



**SEQUENCE OF OPERATION:**

ON A CALL FOR COOLING, THE THERMOSTAT SIGNALS FOR THE HEATING CONTROL VALVE TO MODULATE TOWARD THE CLOSED POSITION. ON A FURTHER CALL FOR COOLING, THE THERMOSTAT SIGNALS FOR SUPPLY UNIT VOLUME DAMPER TO MODULATE FROM ITS MINIMUM SETTING TO ITS MAXIMUM SETTING AND THE RETURN UNIT VOLUME DAMPER TO MODULATE TO TRACK THE SUPPLY.

ON A CALL FOR HEATING, THE THERMOSTAT SIGNALS THE SUPPLY UNIT VOLUME DAMPER TO MODULATE TOWARDS ITS MINIMUM POSITION AND THE RETURN UNIT VOLUME DAMPER TO MODULATE TO TRACK THE SUPPLY. ON A FURTHER CALL FOR HEATING, THE THERMOSTAT SIGNALS THE HEATING COIL VALVE TO MODULATE TOWARD THE FULL OPEN POSITION.

**NOTE:**

<u>SUPPLY UNIT</u>	<u>RETURN UNIT</u>
DAMER-N.O.	DAMPER-N.O.
VALVE-N.C.	
T-STAT-R.A.	
BOX-R.A.	

**SPECIFICATION:**

-VAV UNIT:	TITUS MODEL PESV W/ 2-ROW HEATING COIL FOR SUPPLY UNIT
-ROOM T-STAT:	HONEYWELL MODEL TP970B W/ ADJUSTABLE COVER MODEL 14004406-111
-CONTROL VALVE:	HONEYWELL VP-513B HONEYWELL V5011_____ (SEE VAV SCHEDULE FOR COMPLETE MODEL NO.)
-CONTROL VALVE ACTUATOR:	HONEYWELL MP953D1107 (FOR V5011)

**TYPICAL PNEUMATIC VAV UNIT W/ REHEAT COIL & TRACKING RETURN CONTROL DIAGRAM - UH**



2101 Commonwealth, Suite B  
Ann Arbor, MI 48105  
FAX: (734) 763-0417  
[www.med.umich.edu/facilities/plan](http://www.med.umich.edu/facilities/plan)  
FILE: D230905H-2.dwg  
ISSUE: Oct 10

**TYPICAL PNEUMATIC VAV UNIT W/  
REHEAT COIL & TRACKING RETURN  
CONTROL DIAGRAM - UH**