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National  
Radiator  
Company 1903

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# National Radiator Company

Office and Works

Johnstown, Pennsylvania

New York: 242 Water Street

O. PEIRCE,

PHILADA. OFFICE, BUILDERS EXCHANGE,

24 SO. SEVENTH ST.

Philadelphia: Builders Exchange

## Introductory

**T**HIS EDITION of our catalog supersedes all previous issues. We refer with pleasure to the wide range of widths and heights of our radiation, all of the same design, for both steam and hot water heating purposes, herein illustrated. The importance of this is readily appreciated by the architect and steam fitter when preparing their plans and specifications for a heating apparatus, as all conditions are met without using more than one design of radiator in the same compartment.

In the manufacture of our goods we keep constantly in mind the three essential features, in order to produce a satisfactory radiator, viz: Efficiency, design, and workmanship; in all these points we have been highly successful, a fact which is best attested by our constantly increasing business. We desire to lay special stress upon the workmanship of our goods, a matter so very important to the fitter, as one small leak will often cost him a large percentage of his profit on the entire job. Our radiation is all tested twice, to not less than eighty pounds hydrostatic pressure, before leaving the factory. Fitters inform us that our radiators give them less trouble on this score than any they have ever used.

While we are fitted for making screw nipple connections, we adhere strictly to the push nipple joint, which is undoubtedly the most satisfactory method for making an absolutely tight and permanent joint for this class of work. This method of making joints is now being used quite extensively by the manufacturers of cast iron house-heating boilers, where the strain due to sudden expansion and contraction is much greater than on radiators; in fact it is being used so extensively that it is practically the standard among heating engineers.

Without instructions to the contrary, we make all shipments by the shortest and quickest route known to us, at released rates, and when goods are receipted for by the railroad company our responsibility ceases. Claims for damages on account of losses or delays must be made to the railroad company.

If, for any reason, customers desire to return goods, they must first advise us and have the conditions upon which the goods will be received agreed upon. This is necessary, owing to the fact that all radiators returned have to be retested and the sizes invariably changed, involving quite an item of expense.

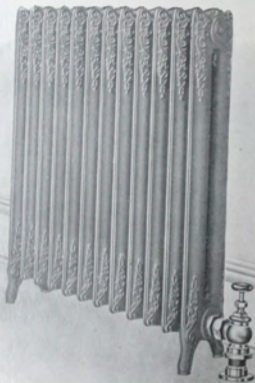
NATIONAL RADIATOR COMPANY.

## Note

**VALUABLE TIME** can often be saved if care is taken when ordering radiators to give necessary instructions concerning tapping, shipping, etc. When ordering Wall Radiators refer to catalog pages for the manner in which they are to be assembled, also state whether for water or steam. Tapping instructions for Wall Radiators can often be better understood if accompanied with a pencil sketch.

With orders for Loop Radiators, state whether for water or steam, also whether for one or two pipe system. Orders for leg sections should state whether for water, or steam, return or feed end; also size of opening, and whether for single or two-pipe steam, or for hot water.

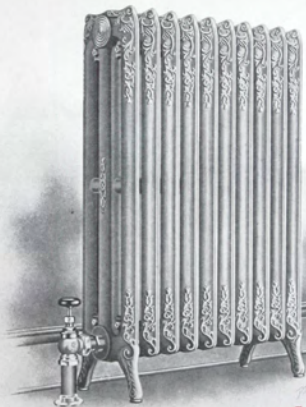
When ordering Semi-Direct Radiators, always state whether bases are to have bottom or back outlets; note also that we do not make bases for radiators containing less than five sections.



**Solus Two-Column Radiator**

For steam or water.

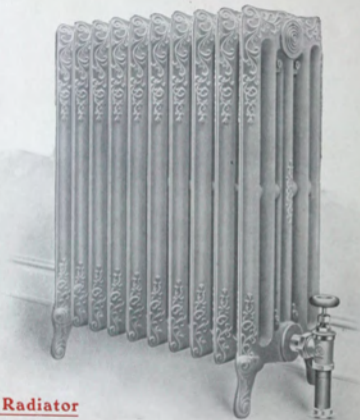
See page 41.



**Solus Three-Column Radiator**

For steam or water.

See page 19.



**Solus Five-Column Radiator**

For steam or water.

See page 20.

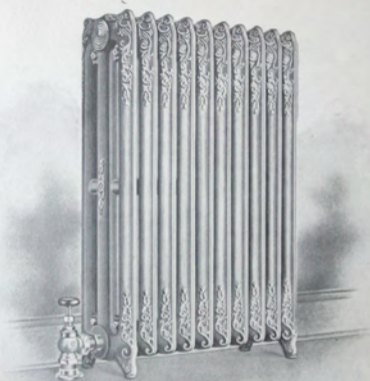




**Solus Window Radiator**

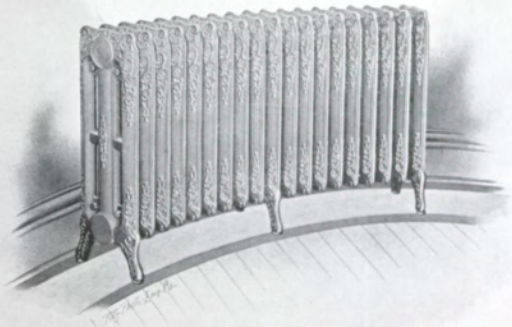
For steam or water.

See page 21.



## Solus Radiator

All heights of Solus Radiators can be made 2" lower by using special low feet, as shown in this cut.



**Solus Curved Radiator**

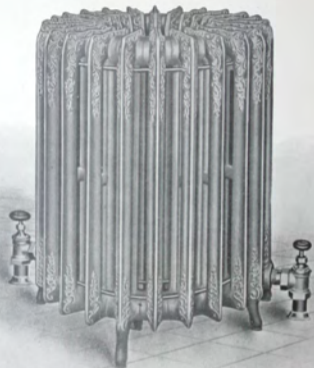
Made in two, three, and five column  
in all heights.

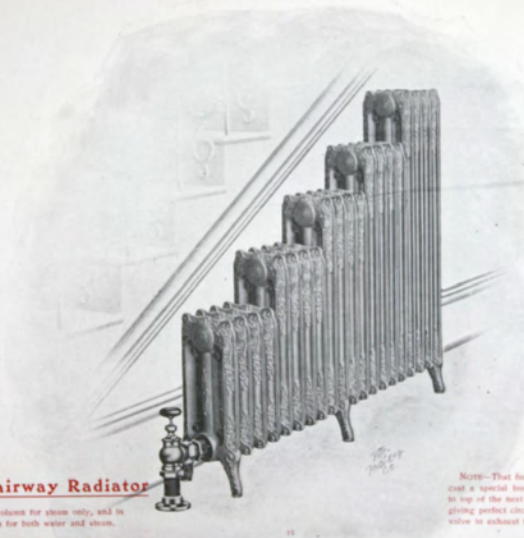
## Solus Circular Radiator

Made in all heights of  
three column

No. sections	Outside diam. legs	Inside diam. legs
20	28 "	8 "
22	31 1/2 "	11 1/2 "
24	34 1/2 "	14 1/2 "
26	37 "	17 "
28	39 1/2 "	19 1/2 "
30	42 1/2 "	22 1/2 "
32	45 "	25 "
34	47 "	27 "

Solus Three-Column Circular Radiators are furnished in two pieces forming two separate radiators, which can be placed around post or column. All tapping furnished as per list on page 19, unless otherwise ordered.

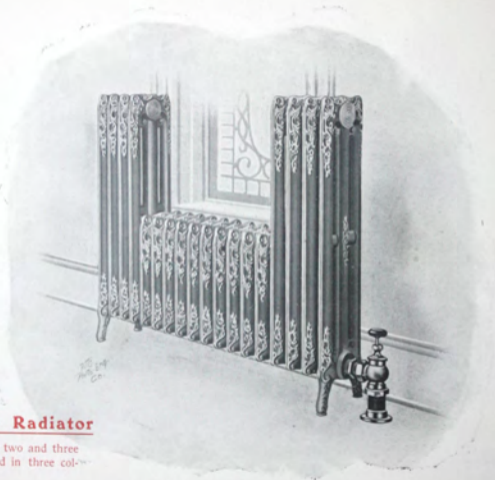




## Solus Stairway Radiator

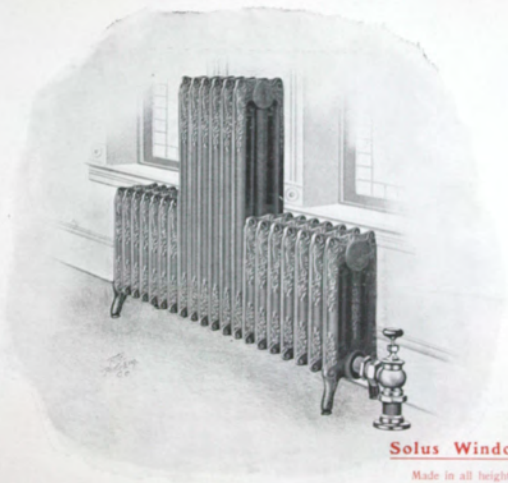
Made in two column for steam only, and in  
three column for both water and steam.

NOTE—That for water radiators for stairways we  
cast a special box in center of section to connect  
to top of the next lowest group of sections, thereby  
giving perfect circulation, and requiring but one air  
valve to exhaust the air.



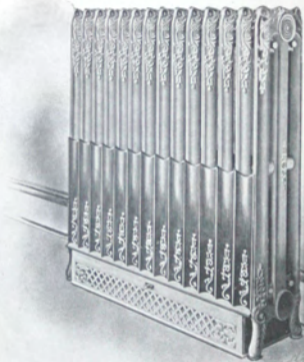
### Solus Window Radiator

Made in all heights, two and three column, for steam, and in three column only for water.



**Solus Window Radiator**

Made in all heights, two and three  
column, for steam or water.



**Solus Semi-Direct Radiator**



## Solus Semi-Direct Radiator

The cut on page 14 illustrates our Solus Semi-Direct Radiator, and cut on this page illustrates the base detached. For simplicity and effectiveness this device is not equaled.

In the construction of the dampers there is not a bolt or joint to become detached or get out of order. The operation is so simple that the slightest pressure or foot movement will open or close the dampers, which may also be adjusted to take all or part of the air from either outside or inside of the room. One base answers for either back or bottom inlet, consequently the fitter can make no mistake in ordering and be subjected to vexatious delays.

More air can be admitted and passed over a greater amount of heated surface than in any Semi-Direct attachment heretofore devised. The entire base may be removed for cleaning without disconnecting the radiator.

The largest base is made for a 14 section radiator, and may be used with larger radiators containing an even number of sections; a 13 section base may be used on larger radiators containing an odd number of sections.

Openings for fresh-air inlets from back of radiators are as follows:

5 section . . . . .	7 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch	10 section . . . . .	12 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch
6 section . . . . .	8 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch	11 section . . . . .	16 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch
7 section . . . . .	10 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch	12 section . . . . .	16 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch
8 section . . . . .	10 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch	13 section . . . . .	16 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch
9 section . . . . .	12 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch	14 section . . . . .	16 $\frac{1}{4}$ x 3 $\frac{1}{4}$ inch

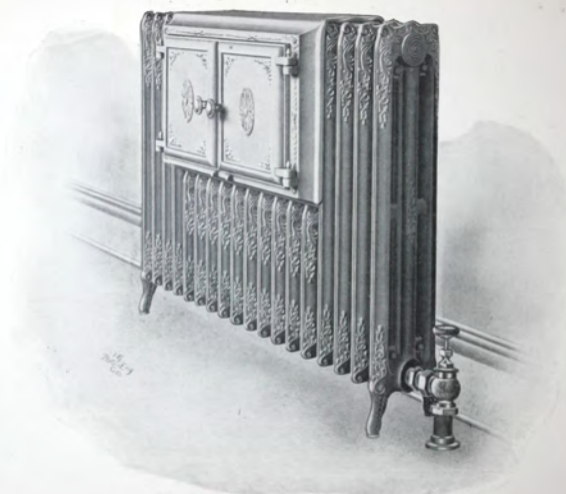
All the above are outside measurements and  $\frac{1}{2}$  inch above floor line.

Bottom or floor openings may be made any width up to 5 inches, measuring from back of base any length up to 29 inches for a 14 section base, deducting 2 $\frac{1}{2}$  inches for each section on shorter bases.



## Solus Dining-Room Radiator

The Solus Dining-room Radiator has double doors, and two shelves each 25" long and 12" wide, with 7½" space between. Distance from wall to center of tapping should not be less than 6½". Made in three column and 35" heights only.



No.	Length	Heating Surface
1	30"	17½ square feet
2	35"	47½ square feet
3	40"	57½ square feet
4	45"	67½ square feet
5	50"	77½ square feet
6	55"	87½ square feet
7	60"	97½ square feet
8	65"	107½ square feet
9	70"	117½ square feet
10	75"	127½ square feet



The Century Radiator Shields are well made and finished. They are adjustable and easily attached or removed from the radiator. They are neat and ornamental and will prevent the soiling of walls and decorations by checking the upward current of dust in the air.

When ordering shields give the following information:

Number of sections in each radiator; distance between centers of each section; width of sections in each radiator; length of radiator over all on top; name and make of radiator. When shields are to extend to the floor, give height of radiators.

## Century Radiator Shields

For steam or hot water radiators.

Number of Sections in Radiator.	Smooth Steel Hood Cast Iron Ends	Finished in Gold, Copper, Aluminum, Bronze, or Black Iron	Blue Steel Hood, Polished Brass, Nickel or Antique Copper Front Roll, plated ends to match.	Polished Brass Hood with plated ends to match	Nickel or Antique Copper Hood, with plated ends to match
8	\$2.70	\$3.50	\$ 6.50	\$13.00	\$14.00
9	2.85	3.75	7.00	14.00	15.00
10	3.00	4.00	7.50	15.00	16.00
11	3.15	4.25	8.00	16.00	17.00
12	3.30	4.50	8.50	17.00	18.00
13	3.45	4.75	9.00	18.00	19.00
14	3.60	5.00	9.50	19.00	20.00
15	3.75	5.25	10.00	20.00	21.00
16	3.90	5.50	10.50	21.00	22.00
17	4.05	5.75	11.00	22.00	23.00
18	4.20	6.00	11.50	23.00	24.00
19	4.35	6.25	12.00	24.00	25.00
20	4.50	6.50	12.50	25.00	26.00
21	4.65	6.75	13.00	26.00	27.00
22	4.80	7.00	13.50	27.00	28.00
23	4.95	7.25	14.00	28.00	29.00
24	5.10	7.50	14.50	29.00	30.00
25	5.25	7.75	15.00	30.00	31.00
26	5.40	8.00	15.50	31.00	32.00
27	5.55	8.25	16.00	32.00	33.00
28	5.70	8.50	16.50	33.00	34.00
29	5.85	8.75	17.00	34.00	35.00
30	6.00	9.00	17.50	35.00	36.00

Prices for extensions to floor given on application. Shields shorter than eight sections will be charged at price of eight sections. Prices include adjustable attachments.

### List of Sizes of the Solu Two-Column Radiator.

Sec.	Length	45 In. High	38 In. High	32 In. High	26 In. High	21 In. High	20 In. High
2	5	10 ft	8 ft	6 <sup>3</sup> / <sub>8</sub> ft	5 <sup>3</sup> / <sub>8</sub> ft	4 <sup>3</sup> / <sub>8</sub> ft	4 ft
3	7 <sup>1</sup> / <sub>2</sub>	15 "	12 "	10 "	8 "	7 "	6 "
4	10	20 "	16 "	13 <sup>3</sup> / <sub>8</sub> "	10 <sup>3</sup> / <sub>8</sub> "	9 <sup>3</sup> / <sub>8</sub> "	8 "
5	12 <sup>1</sup> / <sub>2</sub>	25 "	20 "	16 <sup>3</sup> / <sub>8</sub> "	13 <sup>3</sup> / <sub>8</sub> "	11 <sup>3</sup> / <sub>8</sub> "	10 "
6	15	30 "	24 "	20 "	16 "	14 "	12 "
7	17 <sup>1</sup> / <sub>2</sub>	35 "	28 "	23 <sup>3</sup> / <sub>8</sub> "	18 <sup>3</sup> / <sub>8</sub> "	16 <sup>3</sup> / <sub>8</sub> "	14 "
8	20	40 "	32 "	26 <sup>3</sup> / <sub>8</sub> "	21 <sup>3</sup> / <sub>8</sub> "	18 <sup>3</sup> / <sub>8</sub> "	16 "
9	22 <sup>1</sup> / <sub>2</sub>	45 "	36 "	30 "	24 "	21 "	18 "
10	25	50 "	40 "	33 <sup>3</sup> / <sub>8</sub> "	26 <sup>3</sup> / <sub>8</sub> "	23 <sup>3</sup> / <sub>8</sub> "	20 "
11	27 <sup>1</sup> / <sub>2</sub>	55 "	44 "	36 <sup>3</sup> / <sub>8</sub> "	29 <sup>3</sup> / <sub>8</sub> "	25 <sup>3</sup> / <sub>8</sub> "	22 "
12	30	60 "	48 "	40 "	32 "	28 "	24 "
13	32 <sup>1</sup> / <sub>2</sub>	65 "	52 "	43 <sup>3</sup> / <sub>8</sub> "	34 <sup>3</sup> / <sub>8</sub> "	30 <sup>3</sup> / <sub>8</sub> "	26 "
14	35	70 "	56 "	46 <sup>3</sup> / <sub>8</sub> "	37 <sup>3</sup> / <sub>8</sub> "	32 <sup>3</sup> / <sub>8</sub> "	28 "
15	37 <sup>1</sup> / <sub>2</sub>	75 "	60 "	50 "	40 "	35 "	30 "
16	40	80 "	64 "	53 <sup>3</sup> / <sub>8</sub> "	42 <sup>3</sup> / <sub>8</sub> "	37 <sup>3</sup> / <sub>8</sub> "	32 "
17	42 <sup>1</sup> / <sub>2</sub>	85 "	68 "	56 <sup>3</sup> / <sub>8</sub> "	45 <sup>3</sup> / <sub>8</sub> "	39 <sup>3</sup> / <sub>8</sub> "	34 "
18	45	90 "	72 "	60 "	48 "	42 "	36 "
19	47 <sup>1</sup> / <sub>2</sub>	95 "	76 "	63 <sup>3</sup> / <sub>8</sub> "	50 <sup>3</sup> / <sub>8</sub> "	44 <sup>3</sup> / <sub>8</sub> "	38 "
20	50	100 "	80 "	66 <sup>3</sup> / <sub>8</sub> "	53 <sup>3</sup> / <sub>8</sub> "	46 <sup>3</sup> / <sub>8</sub> "	40 "
21	52 <sup>1</sup> / <sub>2</sub>	105 "	84 "	70 "	56 "	49 "	42 "
22	55	110 "	88 "	73 <sup>3</sup> / <sub>8</sub> "	58 <sup>3</sup> / <sub>8</sub> "	51 <sup>3</sup> / <sub>8</sub> "	44 "
23	57 <sup>1</sup> / <sub>2</sub>	115 "	92 "	76 <sup>3</sup> / <sub>8</sub> "	61 <sup>3</sup> / <sub>8</sub> "	53 <sup>3</sup> / <sub>8</sub> "	46 "
24	60	120 "	96 "	80 "	64 "	56 "	48 "
25	62 <sup>1</sup> / <sub>2</sub>	125 "	100 "	83 <sup>3</sup> / <sub>8</sub> "	66 <sup>3</sup> / <sub>8</sub> "	58 <sup>3</sup> / <sub>8</sub> "	50 "
26	65	130 "	104 "	86 <sup>3</sup> / <sub>8</sub> "	69 <sup>3</sup> / <sub>8</sub> "	60 <sup>3</sup> / <sub>8</sub> "	52 "
27	67 <sup>1</sup> / <sub>2</sub>	135 "	108 "	90 "	72 "	63 "	54 "
28	70	140 "	112 "	93 <sup>3</sup> / <sub>8</sub> "	74 <sup>3</sup> / <sub>8</sub> "	65 <sup>3</sup> / <sub>8</sub> "	56 "
29	72 <sup>1</sup> / <sub>2</sub>	145 "	116 "	96 <sup>3</sup> / <sub>8</sub> "	77 <sup>3</sup> / <sub>8</sub> "	67 <sup>3</sup> / <sub>8</sub> "	58 "
30	75	150 "	120 "	100 "	80 "	70 "	60 "
31	77 <sup>1</sup> / <sub>2</sub>	155 "	124 "	103 <sup>3</sup> / <sub>8</sub> "	82 <sup>3</sup> / <sub>8</sub> "	72 <sup>3</sup> / <sub>8</sub> "	62 "
32	80	160 "	128 "	106 <sup>3</sup> / <sub>8</sub> "	85 <sup>3</sup> / <sub>8</sub> "	74 <sup>3</sup> / <sub>8</sub> "	64 "

### Regular Tappings for Solu Two-Column Radiator.

#### ONE-PIPE STEAM.

25 sq. ft. and under . . . . .	1 "
Over 25 but not to exceed 60 sq. ft. . . . .	1 <sup>1</sup> / <sub>2</sub> "
Over 60 but not to exceed 100 sq. ft. . . . .	1 <sup>3</sup> / <sub>4</sub> "
Over 100 sq. ft. . . . .	2 "

#### TWO-PIPE STEAM.

50 sq. ft. and under . . . . .	1 " by <sup>1</sup> / <sub>4</sub> "
Over 50 but not to exceed 100 sq. ft., <sup>1</sup> / <sub>4</sub> " by 1 "	
Over 100 sq. ft. . . . .	1 <sup>1</sup> / <sub>2</sub> " by 1 <sup>1</sup> / <sub>2</sub> "

#### WATER

50 sq. ft. and under . . . . .	1 " by 1 "
Over 50 but not to exceed 90 sq. ft., <sup>1</sup> / <sub>4</sub> " by 1 <sup>1</sup> / <sub>4</sub> "	
Over 90 sq. ft. . . . .	1 <sup>1</sup> / <sub>2</sub> " by 1 <sup>1</sup> / <sub>2</sub> "

Distance from floor to bottom of opening for one-pipe, or return end of two-pipe work, 4<sup>1</sup>/<sub>4</sub> inches. From floor to centre of opening on feed end for two-pipe work, 4<sup>1</sup>/<sub>4</sub> inches. Width of radiator, 7<sup>1</sup>/<sub>4</sub> inches; width of feet, 8 inches. Dimensions given are from outside to outside of tapping bosses.

### List of Sizes of the Solux Three-Column Radiator,

Sec.	Length	45 In. High	48 In. High	52 In. High	56 In. High	63 In. High	80 In. High
2	5	12 ft	10 ft	9 ft	7½ ft	6½ ft	5½ ft
3	7½	18 "	15 "	13½ "	11¼ "	9¾ "	8¼ "
4	10	24 "	20 "	18 "	15 "	13 "	11 "
5	12½	30 "	25 "	22½ "	18¾ "	16¼ "	13¾ "
6	15	36 "	30 "	27 "	22½ "	19½ "	16½ "
7	17½	42 "	35 "	31½ "	26¼ "	22¾ "	19¼ "
8	20	48 "	40 "	36 "	30 "	26 "	22 "
9	22½	54 "	45 "	40½ "	33¾ "	29¼ "	24¾ "
10	25	60 "	50 "	45 "	37½ "	32½ "	27½ "
11	27½	66 "	55 "	49½ "	41¼ "	35¾ "	30¾ "
12	30	72 "	60 "	54 "	45 "	39 "	33 "
13	32½	78 "	65 "	58½ "	48¾ "	42¼ "	35¾ "
14	35	84 "	70 "	63 "	52½ "	45½ "	38½ "
15	37½	90 "	75 "	67½ "	56¼ "	48¾ "	41¾ "
16	40	96 "	80 "	72 "	60 "	52 "	44 "
17	42½	102 "	85 "	76½ "	63¾ "	55¼ "	46¾ "
18	45	108 "	90 "	81 "	67½ "	58½ "	49½ "
19	47½	114 "	95 "	85½ "	71¼ "	61¾ "	52¼ "
20	50	120 "	100 "	90 "	75 "	65 "	55 "
21	52½	126 "	105 "	94½ "	78¾ "	68¼ "	57¾ "
22	55	132 "	110 "	99 "	82½ "	71½ "	60¾ "
23	57½	138 "	115 "	103½ "	86¼ "	74¾ "	63¾ "
24	60	144 "	120 "	108 "	90 "	78 "	66 "
25	62½	150 "	125 "	112½ "	93¾ "	81¼ "	68¾ "
26	65	156 "	130 "	117 "	97½ "	84¾ "	71¾ "
27	67½	162 "	135 "	121½ "	101¼ "	87¾ "	74¾ "
28	70	168 "	140 "	126 "	105 "	91 "	77 "
29	72½	174 "	145 "	130½ "	108¾ "	94¼ "	79¾ "
30	75	180 "	150 "	135 "	112½ "	97½ "	82½ "
31	77½	186 "	155 "	139½ "	116¼ "	100¾ "	85¾ "
32	80	192 "	160 "	144 "	120 "	104 "	88 "

### Regular Tappings for Solux Three-Column Radiator.

#### ONE-PIPE STEAM.

25 sq. ft. and under . . . . .	1 "
Over 25 but not to exceed 60 sq. ft. . . . .	1¼ "
Over 60 but not to exceed 100 sq. ft. . . . .	1½ "
Over 100 sq. ft. . . . .	2 "

#### TWO-PIPE STEAM.

50 sq. ft. and under . . . . .	1 " by ¼ "
Over 50 but not to exceed 100 sq. ft., 1¼ " by 1 "	
Over 100 sq. ft. . . . .	1½ " by 1¼ "

#### WATER.

50 sq. ft. and under . . . . .	1 " by 1 "
Over 50 but not to exceed 90 sq. ft., 1¼ " by 1¼ "	
Over 90 sq. ft. . . . .	1½ " by 1½ "

Distance from floor to bottom of opening for one-pipe, or return end of two-pipe work, 4¼ inches. From floor to centre of opening on feed end for two-pipe work, 5¼ inches. Width of radiator, 8¼ inches, width of feet 9¼ inches. Dimensions given are from outside to outside of tapping bosses.

### List of Sizes of the Solu<sub>r</sub> Five-Column Radiator,

Sec.	Length	37 In. High	33 In. High	27 In. High	22 In. High
2	5	16 ft	14 ft	12 ft	10 ft
3	7½	24 "	21 "	18 "	15 "
4	10	32 "	28 "	24 "	20 "
5	12½	40 "	35 "	30 "	25 "
6	15	48 "	42 "	36 "	30 "
7	17½	56 "	49 "	42 "	35 "
8	20	64 "	56 "	48 "	40 "
9	22½	72 "	63 "	54 "	45 "
10	25	80 "	70 "	60 "	50 "
11	27½	88 "	77 "	66 "	55 "
12	30	96 "	84 "	72 "	60 "
13	32½	104 "	91 "	78 "	65 "
14	35	112 "	98 "	84 "	70 "
15	37½	120 "	105 "	90 "	75 "
16	40	128 "	112 "	96 "	80 "
17	42½	136 "	119 "	102 "	85 "
18	45	144 "	126 "	108 "	90 "
19	47½	152 "	133 "	114 "	95 "
20	50	160 "	140 "	120 "	100 "
21	52½	168 "	147 "	126 "	105 "
22	55	176 "	154 "	132 "	110 "
23	57½	184 "	161 "	138 "	115 "
24	60	192 "	168 "	144 "	120 "
25	62½	200 "	175 "	150 "	125 "
26	65	208 "	182 "	156 "	130 "
27	67½	216 "	189 "	162 "	135 "
28	70	224 "	196 "	168 "	140 "
29	72½	232 "	203 "	174 "	145 "
30	75	240 "	210 "	180 "	150 "
31	77½	248 "	217 "	186 "	155 "
32	80	256 "	224 "	192 "	160 "

### Regular Tappings for Solu<sub>r</sub> Five-Column Radiator,

#### ONE-PIPE STEAM.

25 sq. ft. and under . . . . .	1 "
Over 25 but not to exceed 60 sq. ft. . . . .	1¼ "
Over 60 but not to exceed 100 sq. ft. . . . .	1½ "
Over 100 sq. ft. . . . .	2 "

#### TWO-PIPE STEAM.

50 sq. ft. and under . . . . .	1 " by ¼ "
Over 50 but not to exceed 100 sq. ft., 1¼ " by 1 "	
Over 100 sq. ft. . . . .	1½ " by 1¼ "

#### WATER.

50 sq. ft. and under . . . . .	1 " by 1 "
Over 50 but not to exceed 90 sq. ft., 1¼ " by 1¼ "	
Over 90 sq. ft. . . . .	1½ " by 1½ "

Distance from floor to centre of opening for water or feed end of two-pipe steam, 5 inches; from floor to bottom of opening for one-pipe steam or return end of two-pipe steam, 4 inches.

Width of radiator 11½ inches, width of feet 12½ inches. Dimensions given are from outside to outside of tapping boxes.  
Width of radiator 11¼ inches, width of feet

## List of Sizes of the Solus Window Radiator.

Sec.	Length	20 In. High	17 In. High	14 In. High
2	5	10 ft	8 ft	6 ft
3	7 1/2	15 "	12 "	9 "
4	10	20 "	16 "	12 "
5	12 1/2	25 "	20 "	15 "
6	15	30 "	24 "	18 "
7	17 1/2	35 "	28 "	21 "
8	20	40 "	32 "	24 "
9	22 1/2	45 "	36 "	27 "
10	25	50 "	40 "	30 "
11	27 1/2	55 "	44 "	33 "
12	30	60 "	48 "	36 "
13	32 1/2	65 "	52 "	39 "
14	35	70 "	56 "	42 "
15	37 1/2	75 "	60 "	45 "
16	40	80 "	64 "	48 "
17	42 1/2	85 "	68 "	51 "
18	45	90 "	72 "	54 "
19	47 1/2	95 "	76 "	57 "
20	50	100 "	80 "	60 "
21	52 1/2	105 "	84 "	63 "
22	55	110 "	88 "	66 "
23	57 1/2	115 "	92 "	69 "
24	60	120 "	96 "	72 "
25	62 1/2	125 "	100 "	75 "
26	65	130 "	104 "	78 "
27	67 1/2	135 "	108 "	81 "
28	70	140 "	112 "	84 "
29	72 1/2	145 "	116 "	87 "
30	75	150 "	120 "	90 "
31	77 1/2	155 "	124 "	93 "
32	80	160 "	128 "	96 "

## Regular Tappings for Solus Window Radiator.

### ONE-PIPE STEAM.

25 sq. ft. and under	1 "
Over 25 but not to exceed 60 sq. ft.	1 1/4 "
Over 60 but not to exceed 100 sq. ft.	1 1/2 "
Over 100 sq. ft.	2 "

### TWO-PIPE STEAM.

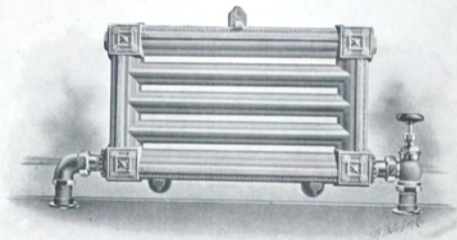
50 sq. ft. and under	1 " by 1/4 "
Over 50 but not to exceed 100 sq. ft.	1 1/4 " by 1 "
Over 100 sq. ft.	1 1/2 " by 1 1/4 "

### WATER.

50 sq. ft. and under	1 " by 1 "
Over 50 but not to exceed 90 sq. ft.	1 1/4 " by 1 1/4 "
Over 90 sq. ft.	1 1/2 " by 1 1/2 "

Distance from floor to centre of opening for water or feed end of two-pipe steam, 2 1/4 inches; from floor to bottom of opening for one-pipe steam or return end of two-pipe steam, 1 1/4 inches.

Width of radiator 11 1/2 inches, width of feet 12 inches. Dimensions given are from outside to outside of tapping bosses.

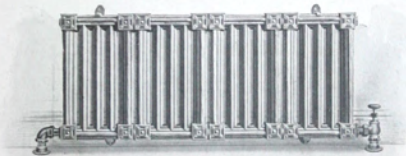


## Imperial Wall Radiator

For sizes of sections and descriptive  
matter see page 27.

PATENTED.

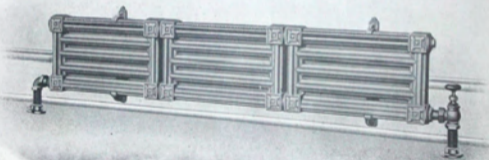




### Imperial Wall Radiator

The above cut represents a number of 22" sections assembled vertically. All sizes can be assembled in this manner. See page 99.

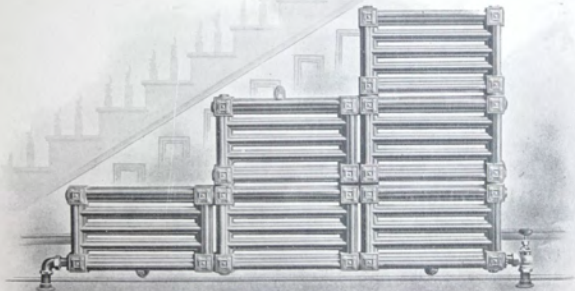
PATENTED.



## Imperial Wall Radiator

The above cut represents the Imperial assembled horizontally. Additional tiers may be placed one above the other by connecting with R. & L. hexagon nipples. See page 27.

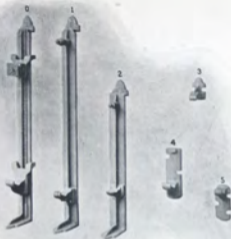
PATENTED.



## **Imperial Stairway Radiator**

The above cut shows the Imperial assembled as a stairway radiator, using 22" sections. With the three sizes of sections we manufacture, radiators of this style can be assembled to suit the pitch of any stairway. An extra charge will be made for radiation assembled in this manner.

PATENTED.



## Special Brackets

**I**N DESIGNING BRACKETS for our Wall Radiators we aimed to provide for every form of assembling with the least possible number of brackets.

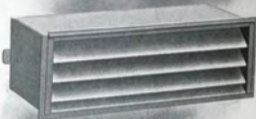
No. 0 Pedestal Bracket is adjustable and can be used for either horizontal or vertical radiators, and adjusts from 1" to 15" from floor to center of opening. With this bracket the coil may be given any desired inclination for drainage; the variation in adjustment being  $\frac{1}{2}$ ".

No. 1 and 2 Floor Brackets are made to support radiators 4" and 6" from floor to center of openings, and are not adjustable.

No. 3 Bracket is to be used in connection with Nos. 4 and 5 for holding top of coil in position.

No. 4 Bracket is to be screwed to wainscoting or baseboard for supporting either horizontal or vertical radiators.

No. 5 Bracket is to be used same as No. 4. It is preferable in many cases for the reason that it can be fastened to the wall after coil is in position.



## Wall Boxes

**I**MPROVED WALL BOXES are made in the following sizes:

No. 1, 5" x 8" inside measurements.

No. 2, 5" x 12" inside measurements.

No. 3, 5" x 16" inside measurements.

These boxes are made in the best possible manner, with storm-proof slats and brass screens, which prevent insects from entering the rooms heated, through the radiator. When used in brick walls they take the place of a certain number of brick without cutting.

## Imperial Wall Radiator

On pages 22, 23, 24 and 25 of this catalog we present representations of the various forms in which our Imperial Wall Radiator can be assembled.

Please paste on page 27 of our 1903 Catalog.

We make the Imperial Wall Radiator in three sizes of sections, as follows, viz:

18 in. x 13 in. contains 5 square feet of surface.

22 in. x 13 in. contains 6 square feet of surface.

28½ in. x 13 in. contains 8 square feet of surface.

All sizes project ¾" from the wall.

All sizes may be assembled in all the different forms represented in this catalog.

When ordering be careful to designate the number of sections required in each radiator, and state whether they are to be assembled vertically or horizontally; also give full tapping instructions, and state whether for steam or water.

Refer to number for style of brackets required

We are prepared to make Imperial Wall Radiator sections in bay windows at the following angles, viz: 11¼°, 33¾°, 45°, 56¼°, 67½°, 78¾°, and 90°. We tap sections so that these special ells may be used for connecting with our regular internal right and left nipples.

radiation has grown so much in favor since first introduced by us that its use is hardly necessary. While it is scarcely a heating appliance. For school rooms, coil, insuring the same results, always, and small rooms

ornamentation, and the construction to be such as we desire to call attention to the fact that we use a firm, rigid, and abiding can be obtained where

