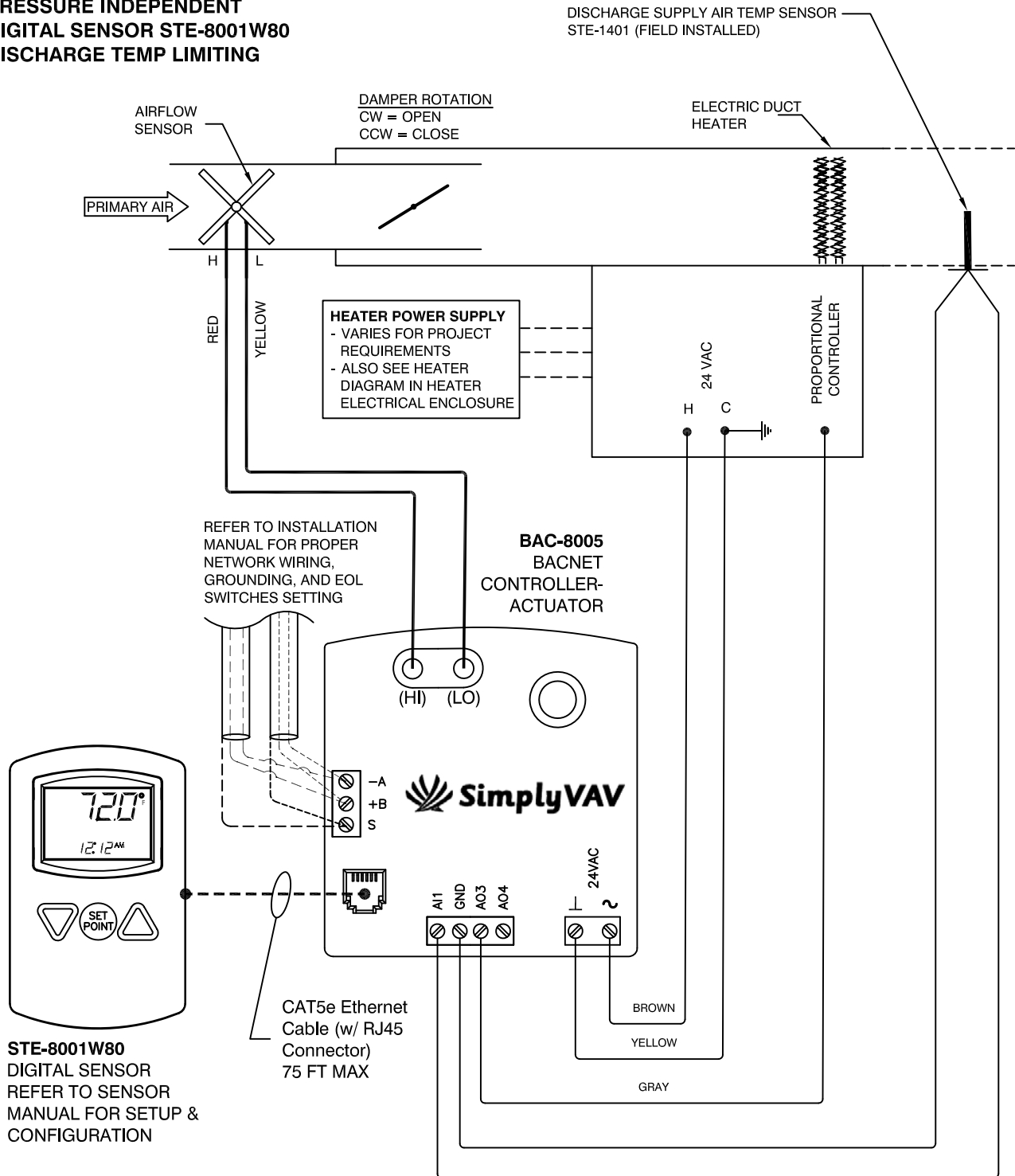


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SINGLE DUCT AIR TERMINAL

Control Package
SD - D - 8006A

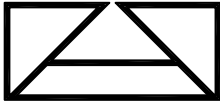
- BACNET DIGITAL CONTROLS
- VAV COOLING WITH ELECTRIC HEAT - PROP CONTROL
- PRESSURE INDEPENDENT
- DIGITAL SENSOR STE-8001W80
- DISCHARGE TEMP LIMITING



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

JOB NAME:
SUBMITTED BY:
DATE:

DWG #: SD-D-8006A.1
REV: C
DATE: 03-01-17



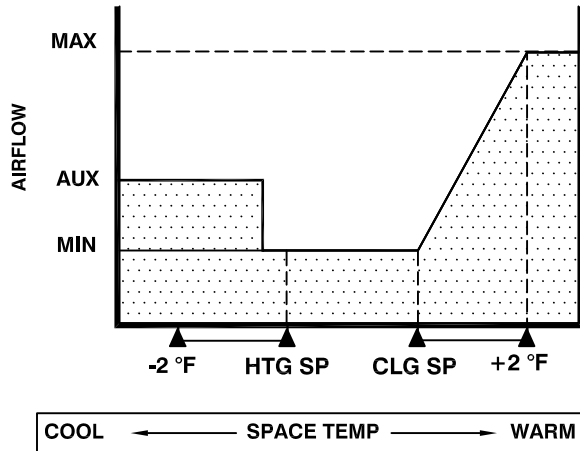
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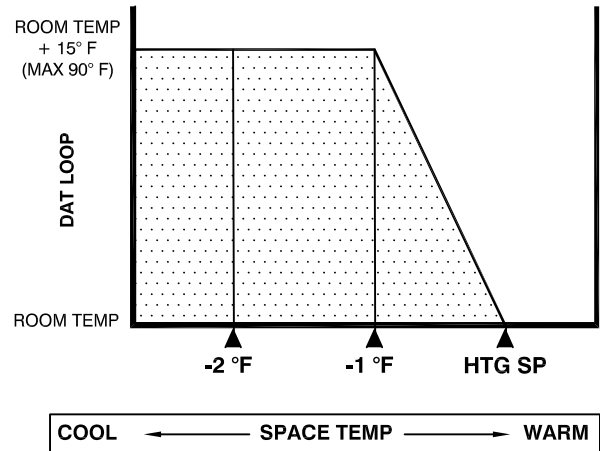
Control Package
SD - D - 8006A

- BACNET DIGITAL CONTROLS
- DIGITAL SENSOR STE-8001W80
- PROPORTIONAL ELECTRIC HEAT (DISCHARGE TEMPERATURE LIMITING)
- PRESSURE INDEPENDENT
- VAV COOLING (& OPTIONAL VAV HEATING CHANGEOVER)

VAV COOLING



PROPORTIONAL HEAT



SEQUENCE OF OPERATION

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

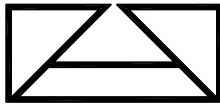
THE WALL SENSOR SIGNALS THE CONTROLLER IN RESPONSE TO THE SPACE TEMPERATURE.

VAV COOLING (PRIMARY < 72° F)

1. AS THE SPACE TEMPERATURE INCREASES FROM THE COOLING SET POINT TO +2° F ABOVE THE COOLING SET POINT, THE DAMPER OPENS FROM MINIMUM COOLING AIR FLOW TO MAXIMUM COOLING AIR FLOW. ABOVE (CLG SP + 2° F), THE DAMPER MAINTAINS MAXIMUM FLOW.
2. MINIMUM AIR FLOW IS MAINTAINED WHEN THE SPACE TEMPERATURE IS BETWEEN THE HEATING AND COOLING SET POINTS.
3. AS THE SPACE TEMPERATURE DECREASES BELOW HEATING SET POINT TO -2° F BELOW THE HEATING SET POINT, THE ELECTRIC HEATER OUTPUT INCREASES FROM 0% TO 100% AS THE DAT LOOP INCREASES TO 100%. AS THE SPACE TEMPERATURE REVERSES BACK TOWARDS THE HEATING SET POINT, TIME PROPORTIONING HEAT DECREASES TO 0%. THE PROGRAMMABLE AUXILIARY AIR FLOW RATE IS MAINTAINED DURING HEATING.
4. WITH DISCHARGE AIR TEMPERATURE LIMITING (DAT) ENABLED, THE DISCHARGE AIR TEMPERATURE IS DETERMINED BASED ON THE DAT LOOP. THE LEAVING AIR TEMPERATURE SET POINT IS LIMITED TO A MAXIMUM OF 15° F ABOVE THE SPACE TEMPERATURE WITH A MAXIMUM TEMPERATURE OF 90° F.

JOB NAME:
SUBMITTED BY:
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DWG #: SD-D-8006A.2
REV: -
DATE: 3-29-17

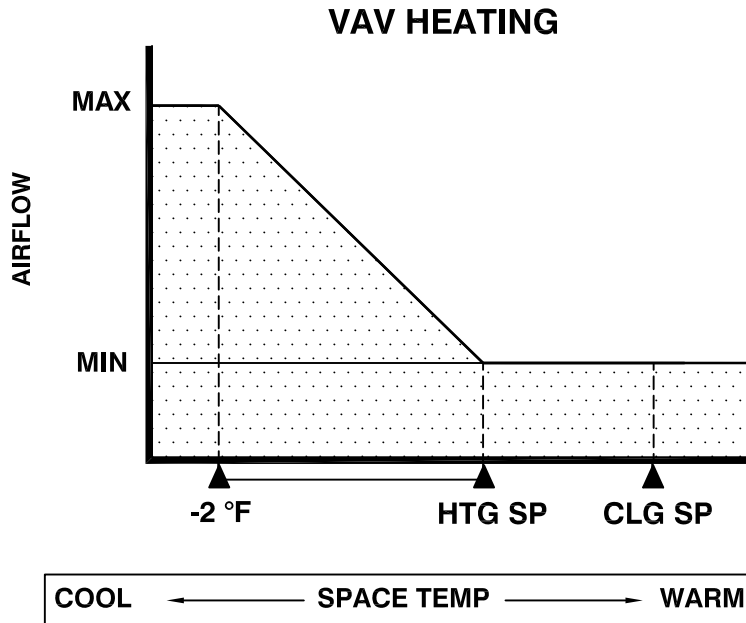


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SINGLE DUCT AIR TERMINAL

Control Package
SD - D - 8006A

- BACNET DIGITAL CONTROLS
- SENSOR STE-6010W80
- PROPORTIONAL ELECTRIC HEAT (DISCHARGE TEMPERATURE LIMITING)
- PRESSURE INDEPENDENT
- VAV COOLING (& OPTIONAL VAV HEATING CHANGEOVER)



VAV HEATING (PRIMARY AIR > 76° F)

1. AS THE SPACE TEMPERATURE DECREASES FROM THE HEATING SET POINT TO -2° F BELOW THE HEATING SET POINT, THE DAMPER OPENS FROM MINIMUM HEATING AIR FLOW TO MAXIMUM HEATING AIR FLOW. ABOVE THE HEATING SET POINT, THE DAMPER MAINTAINS MINIMUM FLOW.
2. THE CHANGEOVER TEMPERATURE TO INDEX TO VAV COOLING OR VAV HEATING IS ADJUSTABLE (DEFAULT IS 74° F). COOLING MODE IS ENABLED WHEN THE SUPPLY AIR TEMPERATURE IS AT LEAST -2° F BELOW THE CHANGEOVER TEMP. HEATING MODE IS ENABLED WHEN THE SUPPLY AIR TEMPERATURE IS AT LEAST +2° F ABOVE THE CHANGEOVER TEMP.
3. THE ELECTRIC DUCT HEATER IS LOCKED OUT DURING VAV HEATING MODE.

UPON LOSS OF POWER, DAMPER FAILS IN PLACE.

JOB NAME:
SUBMITTED BY:
DATE:

DWG #: SD-D-8006A.3
REV: -
DATE: 3-29-17