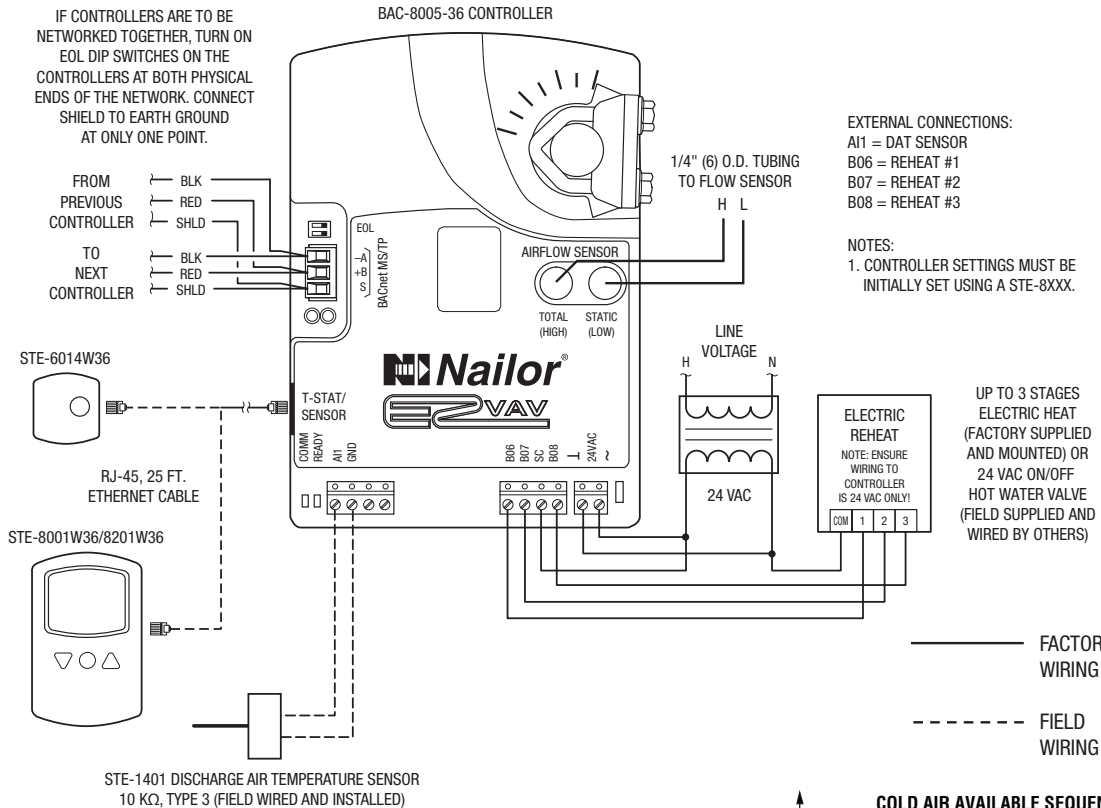




EZVAV DIGITAL CONTROLS
SINGLE DUCT VAV TERMINAL UNIT
 COOLING WITH BINARY REHEAT (STAGED ELECTRIC OR ON/OFF HOT WATER) • PRESSURE INDEPENDENT
MODELS: 30RE(Q)(HQ) AND 30RW(Q)(HQ) N104

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.



Room Temperature Sensor Option:

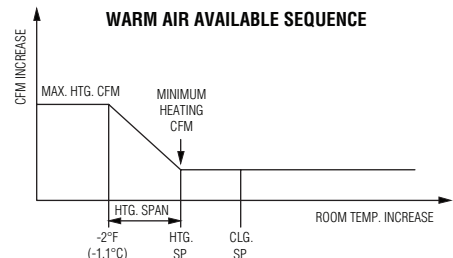
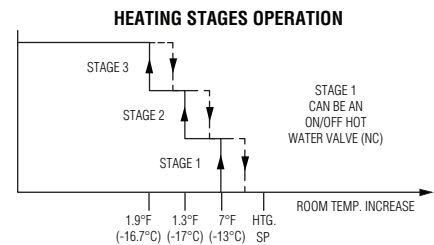
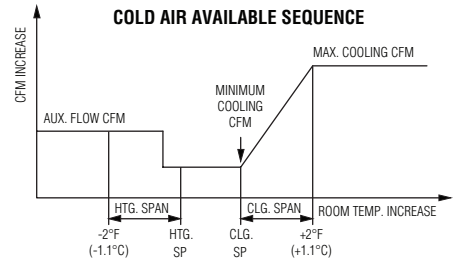
- TSD Digital Display (STE-8001W36)
- TSDO Digital Display w/Occupancy Motion Sensor (STE-8201W36)
- TSR Rotary Dial (STE-6014W36)

CONTROL SEQUENCE N104

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, up to 3 stages of electric reheat are energized respectively. As the space temperature rises back toward the heating setpoint, heating stages 3, 2 and 1 turn off respectively (Alternatively, an on/off two position spring return hot water valve can be controlled).
4. 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.

Note: DO NOT enable the DAT Discharge Air Temperature limiting feature for binary staged or on/off reheat as short cycling will occur.



SCHEDULE TYPE:				
PROJECT:				
ENGINEER:		DATE	B SERIES	SUPERSEDES
CONTRACTOR:		2 - 22 - 23	3000	10 - 20 - 16
				DRAWING NO.
				D30N104