	18W
F—access opening width	10	12	12	12	12	12	14	14	14
G—access opening length	33	33	33	33	33	33	33	39	39

Rear discharge—mounted on top of smokebox

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Boiler number	7L178	7L179	7L180	7L181	7L182	7L183	7L184	7L185	7L186	7L187	7L188	7L189	7L190	7L191	7L192	7L193
Inducer number*	140-W	140-W	190-W	190-W	190-W	190-W	190-W	280L-W	280L-W	280L-W	280H-W	280H-2	280H-2	280S-3	390-3	390-3
Fan motor size																
—60 cycle—1 phase—110-220 V	hp	W	W	W	W	W	W	W	W	W	W	W	W	3	3	3
—60 cycle—2 or 3 phase—208-270-250 V	hp	W	W	W	W	W	W	W	W	W	W	W	W	3	3	3
—60 cycle—2 or 3 phase—440-480-550 V	hp	W	W	W	W	W	W	W	W	W	W	W	W	3	3	3
A—outlet size	14	14	19	19	19	19	19	28	28	28	28	28	28	28	39	39
B—bottom boiler to center of outlet	86W	86W	94	94	125W	125W	113	124	122	137	140	151	151	161	172	183
C—boiler head to outlet	22	22	27W	27W	27W	27W	27W	38	38	38	38	38	38	38	48	48
D—overall space requirement	33W	33W	41	41	44W	44W	44W	55	55	55	55	55	55	55	65	65
E—barometric damper	9	9	12	12	12	12	12	15	15	15	15	15	15	15	18	18
F—fan removal clearance	19W	19W	27	27	27	27	27	33	33	33	33	33	33	33	39	39
G—access opening width	10	10	10	10	10	10	10	10	10	10	10	10	10	10	14	14
H—access opening length	24	24	27	27	27	27	27	33	33	33	33	33	33	33	39	39

*Fan sizes based on sea level elevation for lifting up to and including 14, 15, or 16 ft. lifting with 10, 11, or 12 ft. with stack.
Note: Stack and breeching weights must be supported independently. Orders must specify line voltage, cycle and phase.

ALL DATA AND DIMENSIONS UNLESS OTHERWISE SPECIFIED