



Air Conditioning & Heating

# DECISION TIME?

A REPAIR OR REPLACEMENT  
GUIDE FOR HVAC EQUIPMENT



Thank goodness for Goodman.™



# 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				

# MAKING A COMFORTABLE DECISION

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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.

Repairing an old, inefficient system may not allow you the opportunity to enjoy the benefits of lowering your energy bill with a new, more efficient system; spending less money to keep your home comfortable, and taking advantage of the exceptional limited warranty coverage offered on Goodman brand products.\* And, should you decide to purchase a new system, your Goodman dealer has several financing programs that can be tailored to your budget.

Regardless of your final decision, when you have a Goodman brand 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.

*\* To receive the Lifetime Compressor Limited Warranty, Lifetime Heat Exchanger Limited Warranty, Lifetime Unit Replacement Limited Warranty (good for as long as you own your home), and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. Complete warranty details available at [www.goodmanmfg.com](http://www.goodmanmfg.com).*



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# 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 efficiently 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 96% indicates that for every \$1.00 of energy used to operate the furnace only four cents is not fully utilized.



**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. 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. Since R-410A refrigerant does not contain chlorine, it is commonly referred to as the environmentally friendly refrigerant, compared to R-22 refrigerant which contains chlorine. Uncharged R-22 units can be installed as a repair option to your current system. 13 SEER is the highest efficiency rating for an R-22 uncharged unit.

## WARRANTY COVERAGE

Regardless of the energy efficiency rating, all functional parts on Goodman® brand Air Conditioners, Heat Pumps and Gas Furnaces are covered by a **10-Year Parts Limited Warranty**.\* In addition, several Goodman brand Air Conditioner and Heat Pump 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 for as long as they own their home. Several Goodman brand Gas Furnace 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 for as long as they own their home.

Beyond this coverage, several Goodman brand models are backed with a **10-Year Unit Replacement Limited Warranty**.\* Should the compressor or heat exchanger fail to the original, registered homeowner in the first decade of use, a new unit will be provided at no charge.

*\* To receive the Lifetime Compressor Limited Warranty, Lifetime Heat Exchanger Limited Warranty, Lifetime Unit Replacement Limited Warranty (good for as long as you own your home), and 10-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. Complete warranty details available at [www.goodmanmfg.com](http://www.goodmanmfg.com).*



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# GOODMAN: THE RECOGNIZED INDUSTRY LEADER

Every Goodman® brand 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 unit manufacturer of residential air conditioning and heating systems in North America.



**Thank goodness for Goodman:**

*Goodman Manufacturing Company, L.P., reserves the right to discontinue, or change at any time, specifications or designs without notice or without incurring obligations.*

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