

A Guide to

ENERGY EFFICIENT

ROOM

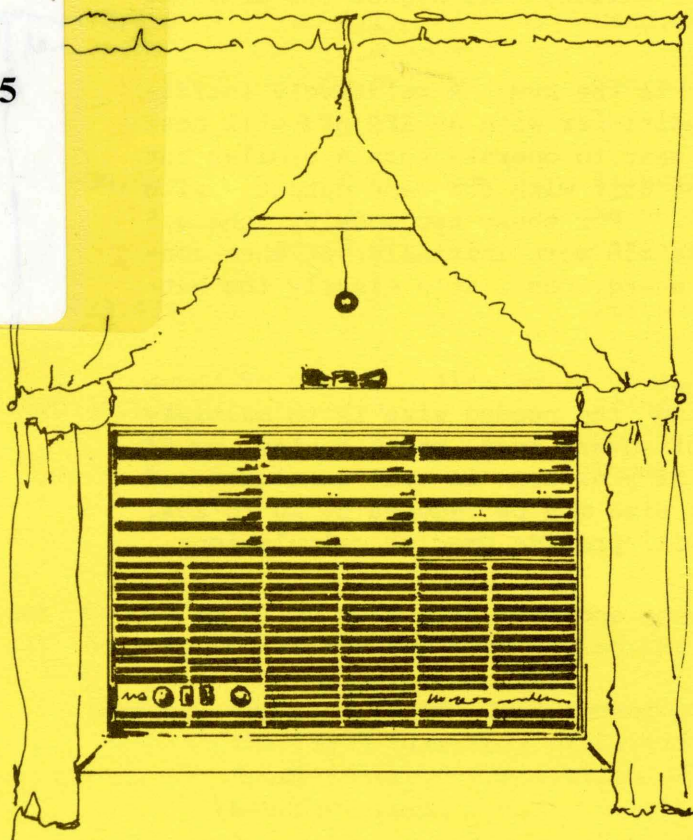
AIR

CONDITIONERS

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of a series
on appliances

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Conserving Your
Energy Dollars

**IOWA
ENERGY
POLICY
COUNCIL**

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Appliances can be like a big dog - it may not cost much to buy, but it can eat you out of house and home.

When shopping for an air conditioner, it pays to look at the Energy Efficiency Ratio, or EER. The EER is like Miles Per Gallon in cars, showing how well the fuel is used.

$$\text{EER} = \text{Btu's/watts}$$

Like miles per gallon, the higher the EER, the better.

How important is the EER? A relatively inefficient air conditioner with an EER of 6 will cost \$47 more per year to operate than a similar but more efficient unit with the same output, with an EER of 9.5. For these two models, the 9.5 EER unit costs \$50 more initially, yet when considering the energy cost, it's clearly the better buy.

To buy a properly sized unit, a rule of thumb for calculating the needed size is to multiply the number of square feet to be cooled by 24 Btu's/hour. If your home is well insulated and shaded, unit size may be reduced by 10 to 20%. Most stores will provide precise calculations.

Size Category (Btu/hr.)	Energy Efficiency Ratio (EER)	Brand Name
4800-5199	8.8	Fedders
	8.8	Frigidaire
	8.3	Montgomery Ward
5200-5799	9.1	Friedrich
	8.1	Airtemp
	8.0	Emerson-Quiet Kool, J.C. Penney White-Westinghouse
5800-6199	8.8	General Electric or Hotpoint
	8.7	Carrier
	8.1	Kelvinator
6200-6799	9.0	Friedrich
	7.7	Airtemp
6800-7199	10.6	Friedrich
	8.3	Emerson-Quiet Kool
	8.1	Carrier, White-Westinghouse
7200-7799	9.5	Amana
	8.8	Airtemp
	8.7	General Electric or Hotpoint
7800-8199	9.4	Citation (Western Auto), Gibson Kelvinator, Kenmore (Sears)
8200-8799	10.0	Airtemp, White-Westinghouse
	9.9	GE or Hotpoint
8800-9199	10.5	Comfort-Aire (Heat Controller)
	8.2	Airtemp
	7.5	Carrier
9200-10,199	11.5	GE or Hotpoint
	11.4	Friedrich
	8.6	GE or Hotpoint
10,200-10,799	8.5	Fedders
	8.1	Friedrich
	8.0	Comfort-Aire (Heat Controller)

Size Category (Btu/hr.)	Energy Efficiency Ratio (EER)	Brand Name
10,800-11,199	8.1	Frigidaire, Montgomery Ward
	8.0	Carrier, Comfort-Aire (heat controller), Fedders
11,200-11,799	8.5	Coronado (Gamble-Skogmo)
	8.4	White-Westinghouse, Air Chief (Firestone), Emerson Quiet Kool
11,800-12,199	9.0	Carrier
	8.8	Carrier
	8.6	Comfort-Aire, Fedders, Kenmore (Sears), J.C. Penney, York, Amana, Gibson, Fedders
12,200-12,799	9.6	Frigidaire, Montgomery Wards
	9.2	Friedrich
12,800-13,199	9.5	Carrier, Citation (Western Auto) Coronado (Gamble Skogmo), Gibson, Kelvinator
13,200-13,799	10.0	Comfort-Aire (Heat Controller), York
	9.9	Emerson Quiet-Kool
13,800-14,199	10.1	Kenmore (Sears), Amana
	10.0	Airtemp
14,200-14,799	9.7	White-Westinghouse, GE or Hotpoint
	7.7	Frigidaire, Montgomery Ward
14,800-15,199	8.3	GE or Hotpoint
	7.1	Emerson Quiet Kool
15,000-15,799	8.3	Amana
	8.0	Carrier
	7.8	Friedrich
16,500-17,499	8.4	Kenmore
	8.0	Coolerator, Edison, Speed Queen, or Thomas A. Edison (McGraw-Edison Co.)

Size Category (Btu/hr.)	Energy Efficiency Ratio (EER)	Brand Name
17,500-18,499	9.2	Emerson Quiet Kool,
	8.9	Friedrich
	8.6	Airtemp
18,500-19,599	9.3	Friedrich, Amana
	8.2	GE or Hotpoint
22,500-24,499	9.1	Friedrich
	8.9	Friedrich
	8.0	Carrier
24,500-26,499	8.0	Citation (Western Auto)
	7.7	Carrier
	6.5	Coolerator, Edison Speed Queen or Thomas A. Edison (McGraw Edison Co.)
26,500-28,499	8.1	Carrier
	8.0	GE or Hotpoint
	9.0	Emerson Quiet Kool, Citation (Western Auto), Gibson, Kelvinator
28,500-30,499	8.0	Friedrich
	7.3	Amana
	7.0	Carrier
30,500-33,499	6.5	Airtemp
	6.2	Airtemp, GE or Hotpoint
33,500-36,000	7.3	Friedrich
	7.2	Coolerator, Edison, Speed Queen or Thomas A. Edison (McGraw-Edison)

Note: Companies often make more than one model in a specific size.
Be sure to ask for the unit having the EER listed above.

Source: Compiled by the Iowa Commerce Commission from
the "1977 Directory of Certified Room Air-
Conditioners," Association of Home Appliance
Manufacturers.



For additional copies of this EPC consumer brochure, contact the Iowa Energy Policy Council, 707 E. Locust, Des Moines, Iowa 50319.