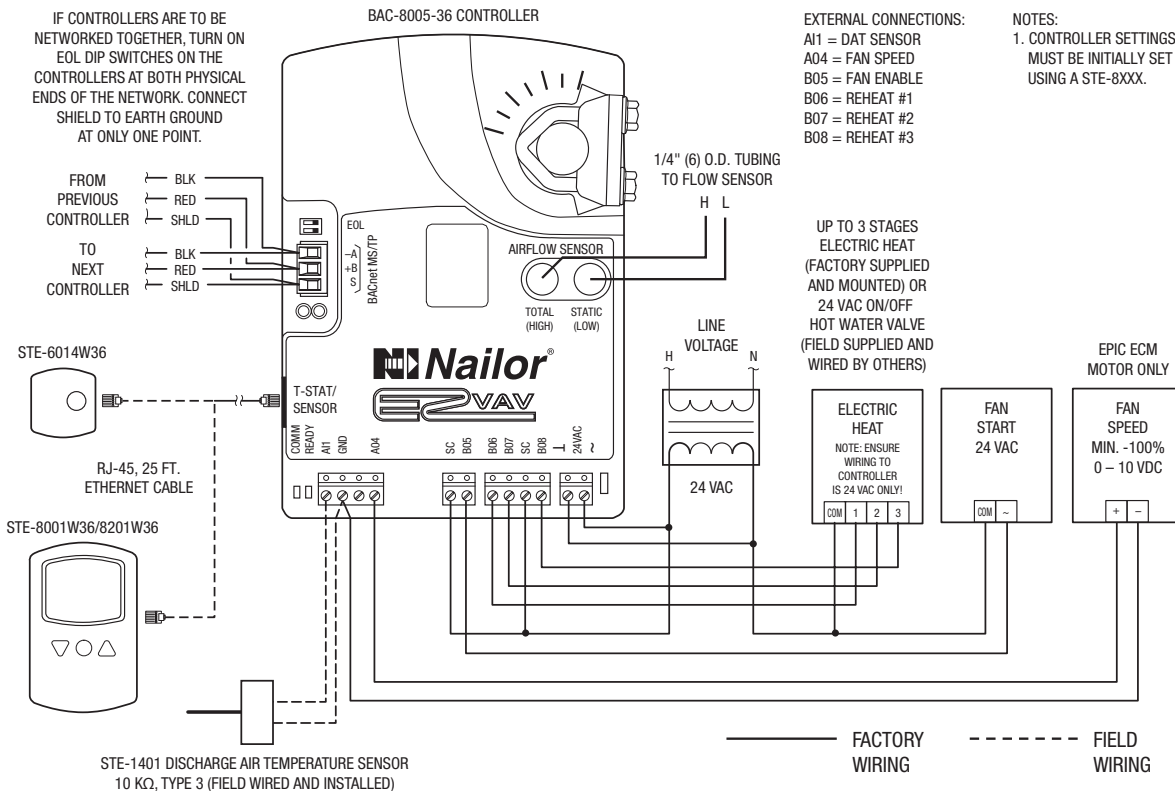




**EZVAV DIGITAL CONTROLS
PARALLEL FAN POWERED (VAV) TERMINAL UNIT
COOLING WITH BINARY HEAT (STAGED ELECTRIC OR
ON/OFF HOT WATER) • PRESSURE INDEPENDENT
MODELS: 35NE, 35NW, 37NE AND 37NW N404**

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:
A01 = DAT SENSOR
A04 = FAN SPEED
B05 = FAN ENABLE
B06 = REHEAT #1
B07 = REHEAT #2
B08 = REHEAT #3

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

UP TO 3 STAGES ELECTRIC HEAT (FACTORY SUPPLIED AND MOUNTED) OR 24 VAC ON/OFF 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)

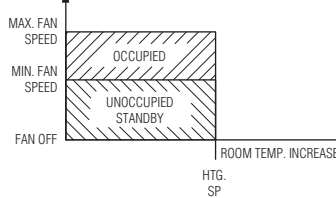
CONTROL SEQUENCE N404

Sequence of Operation:

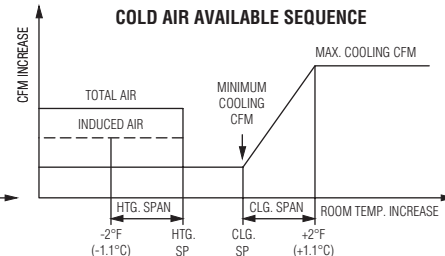
1. Changeover/Morning Warm-up (Central AHU Heat/Cool): If supply air as measured by the discharge air temperature (DAT) sensor is below 72°F (22.2°C), cool air is said to be available. If supply air is above 76°F (24.4°C), warm air is said to be available. Any time warm air is available, auxiliary heat is locked out.
2. Cool Air Available: As 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. Below cooling setpoint minimum airflow is maintained.
3. The fan is started only on a call for heat. The fan stops if there is no call for heat. During occupied mode, the fan runs at maximum fan speed. EPIC ECM Motor Only: During standby and unoccupied modes, the fan runs at minimum fan speed.
4. Supplemental Heat: As the space temperature drops below the heating setpoint, up to 3 stages of electric heat 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).
5. Warm Air Available: The fan is locked out. As 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.

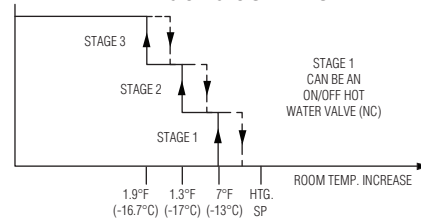
FAN OPERATION



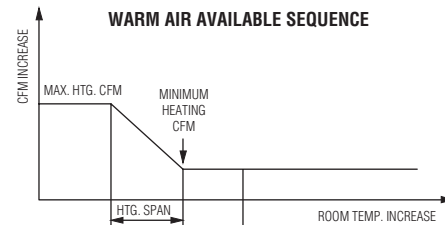
COLD AIR AVAILABLE SEQUENCE



HEATING STAGES OPERATION



WARM AIR AVAILABLE SEQUENCE



SCHEDULE TYPE:		DATE	B SERIES	SUPERSEDES	DRAWING NO.
PROJECT:		2 - 22 - 23	3500	10 - 20 - 16	D35N404
ENGINEER:					
CONTRACTOR:					