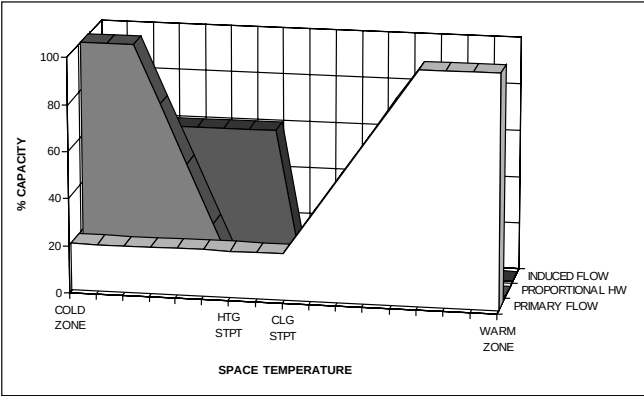




VARIABLE VOLUME FAN POWERED TERMINAL UNIT ANALOG CONTROL SEQUENCE 2308

Cooling With Sequenced Fan Proportional Hot Water Heat And Automatic Night Setback

2308 — User defined primary air flow setpoints are maintained regardless of central system pressure. The terminal fan runs intermittently, during a requirement for heat. Minimum and Maximum primary air flow setpoints are adjusted at the room thermostat as opposed to the terminal controller, with a digital voltmeter (DVM). The thermostat output for minimum and maximum air flow setpoints range from 0-10vdc (0-3300 fpm).

Under load for cooling, primary air flow is at maximum when the occupied space is 2°F above the user defined cooling temperature setpoint. Primary air flow is reduced to the minimum air flow setpoint in proportion to space temperature approaching space temperature setpoint.

Under a load for heating, the terminal fan is energized. The terminal fan start point is field adjustable with reference to space temperature offset from space temperature setpoint. A field supplied normally closed, proportional hot water valve will begin to open at the user defined heating setpoint. The Carrier Model VEP series hot water valves are highly recommended for accurate proportional control. The hot water valve will be fully open at 1°F below the heating setpoint.

Unoccupied mode is in effect when the central air handling station serving primary air to the terminal, shuts down. Upon a signal loss of primary air at the terminals inlet probe, an air flow switch automatically switches the terminal unit into the night setback mode. The night setback temperature setpoint is field adjustable. The terminal unit fan will operate intermittently during night setback to maintain the user defined heat-setback temperature.

