

HEATING VENTILATING AIR CONDITIONING GUIDE 1942

TABLE 1. SIZES—LARGE-TUBE CAST-IRON RADIATORS

Sectional, cast-iron, tubular-type radiators of the large-tube pattern, that is, having tubes approximately 1 3/8 in. in diameter

NUMBER OF TUBES PER SECTION	CATALOG RATING PER SECTION ^a	SECTION DIMENSIONS ^b					RADIATOR LENGTH (SECTIONS PER RADIATOR) ^d
		A Height	B Width		C Spacing	D Leg Height ^c	
			Minimum	Maximum			
	Sq Ft	In.	In.	In.	In.	In.	
4	2 $\frac{1}{2}$	23	6 $\frac{1}{4}$	6 $\frac{13}{16}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	As Required Do Do Do
	2 $\frac{3}{4}$	26	6 $\frac{1}{4}$	6 $\frac{13}{16}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	
	3 $\frac{1}{2}$	32 ^e	6 $\frac{1}{4}$	6 $\frac{13}{16}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	
	4 $\frac{1}{4}$	38 ^f	6 $\frac{1}{4}$	6 $\frac{13}{16}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	
5	2 $\frac{3}{8}$	20	8	8 $\frac{9}{16}$	2 $\frac{1}{2}$ ^h	4 $\frac{1}{2}$	Do
	3	23	8	8 $\frac{9}{16}$	2 $\frac{1}{2}$ ^h	4 $\frac{1}{2}$	Do
	3 $\frac{1}{2}$	26	8	8 $\frac{9}{16}$	2 $\frac{1}{2}$ ^h	4 $\frac{1}{2}$	Do
	4 $\frac{1}{3}$	32 ^e	8	8 $\frac{9}{16}$	2 $\frac{1}{2}$ ^h	4 $\frac{1}{2}$	Do
	5	38 ^f	8	8 $\frac{9}{16}$	2 $\frac{1}{2}$ ^h	4 $\frac{1}{2}$	Do
6	4	26	9	10 $\frac{3}{8}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	Do
	6	38 ^f	9	10 $\frac{3}{8}$	2 $\frac{1}{2}$	4 $\frac{1}{2}$	Do
7	2 $\frac{1}{2}$	14 ^g	11 $\frac{3}{8}$	12 $\frac{3}{16}$	2 $\frac{1}{2}$	3	Do
	3 $\frac{3}{8}$	20	11 $\frac{3}{8}$	12 $\frac{3}{16}$	2 $\frac{1}{2}$	3 or 4 $\frac{1}{2}$	Do

^aThe square foot of equivalent direct steam radiation is defined as the ability to emit 240 Btu per hour, with steam at 215 F. in air at 70 F. These ratings apply only to radiators installed exposed in a normal manner; not to radiators installed behind enclosures, grilles, etc. (See A.S.H.V.E. Code for Testing Radiators.)

^bSee Fig. 1.

^cWhere 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., incl. for which this dimension shall be 4 1/2 in. Radiators may be furnished without legs.

^dMaximum assembly 60 sections.

^eAlternate height by 1 producer is 30 in.

^fAlternate height by 2 producers is 36 in.; by another, 37 in.

^gAlternate height by 1 producer is 13 in.; by 2 producers 13 1/2 in.; by another, 15 in.

^hFor 5-tube hospital-type radiation, this dimension is 3 in.

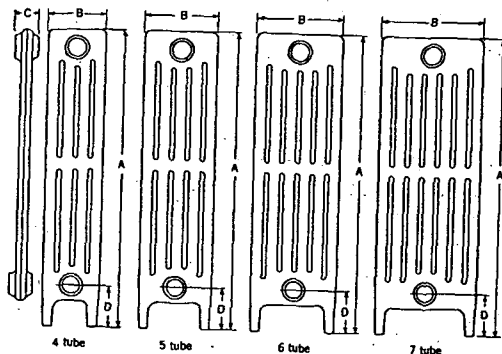


FIG. 1. TYPES AND DIMENSIONS OF LARGE-TUBE CAST-IRON RADIATORS

CHAPTER 13. RADIATORS AND CONVECTORS

mentation R174-40 for large-tube cast-iron radiators. A program is now in progress for the establishment of a similar recommendation for small-tube cast-iron radiators. Tables 1 and 2, and Figs. 1 and 2 show the sizes and dimensions of large-tube and small-tube cast-iron radiators which are being manufactured at the present time.

Pipe coils are assemblies of standard pipe or tubing (1 in. to 2 in.) which

TABLE 2. SIZES—SMALL-TUBE CAST-IRON RADIATORS

NUMBER OF TUBES PER SECTION	CATALOG RATING PER SECTION ^a	SECTION DIMENSIONS ^b					RADIATOR LENGTH (SECTIONS PER RADIATOR) ^d
		A Height ^c	B Width		C Spacing	D Leg Height ^c	
			Minimum	Maximum			
	Sq Ft	In.	In.	In.	In.	In.	
3 ^e	1.6	25	3¼	3½	1¾	2½	As Required
4 ^e	1.6	19	4⅞	4⅜	1¾	2½	Do
	1.8	22	4⅞	4⅜	1¾	2½	Do
	2.0	25	4⅞	4⅜	1¾	2½	Do
5 ^e	2.1	22	5⅝	6⅞	1¾	2½	Do
	2.4	25	5⅝	6⅞	1¾	2½	Do
	3.0	32	5⅝	6⅞	1¾	2½	Do
6 ^e	1.6	14	6⅜	8	1¾	2½	Do
	2.3	19	6⅜	8	1¾	2½	Do
	3.0	25	6⅜	8	1¾	2½	Do
	3.7	32	6⅜	8	1¾	2½	Do

^aThe square foot of equivalent direct steam radiation is defined as the ability to emit 240 Btu per hour, with steam at 215 F. in air of 70 F. These ratings apply only to radiators installed exposed in a normal manner; not to radiators installed behind enclosures, grilles, etc. (See A.S.H.V.E. Code for Testing Radiators.)

^bSee Fig. 2.

^cOverall height and leg height, as produced by some manufacturers is one inch (1 in.) greater than shown in columns A and D. Radiators may be furnished without legs.

^dEven number of sections. Maximum assembly 60 sections.

^eOr equal.

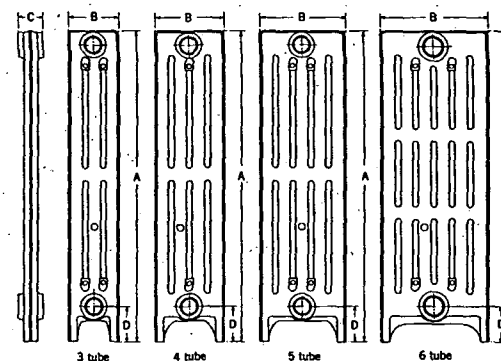


FIG. 2. TYPES AND DIMENSIONS OF SMALL-TUBE CAST-IRON RADIATORS