

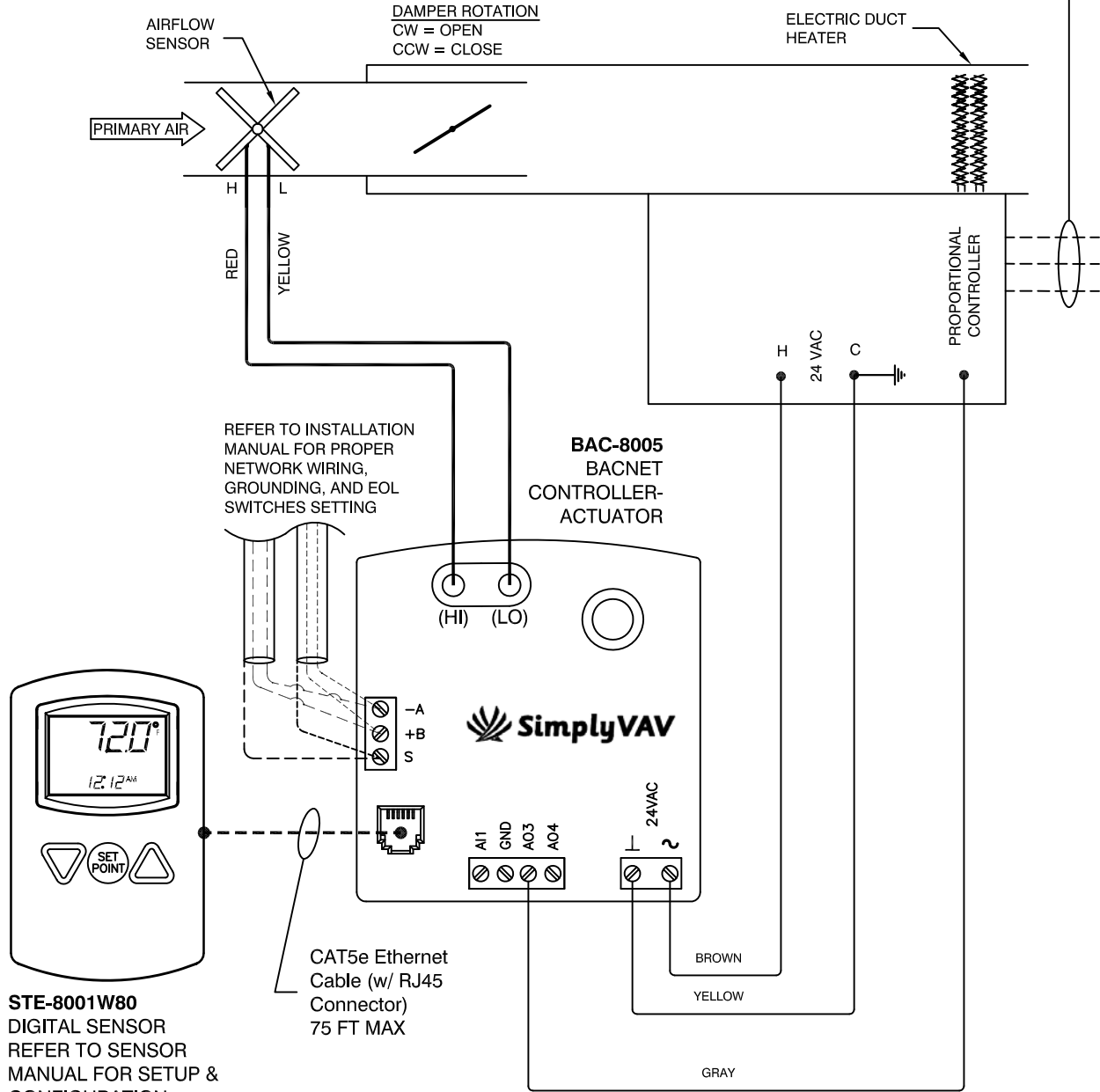
# ANEMOSTAT®

SINGLE DUCT AIR TERMINAL

## Control Package SD - D - 8005A

- BACNET DIGITAL CONTROLS
- VAV COOLING WITH ELECTRIC HEAT - PROP CONTROL
- PRESSURE INDEPENDENT
- DIGITAL SENSOR STE-8001W80

**HEATER POWER SUPPLY**  
 - VARIES FOR PROJECT REQUIREMENTS  
 - ALSO SEE HEATER DIAGRAM IN HEATER ELECTRICAL ENCLOSURE



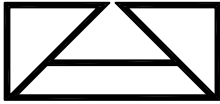
REFER TO INSTALLATION MANUAL FOR PROPER NETWORK WIRING, GROUNDING, AND EOL SWITCHES SETTING

**STE-8001W80**  
 DIGITAL SENSOR  
 REFER TO SENSOR MANUAL FOR SETUP & CONFIGURATION

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

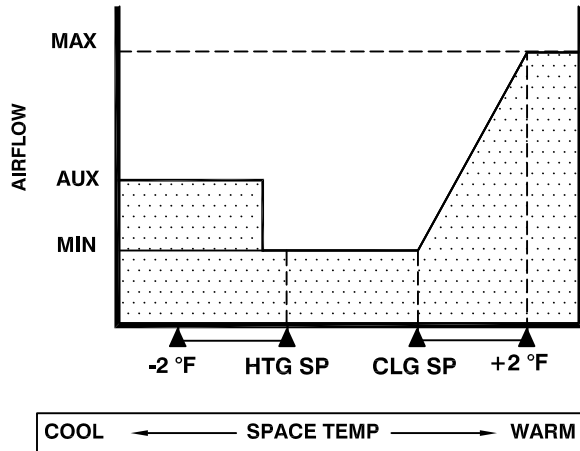
**JOB NAME:**  
**SUBMITTED BY:**  
**DATE:**

**DWG #: SD-D-8005A.1**  
**REV: B**  
**DATE: 02-28-17**

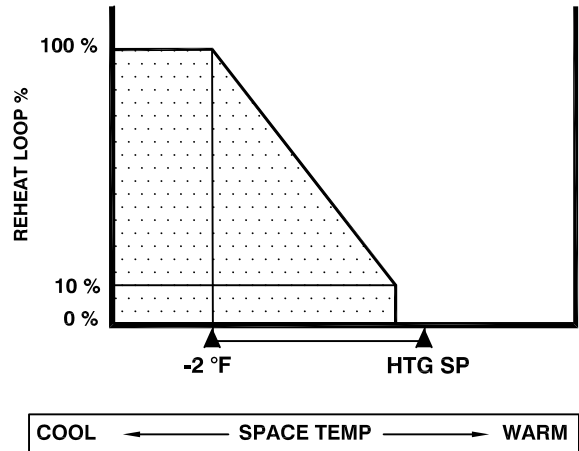


- BACNET DIGITAL CONTROLS
- VAV COOLING WITH ELECTRIC HEAT (PROPORTIONAL CONTROL)
- PRESSURE INDEPENDENT
- DIGITAL SENSOR STE-8001W80

VAV COOLING



PROPORTIONAL HEAT



## SEQUENCE OF OPERATION

ALL SET POINTS ARE ADJUSTABLE AT THE WALL SENSOR. SEE SENSOR USER MANUAL FOR DETAILS.

1. THE WALL SENSOR SIGNALS THE CONTROLLER IN RESPONSE TO THE SPACE TEMPERATURE.
2. AS THE SPACE TEMPERATURE INCREASES FROM THE COOLING SET POINT TO +2° F ABOVE THE COOLING SET POINT, THE DAMPER OPENS FROM MINIMUM AIR FLOW TO MAXIMUM AIR FLOW. ABOVE (CLG SP + 2° F), THE DAMPER MAINTAINS MAXIMUM FLOW.
3. MINIMUM AIR FLOW IS MAINTAINED WHEN THE SPACE TEMPERATURE IS BETWEEN THE HEATING AND COOLING SET POINTS.
4. AS THE SPACE TEMPERATURE DECREASES BELOW HEATING SET POINT TO -2° F BELOW THE HEATING SET POINT, THE TIME PROPORTIONED ELECTRIC HEATER INCREASES FROM 0% TO 100% AS THE HEATING LOOP INCREASES TO 100%. AS THE SPACE TEMPERATURE REVERSES BACK TOWARDS THE HEATING SET POINT, TIME PROPORTIONING HEAT DECREASES TO 0%.
5. AN AUXILIARY AIR FLOW FEATURE CAN BE PROGRAMMED TO INCREASE THE AIR FLOW ACROSS THE COIL AS THE SPACE TEMPERATURE DECREASES BELOW THE HEATING SET POINT TEMPERATURE.
6. UPON LOSS OF POWER, DAMPER FAILS IN PLACE.

JOB NAME:  
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DWG #: SD-D-8005A.2  
REV: -  
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