

User's Information Manual

Harmony™

ZONE CONTROL SYSTEM

ZONING SYSTEMS
502.733M
11/91

**RETAIN THESE INSTRUCTIONS
FOR FUTURE REFERENCE**

What Is Zoning?

Zoning allows specific areas of a home or office to be heated or cooled more than other areas. Zone groups of rooms into areas or zones with similar air conditioning requirements. Perhaps the second floor of a house is always too hot in the winter while the first floor cannot get warm enough. By zoning the house, the two floors are split into two zones and each floor will individually receive conditioned air. A guest bedroom may be zoned so that it will receive conditioned air only if it is occupied.

What Is the Harmony™ Zone Control System?

The Lennox Harmony zone control system is an advanced control system that allows a home to be zoned for heating or cooling without the excess expense of purchasing two or more HVAC systems. The system consists of the system control panel, shown in figure 1, and the system control center. The solid-state control center acts as the “brains” between the furnace, the condensing unit, individual zone thermostats, and dampers (located in the duct system). The Harmony system allows the consumer to design a personalized total comfort environment.

The Harmony system is for use with either a single or two-speed condensing unit and a Pulse21™ “V” series gas furnace. The furnace has a specialized blower motor that varies its speed to distribute the right amount of air to each zone. A house or office is divided into two zones when the Harmony system is used with a single-speed condensing unit. Up to four zones are allowed when the Harmony system is used with a two-speed condensing unit.

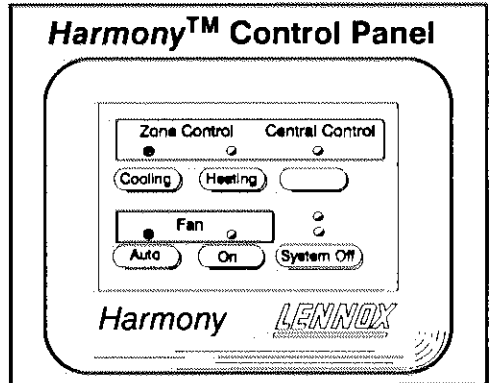


FIGURE 1

The Harmony zone control system operates in either of two modes: Central Control mode or Zone Control mode. In **Central Control** mode all zones receive air at the same time, just like a traditional heating and air conditioning system. The zone 1 master thermostat controls any need of heating or cooling for the whole building. When the Harmony system is placed in **Zone Control** mode, specific zones are conditioned only when a demand comes from the thermostat in that zone. The Harmony control panel uses LEDs (light emitting diodes) to display the current operating mode.

How Does the *Harmony* Work?

Use the following instructions to ensure proper operation of the *Harmony* zone control system:

Choose either **Central Control** (conditioning all zones the same) or **Zone Control** (conditioning specific zones only) on the control panel.

Central Control: Heating or cooling all zones.

- 1- Depress Central Control button on control panel.
- 2- Set the zone 1 master thermostat to **HEAT** or **COOL** position.
- 3- Depress **Fan – Auto** or **Fan-On** button on control panel.
- 4- Set zone 1 master thermostat to desired temperature setting.

Zone Control: Heating or cooling to specific zones.

- 1- Depress **Zone Control: Heating** or **Cooling** button on control panel.

NOTE—If zone thermostats are not auto-changeover, set each zone thermostat in the same mode as the control panel: heating or cooling.

- 2- Depress **Fan – Auto** button on control panel.

NOTE—Continuous fan operation is not recommended in zone mode because the air in the zones may mix and defeat the purpose of zoning.

- 3- Set each zone thermostats to desired temperature setting.

*NOTE—On zone thermostat, the **Fan** select switch is non-functional due to the design of the Harmony system. This function is controlled by the Harmony control panel.*

The **System Off** button shuts the system down so that heating or cooling cannot be selected. The **Fan/Auto** and **Fan/On** buttons are still functional while the system is off.

Harmony Zone Control System

Zone #	Rooms
1	
2	
3	
4	

Record which rooms are zoned together in the above chart.