

Estimating radiator square feet EDR

x 1.25 Boiler Size

Use Tables 1 through 5 to determine the square feet EDR of radiators or convectors when manufacturer's data is not available.

Figure 6 Cast iron baseboard

To determine EDR of radiator:

1. Measure length of baseboard
2. Read baseboard square feet (EDR) from Table 1

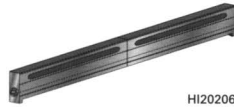


Table 1 Square feet EDR

Cast Iron Baseboard		
Depth (inches)	Height (inches)	Square feet per linear foot
2 1/2	10	3.40

Figure 7 Radiant convector

To determine EDR of radiator:

1. Measure depth and height of radiator
2. Read square feet (EDR) from Table 2
3. Multiply table value times the number of radiator sections



Table 2 Square feet EDR

Radiant Convector		
Depth (inches)	Height (inches)	Square feet per section
5	20	2.25
7 1/2	20	3.40

Figure 8 Tubular radiators

To determine EDR of radiator:

1. Count the number of tubes (illustration is 5-tube radiator)
2. Measure height of radiator, floor to top
3. Read square feet (EDR) from Table 3
4. Multiply table value times the number of radiator sections



Table 3 Square feet EDR

Tubular Radiation					
Height (inches)	3 Tube	4 Tube	5 Tube	6 Tube	7 Tube
14					2.67
17					3.25
20	1.75	2.25	2.67	3.00	3.67
23	2.00	2.50	3.00	3.50	
26	2.33	2.75	3.50	4.00	4.75
32	3.00	3.50	4.33	5.00	5.50
38	3.50	4.25	5.00	6.00	6.75

Figure 9 Columnar radiators

To determine EDR of radiator:

1. Count the number of columns (illustration is a 3-column radiator)
2. Measure height of radiator, floor to top
3. Read square feet (EDR) from Table 4
4. Multiply table value times the number of radiator sections



Table 4 Square feet EDR

Columnar Radiation					
Height (inches)	1 column	2 column	3 column	4 column	5 column
14					4.00
17					4.00
18			2.25	3.00	5.00
20	1.50	2.00			5.00
22			3.00	4.00	6.00
23	1.67	2.33			
26	2.00	2.67	3.75	5.00	
32	2.50	3.33	4.50	6.50	
38	3.00	4.00	5.00	8.00	
44				10.00	
45		5.00	6.00		