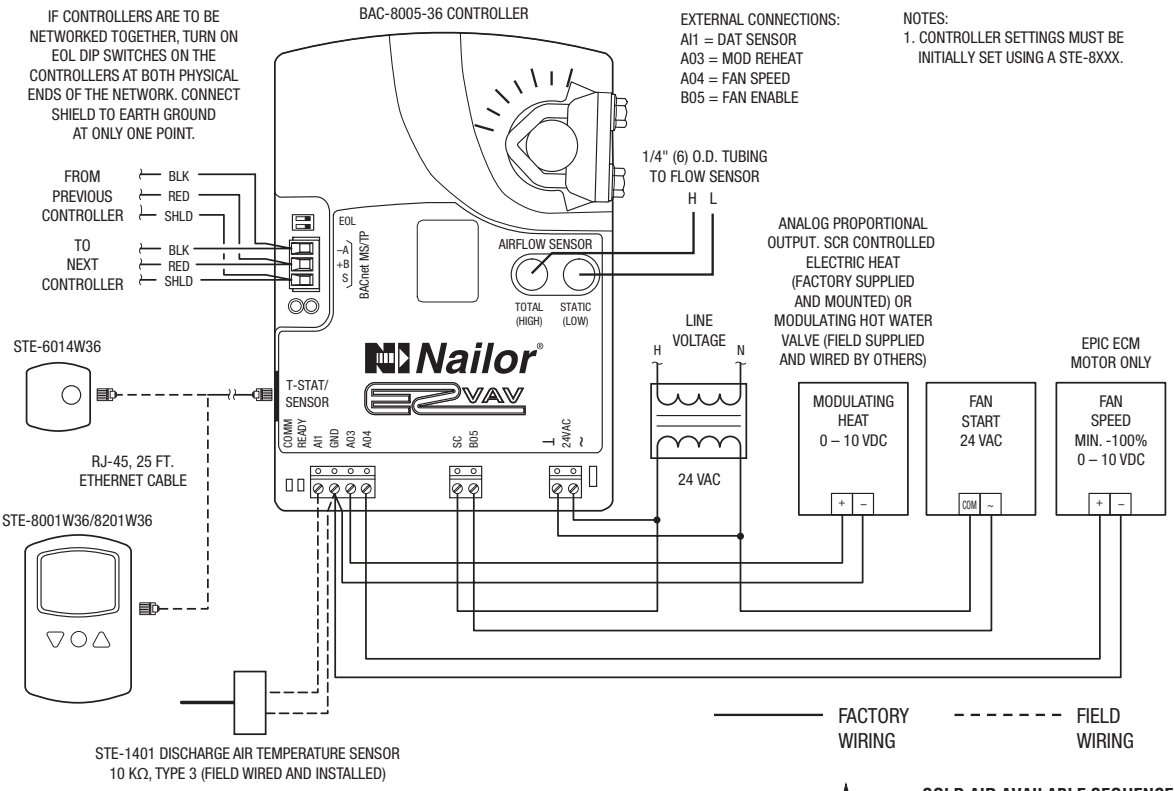
EZVAV DIGITAL CONTROLS
PARALLEL FAN POWERED (VAV) TERMINAL UNIT
COOLING WITH MODULATING HEAT
PRESSURE INDEPENDENT
MODELS: 35NE, 35NW, 37NE AND 37NW N402



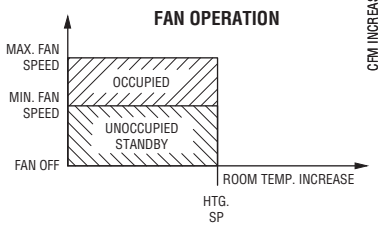
Room Temperature Sensor Option:

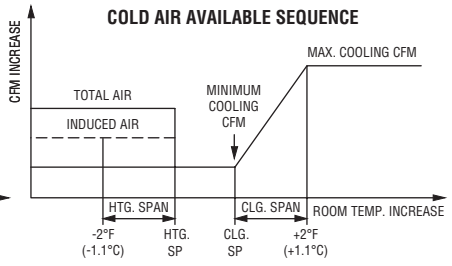
- ❑ **TSD** Digital Display (STE-8001W36)
- ❑ **TSDO** Digital Display w/Occupancy Motion Sensor (STE-8201W36)
- ❑ **TSR** Rotary Dial (STE-6014W36)

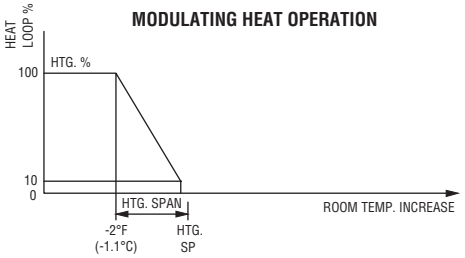
CONTROL SEQUENCE N402

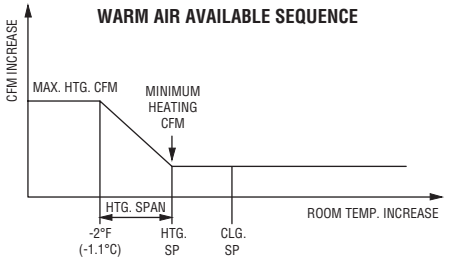
Sequence of Operation:

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 primary 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. The fan induces warm ceiling plenum air. 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, the heating output modulates open. As the space temperature rises towards the heating setpoint, the heating modulates closed. If the heating loop is less than 10%, the heating output remains at 0%.
5. If DAT limiting is enabled and a DAT sensor is detected, the discharge air heating 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).
6. Warm Air Available: The fan is locked out. As space temperature drops below the heating setpoint, the controller increases primary 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:	**DATE**	**B SERIES**	**SUPERSEDES**	**DRAWING NO.**
CONTRACTOR:	**2 - 22 - 23**	**3500**	**10 - 14 - 16**	**D35N402**