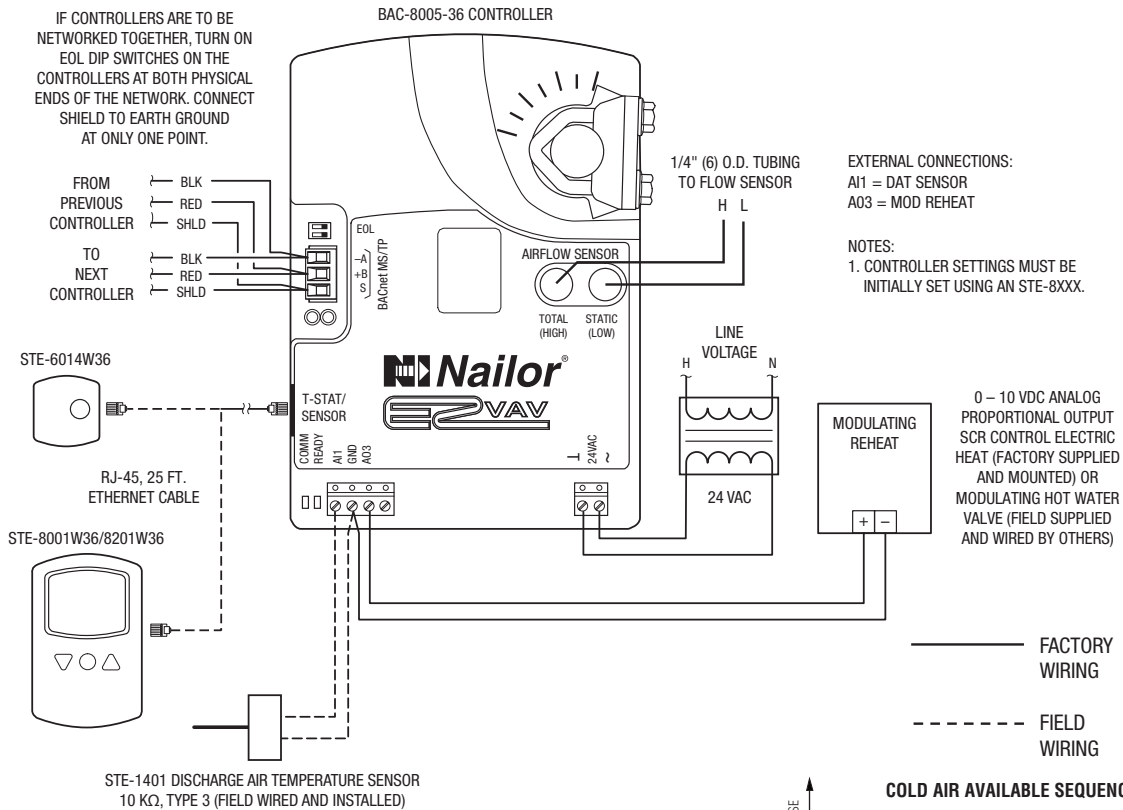




**EZVAV DIGITAL CONTROLS
SINGLE DUCT VAV TERMINAL UNIT
COOLING WITH MODULATING REHEAT
PRESSURE INDEPENDENT
MODELS: 30RE(Q)(HQ) AND 30RW(Q)(HQ) N102**

IF CONTROLLERS ARE TO BE NETWORKED TOGETHER, TURN ON EOL DIP SWITCHES ON THE CONTROLLERS AT BOTH PHYSICAL ENDS OF THE NETWORK. CONNECT SHIELD TO EARTH GROUND AT ONLY ONE POINT.



EXTERNAL CONNECTIONS:
A11 = DAT SENSOR
A03 = MOD REHEAT

NOTES:
1. CONTROLLER SETTINGS MUST BE INITIALLY SET USING AN STE-8XXX.

0 - 10 VDC ANALOG PROPORTIONAL OUTPUT SCR CONTROL ELECTRIC HEAT (FACTORY SUPPLIED AND MOUNTED) OR MODULATING HOT WATER VALVE (FIELD SUPPLIED AND WIRED BY OTHERS)

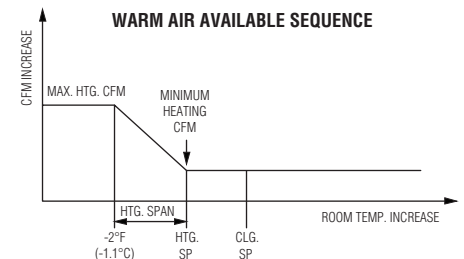
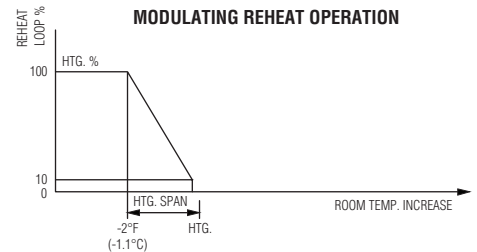
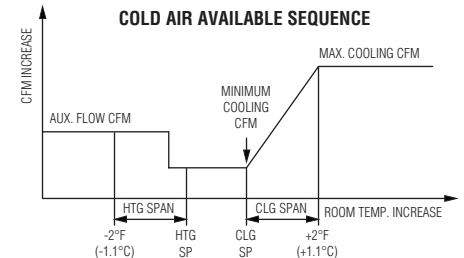
Room Temperature Sensor Option:

- TSD Digital Display (STE-8001W36)
- TSDO Digital Display w/Occupancy Motion Sensor (STE-8201W36)
- TSR Rotary Dial (STE-6014W36)

CONTROL SEQUENCE N102

Sequence of Operation:

1. Changeover/Morning Warm-up (Central AHU Heat/Cool): If supply air as measured by the discharge air temperature (DAT) sensor is below 72°F (22.2°C), cool air is said to be available. If supply air is above 76°F (24.4°C), warm air is said to be available. Any time warm air is available, auxiliary heat is locked out.
2. Cool Air Available: As the space temperature rises above the cooling setpoint, the controller increases airflow. At a space temperature of 2°F (1.1°C) above the cooling setpoint, maximum cooling airflow is maintained. On a decrease in space temperature, the controller reduces airflow. From cooling setpoint to heating setpoint, minimum cooling airflow is maintained. If the temperature drops further and reheat is required, the auxiliary flow rate is maintained.
3. Reheat: As the space temperature drops below the heating setpoint, the heating output modulates. As the space temperature rises toward the heating setpoint, the heating output modulates closed. If the heating loop is less than 10%, the heating output remains at 0%.
4. If DAT Discharge Air Temperature limiting is enabled and a DAT sensor is detected, the discharge air reheat setpoint is determined based on the heating loop. The discharge temperature is limited to 15°F (8.3°C) above space temperature up to a maximum of 90°F (32.2°C).
5. Warm Air Available: As the space temperature drops below the heating setpoint, the controller increases airflow. At a space temperature of 2°F (1.1°C) below the heating setpoint, maximum heating airflow is maintained. On an increase in space temperature, airflow decreases. As space temperature rises above the heating setpoint, minimum heating airflow is maintained.



SCHEDULE TYPE:	
PROJECT:	
ENGINEER:	
CONTRACTOR:	

DATE	B SERIES	SUPERSEDES	DRAWING NO.
2 - 22 - 23	3000	10 - 20 - 16	D30N102