

## **What is Zoning?**

Zoning divides your home into areas with common heating and cooling requirements. Each zone is controlled by its own thermostat, allowing you to be comfortable no matter where you are in your home. Zoning also allows you to leave unoccupied areas without heating or cooling, saving you more money on energy costs. In addition, zoning can be used with a variety of night setback thermostats.

A home not zoned will leave someone uncomfortable somewhere in your home. It's too much to expect one thermostat to provide perfect conditions for every room in your home. What is comfortable for the sleeping area may be uncomfortable for the living area and vice versa. A home not zoned is uncomfortable and costs you more in heating/cooling costs.

## **How Zoning Works**

The purpose of the zoning is to provide total comfort in the home and office. Motorized dampers are "opened" or "closed" by thermostats based on the temperature set point of the homeowner. The damper system will control the airflow through the ductwork and deliver ONLY the desired air to the desired location. Each thermostat has the ability to turn on and shut off the heating and cooling.

There are very few zoning components that are needed to make the system function. The control panel is the "brain" of the system. The zone thermostats allow independent temperature control and the zone dampers control the airflow to the zone thermostats. A transformer is needed to power the system and occasionally a by-pass damper may be required.

The basic components of an Ultra-Zone system are:

A control panel

Zone thermostats

Zone dampers

Dedicated transformer

By-pass damper (if necessary)

Along with some thermostat wire, these are the only components that are needed to install an

Ultra-Zone system.

## **Examples**



### Zone 1: Kitchen

Heating:

Morning 72°, Day 60°, Evening 72°, Night 60°

Cooling:

Morning 74°, Day 82°, Evening 74°, Night 82°



### Zone 2: Living Room

Heating:

Occupied 72°, Unoccupied 60°

Cooling:

Occupied 74°, Unoccupied 82°



Zone 3: Spare Bedroom

Heating:

Occupied 72°, Unoccupied 60°

Cooling:

Occupied 74°, Unoccupied 82°



Zone 4: Master Bedroom

Heating:

Morning 72°, Day 60°, Evening 72°, Night 60°

Cooling:

Morning 74°, Day 82°, Evening 74°, Night 82°