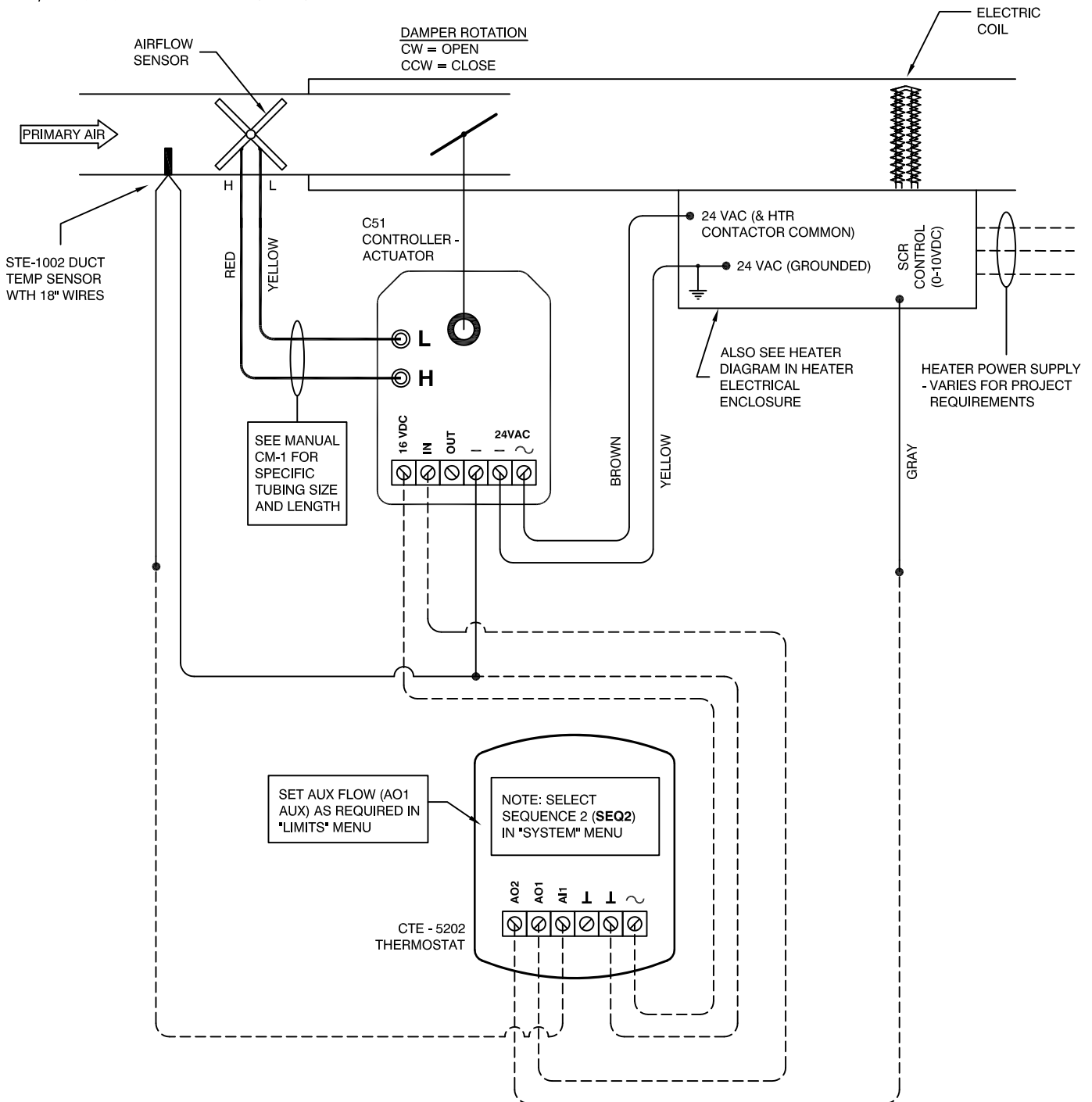


# ANEMOSTAT<sup>®</sup>

AIR TERMINAL CONTROLS

Control Package  
**SD - A - 5244**

- SINGLE DUCT
- ANALOG ELECTRONIC CONTROLS
- VAV HEATING & COOLING w/ PROPORTIONAL ELECTRIC HEAT
- AUTOMATIC CHANGEOVER
- PRESSURE INDEPENDENT
- AIR FLOW SETPOINTS (incl. AUX FLOW SETPOINT) ADJUSTED AT THERMOSTAT

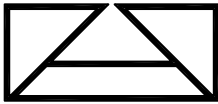


\_\_\_\_\_ FACTORY WIRING  
 - - - - - FIELD WIRING  
 \_\_\_\_\_ FACTORY PIPING

REFER TO ANEMOSTAT "CONTROLS MANUAL" (CM-1) FOR ADJUSTMENT & TROUBLESHOOTING PROCEDURES.

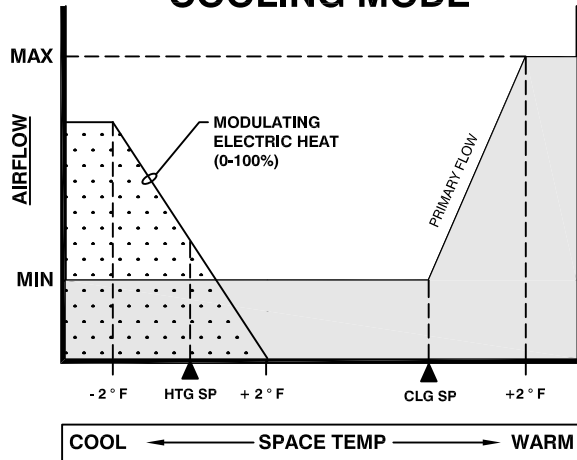
**JOB NAME:**  
**SUBMITTED BY:**  
**DATE:**

**DWG #:** SD-A-5244.1  
**REV:** B  
**DATE:** 3-2-2017

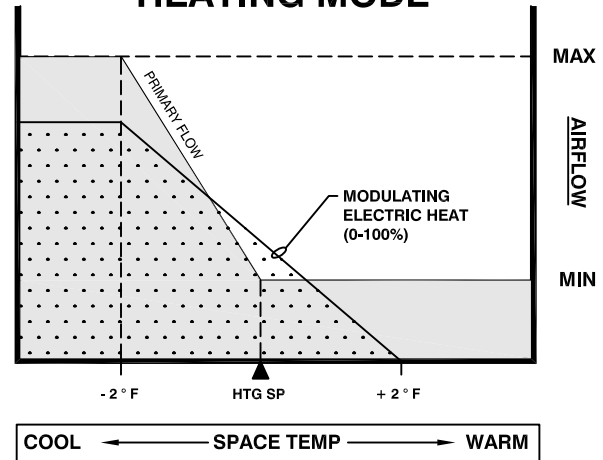


- SINGLE DUCT
- ANALOG ELECTRONIC CONTROLS
- VAV HEATING & COOLING w/ PROPORTIONAL ELECTRIC HEAT
- AUTOMATIC CHANGEOVER
- PRESSURE INDEPENDENT
- AIR FLOW SETPOINTS ADJUSTED AT THERMOSTAT

## COOLING MODE



## HEATING MODE



## SEQUENCE OF OPERATION

1. THE THERMOSTAT SIGNALS THE CONTROLLER IN RESPONSE TO THE SPACE TEMPERATURE. THE CONTROLS SENSE SUPPLY AIR TEMP AND AUTOMATICALLY INDEX TO D.A. COOLING OR R.A. HEATING.
2. WHEN SUPPLY AIR TEMP IS LESS THAN 73° F, THE THERMOSTAT D.A. COOLING OUTPUT CONTROLS FLOW (COOLING MODE). WITH SPACE TEMPERATURE BELOW THE THERMOSTAT COOLING SETPOINT, THE DAMPER MAINTAINS MINIMUM COLD AIRFLOW.
3. AS THE SPACE TEMPERATURE INCREASES FROM SETPOINT TO +2° F ABOVE SETPOINT, THE DAMPER OPENS FROM MINIMUM AIRFLOW TO MAXIMUM AIRFLOW.
4. ABOVE (SETPOINT + 2° F), THE DAMPER MAINTAINS MAXIMUM COLD FLOW.
5. WHEN SUPPLY AIR TEMP IS GREATER THAN 81° F, THE THERMOSTAT R.A. HEATING OUTPUT CONTROLS FLOW (HEATING MODE). AS THE SPACE TEMPERATURE DECREASES FROM HEATING SETPOINT TO - 2° F BELOW THE SETPOINT, THE DAMPER OPENS FROM MINIMUM AIRFLOW TO MAXIMUM AIRFLOW.
6. BELOW (SETPOINT - 2° F), THE DAMPER MAINTAINS MAXIMUM WARM FLOW.
7. DURING BOTH HEATING AND COOLING MODES, PROPORTIONAL ELECTRIC HEAT WILL MODULATE FROM 0% (HEATING S.P + 2°) TO 100% (HEATING S.P - 2°)
8. THE MINIMUM AND MAXIMUM AIRFLOW SETPOINTS FOR HEATING AND COOLING ARE ADJUSTED AT THE THERMOSTAT, AND ARE INDEPENDENT OF EACH OTHER.
9. UPON LOSS OF POWER, DAMPER FAILS IN PLACE.

DO NOT SET MINIMUM AIRFLOW SETPOINTS FOR ZERO FLOW, AS THIS MAY RESULT IN IMPROPER INDEXING.

JOB NAME:  
SUBMITTED BY:  
DATE:

DWG #: SD-A-5044.2  
REV: -  
DATE: 9-9-08