



Air Conditioning & Heating

DECISION TIME?

A REPAIR OR REPLACEMENT
GUIDE FOR HVAC EQUIPMENT



Thank goodness for Goodman.™



MAKING A COMFORTABLE DECISION

Most likely, if you are reading this document, the central heating and cooling system in your home is not functioning properly. With the help and support of your local Goodman brand dealer, you are preparing to make the decision whether it's best to repair or replace the old heating and/or cooling system.

This guide was created to assist you with this decision. Regardless of your final choice, we believe that you will want your home's heating and cooling system to deliver the optimum combination of energy-saving and money-saving efficiency, indoor comfort, and years and years of reliable service. While it's easy to believe that the costs associated with repairing your current system might be less than the cost of purchasing a new heating and cooling system, you need to calculate all the associated costs. It's been estimated that the typical household spends approximately \$1900 annually for energy costs. To help you determine the costs to heat and cool your home, visit www.energystar.gov.

Repairing an old, inefficient system will not allow you the opportunity to enjoy the benefits of lowering your energy bill, spending less money to keep your home comfortable, and taking advantage of the exceptional warranty coverage offered on Goodman's entire product line. And, should you decide to purchase a new system, your Goodman dealer has outstanding financing programs that can be tailored to your budget.

Regardless of your final decision, when you have a Goodman heating and cooling system, you are a member of the millions and millions of homeowners who say, "Thank Goodness for Goodman" when it comes to refreshingly affordable home comfort.



Goodman
Air Conditioning & Heating



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REPAIR VS. REPLACE

| CURRENT SYSTEM | AIR CONDITIONER | HEAT PUMP | GAS FURNACE OR AIR HANDLER | INDOOR COIL |
|-----------------------------------|-----------------|-----------|----------------------------|-------------|
| Brand Name | | | | |
| Age of Unit | | | | |
| Warranty Coverage | | | | |
| Efficiency Rating | | | | |
| Refrigerant Type | | | | |
| Type of Thermostat | | | | |
| Estimated Life Expectancy | | | | |
| Estimated Monthly Cost to Operate | | | | |
| Annual Maintenance Cost Estimate | | | | |

| NEW SYSTEM | AIR CONDITIONER | HEAT PUMP | GAS FURNACE OR AIR HANDLER | INDOOR COIL |
|-----------------------------------|-----------------|-----------|----------------------------|-------------|
| Brand Name | | | | |
| Age of Unit | | | | |
| Warranty Coverage | | | | |
| Efficiency Rating | | | | |
| Refrigerant Type | | | | |
| Type of Thermostat | | | | |
| Estimated Life Expectancy | | | | |
| Estimated Monthly Cost to Operate | | | | |
| Annual Maintenance Cost Estimate | | | | |



DECIDING FACTORS

Here are some factors to consider as you decide whether to repair or replace your current heating and cooling system.

EFFICIENCY RATINGS

SEER

SEER or Seasonal Energy Efficiency Ratio ratings are established by the U. S. Department of Energy (DOE). Currently the lowest SEER rating for central air conditioners is 13. The rating was increased from 10 SEER to 13 SEER in January 2006. The higher the rating number the more efficient the unit operates.

SEER & HSPF

The rating system for a heat pump's cooling efficiency is the same as residential central air conditioners – SEER. A heat pump's heating mode efficiency rating is defined by its HSPF (Heating Seasonal Performance Factor) rating. This measurement is determined by The U.S. Department of Energy (DOE). It is wise to compare both the SEER and HSPF ratings when you are purchasing a heat pump product. Depending on the geographical location of your home, you may place more emphasis on a heat pump's ability to either heat or cool the indoor space of your home. For example, homes in the Sunbelt may need more cooling capacity and those built in colder climates may require stronger heating performance.

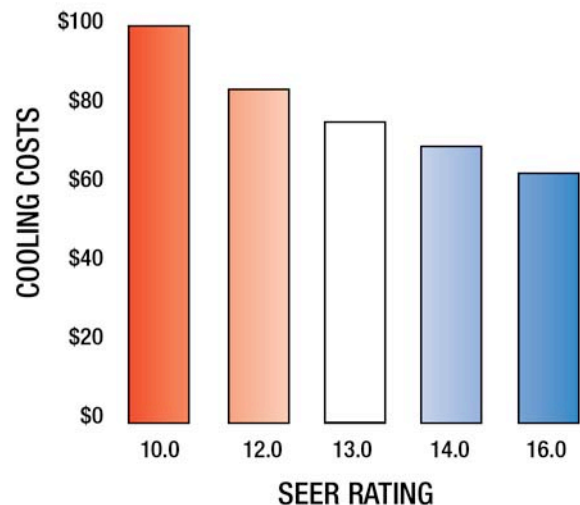
AFUE

AFUE or Annual Fuel Utilization Efficiency ratings are set by the American Society of Heating, Refrigeration and Air Conditioning Engineers or ASHRAE. Currently the lowest

AFUE rating that manufacturers can produce is 80%. The higher the AFUE rating, the greater its potential energy savings. For example, a Goodman brand gas furnace with an AFUE rating of 95% indicates that for every \$1.00 of energy used to operate the furnace only five cents is not fully utilized.

SEER SAVINGS

For every \$100 spent to air condition your home, using a 10.0 SEER air conditioner, a 16.0 SEER air conditioner should cost you approximately \$68. Your actual savings may vary due to your specific installation and geographic location.



Operating cost estimate based on a 3-ton system.

Thank goodness for Goodman.™



AIR CONDITIONING REFRIGERANTS

Two types of refrigerant are widely used in air conditioning and heat pump systems: R-22 and R-410A. In just a couple of years, however, only R-410A refrigerant will be available in new air conditioning and heat pump systems.

The United States agreed to provisions in the 1987 Montreal Protocol and instituted the Clean Air Act Amendments of 1990. This law prescribes the phase out of ozone-depleting chemicals, including one used by the air conditioning industry, R-22. Effective January 2010, HVAC manufacturers no longer produce air conditioning and heat pump products that use R-22 refrigerant. At this time, R-410A will be the sole refrigerant used in air conditioning and heat pump systems. Since R-410A refrigerant does not contain chlorine, it is commonly referred to as the environmentally friendly refrigerant.

WARRANTY COVERAGE

Regardless of the energy efficiency rating, all Goodman air conditioners, heat pumps and gas furnaces are covered by a 10-Year Parts Limited Warranty. In addition, several models are backed by a Lifetime Compressor Limited Warranty. This means that if the compressor ever fails to the original, registered homeowner, a new compressor will be provided at no charge. Online registration is required within 60 days of installation. Goodman gas furnaces are also backed by a 10-Year Parts Limited Warranty. Several models also feature a Lifetime Heat Exchanger Limited Warranty. Should the heat exchanger ever fail to the original registered homeowner, a new heat exchanger will be provided at no charge.

Beyond this coverage, several gas furnace models are backed with a 10-Year Unit Replacement Limited Warranty.

Should the heat exchanger fail to the original, registered homeowner in the first decade of use, a new furnace will be provided at no charge. Online registration is required within 60 days of installation.



For full warranty information, visit www.goodmanmfg.com.

GOODMAN: THE RECOGNIZED INDUSTRY LEADER



Every Goodman heating and air conditioning system is designed, engineered, and manufactured with pride. All employees follow strict, quality-driven processes to ensure that all Goodman products offer the legendary performance that has made the brand a recognized leader in the industry. This attention to quality has resulted in the Goodman family of companies becoming the second largest manufacturer of residential air conditioning and heating systems in North America.

The legacy began when Harold Goodman, a former air conditioning contractor, felt that he could build a better product. His goal was to manufacture air conditioning and heating equipment that performed more reliably, lasted longer than the competing products, eliminated time-consuming installation problems, and make air conditioning and heating products as affordable as possible.

Harold accomplished his goal and today the Goodman family of companies manufactures heating, air conditioning and ventilating equipment in modern facilities located across the United States.



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