

A Guide to

ENERGY EFFICIENT

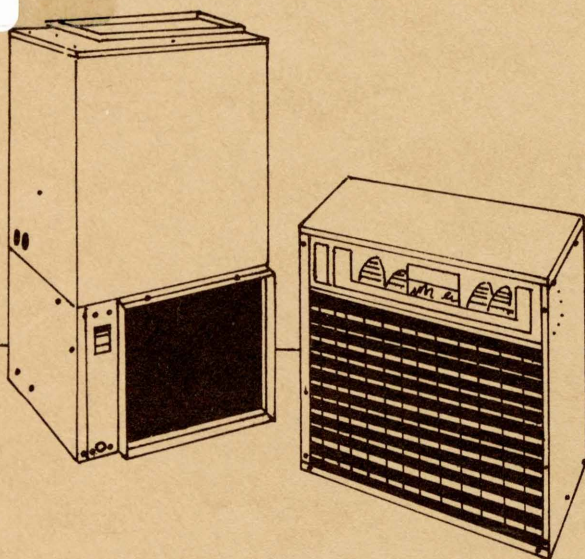
HEAT PUMPS

3

of a series
on appliances

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No.3

Conserving Your Energy Dollars



**IOWA
ENERGY
POLICY
COUNCIL**

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The heat pump is a total electric heating and air conditioning unit. Choosing a model within your price range is more than just considering purchase price. The operating performance of the unit will play a role in how costly that unit will actually be to you.

This brochure lists the three most energy efficient units in each BTU classification according to their EER, or Energy Efficiency Ratio.

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

The higher the EER, the better the performance of the heat pump. A 90000 BTU heat pump with an EER of 10.1 would cost \$269.30 per year to operate at current electrical prices, while a less efficient unit with an EER of 6.8 would cost \$397.05.

<u>Size Category</u> <u>(Btu/hour)</u>	<u>Energy</u> <u>Efficiency</u> <u>Ratio (EER)</u>	<u>Brand Name</u>
15500	7.1	Bryant, Day & Night, Payne or Carrier
16000	7.0	Bryant, Day & Night, Payne or Carrier
16500	7.2	Fedders
	7.2	Mueller Climatrol
17000	7.4	Fedders
	7.4	Mueller Climatrol
17500	8.1	Friedrich
	6.6	Bryant, Day & Night, Payne or Carrier
	5.9	Bryant, Day & Night, Payne or Carrier
	5.9	Henry Furnace Co. or Luxaire
18000	7.2	Rheem or Ruud
	6.9	General Electric
	6.9	Rheem or Ruud
18500	7.3	Bryant, Day & Night, Payne or Carrier
	7.1	General Electric
	7.0	General Electric
19000	7.5	Bryant, Day & Night, Payne or Carrier
19500	8.0	Bryant, Day & Night, Payne or Carrier
	6.5	Lennox
20000	8.2	Bryant, Day & Night, Payne or Carrier
	8.0	Bryant, Day & Night, Payne or Carrier
21000	6.1	Westinghouse
21500	7.2	Airtemp
22000	7.6	Fedders
	7.6	Mueller Climatrol
	6.9	Westinghouse
22500	7.6	Airtemp
	7.5	Airtemp
	6.8	Bard

<u>Size Category</u> (Btu/hour)	<u>Energy</u> <u>Efficiency</u> <u>Ratio (EER)</u>	<u>Brand Name</u>
23000	8.2	Fedders
	8.2	Mueller Climatrol
	7.7	Fedders
23500	7.3	Amana
	7.3	Heil-Quaker or Whirlpool
	7.3	Trane
24000	8.1	Century, Heat Controller or McDonald Mfg. Co.
	8.0	York
	8.0	York
24500	7.4	Montgomery Ward
	7.4	Rheem or Ruud
	7.4	Rheem or Ruud
25000	7.8	General Electric
	7.0	Bryant, Day & Night, Payne or Carrier
	6.8	Johnson Corp.
25500	8.0	General Electric
	7.2	Bryant, Day & Night, Payne or Carrier
	7.1	Bryant, Day & Night, Payne or Carrier
26000	8.1	General Electric
	7.4	Williamson Co.
	7.3	Bryant, Day & Night, Payne or Carrier
26500	6.4	Bryant, Day & Night, Payne or Carrier
27000	6.9	Bryant, Day & Night, Payne or Carrier
	6.6	Bard
	6.4	Lennox
27500	8.0	Bryant, Day & Night, Payne or Carrier
	8.0	Williamson Co.
	7.6	Bryant, Day & Night, Payne or Carrier
28000	8.2	Bryant, Day & Night, Payne or Carrier
	8.1	Bryant, Day & Night, Payne or Carrier
	7.4	Henry Furnace Co. or Luxaire

<u>Size Category</u> (Btu/hour)	<u>Energy Efficiency Ratio (EER)</u>	<u>Brand Name</u>
28500	8.6	Bryant, Day & Night, Payne or Carrier
	7.0	General Electric
	7.0	Westinghouse
29000	8.2	York
	7.9	Airtemp
	7.3	Rheem or Ruud
29500	8.1	York
	7.8	Friedrich
	7.6	Montgomery Ward
30000	8.6	General Electric
	8.1	General Electric
	8.0	General Electric
30500	7.9	Century or Heat Controller or McDonald Mfg. Co.
	7.9	General Electric
	7.7	Lennox
31000	7.5	Johnson Corp.
	7.3	Westinghouse
	6.5	Bryant, Day & Night, Payne or Carrier
31500	8.4	General Electric
	7.0	Bryant, Day & Night, Payne or Carrier
	6.8	General Electric
32000	7.6	Johnson Corp.
	7.3	Bryant, Day & Night, Payne or Carrier
	7.2	Bryant, Day & Night, Payne or Carrier
32500	8.3	General Electric
	7.4	Bryant, Day & Night, Payne or Carrier
33000	7.1	Fedders
	7.0	Fedders
	6.9	Bryant, Day & Night, Payne or Carrier
33500	8.6	General Electric
	7.9	Bryant, Day & Night, Payne or Carrier (2 models)

<u>Size Category</u> <u>(Btu/hour)</u>	<u>Energy</u> <u>Efficiency</u> <u>Ratio (EER)</u>	<u>Brand Name</u>
34000	7.0	General Electric
	6.8	General Electric (3 models)
	6.8	Westinghouse
34500	8.4	Lennox
	7.9	York (2 models)
35000	8.0	Bryant, Day & Night, Payne or Carrier (2 models)
	7.9	General Electric
35500	7.9	Century or Heat Controller or McDonald Mfg. Co.
	7.0	Fedders
	7.0	Mueller Climatrol
36000	8.2	General Electric (2 models)
	7.3	Westinghouse
36500	7.5	Trane
	7.3	Fasco
	7.3	Henry Furnace Co. or Luxaire
37000	6.7	General Electric
	6.6	Bryant, Day & Night, Payne or Carrier
	6.6	Lennox
37500	6.6	Bryant, Day & Night, Payne or Carrier
38000	7.2	Williamson Co.
	6.9	Bryant, Day & Night, Payne or Carrier
	6.8	Bryant, Day & Night, Payne or Carrier (2 models)
39000	8.3	General Electric
	7.1	Bryant, Day & Night, Payne or Carrier
	7.0	Bryant, Day & Night, Payne or Carrier
40000	8.5	General Electric
	8.0	Bryant, Day & Night, Payne or Carrier (3 models)

<u>Size Category</u> <u>(Btu/hour)</u>	<u>Energy</u> <u>Efficiency</u> <u>Ratio (EER)</u>	<u>Brand Name</u>
41000	7.7	York
	7.3	Henry Furnace Co. or Luxaire
	6.9	Airtemp
42000	8.8	Johnson Corp.
	7.4	Bryant, Day & Night, Payne or Carrier
	7.0	General Electric
43000	8.0	Rheem or Ruud
	7.8	Trane
	7.6	Rheem or Ruud
44000	7.1	Williamson Co.
	6.8	Fedders
	6.8	Mueller Climatrol
45000	7.3	Bryant, Day & Night, Payne or Carrier
	7.2	General Electric
46000	8.1	Bryant, Day & Night, Payne or Carrier (2 models)
	7.9	Bryant, Day & Night, Payne or Carrier
47000	8.4	Bryant, Day & Night, Payne or Carrier
	8.0	General Electric
	8.0	Lennox
48000	8.3	Lennox
	8.0	General Electric
	7.9	Friedrich
49000	8.0	Bryant, Day & Night, Payne or Carrier
	7.9	Trane
	7.7	Henry Furnace Co.
50000	8.6	General Electric
	8.1	Bryant, Day & Night, Payne or Carrier
	7.6	Westinghouse
51000	7.7	Friedrich
	7.3	Westinghouse
	7.2	General Electric

<u>Size Category</u> (Btu/hour)	<u>Energy</u> <u>Efficiency</u> <u>Ratio (EER)</u>	<u>Brand Name</u>
53000	8.7	Bryant, Day & Night, Payne or Carrier
54000	7.5	Bryant, Day & Night, Payne or Carrier
	7.3	Bryant, Day & Night, Payne or Carrier
	7.2	Bryant, Day & Night, Payne or Carrier
55000	7.6	Bryant, Day & Night, Payne or Carrier
	6.3	Bard
	6.3	Singer
56000	7.7	Bryant, Day & Night, Payne or Carrier
	7.4	Bryant, Day & Night, Payne or Carrier
	6.7	Fedders
	6.7	Mueller Climatrol
57000	7.8	Bryant, Day & Night, Payne or Carrier
	7.6	Friedrich
	7.2	General Electric
58000	7.4	Bryant, Day & Night, Payne or Carrier (2 models)
	7.3	General Electric
59000	8.3	Bryant, Day & Night, Payne or Carrier
	7.5	Bryant, Day & Night, Payne or Carrier
	7.5	General Electric
60000	7.5	Rheem or Ruud
	7.3	Rheem or Ruud
	7.2	Trane
61000	7.8	Henry Furnace Co.
	7.7	General Electric
	7.3	York
62000	7.6	Singer
83000	8.2	Bryant, Day & Night, Payne or Carrier
87000	8.5	Bryant, Day & Night, Payne or Carrier
	7.6	Bryant, Day & Night, Payne or Carrier

<u>Size Category</u> <u>(Btu/hour)</u>	<u>Energy</u> <u>Efficiency</u> <u>Ratio (EER)</u>	<u>Brand Name</u>
88000	7.8 7.5	Bryant, Day & Night, Payne or Carrier General Electric
89000	7.1	Lennox
90000	7.9 7.8	Lennox General Electric (2 models)
95000	8.1	General Electric
97000	7.8	Janitrol or Tappan
106000	8.0	Bryant, Day & Night, Payne or Carrier
107000	7.5	Bryant, Day & Night, Payne or Carrier
108000	7.7	Bryant, Day & Night, Payne or Carrier
114000	7.7	General Electric
115000	7.5	Bryant, Day & Night, Payne or Carrier
117000	8.0 8.0	Bryant, Day & Night, Payne or Carrier General Electric (2 models)
120000	7.1	Janitrol or Tappan
122000	6.9	Lennox

SOURCES OF INFORMATION

Directory of Certified Unitary Air Conditioners and Unitary Heat Pumps, Air Conditioning and Refrigeration Institute, July 1, 1977; and inquiries of manufacturers. This information is the best available to the Energy Policy Council at this time. However, some air conditioners and heat pumps may be available on the Iowa market which are not included in this analysis.

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