## **ANEMOSTA**1 SINGLE DUCT AIR TERMINAL

**Control Package** 

SD - D - 8004D

HEATER POWER SUPPLY

VARIES FOR PROJECT

REQUIREMENTS

STAGE #3 STAGE #2 #1

STAGE

24 VAC

(GROUNDED PER CODE) ᆘ

- BACNET DIGITAL CONTROLS
- VAV COOLING WITH ELECTRIC HEAT STEP CONTROL (3 MAX)

REFER TO INSTALLATION

MANUAL FOR PROPER NETWORK WIRING.

GROUNDING, AND EOL

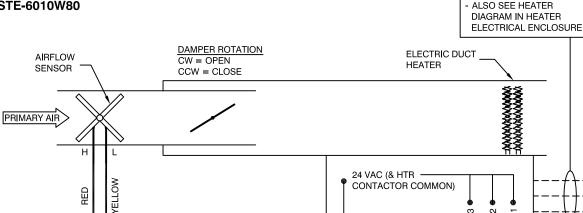
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SWITCHES SETTING

- PRESSURE INDEPENDENT
- SENSOR STE-6010W80



**BAC-8005** 

CONTROLLER-

⋙ SimplyVAV

0

YELLOW

RED

PURPLE

B06 B07 SC B06 Ø Ø Ø Ø

**ACTUATOR** 

**BACNET** 

NOTE: SETTING IS CONFIGURED ON DIGITAL SENSOR (EX. STE-8001). TEMPORARILY CONNECT A DIGITAL SENSOR AS SERVICE TOOL TO ADJUST SETTING. SEE USER MANUAL FOR DETAILS.

> STE-6010W80 **ROOM TEMPERATURE SENSOR** CAT5e Ethernet Cable (w/RJ45 Connector) 75 FT MAX

**OUTPUT TO HEATER CONTACTORS** (24VAC - 10VA PER CONTACTOR, NUMBER OF STAGE AS REQUIRED PER SPECIFICATION)

**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-8004D 1

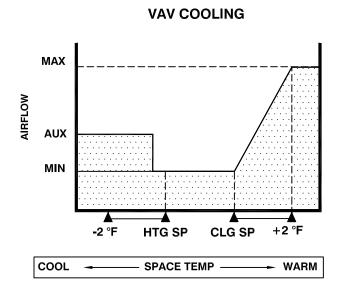
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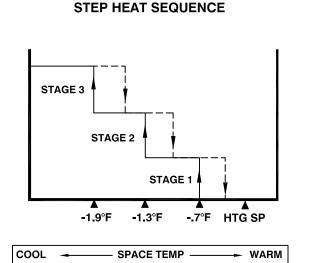
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Control Package
- D - 8004D

- BACNET DIGITAL CONTROLS
- VAV COOLING WITH ELECTRIC HEAT STEP CONTROL (3 MAX)
- PRESSURE INDEPENDENT
- SENSOR STE-6010W80





## **SEQUENCE OF OPERATION**

TO ACCESS CONTROLLER SET POINTS AT THE LOCAL LEVEL, TEMPORARILY CONNECT DIGITAL SENSOR STE-8001W890 AS A SERVICE TOOL. 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  $\pm 2^{\circ}$  F ABOVE THE COOLING SET POINT, THE DAMPER OPENS FROM MINIMUM AIR FLOW TO MAXIMUM AIR FLOW. ABOVE (CLG SP  $\pm 2^{\circ}$  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: SUBMITTED BY: DATE: DWG #: S-D-8004D.2

REV: C

DATE: 03-27-17