

NIAGARA

Single Column Plain Radiator

Assembled with heavy malleable push nipples

**NIAGARA SINGLE COLUMN PLAIN RADIATORS
FOR STEAM AND WATER**

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET				
		38-in. Height 3 sq. ft. per Sec.	32-in. Height 2½ sq. ft. per Sec.	26-in. Height 2 sq. ft. per Sec.	23-in. Height 1½ sq. ft. per Sec.	20-in. Height 1½ sq. ft. per Sec.
2	5	6	5	4	3⅓	3
3	7½	9	7½	6	5	4½
4	10	12	10	8	6⅔	6
5	12½	15	12½	10	8⅓	7½
6	15	18	15	12	10	9
7	17½	21	17½	14	11⅔	10½
8	20	24	20	16	13⅓	12
9	22½	27	22½	18	15	13½
10	25	30	25	20	16⅔	15
11	27½	33	27½	22	18⅓	16½
12	30	36	30	24	20	18
13	32½	39	32½	26	21⅔	19½
14	35	42	35	28	23⅓	21
15	37½	45	37½	30	25	22½
16	40	48	40	32	26⅔	24
17	42½	51	42½	34	28⅓	25½
18	45	54	45	36	30	27
19	47½	57	47½	38	31⅔	28½
20	50	60	50	40	33⅓	30
21	52½	63	52½	42	35	31½
22	55	66	55	44	36⅔	33
23	57½	69	57½	46	38⅓	34½
24	60	72	60	48	40	36
25	62½	75	62½	50	41⅔	37½
26	65	78	65	52	43⅓	39
27	67½	81	67½	54	45	40½
28	70	84	70	56	46⅔	42
29	72½	87	72½	58	48⅓	43½
30	75	90	75	60	50	45

TAPPINGS: 2 inches and bushed as per regular list.

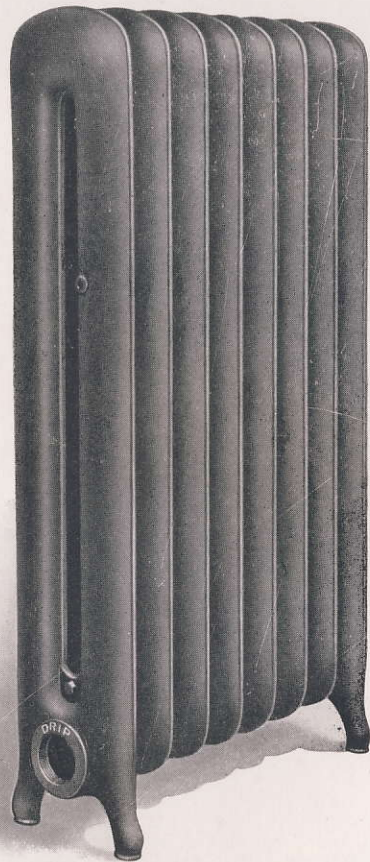
CONNECTIONS: **Water**—Extra heavy malleable slip nipples or right and left threaded nipples at top and bottom; **Steam**—Extra heavy malleable slip nipples or right and left threaded nipples at bottom.

LOW DRIP HUBS: **One Pipe Steam**—On supply leg-section; **Two Pipe Steam**—On return leg-section.

MEASUREMENTS: Each section is 4½ inches wide; width of legs, 5 inches; center of tappings to floor, 4½ inches; excepting low drip hubs, which are 4 inches.

TAPPING LIST: Page 62; roughing-in measurements, page 61.

*Add ½ inch to length for each bushing.



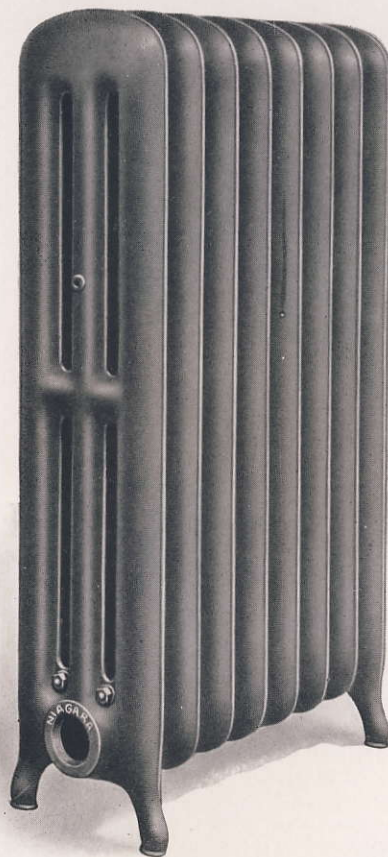
NIAGARA
Two Column Plain Radiator

NIAGARA TWO COLUMN PLAIN RADIATORS
FOR STEAM AND WATER

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET					
		45-in. Height 5 sq. ft. per Sec.	38-in. Height 4 sq. ft. per Sec.	32-in. Height 3¼ sq. ft. per Sec.	26-in. Height 2½ sq. ft. per Sec.	23-in. Height 2¼ sq. ft. per Sec.	20-in. Height 2 sq. ft. per Sec.
2	5	10	8	6⅔	5⅓	4⅔	4
3	7½	15	12	10	8	7	6
4	10	20	16	13⅓	10⅔	9⅓	8
5	12½	25	20	16⅔	13⅓	11⅔	10
6	15	30	24	20	16	14	12
7	17½	35	28	23⅓	18⅔	16⅓	14
8	20	40	32	26⅔	21⅓	18⅔	16
9	22½	45	36	30	24	21	18
10	25	50	40	33⅓	26⅔	23⅓	20
11	27½	55	44	36⅔	29⅓	25⅔	22
12	30	60	48	40	32	28	24
13	32½	65	52	43⅓	34⅔	30⅓	26
14	35	70	56	46⅔	37⅓	32⅔	28
15	37½	75	60	50	40	35	30
16	40	80	64	53⅓	42⅔	37⅓	32
17	42½	85	68	56⅔	45⅓	39⅔	34
18	45	90	72	60	48	42	36
19	47½	95	76	63⅓	50⅔	44⅓	38
20	50	100	80	66⅔	53⅓	46⅔	40
21	52½	105	84	70	56	49	42
22	55	110	88	73⅓	58⅔	51⅓	44
23	57½	115	92	76⅔	61⅓	53⅔	46
24	60	120	96	80	64	56	48
25	62½	125	100	83⅓	66⅔	58⅓	50
26	65	130	104	86⅔	69⅓	60⅔	52
27	67½	135	108	90	72	63	54
28	70	140	112	93⅓	74⅔	65⅓	56
29	72½	145	116	96⅔	77⅓	67⅔	58
30	75	150	120	100	80	70	60

TAPPINGS: 2 inches and bushed as per regular list.
CONNECTIONS: **Water**—Extra heavy malleable slip nipples or right and left threaded nipples at top and bottom; **Steam**—Extra heavy malleable slip nipples or right and left threaded nipples at bottom.
LOW DRIP HUBS: **One Pipe Steam**—On supply leg-section; **Two Pipe Steam**—On return leg-section.
MEASUREMENTS: Each section is 7¾ inches wide; width of legs, 7¼ inches; center of tappings to floor, 4½ inches; excepting low drip hubs which are 4 inches.
TAPPING LIST: Page 62; roughing-in measurements, page 61.

*Add ½ inch to length for each bushing.



NIAGARA
Three Column Plain Radiator

NIAGARA THREE COLUMN PLAIN RADIATORS
FOR STEAM OR WATER

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET					
		45-in. Height 6 sq. ft. per Sec.	38-in. Height 5 sq. ft. per Sec.	32-in. Height 4½ sq. ft. per Sec.	26-in. Height 3¾ sq. ft. per Sec.	22-in. Height 3 sq. ft. per Sec.	18-in. Height 2¼ sq. ft. per Sec.
2	5	12	10	9	7½	6	4½
3	7½	18	15	13½	11¼	9	6¾
4	10	24	20	18	15	12	9
5	12½	30	25	22½	18¾	15	11¼
6	15	36	30	27	22½	18	13½
7	17½	42	35	31½	26¼	21	15¾
8	20	48	40	36	30	24	18
9	22½	54	45	40½	33¾	27	20¼
10	25	60	50	45	37½	30	22½
11	27½	66	55	49½	41¼	33	24¾
12	30	72	60	54	45	36	27
13	32½	78	65	58½	48¾	39	29¼
14	35	84	70	63	52½	42	31½
15	37½	90	75	67½	56¼	45	33¾
16	40	96	80	72	60	48	36
17	42½	102	85	76½	63¾	51	38¼
18	45	108	90	81	67½	54	40½
19	47½	114	95	85½	71¼	57	42¾
20	50	120	100	90	75	60	45
21	52½	126	105	94½	78¾	63	47¼
22	55	132	110	99	82½	66	49½
23	57½	138	115	103½	86¼	69	51¾
24	60	144	120	108	90	72	54
25	62½	150	125	112½	93¾	75	56¼
26	65	156	130	117	97½	78	58½
27	67½	162	135	121½	101¼	81	60¾
28	70	168	140	126	105	84	63
29	72½	174	145	130½	108¾	87	65¼
30	75	180	150	135	112½	90	67½

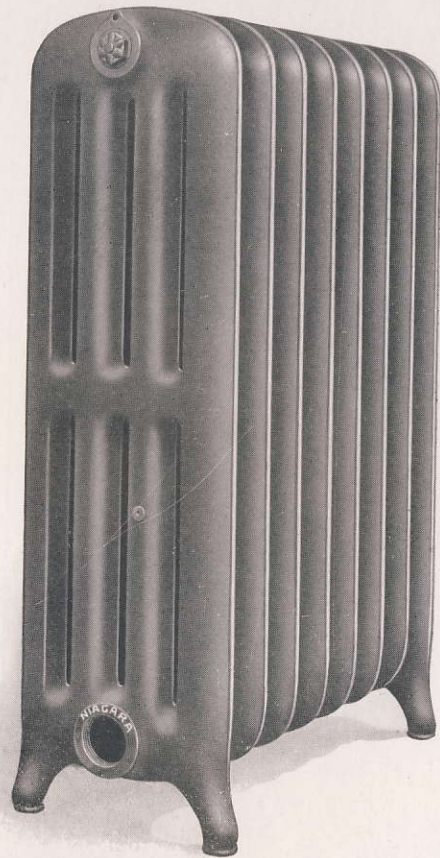
TAPPINGS: 2 inches and bushed as per regular list.
CONNECTIONS: **Water**—Extra heavy malleable slip nipples or right and left threaded nipples at top and bottom; **Steam**—Extra heavy malleable slip nipples or right and left threaded nipples at bottom.

LOW DRIP HUBS: **One Pipe Steam**—On supply leg-section; **Two Pipe Steam**—On return leg-section.

MEASUREMENTS: Each section is 9 inches wide; width of legs, 9½ inches; center of tappings to floor, 4½ inches; excepting low drip hubs which are 4 inches.

TAPPING LIST: Page 62; roughing-in measurements, page 61.

*Add ½ inch to length for each bushing.



NIAGARA

Four Column Plain Radiator

NIAGARA
FOUR COLUMN PLAIN RADIATORS
FOR STEAM OR WATER

No. of Sections	*Length 3-in. per Sec.	HEATING SURFACE—SQUARE FEET					
		45-in. Height 10 sq. ft.	38-in. Height 8 sq. ft.	22-in. Height 6½ sq. ft.	26-in. Height 5 sq. ft.	22-in. Height 4 sq. ft.	18-in. Height 3 sq. ft.
2	6	20	16	13	10	8	6
3	9	30	24	19½	15	12	9
4	12	40	32	26	20	16	12
5	15	50	40	32½	25	20	15
6	18	60	48	39	30	24	18
7	21	70	56	45½	35	28	21
8	24	80	64	52	40	32	24
9	27	90	72	58½	45	36	27
10	30	100	80	65	50	40	30
11	33	110	88	71½	55	44	33
12	36	120	96	78	60	48	36
13	39	130	104	84½	65	52	39
14	42	140	112	91	70	56	42
15	45	150	120	97½	75	60	45
16	48	160	128	104	80	64	48
17	51	170	136	110½	85	68	51
18	54	180	144	117	90	72	54
19	57	190	152	123½	95	76	57
20	60	200	160	130	100	80	60
21	63	210	168	136½	105	84	63
22	66	220	176	143	110	88	66
23	69	230	184	149½	115	92	69
24	72	240	192	156	120	96	72
25	75	250	200	162½	125	100	75
26	78	260	208	169	130	104	78
27	81	270	216	175½	135	108	81
28	84	280	224	182	140	112	84
29	87	290	232	188½	145	116	87
30	90	300	240	195	150	120	90

TAPPINGS: 2 inches and bushed as per regular list.

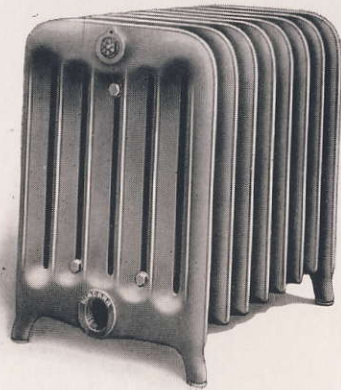
CONNECTIONS: Both Water and Steam—Extra-heavy malleable slip nipples or right and left threaded nipples at top and bottom.

DRIP HUBS: Not made in this pattern. Eccentric bushings furnished when ordered for steam.

MEASUREMENTS: Each section is 11½ inches wide; width of legs, 12 inches; center of tappings to floor, 4½ inches.

TAPPING LIST: Page 62; roughing-in measurements, page 61.

*Add ½ inch to length for each bushing.



NIAGARA

Six Column Plain Radiator.

This pattern conforms to our line of Plain Radiators and is made to take the place of the Six Column Colonial.

NIAGARA SIX COLUMN PLAIN RADIATORS
FOR STEAM AND WATER

Number of Sections	*Length 3 Inches per Section	HEATING SURFACE—SQUARE FEET		
		20-Inch Height 6 Square Feet per Section	17-Inch Height 5 Square Feet per Section	14-Inch Height 4 Square Feet per Section
2	6	12	10	8
3	9	18	15	12
4	12	24	20	16
5	15	30	25	20
6	18	36	30	24
7	21	42	35	28
8	24	48	40	32
9	27	54	45	36
10	30	60	50	40
11	33	66	55	44
12	36	72	60	48
13	39	78	65	52
14	42	84	70	56
15	45	90	75	60
16	48	96	80	64
17	51	102	85	68
18	54	108	90	72
19	57	114	95	76
20	60	120	100	80
21	63	126	105	84
22	66	132	110	88
23	69	138	115	92
24	72	144	120	96
25	75	150	125	100
26	78	156	130	104
27	81	162	135	108
28	84	168	140	112
29	87	174	145	116
30	90	180	150	120

TAPPINGS: 2 inches and bushed as per regular list.

CONNECTIONS: **Water**—Extra heavy malleable slip nipples or right and left threaded nipples at top and bottom; **Steam**—Extra heavy malleable slip nipples or right and left threaded nipples at bottom.

LOW DRIP HUBS: Not made in this pattern. Eccentric bushings furnished for steam.

MEASUREMENTS: Each section is 13½ inches wide over all. Center of tappings to floor, 3 inches.

SPECIAL HEIGHTS: This pattern can be made with legs to make 16-inch, 18-inch and 22-inch radiators.

TAPPING LIST: Page 62; roughing-in measurements, page 61.

*Add ½ inch to length for each bushing.



TRIUMPH
Two Column Radiator

TRIUMPH TWO COLUMN RADIATORS
FOR STEAM AND WATER

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET					
		45-in. Height 5 sq. ft. per Sec.	38-in. Height 4 sq. ft. per Sec.	32-in. Height 3½ sq. ft. per Sec.	26-in. Height 2½ sq. ft. per Sec.	23-in. Height 2½ sq. ft. per Sec.	20-in. Height 2 sq. ft. per Sec.
2	5	10	8	6 ² / ₃	5 ¹ / ₃	4 ² / ₃	4
3	7½	15	12	10	8	7	6
4	10	20	16	13 ¹ / ₃	10 ² / ₃	9 ¹ / ₃	8
5	12½	25	20	16 ² / ₃	13 ¹ / ₃	11 ² / ₃	10
6	15	30	24	20	16	14	12
7	17½	35	28	23 ¹ / ₃	18 ² / ₃	16 ¹ / ₃	14
8	20	40	32	26 ² / ₃	21 ¹ / ₃	18 ² / ₃	16
9	22½	45	36	30	24	21	18
10	25	50	40	33 ¹ / ₃	26 ² / ₃	23 ¹ / ₃	20
11	27½	55	44	36 ² / ₃	29 ¹ / ₃	25 ² / ₃	22
12	30	60	48	40	32	28	24
13	32½	65	52	43 ¹ / ₃	34 ² / ₃	30 ¹ / ₃	26
14	35	70	56	46 ² / ₃	37 ¹ / ₃	32 ² / ₃	28
15	37½	75	60	50	40	35	30
16	40	80	64	53 ¹ / ₃	42 ² / ₃	37 ¹ / ₃	32
17	42½	85	68	56 ² / ₃	45 ¹ / ₃	39 ² / ₃	34
18	45	90	72	60	48	42	36
19	47½	95	76	63 ¹ / ₃	50 ² / ₃	44 ¹ / ₃	38
20	50	100	80	66 ² / ₃	53 ¹ / ₃	46 ² / ₃	40
21	52½	105	84	70	56	49	42
22	55	110	88	73 ¹ / ₃	58 ² / ₃	51 ¹ / ₃	44
23	57½	115	92	76 ² / ₃	61 ¹ / ₃	53 ² / ₃	46
24	60	120	96	80	64	56	48
25	62½	125	100	83 ¹ / ₃	66 ² / ₃	58 ¹ / ₃	50
26	65	130	104	86 ² / ₃	69 ¹ / ₃	60 ² / ₃	52
27	67½	135	108	90	72	63	54
28	70	140	112	93 ¹ / ₃	74 ² / ₃	65 ¹ / ₃	56
29	72½	145	116	96 ² / ₃	77 ¹ / ₃	67 ² / ₃	58
30	75	150	120	100	80	70	60

TAPPINGS: ½ inch and bushed as per regular list.

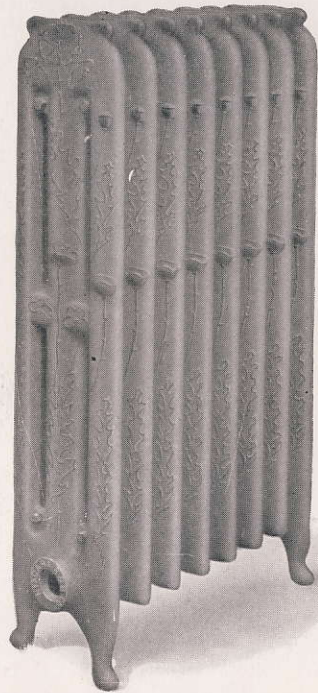
CONNECTIONS: **Water**—Extra heavy malleable slip nipples at top and bottom; **Steam**—Extra-heavy malleable slip nipples at bottom.

DRIP HUBS: Not furnished in this pattern. Eccentric bushings used for steam.

MEASUREMENTS: Each section is 7½ inches wide over all. Center of tappings to floor, 5 inches.

TAPPING LIST: Page 62; roughing-in measurements, page 51.

*Add ½ inch to length for each bushing.



TRIUMPH

Three Column Radiator

TRIUMPH
THREE COLUMN RADIATORS
FOR STEAM AND WATER

No. of Sections	*Length 2½-in. per Sec.	HEATING SURFACE—SQUARE FEET					
		44-in. Height 6 sq. ft. per Sec.	38-in. Height 5 sq. ft. per Sec.	32-in. Height 4½ sq. ft. per Sec.	26-in. Height 3¾ sq. ft. per Sec.	23-in. Height 3¼ sq. ft. per Sec.	20-in. Height 2¾ sq. ft. per Sec.
2	5	12	10	9	7½	6½	5½
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	30¼
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	41¼
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	60½
23	57½	138	115	103½	86¼	74¾	63¼
24	60	144	120	108	90	78	66
25	62½	150	125	112½	93¾	81¼	68¾
26	65	156	130	117	97½	84½	71½
27	67½	162	135	121½	101¼	87¾	74¼
28	70	168	140	126	105	91	77
29	72½	174	145	130½	108¾	94¼	79¾
30	75	180	150	135	112½	97½	82½

TAPPINGS: 1½ inches and bushed as per regular list.

CONNECTIONS: Water—Extra-heavy malleable slip nipples at top and bottom. Steam—Extra-heavy malleable slip nipples at bottom.

DRIP HUBS: Not furnished in this pattern. Eccentric bushings used for steam.

MEASUREMENTS: Each section is 9 inches wide over all. Center of tappings to floor, 5¼ inches.

TAPPING LIST: Page 62; roughing-in measurements, page 51.

*Add ½ inch to length for each bushing.

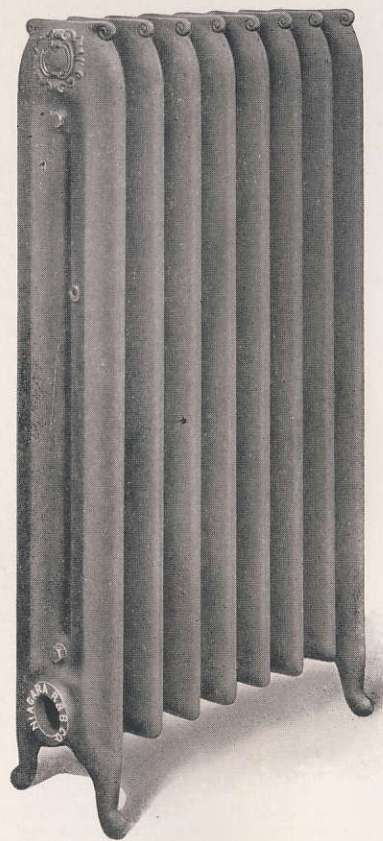


TRIUMPH
Four Column Radiator

TRIUMPH
FOUR COLUMN RADIATORS
FOR STEAM AND WATER

No. of Sections	*Length 3-in. per Sec.	HEATING SURFACE—SQUARE FEET					
		45-in. Height 10 sq. ft. per Sec.	38-in. Height 8 sq. ft. per Sec.	32-in. Height 6½ sq. ft. per Sec.	26-in. Height 5 sq. ft. per Sec.	22-in. Height 4 sq. ft. per Sec.	18-in. Height 3 sq. ft. per Sec.
2	6	20	16	13	10	8	6
3	9	30	24	19½	15	12	9
4	12	40	32	26½	20	16	12
5	15	50	40	32½	25	20	15
6	18	60	48	39	30	24	18
7	21	70	56	45½	35	28	21
8	24	80	64	52	40	32	24
9	27	90	72	58½	45	36	27
10	30	100	80	65	50	40	30
11	33	110	88	71½	55	44	33
12	36	120	96	78	60	48	36
13	39	130	104	84½	65	52	39
14	42	140	112	91	70	56	42
15	45	150	120	97½	75	60	45
16	48	160	128	104	80	64	48
17	51	170	136	110½	85	68	51
18	54	180	144	117	90	72	54
19	57	190	152	123½	95	76	57
20	60	200	160	130	100	80	60
21	63	210	168	136½	105	84	63
22	66	220	176	143	110	88	66
23	69	230	184	149½	115	92	69
24	72	240	192	156	120	96	72
25	75	250	200	162½	125	100	75
26	78	260	208	169	130	104	78
27	81	270	216	175½	135	108	81
28	84	280	224	182	140	112	84
29	87	290	232	188½	145	116	87
30	90	300	240	195	150	120	90

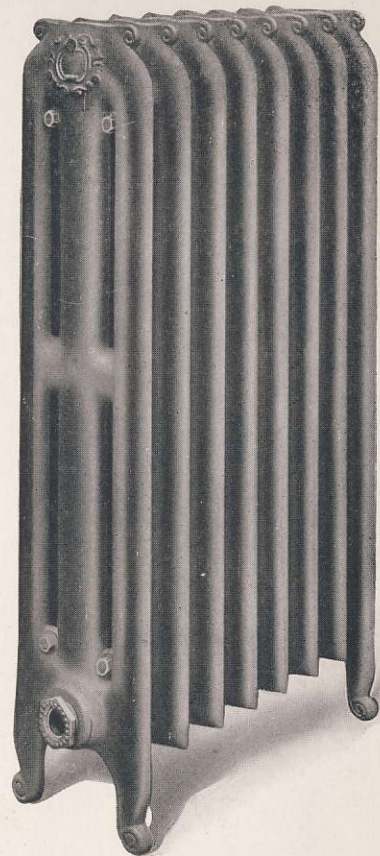
TAPPINGS: 2 inches and bushed as per regular list.
CONNECTIONS: Both Steam and Water—Extra-heavy malleable slip nipples at top and bottom.
DRIP HUBS: Not furnished in this pattern. Eccentric bushings used for steam.
MEASUREMENTS: Each section is 11 inches wide over all. Center of tappings to floor, 5 inches.
TAPPING LIST: Page 62; roughing-in measurements, page 51.
 *Add ½ inch to length for each bushing.



NIRAD

Two Column Radiator

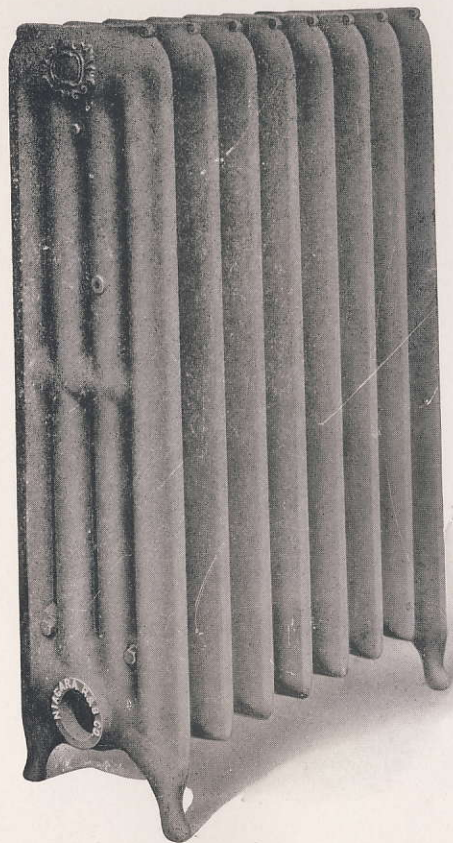
For sizes and heating surfaces see page 43.
For roughing-in measurements see page 62.



NIRAD

Three Column Radiator

For sizes and heating surfaces see page 45.
For roughing-in measurements see page 62.

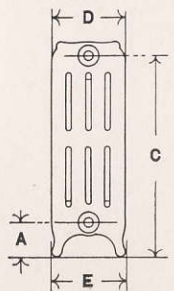
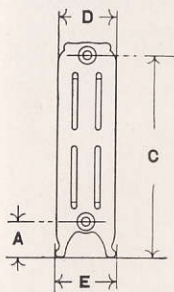
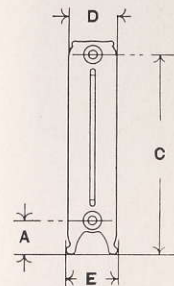


NIRAD
Four Column Radiator

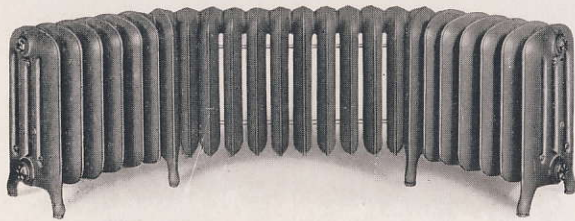
For sizes and heating surfaces see page 47.
For roughing-in measurements see page 62.

TRIUMPH AND NIRAD
ROUGHING-IN MEASUREMENTS
FOR STEAM AND WATER

Measurements are in Inches

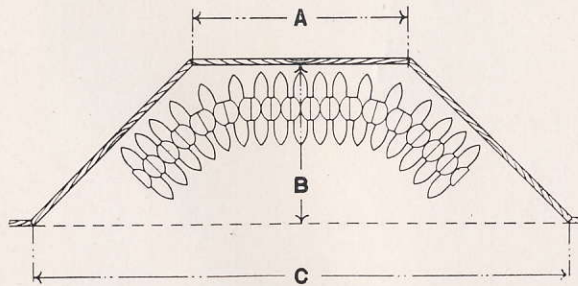


Radiator	Height	A	C	D and E
		Floor to Center of Tapping Straight Hub for Water and Supply on Two-pipe Steam	Floor to Center of Top Tapping for Water	Width of Section and Width at Feet
Two Column Length of Section in Stack 2 1/2 inches	20	5	18 1/16	7 3/8
	23	5	20 15/16	7 3/8
	26	5	24	7 3/8
	32	5	29 15/16	7 3/8
	38	5	36 1/8	7 3/8
45	5	42 15/16	7 3/8	
Three Column Length of Section in Stack 2 1/2 inches	20	5 1/4	18 5/16	8 5/8
	23	5 1/4	20 3/8	8 5/8
	26	5 1/4	23 9/16	8 5/8
	32	5 1/4	29 5/8	8 5/8
	38	5 1/4	35 7/16	8 5/8
44	5 1/4	41 7/16	8 5/8	
Four Column Length of Section in Stack 3 inches	18	5	16 1/8	11 1/8
	22	5	19 15/16	11 1/8
	26	5	24	11 1/8
	32	5	29 15/16	11 1/8
	38	5	36	11 1/8
45	5	42 15/16	11 1/8	

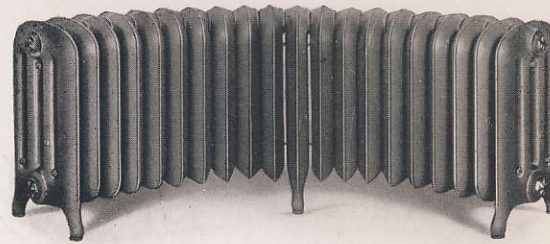


NIAGARA
Bay Window Radiators

Bay Window Radiators may be assembled in any desired size and for any desired angle. In ordering, specify the size of radiator required (either in number of sections or in feet of surface) and the dimensions "A," "B" and "C."

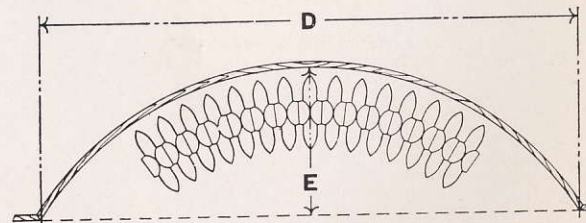


Bay Window Radiators can be made in all heights and patterns for Steam or Water.

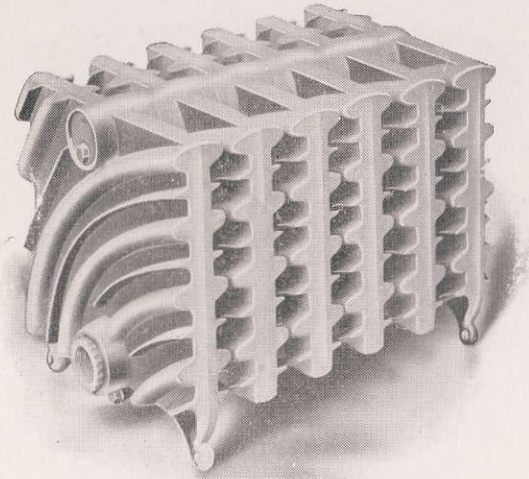


NIAGARA
Curved Radiators.

Curved Radiators may be assembled in any desired size or for any desired radius. In ordering, specify the size of radiator required (either in number of sections or in feet of surface), and the dimensions "D" and "E."



Curved Radiators can be made in all heights and patterns for Steam or Water.



NIAGARA

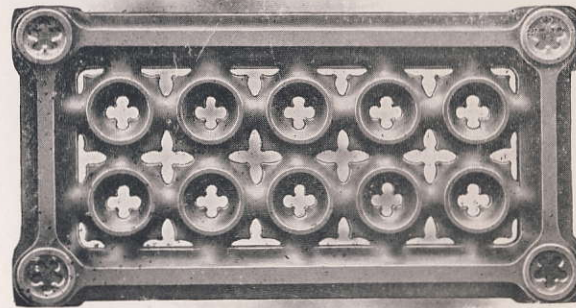
Window Seat Radiator

Patented July 18, 1899

Special attention is called to this, the only efficient Window Seat Radiator on the market. By the ingenious construction of the flues between the loops, the heated air is forced out into the room; keeping up a constant circulation; and it is the only Seat Radiator that can be relied upon to heat up to its rating.

The design gives the front the appearance of a grill when the radiator is installed.

NIAGARA WALL RADIATOR'S

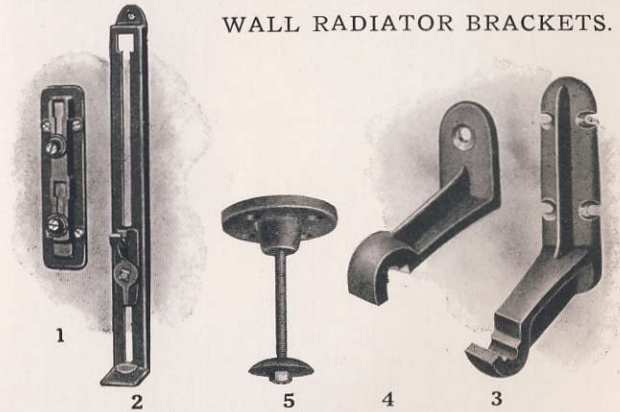


DIMENSIONS

	Length	Width	Thickness
9 ft. Section	27 in.	14 $\frac{1}{4}$ in.	3 $\frac{1}{8}$ in.
7 ft. Section	22 $\frac{1}{2}$ in.	14 $\frac{1}{4}$ in.	3 $\frac{1}{8}$ in.

Made in Horizontal and Vertical Sections for Steam or Water.

WALL RADIATOR BRACKETS.



Bracket No. 1 is adjustable, without foot.
 No. 2 is adjustable, with foot, to be used where No. 1 cannot be screwed into wooden cleats fastened to the wall.
 Nos. 3 and 4, top and bottom hooks are not adjustable.
 No. 5 Ceiling Bracket (give distance wanted between ceiling and radiator).

ORDERING WALL RADIATORS

1. Give number of 7 or 9-foot sections in each radiator.
2. How assembled, horizontal or vertical.
3. State whether for Water or for one or two-pipe Steam.
4. Number and kind of brackets.

Assembling.

Niagara Wall Radiators are assembled with malleable iron slip nipples and shipped as follows:

Seven and nine-foot horizontal sections are not assembled in radiators over four sections each.

Seven and nine-foot vertical sections are not assembled in radiators over six sections each.

When longer radiators than above are ordered, they will be shipped in units to make size, and connected on the job with right and left hand threaded hexagon center nipples which we furnish.

Tappings.

All tappings are 1½ inch, right and left.

Send sketch for special radiators and be sure to give us exact location of tappings required.

NIAGARA

Box-Base Measurements

ONE COLUMN BOX BASES											
Rear Opening			Bottom Opening			Rear Opening			Bottom Opening		
No.	Width	Length	No.	Width	Length	No.	Width	Length	No.	Width	Length
5-1R	2¾	5¼	11-1R	2¾	20¼	5-1B	3	5	11-1B	3	20
6-1R	2¾	7¾	12-1R	2¾	22¾	6-1B	3	7½	12-1B	3	22½
7-1R	2¾	10¼	13-1R	2¾	25¼	7-1B	3	10	13-1B	3	25
8-1R	2¾	12¾	14-1R	2¾	27¾	8-1B	3	12½	14-1B	3	27½
9-1R	2¾	15¼	15-1R	2¾	30¼	9-1B	3	15	15-1B	3	30
10-1R	2¾	17¾				10-1B	3	17½			

TWO COLUMN BOX BASES						THREE COLUMN BOX BASES					
Rear Opening			Bottom Opening			Rear Opening			Bottom Opening		
No.	Width	Length	No.	Width	Length	No.	Width	Length	No.	Width	Length
5-2R	2¾	5¼	5-2B	3½	5	5-3R	2¾	5¼	5-3B	3½	5
6-2R	2¾	7¾	6-2B	3½	7½	6-3R	2¾	7¾	6-3B	3½	7½
7-2R	2¾	10¼	7-2B	3½	10	7-3R	2¾	10¼	7-3B	3½	10
8-2R	2¾	12¾	8-2B	3½	12½	8-3R	2¾	12¾	8-3B	3½	12½
9-2R	2¾	15¼	9-2B	3½	15	9-3R	2¾	15¼	9-3B	3½	15
10-2R	2¾	17¾	10-2B	3½	17½	10-3R	2¾	17¾	10-3B	3½	17½
11-2R	2¾	20¼	11-2B	3½	20	11-3R	2¾	20¼	11-3B	3½	20
12-2R	2¾	22¾	12-2B	3½	22½	12-3R	2¾	22¾	12-3B	3½	22½
13-2R	2¾	25¼	13-2B	3½	25	13-3R	2¾	25¼	13-3B	3½	25
14-2R	2¾	27¾	14-2B	3½	27½	14-3R	2¾	27¾	14-3B	3½	27½
15-2R	2¾	30¼	15-2B	3½	30	15-3R	2¾	30¼	15-3B	3½	30

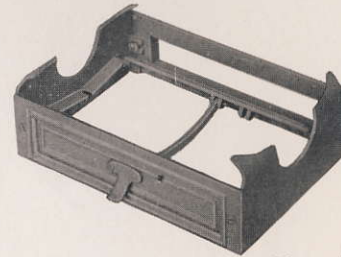
NIAGARA

PORTABLE VENTILATING BOX BASE FOR DIRECT-INDIRECT RADIATORS

In this interchangeable base, the dampers work with reversible action, so that when the front damper is open, the back damper is closed and vice versa. When the front damper is open, the air is taken from the room, whereas when the rear damper is open, the air is brought in from outside.

When the air is to be brought through the floor we change the movement of the air-shutters and place a baffle plate in the box. By this method we eliminate the use of a damper in the floor.

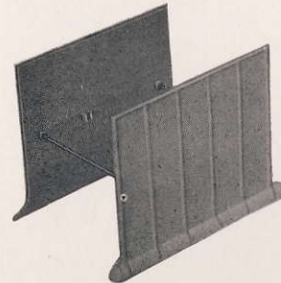
Orders should always specify whether the bases are desired with regular inlet collar in the rear or for inlet to come through the floor.



Illustrating Box Base for taking air through the rear inlet collar



View of Box Base for taking air through floor

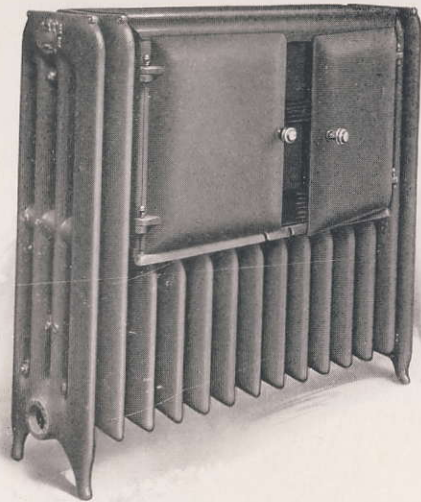


Apron for Box Bases

The two aprons which are adjusted to the front and back of the radiator, on top of the base, are held in place by bolts running through the center.

Sizes and measurements on page 56.

Prices on application.



NIAGARA

Dining Room Radiators

Cut Shows BB

Made from 38" and 18" 4 Column Nirad Water Sections, Steam or Water.

Number	Length	Heating Surface
AA	36	46
BB	42	62
CC	48	78
DD	54	94
EE	60	110
FF	66	126

These radiators are tapped 2 inches and bushed as per list on page 62.

For estimating length, allow 1/2 inch for each bushing.

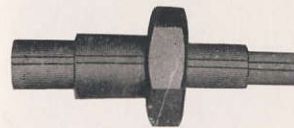


NIAGARA

Radiator Sundries

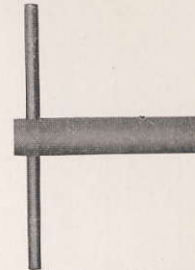
PEDESTALS

Solid cast-iron pedestals can be furnished for placing under legs of all styles of our radiators and are made in the following heights: 1/2, 7/8, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2 and 5 inches.



Spud Wrench

This tool is most convenient for connecting up Union Radiator Valves or Union Elbows. Price, each, 75 cts.



Socket Wrenches.

For 3/8 Hexagon Nuts.

Price, each, 60 cts.



Niagara Nipple Wrench

For connecting stacks of Niagara Wall with 1 1/2-inch right and left threaded hexagon center nipples. Price, each, \$2.50.



Niagara Radiator Wrenches

Made to fit all Niagara Radiator screw nipples which have two lugs on inside, so that flattened end of wrench can be applied and the nipple unscrewed or tightened. Price, each, \$2.50.

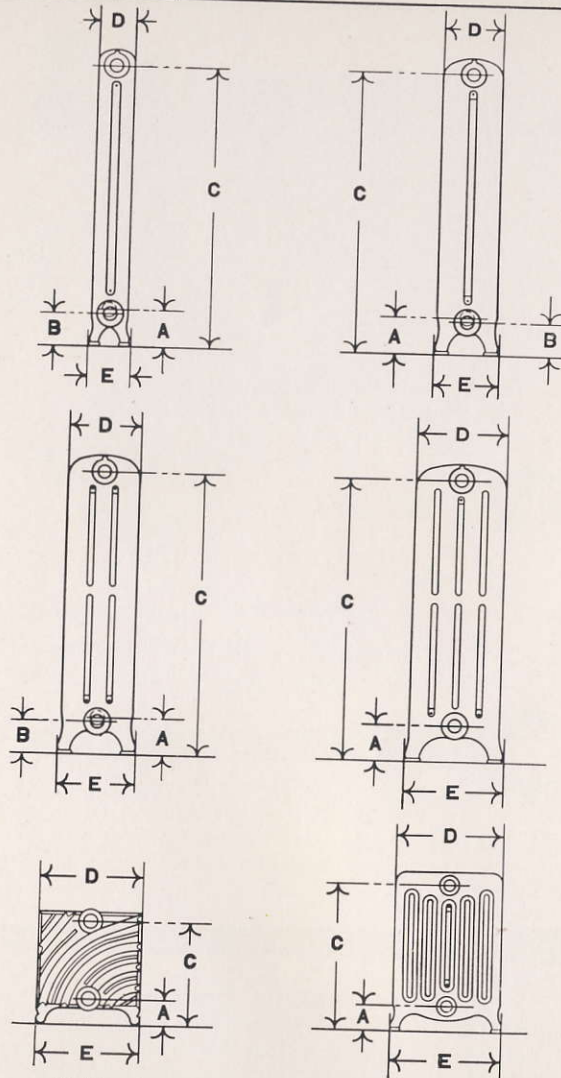


Table of measurements on opposite page

NIAGARA
ROUGHING-IN MEASUREMENTS
FOR STEAM AND WATER

Measurements are in Inches See opposite page

Radiator	Height	A	B	C	D	E
		Floor to Center of Lower Tapping Straight Hub for Hot Water and Supply on Two-Pipe Steam	Floor to Center of Lower Tapping Drip Hub for One-Pipe Steam or Return on Two-Pipe Steam	Floor to Center of Top Tapping Straight Hub for Water	Width of Section	Width at Feet
Niagara Single Column	20	4 1/2	4	17 1/4	4 1/2	5
	23	4 1/2	4	20 1/4	4 1/2	5
	26	4 1/2	4	23 1/4	4 1/2	5
	32	4 1/2	4	29 1/4	4 1/2	5
	38	4 1/2	4	35 1/4	4 1/2	5
Niagara Two Column	20	4 1/2	4	17 1/4	7 3/8	7 3/4
	23	4 1/2	4	20 1/4	7 3/8	7 3/4
	26	4 1/2	4	23 1/4	7 3/8	7 3/4
	32	4 1/2	4	29 1/4	7 3/8	7 3/4
	38	4 1/2	4	35 1/4	7 3/8	7 3/4
	45	4 1/2	4	42 1/4	7 3/8	7 3/4
Niagara Three Column	18	4 1/2	4	15 1/4	9	9 1/2
	22	4 1/2	4	19 1/4	9	9 1/2
	26	4 1/2	4	23 1/4	9	9 1/2
	32	4 1/2	4	29 1/4	9	9 1/2
	38	4 1/2	4	35 1/4	9	9 1/2
	45	4 1/2	4	42 1/4	9	9 1/2
Niagara Four Column	18	4 1/2	Not Made with Drip Hub	15 1/4	11 1/2	12
	22	4 1/2	Not Made with Drip Hub	19 1/4	11 1/2	12
	26	4 1/2	Not Made with Drip Hub	23 1/4	11 1/2	12
	32	4 1/2	Not Made with Drip Hub	29 1/4	11 1/2	12
	38	4 1/2	Not Made with Drip Hub	35 1/4	11 1/2	12
	45	4 1/2	Not Made with Drip Hub	42 1/4	11 1/2	12
Niagara Six Column	14	3	Not Made with Drip Hub	12 1/4	13	13 1/4
	17	3	Not Made with Drip Hub	15 1/4	13	13 1/4
	20	3	Not Made with Drip Hub	18 1/4	13	13 1/4
Niagara Window Seat	14	3	Not Made with Drip Hub	13	13	13