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KAZAN MCCLAIN ET AL

NO. 1565 P. 1

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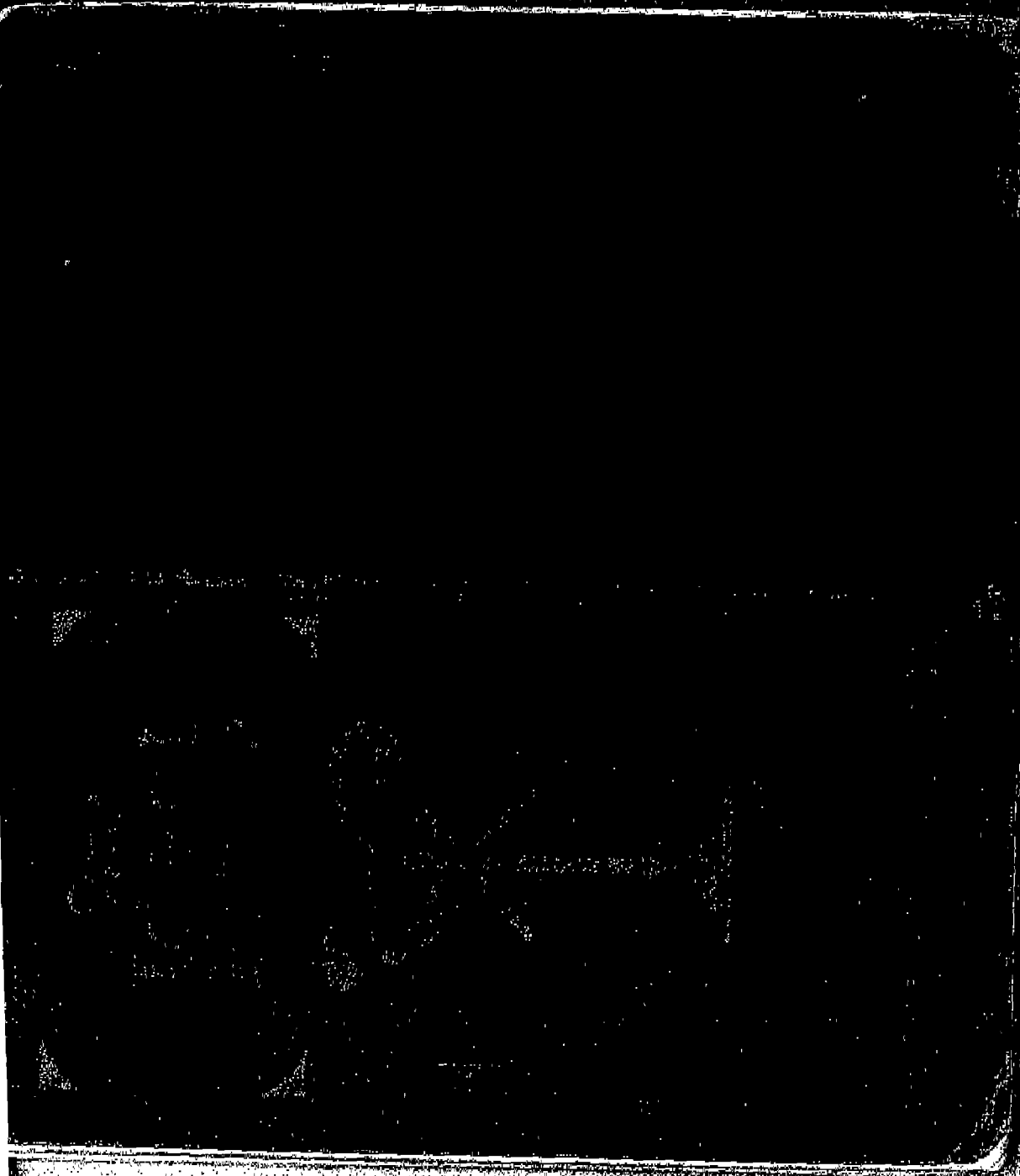
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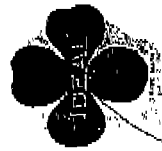
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NO. 1565 P. 3

THE IDEAL FITTER

AMERICAN & IDEAL
RADIATORS & BOILERS



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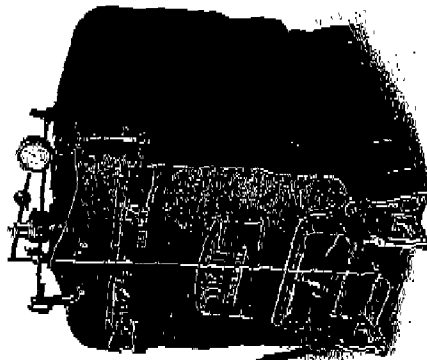
AMERICAN RADIATOR COMPANY

For Sales Offices, see next page

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IDEAL Sectional 28-inch Boilers

(Pat'd May 9, 1905)



No. S-28-7 Steam Boiler



No. W-28-7 Water Boiler

For Price List of Boiler parts: page 269; Coverings, page 198.
For Chatrautes and Coverings, Ratings and Conditions, Confs., etc., page 85.
Arrangement of Sections and Grates pages 233, 237.
Trimnings and Firing Tools pages 224, 224.

IDEAL Sectional 28-inch Boilers

Steam

Boiler No.	Boiler Rating, lbs. per sq. ft.	Total Grate Area, sq. ft.	Height, ft.	Out-let, No. and Size	Safety Valve, No. and Size
S-28-5	1300	5	60	2-4	4-4
S-28-6	1625	6	68	2-4	4-4
S-28-7	1950	7	76	3-4	6-4
S-28-8	2275	8	84	3-4	6-4

Water

Boiler No.	Boiler Rating, lbs. per sq. ft.	Total Grate Area, sq. ft.	Height, ft.	Out-let, No. and Size	Safety Valve, No. and Size
W-28-5	1300	5	60	2-4	4-4
W-28-6	1625	6	68	2-4	4-4
W-28-7	1950	7	76	3-4	6-4
W-28-8	2275	8	84	3-4	6-4

For List Prices see current Trade Discount Sheet.

*Safety Valve sizes accord with A. S. M. E. boiler code.

Factors determining boiler capacities (derived from actual tests)

Number of Boilers—Steam or Water	28-5	28-6	28-7	28-8
Fuel available, lbs.	299	371	448	523
Evaporative power, lbs.	8.7	8.7	8.7	8.7
Total steam from one fuel charge, lbs.	2602	3235	3908	4530
Chimney area (sea level), sq. ft.	144	144	192	192
Chimney height, ft.	40	40	50	60

For good chimney construction and its influence on boiler selections, see pages 235 and 246.

For selection of proper size boiler see pages 249-251.

RATINGS DEVELOPED WHEN AVAILABLE FUEL IS BURNED IN 8, 10 OR 12 HOURS

For Price List of Boiler parts: page 269; Coverings, page 198.
For Chatrautes and Coverings, Ratings and Conditions, Confs., etc., page 85.
Arrangement of Sections and Grates pages 233, 237.
Trimnings and Firing Tools pages 224, 224.

Steam Rating

TIME	5 Sec.	6 Sec.	7 Sec.	8 Sec.
8 Hours	1300	1625	1950	2275
10 "	1040	1300	1560	1820
12 "	865	1085	1300	1520

Water Rating

TIME	5 Sec.	6 Sec.	7 Sec.	8 Sec.
8 Hours	2150	2675	3200	3725
10 "	1715	2145	2575	3005
12 "	1425	1790	2145	2510

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NO. 1565 P. 5

IDEAL Type "A" Heat Machines

Regular Boiler Equipment

Arco Steam Regulator, including lever, counterweight, and rods—positive connection to draft door and damper.
 No. 3—WATER COLUMN—10-inch glass with heavy brass— $\frac{1}{2}$ -inch gauge cocks and guards— $\frac{1}{2}$ -inch pet cock.
 No. 4—FIRE COCKS— $\frac{3}{4}$ -inch brass.

No. 5—IDEAL STEAM GAUGE—Improved type— $\frac{1}{2}$ -inch face with Bourdon spring and special water seal plug—clear and accurate graduation for vapor and low pressure.

No. 6—DRAW-OFF COCKS—Two of solid brass construction.

No. 7—FIRING TOOLS—Poker, hoe with handle, wire flue brush.

Supplied with all Type "A" Water Boilers

No. 1—IDEAL METALLIC JACKET—Same as No. 1 above.

No. 2—DAMPER CONTROL—Consisting of bracket, hand-wheel with screw, lever, and adjustable rods—positive connection to draft door and damper.

No. 3—DRAW-OFF COCKS—Same as No. 6 above.

No. 4—FIRING TOOLS—Same as No. 7 above.

For Price List of Trimmings and Boiler parts see pages 201-203.

Chimney Sizes Recommended for Type "A" Boilers

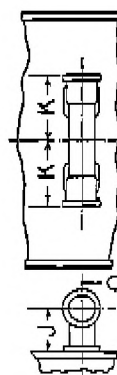
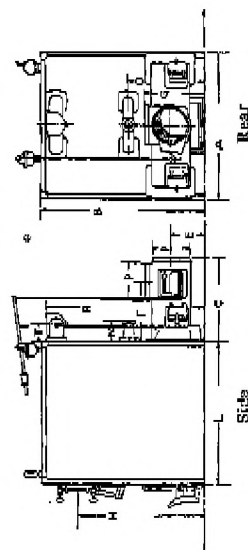
Number of Boiler	HEIGHT OF CHIMNEY IN FEET						
	30	35	40	45	50	55	60
1-A, 1 or 40	8x12	8x8	8x8				
1-A, 5 or 50	8x12	8x12	8x8				
1-A, 6 or 60	12x12	8x12	8x12				
1-A, 7 or 70	12x12	12x12	8x12				
2-A, 1 or 50	12x12	12x12	12x12	8x12			
2-A, 2 or 60	12x12	12x12	12x12	12x12			
2-A, 3 or 70	12x12	12x12	12x12	12x12			
2-A, 4 or 80	12x12	12x12	12x12	12x12			
2-A, 5 or 90	12x12	12x12	12x12	12x12			
2-A, 6 or 100	12x12	12x12	12x12	12x12			
3-A, 1 or 50	16x16	16x16	16x16	12x16			
3-A, 2 or 60	16x16	16x16	16x16	16x16			
3-A, 3 or 70	16x20	16x20	16x20	16x20	16x16		
3-A, 4 or 80	20x20	20x20	20x20	20x20	16x20	16x16	
3-A, 5 or 90	20x20	20x20	20x20	20x20	20x20	16x20	
3-A, 6 or 100	20x24	20x24	20x24	20x24	20x20	20x20	
3-A, 7 or 110	20x24	20x24	20x24	20x24	20x24	20x24	20x20

Above chimney flue sizes are based on sea level conditions—add 2% to area for each 500 feet elevation above sea level. See pages 247, 248 for standard sizes of tile and brick chimney flues.

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IDEAL Type "A" Heat Machines

Measurements for Steam or Water



RETURN HEADER FOR WATER BOILERS

Dimension	Type 1-A		Type 2-A		Type 3-A	
	Steam Inches	Water Inches	Steam Inches	Water Inches	Steam Inches	Water Inches
A	36	36	51	51	77	77
B	47	47	56	56	63	63
C	23 1/2	23 1/2	29 1/2	29 1/2	41	41
D	11 1/2	11 1/2	11	11	13	13
E	17 1/2	17 1/2	21	21	29 1/2	29 1/2
F	17 1/2	17 1/2	19 1/2	19 1/2	24 1/2	24 1/2
G	35	35	43	43	49	49
H	6 1/2	6 1/2	7	7	10	10
I	21 1/2	21 1/2	26	26	29	29
J	9	9	13	13	18	18
K	41 1/2	41 1/2	51	51	61 1/2	61 1/2
L	5	5	5 3/4	5 3/4	7 1/2	7 1/2
M	10 1/2	10 1/2	13 1/2	13 1/2	14	14

*See pages 31, 33 and 35.

Pipe Door Dimensions, Size 1-A, 14 1/2x10 inches; 2-A, 18x10 inches; 3-A, 22x10 inches.

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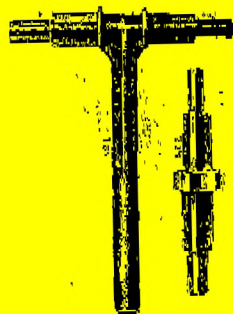
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NO. 1565 P. 6

Ideal Spud Wrenches

These tools are most convenient for connecting up unions. Radiator valves or union elbows. Connections can be made up quicker, tighter, and without injuring the union. Style 1 is used hand-to, and has an open hexagon on end of handle for adjusting bolt nuts. Style 2 is used with a Stillson wrench. Either tool embraces $1\frac{1}{2}$, $1\frac{1}{4}$, 1, and $\frac{3}{4}$ -inch sizes. Made of malleable iron.



Style 1
Stock No. 590
Wt. $3\frac{1}{2}$ lbs.

Style 2
Stock No. 591
Wt. $1\frac{1}{2}$ lbs.

List Prices, each: Style 1, \$0.75; Style 2, \$0.50.

Air-Cell Pipe Covering—Stock No. 398



Formed by alternate layers of plain and corrugated (or ribbed) asbestos paper running lengthwise of the pipe. A good form of covering, giving full protection to the pipe. Supplied in sections 3 feet long and cut lengthwise through the center. Neatly finished with canvas and bands. Can furnish in $\frac{1}{2}$ -, $\frac{3}{4}$ -, and 1-inch thicknesses.

List Prices

Inside Diameter of Pipe, Inches	$\frac{1}{2}$	$\frac{3}{4}$	1	$1\frac{1}{4}$	$1\frac{1}{2}$	2	2 $\frac{1}{2}$	3	3 $\frac{1}{2}$	4
Price per Linear Foot	.22	.24	.27	.30	.33	.36	.40	.43	.50	.60
Inside Diameter of Pipe, Inches	4 $\frac{1}{2}$	5	6	7	8	9	10	12		
Price per Linear Foot	.65	.70	.80	1.00	1.10	1.20	1.30	1.50		
Outside Diameter of Pipe, Inches	14	16	18	20	24	30				
Price per Linear Foot	2.40	2.50	2.60	2.85	3.10	4.00				

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No. of Boiler	Lbs.	No. of Boiler	Lbs.
10	125	15-4	100
12	150	15-5	125
14	175	15-6	150
16	200	15-7	175
18	225	15-8	200
20	250	15-9	225
22	275	15-10	250
24	300	15-11	275
26	325	15-12	300
28	350	15-13	325
30	375	15-14	350
32	400	15-15	375
34	425	15-16	400
36	450	15-17	425
38	475	15-18	450
40	500	15-19	475
42	525	15-20	500
44	550	15-21	525
46	575	15-22	550
48	600	15-23	575
50	625	15-24	600
52	650	15-25	625
54	675	15-26	650
56	700	15-27	675
58	725	15-28	700
60	750	15-29	725
62	775	15-30	750
64	800	15-31	775
66	825	15-32	800
68	850	15-33	825
70	875	15-34	850
72	900	15-35	875
74	925	15-36	900
76	950	15-37	925
78	975	15-38	950
80	1000	15-39	975
82	1025	15-40	1000
84	1050	15-41	1025
86	1075	15-42	1050
88	1100	15-43	1075
90	1125	15-44	1100
92	1150	15-45	1125
94	1175	15-46	1150
96	1200	15-47	1175
98	1225	15-48	1200
100	1250	15-49	1225

Ideal Water Tube Boilers

No. of Boiler	Lbs.
10	575
12	650
14	725
16	800
18	875
20	950
22	1025
24	1100
26	1175
28	1250

On Boilers not listed here estimate 6 pounds to the square foot— $1\frac{1}{2}$ inches thick.

List Prices

Asbestos Cement, per bag of 100 pounds	\$3.60
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