

TABLE 27. HEAT EMISSION OF DIRECT CAST IRON RADIATION FOR HOT WATER—THREE-COLUMN RADIATORS

LENGTH INCHES	NUMBER OF SECTIONS	Mean Water Temperature at 170 deg. Fahr.				Room Temperature at 70 deg. Fahr.			
		45 In.	38 In.	32 In.	26 In.	22 In.	18 In.		
		Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR
5	1	6	1480	5	1250	4.5	1100	3.75	905
	2	12	2295	10	1950	9.0	1740	7.50	1450
	3	18	3115	15	2645	13.5	2380	11.25	1990
10	4	24	3930	20	3345	18.0	3020	15.00	2525
	5	30	4750	25	4040	22.5	3660	18.75	3070
15	6	36	5560	30	4740	27.0	4300	22.50	3620
	7	42	6380	35	5430	31.5	4940	26.25	4170
20	8	48	7200	40	6130	36.0	5580	30.00	4710
	9	54	8020	45	6830	40.5	6220	33.75	5250
25	10	60	8830	50	7540	45.0	6860	37.50	5790
	11	66	9650	55	8225	49.5	7500	41.25	6310
30	12	72	10470	60	8930	54.0	8140	45.00	6855
	13	78	11290	65	9625	58.5	8780	48.75	7400
35	14	84	12100	70	10320	63.0	9420	52.50	7950
	15	90	12920	75	11010	67.5	10060	56.25	8500
40	16	96	13750	80	11700	72.0	10700	60.00	9050
	17	102	14570	85	12400	76.5	11340	63.75	9600
45	18	108	15380	90	13100	81.0	11980	67.50	10150
	19	114	16200	95	13800	85.5	12620	71.25	10670
50	20	120	17000	100	14500	90.0	13260	75.00	11200

FOUR-COLUMN RADIATORS

LENGTH INCHES	NUMBER OF SECTIONS	Mean Water Temperature at 170 deg. Fahr.				Room Temperature at 70 deg. Fahr.			
		45 In.	38 In.	32 In.	26 In.	22 In.	18 In.		
		Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR
6	1	10	2040	8	1690	6.5	1430	5.0	1140
	2	20	3300	16	2740	13.0	2320	10.0	1850
12	3	30	4560	24	3780	19.5	3205	15.0	2565
	4	40	5810	32	4820	26.0	4090	20.0	3275
18	5	50	7075	40	5870	32.5	4980	25.0	3985
	6	60	8330	48	6910	39.0	5870	30.0	4700
24	7	70	9600	56	7960	45.5	6760	35.0	5410
	8	80	10850	64	9000	52.0	7650	40.0	6120
30	9	90	12100	72	10050	58.5	8530	45.0	6830
	10	100	13350	80	11100	65.0	9420	50.0	7540
36	11	110	14600	88	12130	71.5	10310	55.0	8250
	12	120	15900	96	13180	78.0	11200	60.0	8960
42	13	130	17150	104	14230	84.5	12190	65.0	9675
	14	140	18400	112	15280	91.0	12980	70.0	10380
48	15	150	19650	120	16320	97.5	13870	75.0	11100
	16	160	20900	128	17370	104.0	14760	80.0	11810
54	17	170	22150	136	18410	110.5	15650	85.0	12525
	18	180	23400	144	19460	117.0	16540	90.0	13240
60	19	190	24700	152	20500	123.5	17410	95.0	13950
	20	200	25950	160	21550	130.0	18300	100.0	14700

TABLE 28. HEAT EMISSION OF DIRECT CAST IRON RADIATION FOR HOT WATER HOSPITAL RADIATORS—TWO-COLUMN

LENGTH INCHES	NUMBER OF SECTIONS	Mean Water Temperature at 170 deg. Fahr.				Room Temperature at 70 deg. Fahr.			
		45 In.	38 In.	32 In.	26 In.	23 In.	20 In.		
		Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR
6	1	5	1300	3.3	920	2.66	745	2.33	660
	2	10	2060	6.6	1470	5.33	1195	4.66	1061
12	3	15	2820	10.0	2010	8.00	1645	7.00	1462
	4	20	3580	13.3	2560	10.66	2095	9.33	1863
18	5	25	4340	16.6	3105	13.33	2545	11.66	2264
	6	30	5100	20.0	3655	16.00	3090	14.00	2665
24	7	35	5860	23.3	4205	18.66	3450	16.33	3066
	8	40	6620	26.6	4755	21.33	3900	18.66	3567
30	9	45	7380	30.0	5295	24.00	4350	21.00	3868
	10	50	8140	33.3	5840	26.66	4800	23.33	4269
36	11	55	8900	36.6	6390	29.33	5255	26.00	4670
	12	60	9660	40.0	6940	32.00	5705	28.00	5071
42	13	65	10420	43.3	7490	34.66	6155	30.33	5472
	14	70	11180	46.6	8040	37.33	6605	32.66	5873
48	15	75	11940	50.0	8590	40.00	7055	35.00	6274
	16	80	12700	53.3	9125	42.66	7510	37.33	6675
54	17	85	13460	56.6	9670	45.33	7960	39.66	7076
	18	90	14220	60.0	10220	48.00	8410	42.00	7477
60	19	95	14980	63.3	10765	50.66	8860	44.33	7878
	20	100	15740	66.6	11310	53.33	9315	46.66	8280

WALL AND WINDOW RADIATORS									
LENGTH INCHES	NUMBER OF SECTIONS	Mean Water Temperature at 170 deg. Fahr.				Room Temperature at 70 deg. Fahr.			
		29 In.	22 In.	17 In.	20 In.	16 In.	13 In.		
		Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR	Rated Surface Sq. Ft. S	Total B.t.u. per Hr. SR
6	1	9	1880	5	1095	5	1125	3.75	880
	2	18	3395	10	2010	10	2145	7.50	1645
12	3	27	5100	15	3140	15	3230	11.25	2470
	4	36	6805	20	4160	20	4250	15.00	3300
18	5	45	8510	25	5185	25	5280	18.75	4130
	6	54	10215	30	6210	30	6300	22.50	4960
24	7	63	11920	35	7235	35	7325	26.25	5790
	8	72	13625	40	8260	40	8350	30.00	6620
30	9	81	15330	45	9285	45	9375	33.75	7450
	10	90	17035	50	10310	50	10400	37.50	8280
36	11	99	18740	55	11335	55	11425	41.25	9110
	12	108	20445	60	12360	60	12450	45.00	9940
42	13	117	22150	65	13385	65	13475	48.75	10770
	14	126	23855	70	14410	70	14500	52.50	11600
48	15	135	25560	75	15435	75	15525	56.25	12430
	16	144	27265	80	16460	80	16550	60.00	13260
54	17	153	28970	85	17485	85	17575	63.75	14090
	18	162	30675	90	18510	90	18600	67.50	14920
60	19	171	32380	95	19535	95	19625	71.25	15750
	20	180	34085	100	20560	100	20650	75.00	16580