

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			2	480	2½	540
20	1½	360	2½	540	3	720
22			2½	560		
23	1½	400				
26	2	480	2¾	640	3¾	900
32	2½	600	3½	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	4¾	1120	4½	1080
20					5	1200
22	4	960				
26	5	1200				
32	6½	1560	7	1680		
38	8	1920				
45	10	2400	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 1½ in. in diameter, 2½ in. on centers.

NUMBER OF TUBES PER SECTION	CATALOG RATING PER SECTION ^a		HEIGHT In.	WIDTH In.	SECTION CENTER SPACING ^b In.	LEG HEIGHT ^c TO TAPPING In.
	Sq Ft	Btu/hr				
3	1¾	420	20		2½	4½
	2	480	23		2½	4½
	2½	560	26	4¾	2½	4½
	3	720	32		2½	4½
	3½	840	38		2½	4½
4	2¼	540	20		2½	4½
	2½	600	23		2½	4½
	2¾	660	26	6¼-6½	2½	4½
	3¼	840	32		2½	4½
	4¼	1020	38		2½	4½
5	2¾	640	20		2½ ^d	4½
	3	720	23		2½ ^d	4½
	3½	840	26	8-8½	2½ ^d	4½
	4½	1040	32		2½ ^d	4½
	5	1200	38		2½ ^d	4½
6	3	720	20		2½	4½
	3½	840	23		2½	4½
	4	960	26	9-10½	2½	4½
	5	1200	32		2½	4½
	6	1440	38		2½	4½
7	2½	600	14		2½	3
	3	720	17		2½	3
	3¾	880	20	11½-12½	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.

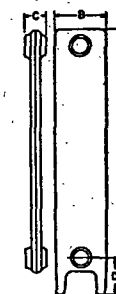
^c Where greater than standard leg heights are required, this dimension shall be 6 in., except for 7-tube sections, in heights from 13 to 20 in., inclusive, for which this dimension shall be 4½ in. Radiators may be furnished without legs.

^d For 6-tube hospital-type radiation, this dimension is 3 in.

Radiators and Convectors

TABLE 3. SMALL-TUBE CAST-IRON RADIATORS

NUMBER OF TUBES PER SECTION	CATALOG RATING PER SECTION ^a		SECTION DIMENSIONS				
			A Height ^c	B Width		C Spacing ^b	D Leg Height ^c
				Minimum	Maximum		
	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	4¼	4½	1¾	2½
	1.8	432	22	4¼	4½	1¾	2½
	2.0	480	25	4¼	4½	1¾	2½
5 ^d	2.1	504	22	5½	6½	1¾	2½
	2.4	576	25	5½	6½	1¾	2½
6 ^d	2.3	552	19	6¼	8	1¾	2½
	3.0	720	25	6¼	8	1¾	2½
	3.7	888	32	6¼	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 1½ 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 1½ 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	6	1820
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.