TABLE 1. COLUMN-TYPE CAST-IRON RADIATOR

Height Inches	Generally Accepted Rating per Section[a]					
	One Column		Two Column		Three Column	
	Sq Ft	Btu/hr	Sq Ft	Btu/hr	Sq Ft	Btu/hr
15			1½	360		
18					2¼	540
20	1½	360	2	480		
22			2¼	540	3	720
23	1⅝	400	2⅓	560		
26	2	480	2⅔	640	3¾	900
32	2½	600	3⅓	800	4½	1080
38	3	720	4	960	5	1200
45			5	1200	6	1440
	Four Column		Five Column		Six column	
	Sq Ft	Btu/hr	Sq Ft	Btu/hr	Sq Ft	Btu/hr
13					3	720
16					3¾	900
18	3	720	4⅔	1120	4½	1080
20					5	1200
22	4	960				
26	5	1200	7	1680		
32	6½	1560				
38	8	1920	10	2400		
45	10	2400				

[a] These ratings are based on steam at 215 F and air at 70 F. They apply only to installed radiators exposed in a normal manner; not to radiators installed behind enclosures, grilles, or under shelves For Btu per hour ratings at other temperatures, divide table values by factors found in Table 6.

TABLE 2. LARGE-TUBE CAST-IRON RADIATORS

Sectional, cast-iron, tubular-type radiators of the large-tube pattern, that is, having tubes approximately 1¼ in. in diameter, 2½ in. on centers.

Number of Tubes per Section	Catalog Rating per Section[a]		Height	Width	Section Center Spacing[b]	Leg Height[c] To Tapping
	Sq Ft	Btu/hr	In.	In.	In.	In.
3	1¾	420	20	4⅛	2½	4½
	2	480	23		2½	4½
	2½	560	26		2½	4½
	3	720	32		2½	4½
	3½	840	38		2½	4½
4	2¼	540	20	6¼–6$^{13}/_{16}$	2½	4½
	2½	600	23		2½	4½
	2¾	660	26		2½	4½
	3½	840	32		2½	4½
	4¼	1020	38		2½	4½
5	2½	640	20	8–8$^{15}/_{16}$	2½[d]	4½
	3	720	23		2½[d]	4½
	3½	840	26		2½[d]	4½
	4½	1040	32		2½[d]	4½
	5	1200	38		2½[d]	4½
6	3	720	20	9–10⅜	2½	4½
	3½	840	23		2½	4½
	4	960	26		2½	4½
	5	1200	32		2½	4½
	6	1440	38		2½	4½
7	2½	600	14	11⅜–12$^{13}/_{16}$	2½	3
	3	720	17		2½	3
	3½	880	20		2½	3 or 4½

[a] These ratings are based on steam at 215 F and air at 70 F. They apply only to installed radiators exposed in a normal manner; not to radiators installed behind enclosures, grilles, or under shelves. For Btu per hour ratings at other temperatures, divide table values by factors found in Table 6.

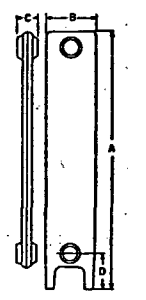
[b] Maximum assembly 60 sections. Length equals number of sections times 2½ in.

[c] Where greater than standard leg heights are required, this dimension shall be 6 in., except for 7-tube sections, in heights from 13 to 20 in., inclusive, for which this dimension shall be 4½ in. Radiators may be furnished without legs.

[d] For 5-tube hospital-type radiation, this dimension is 3 in.

TABLE 3. SMALL-TUBE CAST-IRON RADIATORS

Number of Tubes per Section	Catalog Rating per Section[a]		Section Dimensions				
			A	*B* Width		*C*	*D*
			Height[c]	Minimum	Maximum	Spacing[b]	Leg Height[c]
	Sq Ft	Btu/hr	In.	In.	In.	In.	In.
3[d]	1.6	384	25	3¼	3½	1¾	2½
4[d]	1.6	384	19	4$^{7}/_{16}$	4$^{13}/_{16}$	1¾	2½
	1.8	432	22	4$^{7}/_{16}$	4$^{13}/_{16}$	1¾	2½
	2.0	480	25	4$^{7}/_{16}$	4$^{13}/_{16}$	1¾	2½
5[d]	2.1	504	22	5⅝	6$^{5}/_{16}$	1¾	2½
	2.4	576	25	5⅝	6$^{5}/_{16}$	1¾	2½
6[d]	2.3	552	19	6$^{13}/_{16}$	8	1¾	2½
	3.0	720	25	6$^{13}/_{16}$	8	1¾	2½
	3.7	888	32	6$^{13}/_{16}$	8	1¾	2½



[a] These ratings are based on steam at 215 F and air at 70 F. They apply only to installed radiators exposed in a normal manner; not to radiators installed behind enclosures, grilles, or under shelves. For Btu per hour ratings at other temperatures, divide table values by factors found in Table 6.

[b] Length equals number of sections times 1¾ in.

[c] Overall height and leg height, as produced by some manufacturers, are one inch (1 in.) greater than shown in Columns *A* and *D*. Radiators may be furnished without legs. Where greater than standard leg heights are required this dimension shall be 4½ in.

[d] Or equal.

RADIATORS

Column and large-tube radiators are no longer manufactured, but since many of these units are still in use, Tables 1 and 2 are included to provide principal dimensions and average ratings of them.

The small-tube type radiators, with a spacing of 1¾ in. per section, are about the only available cast-iron radiating surface for homes and office buildings. Small-tube radiators occupy less space than the older column and large-tube radiators, and are particularly suited for installation in recesses.

After a study of the demand for various sizes of radiators, the *Institute of Boiler and Radiator Manufacturers*, in cooperation with the Division of Simplified Practice, *National Bureau of Standards*, established Simplified Practice Recommendation R174-47 for small-tube cast-iron radiators. Table 3 shows the size and dimensions now being manufactured.

Wall radiators are hung from wall brackets and are well adapted to use

TABLE 4. CAST-IRON WALL RADIATORS

Approximate Dimensions—Inches			Heat Output[a]	
Height	Length or Width	Thickness	Sq Ft	Btu/hr
13¼	16½	3	6½	1560
13¼	22	3	8	1920
22	13¼	3	8	1920
13¼	29	3	11	2640
29	13¼	3	11	2640

[a] These ratings are based on steam at 215 F and air at 70 F. They apply only to installed radiators exposed in a normal manner, not to radiators installed behind enclosures, grilles, or under shelves. For Btu per hour ratings at other temperatures divide table values by factors found in Table 6.