

# ANEMOSTAT®

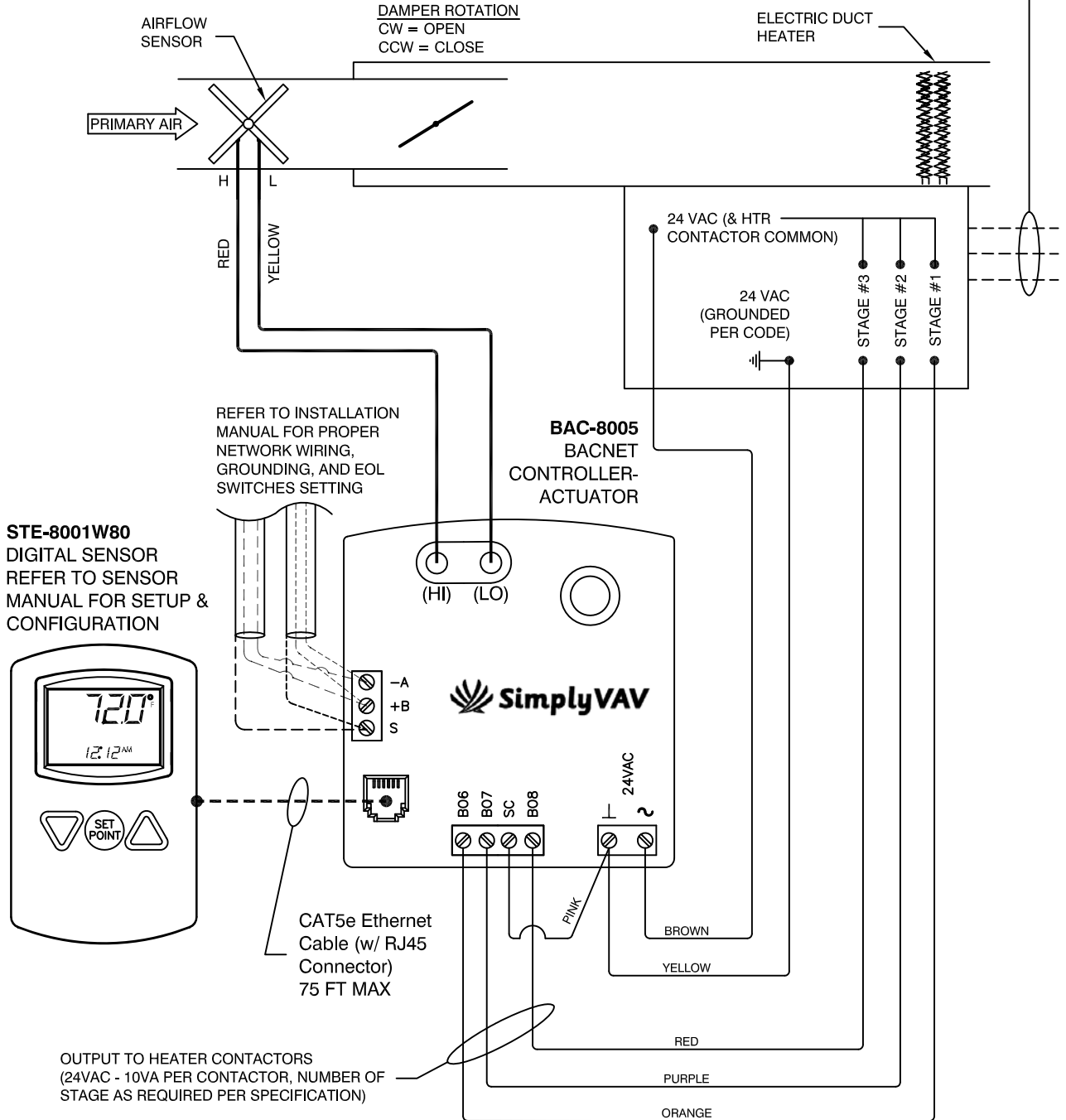
## SINGLE DUCT AIR TERMINAL

# Control Package

## SD - D - 8004A

- BACNET DIGITAL CONTROLS
- VAV COOLING WITH ELECTRIC HEAT - STEP CONTROL (3 MAX)
- PRESSURE INDEPENDENT
- DIGITAL SENSOR STE-8001W80

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

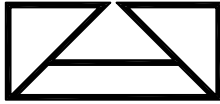


- FACTORY WIRING
- - - FIELD WIRING
- FACTORY PIPING

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

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

**DWG #: SD-D-8004A.1**  
**REV: C**  
**DATE: 03-27-17**



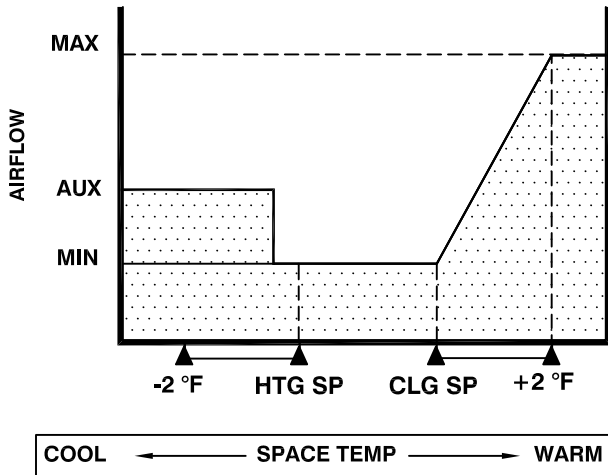
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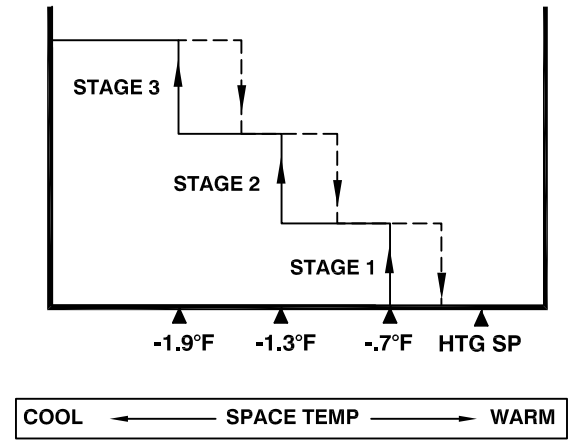
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**VAV COOLING**



**STEP HEAT SEQUENCE**



## 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, UP TO 3 STAGES OF ELECTRIC HEAT (1,2,3) ARE ENERGIZED RESPECTIVELY. AS THE SPACE TEMPERATURE RISES BACK TOWARD THE HEATING SET POINT, HEATING STAGES (3,2,1) ARE TURNED OFF RESPECTIVELY.
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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