MODULATING SYSTEMS

The **Maxitrol modulating gas system,** consists of a temperature selector dial with a **default setting at 55° F**, a discharge air sensor, an amplifier, and a modulating gas valve. The modulating gas valve controls the amount of gas to the burner based on the temperature rise needed. When the modulating gas valve is all the way open and achieving the maximum BTUs and temperature rise of the unit, it is called "high fire". "Low fire" is said to be the minimum amount of gas that can be delivered to the burner and still maintain the presence of flame.

DIRECT FIRED MODULATING SYSTEM

The two types of Maxitrol systems used are the Maxitrol 14 series or the Maxitrol 44 series. The Maxitrol 14 utilizes a discharge air sensor and modulates the maxitrol gas valve to provide discharge air to match the selected temperature on the temperature selector. The Maxitrol 44 utilizes a room temperature sensor as well as a discharge air sensor in order to control the discharge air temperature.

INDIRECT FIRED MODULATING SYSTEM

The two types of Maxitrol systems found on these units are the Maxitrol 20/30 and the Maxitrol 21/31. The 20 and 21 series are for single furnace arrangement and the 30 and 31 series are for multiple furnace arrangement. The Maxitrol 21/31 utilizes a discharge air sensor and modulates the discharge air to the selected temperature on the temperature selector dial. The Maxitrol 20/30 utilizes a room temperature sensor/selector in order to control the room temperature.