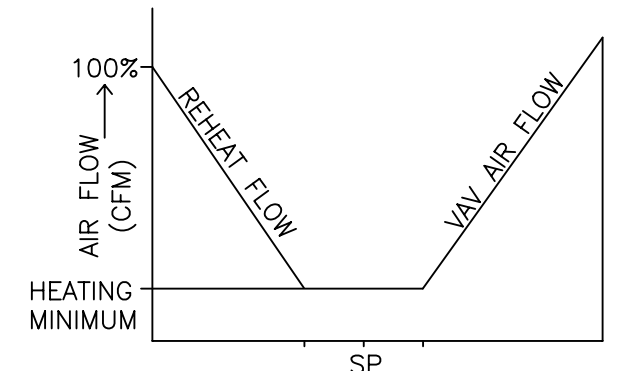


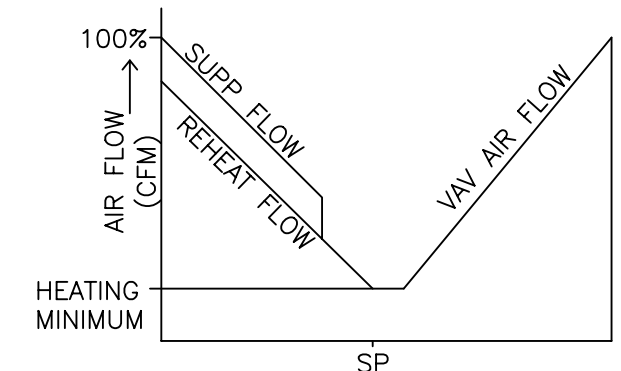
ROOM TEMPERATURE (°F) →  
**VAV BOX CONTROL SEQUENCE**  
 NO DEADBAND

- A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
- B. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT  $\pm .5^\circ$  F. THE ADJUSTABLE TOLERANCE OF  $\pm .5^\circ$  F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
- C. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



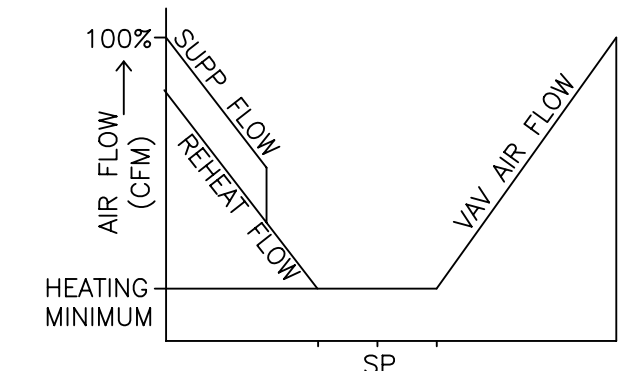
ROOM TEMPERATURE (°F) →  
**VAV BOX CONTROL SEQUENCE**  
 W/DEADBAND

- A. SET POINTS SHALL BE SET AS FOLLOWS:  
 COOLING 75°F (ADJ)  
 HEATING 70°F(ADJ)  
 DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINTS WILL BE MAINTAINED.
- B. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
- C. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT  $\pm .5^\circ$  F. THE ADJUSTABLE TOLERANCE OF  $\pm .5^\circ$  F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
- D. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



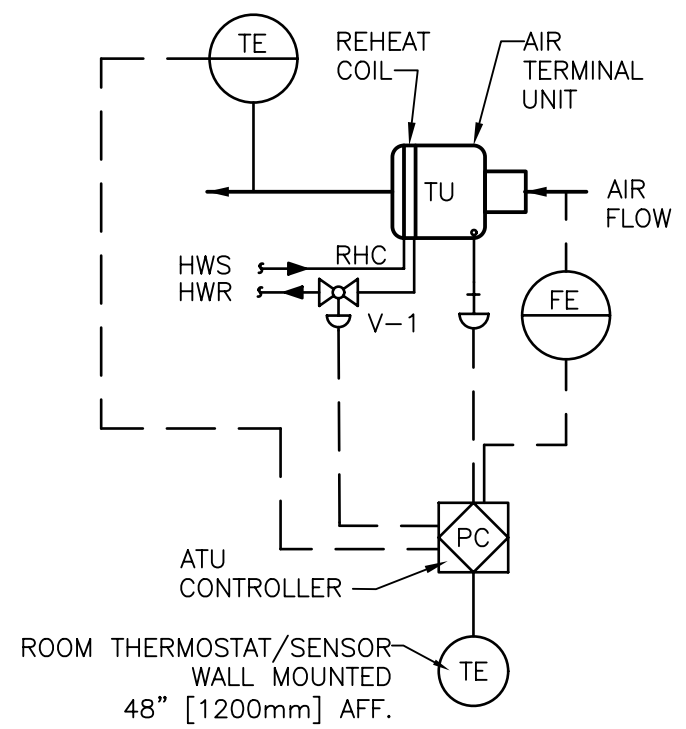
ROOM TEMPERATURE (°F) →  
**VAV BOX CONTROL SEQUENCE**  
 NO DEADBAND

- A. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
- B. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT  $\pm .5^\circ$  F. THE ADJUSTABLE TOLERANCE OF  $\pm .5^\circ$  F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
- C. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ). VALVE V-2 SHALL MAINTAIN SET POINT  $\pm .5^\circ$  F. THE ADJUSTABLE TOLERANCE OF  $\pm .5^\circ$  F HAS BEEN SELECTED TO PREVENT VALVE HUNTING. THE REVERSE SHALL OCCUR ON A RISE IN SPACE TEMPERATURE.

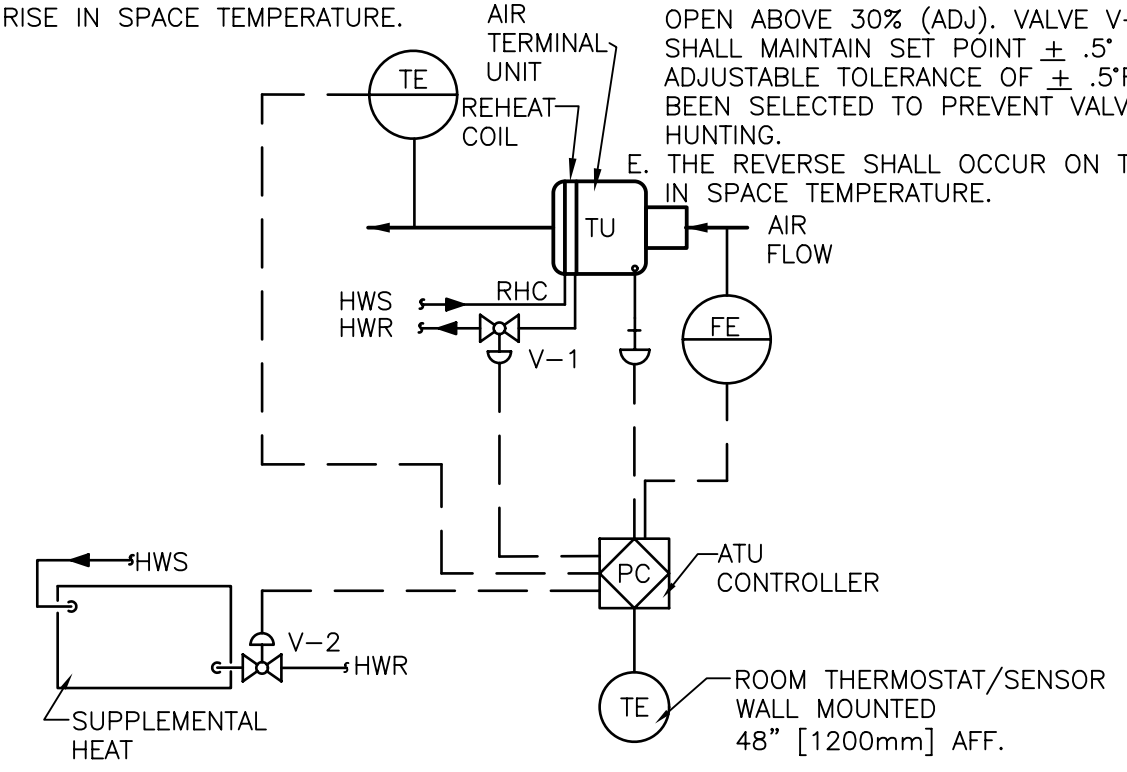


ROOM TEMPERATURE (°F) →  
**VAV BOX CONTROL SEQUENCE**  
 W/DEADBAND

- A. SET POINTS SHALL BE SET AS FOLLOWS:  
 COOLING 75°F (ADJ)  
 HEATING 70°F(ADJ)  
 DEADBAND OF 5° F BETWEEN HEATING AND COOLING SET POINTS WILL BE MAINTAINED.
- B. UPON FALL IN SPACE TEMPERATURE THE VAV DAMPER WILL MODULATE TO MINIMUM POSITION.
- C. UPON FURTHER DROP IN SPACE TEMPERATURE VALVE V-1 WILL MODULATE TO MAINTAIN SET POINT  $\pm .5^\circ$  F. THE ADJUSTABLE TOLERANCE OF  $\pm .5^\circ$  F HAS BEEN SELECTED TO PREVENT VALVE HUNTING
- D. VALVE V-2 SHALL BE ENABLED WHEN OUTSIDE AIR FALLS BELOW 40° F (ADJ) AND VALVE V-1 HAS BEEN MODULATED OPEN ABOVE 30% (ADJ). VALVE V-2 SHALL MAINTAIN SET POINT  $\pm .5^\circ$  F. THE ADJUSTABLE TOLERANCE OF  $\pm .5^\circ$  F HAS BEEN SELECTED TO PREVENT VALVE HUNTING.
- E. THE REVERSE SHALL OCCUR ON THE RISE IN SPACE TEMPERATURE.



**NO SUPPLEMENTAL HEATING**



**WITH SUPPLEMENTAL HEATING**

# NTS **VARIABLE VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM**

DETAIL TITLE / VARIABLE VOLUME AIR TERMINAL UNIT CONTROL DIAGRAM