



# Heating and Cooling Systems

## City of Huntington Beach Green Building Tips

Heating and cooling account for about 56% of the energy use in a typical U.S. home, making them the largest energy expenses for most homes. A wide variety of technologies are available for heating and cooling your home, and they achieve a wide range of efficiencies in converting their energy sources into useful heat or cool air for your home. In addition, many heating and cooling systems have certain supporting equipment in common, such as thermostats and ducts, which provide opportunities for saving energy. When looking for ways to save energy in your home, be sure to think about not only improving your existing heating and cooling system, but also consider the energy efficiency of the supporting equipment and the possibility of either adding supplementary sources of heating or cooling or simply replacing your system altogether.

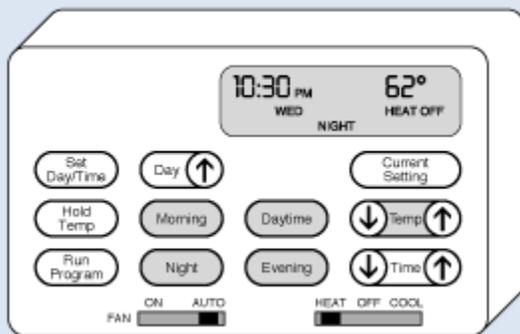
## Efficient Ducts

Efficient and well-designed duct systems distribute air properly throughout your home, without leaking, to keep all rooms at a comfortable temperature. The system should provide balanced supply and return flow to maintain a neutral pressure within the house. Aside from sealing your ducts, the simplest and most effective

## Programmable Thermostat

You can save around 10% a year on your heating and cooling bills by simply turning

### Digital Thermostat



your thermostat back 10°–15° for eight hours a day. You can do this automatically without sacrificing comfort by installing an automatic setback or programmable thermostat. A programmable thermostat offers a lot of flexibility in its temperature settings. Using a programmable thermostat, you can adjust the times you turn on the heating or air-conditioning according to a preset schedule. As a result, you don't operate the equipment as much when you are asleep or when the house is not occupied.

means of maintaining your air distribution system is to assure that furniture and other objects are not blocking the air flow through your registers, and to vacuum the registers to remove any dust buildup.

Information derived from US Department of Energy

<http://www.eere.energy.gov/consumer/>

<http://www.energystar.gov>



Products bearing the Energy Star logo have been certified as meeting stringent energy efficiency guidelines established by the US Department of Energy and Environmental Protection Agency.



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